

Prepared for:

Hunter New England Area Health Services

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Hazardous Materials Survey of Tamworth Base Hospital Johnston and Dean Streets Tamworth NSW 2340

ENSR Australia Pty Ltd (ENSR)

30 April 2009

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Distribution

**Hazardous Materials Survey of Tamworth Base Hospital
Johnston and Dean Streets
Tamworth NSW 2340**

30 April 2009

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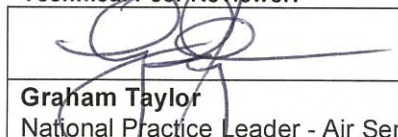


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Hazardous Materials Survey of Tamworth Base
Hospital

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Executive Summary

At the request of Michael Freund on behalf of Hunter New England Area Health Services (HNEAHS), ENSR Australia Pty Ltd (ENSR), an AECOM Company, undertook a hazardous materials survey and asbestos risk assessment at the Tamworth Base Hospital site located at Tamworth, NSW.

The purpose of the survey, which is required to be undertaken prior to proposed alteration and refurbishment works and which is also intended to meet owner/employer obligations under the NSW Occupational Health & Safety Regulation 2001, was to identify the location, extent and condition of accessible asbestos containing and other hazardous construction materials present throughout the buildings located on site and also determine the likely impact of these materials on persons accessing the site or on any proposed building works.

For the purpose of this report, hazardous materials are asbestos-containing materials (ACM), synthetic mineral fibres (SMF), lead based paint and polychlorinated biphenyl (PCB) materials.

Asbestos

The areas listed below contain ACM that would meet the definition of '*friable asbestos*' as defined in the NSW Occupational Health & Safety Regular 2001 and in guidance documentation published by the NSW WorkCover Authority. It is recommended that no access to these areas be permitted unless under controlled conditions until the ACM and asbestos contamination is removed. These ACM will need to be removed by an AS1 Licensed Asbestos Removal Contractor under controlled asbestos conditions.

- Building TA12 – Palliative Care
 - South east corner Boiler Room
 - Roof spaces (presumed)
- Building TA15 – Kitchen/Dining Room
 - Ground floor kitchen areas
 - Foundation spaces
 - Roof level, externally and internally
- Building TA18 – Wards, 8, 9 and 10
 - Fire doors
 - External service trenches
- Building TA19 – 1883 Building
 - East end boiler room
 - Roof level, externally
 - Main electrical room, north west project
- Building TA20
 - Older/original fire doors
 - Roof level plantroom

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- Interior of ductwork at heating elements (possible)
- Ceiling spaces and riser shafts
- Lower ground floor plant areas
- Basement level plant areas
- Building TA21 – Workshop/Linen Services
 - Workshop, office and amenities areas
 - Engineering Workshops and Plant Areas
 - Main Boiler Room
- Building TA24 – Dean House
 - Foundation spaces (possible)
- Building TA26 – Johnston House
 - Foundation spaces
 - Service risers
 - Upper level ceiling spaces
 - Plantrooms

Flat sheet asbestos containing or presumed asbestos containing materials were found generally throughout the older and original buildings, and site as detailed in the Hazardous Materials Register. Those which were considered in good condition and sealed with paint should be maintained in this condition and asbestos warning labels provided. Where flat sheet asbestos containing or presumed asbestos containing materials were identified to be in fair condition with minor damage as detailed in the Hazardous Material Register, the material should be replaced with non-asbestos materials or sealed where edges are exposed under controlled conditions and asbestos warning labels provided.

Synthetic Mineral Fibre (SMF)

SMF is present in numerous locations throughout the majority of the buildings and is utilised primarily as insulation material, including at the underside of metal roofing, to the top of some ceilings, to air conditioning ductwork, to hot water pipework, and to hot water and boiling water units.

The SMF materials identified are in good condition, being generally undamaged, or concealed within foundation and roof spaces or behind outer metal linings and are unlikely to pose a risk while they remain in-situ, undisturbed and in their present location and condition.

Polychlorinated Biphenyls (PCB)

Representative fluorescent light fittings were inspected to assess their likelihood for containing of capacitors that may contain PCB. All light fittings should be inspected as they are removed or replaced and those containing metal capacitors be treated as containing PCB unless proven otherwise.

Lead Based Paint

Representative paint samples were tested for lead paint and all positive results were recorded in the Hazardous Materials Register. All paints of a similar age and/or colour to those containing lead listed in the Register should also be presumed to contain lead.

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1.0 Introduction

At the request of Michael Freund on behalf of Hunter New England Area Health Services (HNEAHS), ENSR Australia Pty Ltd (ENSR), an AECOM Company, undertook a hazardous materials survey and asbestos risk assessment at the Tamworth Base Hospital site located at Tamworth, NSW.

The purpose of the survey, which is required to be undertaken prior to proposed alteration and refurbishment works and which is also intended to meet owner/employer obligations under the NSW Occupational Health & Safety Regulation 2001, was to identify the location, extent and condition of accessible asbestos containing and other hazardous construction materials present throughout the buildings located on site and also determine the likely impact of these materials on persons accessing the site or on any proposed building works.

For the purpose of this report, hazardous materials are asbestos-containing materials (ACM), synthetic mineral fibres (SMF), lead based paint and polychlorinated biphenyl (PCB) materials.

The premises were generally fully occupied and operational at the time of the inspection. For the purpose of this survey, Dean Street adjoining the site, is taken to be oriented in a north/south direction.

This report presents the findings of a survey undertaken during November and December 2008 and February 2009, and includes a register of hazardous materials and an asbestos risk assessment. A Site Plan is contained in **Appendix A** and the Hazardous Materials Register is contained in **Appendix B**.

Photographic records of the hazardous materials were collected during the survey and are presented in the **Plates Section** and in **Appendix B: Hazardous Materials Register**.

Please note the following conditions:

- There was limited access to the following areas due to safety concerns:
 - Proportion of roofs due to height and access restrictions;
 - Portions of foundation spaces due to height and space restrictions;
 - Interiors of metal electrical cabinet;
 - Some roof spaces due to height and access restrictions;
 - External service trenches due to weight of concrete covers.
- There was limited access to the following areas:
 - Portions of foundation spaces due to height restrictions and limited lines of sight;
 - Some roof spaces due to height and access restrictions;
 - Ceiling spaces to multi-level buildings;
 - Service risers
- There is no internal access to the following areas:
 - Lift shafts, some lift motor rooms;
 - Sub-floor areas to concrete floors on ground;
 - Occupied bedrooms/unit to staff accommodation generally (i.e. Buildings TA26 and TA34);

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- Building TA12, Foundation level plantroom, south west corner;
- Building TA32;
- Core material to fire doors generally;
- Occupied wards generally;
- Occupied consulting rooms generally

2.0 Types and Uses of Asbestos Containing Materials (ACM)

Asbestos is the fibrous form of mineral silicates belonging to the serpentine and amphibole groups of rock-forming materials. The most significant types include chrysotile, crocidolite and amosite (white, blue and brown or grey asbestos respectively). As a naturally occurring rock fibre, asbestos is mined, and then broken down from mineral clumps into groups of loose fibres.

During the 1950s, 1960s and early 1970s it was common to use asbestos as fire insulation on structural members and as fire rating of penetration core holes. Its thermal energy conservation properties were used to insulate hot and cold water pipes and ducting. Asbestos was also used to a later date in products to increase their compressive and tensile strength. These products include asbestos cement (AC) sheeting, bituminous mastic and membrane, vinyl tiles, electrical backing boards and many other products.

3.0 Types and Uses of Synthetic Mineral Fibre (SMF)

For more than 60 years glass fibre, mineral wool and ceramic fibre materials have been used in products for their thermal, acoustic and fire insulation properties and in some products for fibre reinforcement. These fibres have, in special circumstances, been used as a replacement for asbestos based materials. The fibres of all these types of materials are described as SMF and are categorised as amorphous (non-crystalline) fibre.

The potential for detrimental health effects resulting from exposure to synthetic mineral fibre particularly glass wool and rock wool has for many years been the subject of conjecture, primarily due to its irritant properties, however, exhaustive research over a 30 year period by the IARC (International Agency for Research on Cancer) found this material to be non-carcinogenic to humans.

4.0 Types and Uses of Polychlorinated Biphenyls (PCB)

The extent of the use of PCB is varied. They were used in fluorescent light capacitors for power factor correction on an inductive ballast circuit. They have also been used in transformers, vacuum pumps and gas – transmission turbines, and in the United States as plasticisers, adhesives and pesticide extenders and as well as many other products.

Prolonged exposure to high concentrations of PCB can cause problems including cancerous growths, nervous disorders, skin irritations, liver and pregnancy problems.

5.0 Lead Based Paint

AS4361.2 Guide to Lead Paint Management, Part 2: Residential and Commercial Buildings defines a lead based paint as a paint film or component coat of paint system containing lead or lead compounds, in which the lead content is in excess of 1.0% by weight of the dry film as determined by laboratory testing.

Exposure of high levels of dust or paint can have negative effects in both children and adults. Exposure to lead may cause reproductive problems, high blood pressure, digestive, nerve and memory issues, as well as muscular and joint pain.

6.0 Scope of Survey

6.1 Asbestos-Containing Materials and Synthetic Mineral Fibre

The survey was undertaken by way of a non destructive visual inspection of accessible construction materials located in the buildings located at the Tamworth Base Hospital site only.

Ninety six (96) samples of materials that were suspected to contain asbestos were collected and sent for analysis to Amdel Ltd's National Association of Testing Authorities, Australia (NATA) registered laboratory. Seven (7) of the samples were of vinyl tiles that were also analysed by x-ray diffraction, which detects crystalline substances and minerals (including asbestos-forming minerals). Non-crystalline substances (e.g. glass, most organic compounds) are not detectable by this technique. The samples were examined using a stereo microscope and selected fibres were further examined using polarised light microscopy supplemented with dispersion staining. The NATA endorsed asbestos identification reports are contained in **Appendix C: Laboratory Analysis Results**.

Materials which are identified as containing or not containing asbestos, but were not sampled due to their lack of accessibility (height), good condition (without causing damage), possibility of causing contamination, etc, have been presumed to contain or not containing asbestos based on their age, physical appearance or fixing types (i.e. nail and screw heads, cover strips or cover battens), and the results of sample analysis for similar materials throughout the building.

SMF materials were primarily identified by visual means or as a result of asbestos identification analysis.

6.2 Polychlorinated Biphenyls

Representative fluorescent light fittings were inspected to assess their likelihood for containing of capacitors that may contain PCB. All light fittings should be inspected as they are removed or replaced and those containing metal capacitors should be treated as containing PCB unless proven otherwise.

6.3 Lead Based Paint

Determination of lead based paints was conducted in accordance with *Appendix 1 – Standard Practice for Identification of Lead Paint* taken from AS431.2 – 1998 *Guide to Lead Paint Management – Part 2: Residential & Commercial Buildings*.

Lead paint was assessed using indicative testing methods which do not quantify the level of lead present but indicate levels of lead that would be expected to exceed Australian Standards.

Under current Australian Standards and guidelines, where the percentage lead content in paint exceeds 1.0%, the paint should be stabilised or removed by either chemical means or in a manner that does not liberate dust to the atmosphere. The waste substances should also be tested for total lead and lead leachate to determine the appropriate method for disposal. The paint is not to be removed by dry sanding or by electrical means.

7.0 Extent of Survey

Fundamental to the entire basis of an inspection of this type, where the constraints of a “non-destructive” survey are imposed, is the fact that no matter how thorough or professionally it is conducted, not all hazardous materials might be found and recorded.

Hence, the presence of hazardous materials can therefore be reported only within the constraints of these methods.

Whilst one can be reasonably confident that all hazardous materials that might be routinely encountered in the normal day-to-day activities of the building can be identified and assessed, no guarantees can be made that all hazardous materials have been identified since demolition activities may well reveal hazardous materials in areas inaccessible to this inspection.

This report is confined to reporting the discovery (or non-discovery as the case may be) and presence of hazardous materials by visual inspection and non-destructive method of those areas of the building accessible to and inspected by ENSR at the date of the inspection. ENSR will not be liable in the event the report fails to notify the presence of any hazardous materials in any area of the buildings (or property) which was on the date of inspection physically inaccessible for inspection using the methods employed or which was not otherwise inspected on that day. Nothing herein contained implies that any inaccessible or uninspected area of the building reveals or does not reveal hazardous materials.

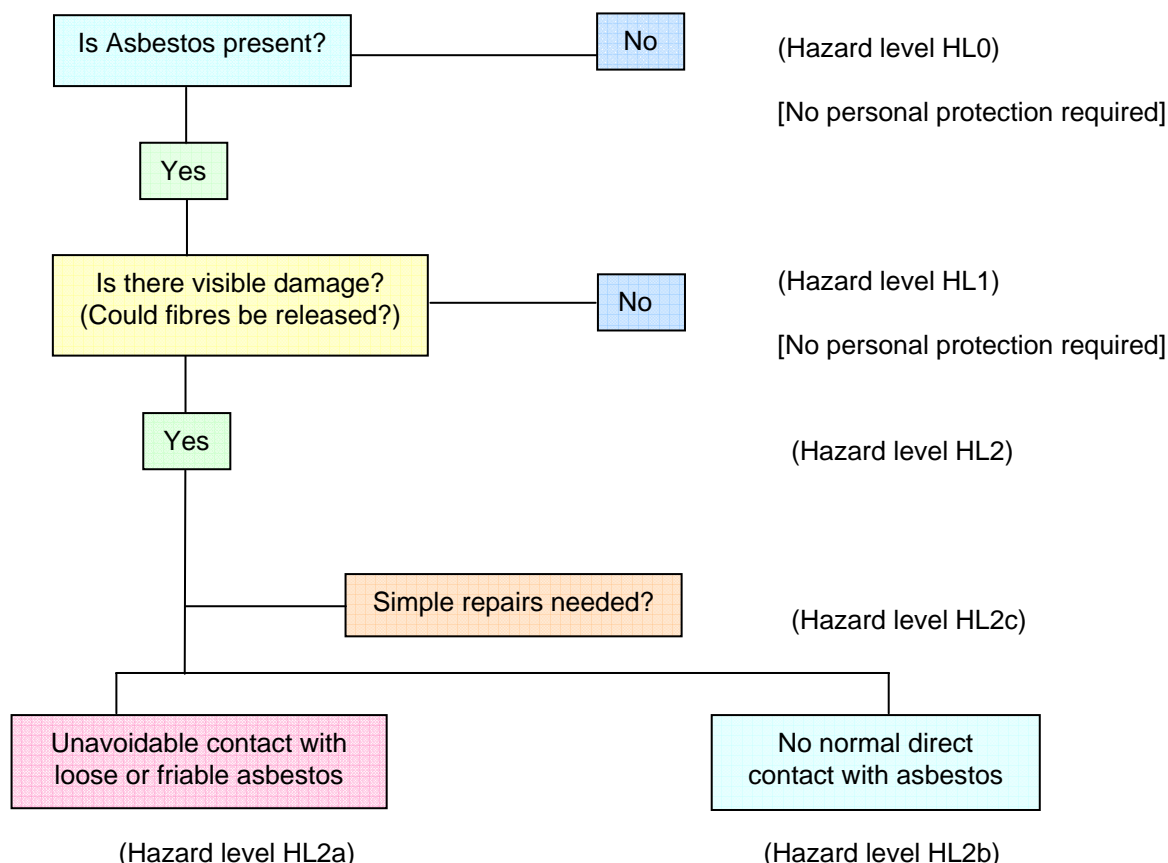
The survey was limited to the building structure and associated building elements. Hazardous materials which may be present in the ground associated with the former occupancies are generally not included in this report.

8.0 Risk Assessment & Hazard Rating

One of the principle activities of the asbestos management program is auditing. This auditing evaluates and records the location and condition of ACM that exist within buildings and or structures (see **Appendix B**).

The implications of the hazard rating are as follows:

- Where there is asbestos present (hazard rating HL1 or HL2), existing conditions should not be allowed to deteriorate;
- Where the hazard rating is HL2, interim measures such as personal protection, control of air movement and restriction of access to the area are introduced. A half-face cartridge respirator is required for personal protection against respirable asbestos fibres. Entry to the area should be restricted. If there is air movement through the area, it should be blocked;
- Where there is unavoidable contact with asbestos in an area (as in areas with a hazard rating of HL2a or where contact is required by the nature of the job), suitable coveralls must be worn as well as respiratory protection. Access to the area should be restricted to approved personnel and appropriate decontamination procedures should be implemented; and
- If work in asbestos areas must be performed, then management must ensure adequate protection of its employees as per the Code of Practice for the Safe Removal of Asbestos.



The above hazard levels refer to the likelihood of encountering respirable asbestos fibres in the atmosphere. They do not take into account any data on the habitation or use of the different areas.

Note: Regardless of the rating given, any work involving direct contact with asbestos based materials requires the wearing of a respirator and protective clothing.

Hazard level descriptions are as follows:

HL0 No asbestos present

HL1 Asbestos present in well sealed condition.

HL2c Asbestos present with slight surface damage. Potential asbestos health hazard. Simple repair required.

HL2b Asbestos present. Extensive surface damage. No normal direct contact with asbestos.

HL2a Asbestos present. Extensive surface damage. Unavoidable contact with loose or friable asbestos.

General access requirements for areas where asbestos is present:

- Personal Protection Required.
- Control entry to area.

Restrict air movement in area.

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9.0 Asbestos Identification Analysis Results

The following samples were collected for asbestos identification analysis during the inspection. The NATA endorsed reports (Amdel Report Nos: 8AA1066F, 8AA1066FX, 8AA1218D, 8AA1218DX, 9AA0117D) detailing the results of the asbestos analysis are attached in **Appendix C: Laboratory Analysis Results**.

Sample No.	Description	Asbestos Detected
1	Building TA01 – typical fibrous cement eaves lining	No Asbestos Detected
2	Building TA01 – typical fibrous cement internal wall lining	No Asbestos Detected
3	Building TA02 – typical fibrous cement eaves lining	No Asbestos Detected
4	Building TA03 – typical fibrous cement eaves lining	No Asbestos Detected
5	Building TA04 – typical fibrous cement verandah ceiling lining	No Asbestos Detected
6	Building TA05 – fibrous cement wall lining to kitchen of residence	Chrysotile, Amosite, Crocidolite
7	Building TA05 – fibrous cement living to roof gable	Chrysotile
8	Building TA34 – typical fibrous cement eaves lining	No Asbestos Detected
9	Building TA08 – fibrous cement strip to roof verge tiles	No Asbestos Detected
10	Building TA08 – typical fibrous cement walling to toilets/showers	No Asbestos Detected
11	Building TA09 – fibrous cement ceiling lining to south side verandah	Chrysotile, Amosite
12	Building TA09 – bituminous backing board to electrical cabinet	Chrysotile
13	Building TA09 – typical grey vinyl floor tile to kitchen	No Asbestos Detected
14	Building TA07 – typical fibrous cement eaves lining	Chrysotile, Amosite
15	Building TA10 – fibrous cement soffit lining to covered walkway	Chrysotile
16	Building TA12 – corrugated fibrous cement sheeting stored within foundation space	Chrysotile, Amosite
17	Building TA12 – plaster insulation to manifold in south east corner boiler room	Amosite
18	Building TA12 – fibrous cement ceiling lining to south east corner boiler room	Chrysotile, Amosite, Crocidolite
19	Building TA23 – typical fibrous cement walling to north side contaminated waste area	No Asbestos Detected

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Sample No.	Description	Asbestos Detected
20	Building TA22 – fibrous cement external walling, south end	No Asbestos Detected
21	Building TA22 – fibrous cement external walling, north end at vehicle dock	Chrysotile
22	Building TA22 – typical fibrous cement eaves lining	No Asbestos Detected
23	Building TA25 – typical fibrous cement eaves lining, eastern portion	No Asbestos Detected
24	Building TA25 – typical fibrous cement eaves lining, eastern portion	No Asbestos Detected
25	Building TA25 - bituminous roofing membrane to western portion	Chrysotile
26	Building TA25 – vermiculite ceiling finish to western portion	No Asbestos Detected
27	Building TA25 – fibrous cement ceiling lining to plantroom, western portion	Chrysotile, Amosite
28	Building TA27 – fibrous cement strip below roof verge tiles	No Asbestos Detected
29	Building TA28 – typical fibrous cement fascia soffit lining	Chrysotile
30	Building TA28 – typical light grey vinyl floor tiles to north side passageways and storerooms	No Asbestos Detected
31	Building TA28 – dark grey vinyl floor tiles to cleaners room off north side passageway	No Asbestos Detected
32	Building TA29 – typical beige vinyl floor tile to south side plantroom	No Asbestos Detected
33	Building TA29 – fibrous cement flue to gas hot water unit in south side plantroom	Chrysotile
34	Building TA32 – typical fibrous cement eaves lining	No Asbestos Detected
35	Building TA16 – fibrous cement ceiling tiles to main south west dock area	No Asbestos Detected
36	Building TA17 – typical corrugated fibrous cement external wall lining	Chrysotile, Amosite
37	Building TA17 – fibrous cement ceiling lining to north end porch	Chrysotile, Amosite
38	Building TA14 – fibrous cement fascia lining to entry porte cochere	No Asbestos Detected
39	Building TA14 – typical fibrous cement eaves lining to south side extension	No Asbestos Detected
40	Building TA14 – typical fibrous cement eaves lining to original portion of building	Chrysotile, Amosite

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Sample No.	Description	Asbestos Detected
41	Building TA11 – fibrous cement ceiling lining to covered parking area, north west corner	No Asbestos Detected
42	Building TA11 – typical fibrous cement walling to toilets to north side of Physiotherapy Room	Chrysotile
43	Building TA11 – typical fibrous cement walling to bathrooms, north side of ward areas	Chrysotile
44	Building TA11 – fibrous cement eaves linings to projecting north side wing	Chrysotile
45	Building TA11 – typical fibrous cement eaves linings to eastern wing	No Asbestos Detected
46	Building TA06 – typical fibrous cement external walling and fascias	Chrysotile, Amosite
47	Building TA06 – fibrous cement walling to bathroom to offices, north east corner of first floor	Chrysotile
48	Building TA22 – fibrous cement walling to staff toilet	No Asbestos Detected
49	Building TA15 – fibrous cement ceiling lining to east side covered way	No Asbestos Detected
50	Building TA15 – fibrous cement external walling, west side	No Asbestos Detected
51	Building TA15 – fibrous cement ceiling lining to ground floor staff toilet, west side	Chrysotile
52	Building TA15 – fibrous cement wall linings to ground floor hot water cupboard, south end	Chrysotile, Amosite
53	Building TA15 – typical fibrous cement wall and ceiling linings to south west access stair	Chrysotile
54	Building TA15 – bituminous sarking to underside of roof tiles in roof space	No Asbestos Detected
55	Building TA15 – plaster residue to pipework in roof space	No Asbestos Detected
56	Building TA15 – fibrous cement external walling to south west access stair	Chrysotile, Amosite
57	Building TA13 – typical flat external fibrous cement walling	No Asbestos Detected
58	Building TA13 – typical profiled external fibrous cement walling	Chrysotile, Amosite
59	Building TA13 – typical fibrous cement wall and ceiling linings to south end toilets	Chrysotile, Amosite
60	Building TA26 – typical putty sealant to sides of window frames	Chrysotile
61	Building TA26 – typical painted vinyl tiles to walls of passageways	Chrysotile

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Sample No.	Description	Asbestos Detected
62	Building TA26 – light grey vinyl floor tiles to second floor utility room	Chrysotile
63	Building TA26 – light grey vinyl floor tiles to lobby to east side amenities, second floor	Chrysotile
64	Building TA26 – typical bituminous membrane to roofs and awnings	Chrysotile
65	Building TA26 – electrical backing board, lower ground floor, east wing	Chrysotile
66	Building TA26 – typical plaster lagging to pipework in foundation space	Amosite
67	Building TA26 – typical woven gasket material to boiler, lower ground floor boiler room	Chrysotile
68	Building TA21 – typical fibrous cement eaves lining, south wing	Chrysotile
69	Building TA21 – fibrous cement ceiling lining to bio-medical engineering workshop	No Asbestos Detected
70	Building TA21 – typical plaster lagging to pipework to south wing	Amosite
71	Building TA21 – fibrous cement ceiling lining to north side clean store, main laundry	No Asbestos Detected
72	Building TA21 – fibrous cement lower walling to main laundry sorting dock, outer portion	No Asbestos Detected
73	Building TA21 – typical fibrous cement walling to main laundry sorting dock, outer portion	No Asbestos Detected
74	Building TA21 – typical fibrous cement wall and ceiling linings to main laundry sorting dock, inner portion	Chrysotile, Amosite
75	Building TA19 – fibrous cement walling to south west extension	No Asbestos Detected
76	Building TA19 – fibrous cement walling to north side enclosed verandah, east end	Chrysotile, Amosite, Crocidolite
77	Building TA19 – typical plaster lagging to calorifier/pipework to east end boiler room	Amosite
78	Building TA19 – profiled fibrous cement external walling to enclosed verandah, north side, west end	Chrysotile
79	Building TA19 – flat fibrous cement sheet external walling, north side, west end	No Asbestos Detected
80	Building TA19 – fibrous cement prefinished wall and ceiling linings to kitchen and laundry, north east corner	Chrysotile

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Sample No.	Description	Asbestos Detected
81	Building TA18 – hardboard weatherboard head linings to doors, north west extension	No Asbestos Detected
82	Building TA18 – fibrous cement weatherboards to children's cubby house, north side yard area	No Asbestos Detected
83	Building TA18 – fibrous cement sheet core to fire doors to south west plantroom.	Chrysotile, Amosite
84	Building TA35 – typical fibrous cement external wall and awning ceiling linings	No asbestos detected
85	Building TA35 – typical fibrous cement external fascia and façade panel	No asbestos detected
86	Building TA20 – fibrous cement external wall and fascia panels to east side Emergency Department	No asbestos detected
87	Building TA20 – core material to fire door to lift motor room	Amosite
88	Building TA20 – bituminous membrane to floor of roof level plant room	Chrysotile
89	Building TA20 – fibrous rope insulation to hot water pipework in roof level plant room	Chrysotile
90	Building TA20 – typical plaster lagging to hot water pipework in roof level plant room	Amosite
91	Building TA20 – typical bituminous backing board to electrical cupboards	Chrysotile
92	Building TA20 – plaster lagging to hot water pipework in ceiling space, lower ground floor	Amosite
93	Building TA20 – typical dust from ceiling space adjacent lagged pipework, lower ground floor	Amosite
94	Building TA20 – typical pipe lagging to main plant room area, lower ground floor	Amosite
95	Building TA20 – typical gasket material to flange joints to pipework, main plant room area	Chrysotile
96	Building TA20 – typical pipe lagging to basement plant room area	Amosite

Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos, Amosite is a fibrous silicate mineral commonly known as brown or grey asbestos. SMF – synthetic mineral fibre is commonly known as glass fibre.

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10.0 Results of Survey



Tamworth Base Hospital

The detailed results of the survey are presented in **Appendix B: Hazardous Materials Register**.

11.0 Recommendations

11.1 Asbestos-Containing Materials

The areas listed below contain ACM that would meet the definition of '*friable asbestos*' as defined in the NSW Occupational Health & Safety Regulation 2001 and in guidance documentation published by the NSW WorkCover Authority. It is recommended that no access to these areas be permitted unless under controlled conditions until the ACM and asbestos contamination is removed.

These ACM will need to be removed by an AS1 Licensed Asbestos Removal Contractor under controlled asbestos conditions.

- Building TA12 – Palliative Care
 - South east corner Boiler Room
 - Roof spaces (presumed)
- Building TA15 – Kitchen/Dining Room
 - Ground floor kitchen areas
 - Foundations spaces
 - Roof level, externally and internally
- Building TA18 – Wards 8, 9 and 10
 - Fire doors
 - External service trenches
- Building TA19 – 1883 Building
 - East end Boiler Room
 - Roof level, externally
 - Main Electrical Room, north west projection
- Building TA20 – Brudelin Wing
 - Older/original fire doors
 - Roof level plantroom
 - Interior of ductwork at heating elements (possible)
 - Ceiling spaces and riser shafts
 - Lower ground floor plant areas
 - Basement level plant areas
- Building TA21 – Workshop/Linen Services
 - Workshop, office and amenities areas
 - Engineering Workshops and Plant Areas
 - Main Boiler Room
- Building TA24 – Dean House
 - Older/original fire doors

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- Foundations spaces (possible)
- Building TA26 – Johnston House
 - Foundation spaces
 - Service risers
 - Upper level ceiling spaces
 - Plantrooms

Flat sheet asbestos containing or presumed asbestos containing materials were found generally throughout the older and original buildings, and site as detailed in the register. Those which were considered in good condition, sealed with paint should be maintained in this condition and asbestos warning labels provided. Where flat sheet asbestos containing or presumed asbestos containing materials were identified to be in fair condition with minor damage as detailed in the Hazardous Material Register, the material should be replaced with non-asbestos materials or sealed where edges are exposed under controlled conditions and asbestos warning labels provided.

All ACM should be labelled to warn of the presence of asbestos in accordance with the *Code of Practice for the Safe Removal of Asbestos 2nd Edition* [NOHSC: 2002 (2005)].

The asbestos cement (AC) sheet materials should be regularly maintained and painted and should not be sawn, drilled or abraded. Any work involving the disturbance or penetration of these materials must be undertaken under controlled conditions.

Broken or damaged sections of AC sheet materials should be removed and replaced with a suitable non-asbestos alternative. Regular monitoring of the condition of AC sheet materials identified in this report and replacement with suitable non-asbestos alternatives if damaged or structural alteration is required.

Any demolition or refurbishment works involving the existing building should allow for the removal and disposal of the ACM identified in this survey. The ACM should be removed prior to any other demolition refurbishment works on each existing building and visual and air clearances provided by competent persons to validate that the ACM have been removed.

Removal of ACM is to be undertaken in accordance with the regulations and requirements of the NSW Government and the NOHSC, these being:

- Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]
- Code of Practice for the Management & Control of Asbestos in Workplaces [NOHSC:2018(2005)]
- Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]

The Time Weighted Average (TWA) airborne concentrations for asbestos shall not exceed the legislated exposure standard of 0.1 fibres per millilitre for Chrysotile, Amosite and Crocidolite. Any mixture of these, or where the composition is unknown - 0.1 fibres per millilitre.

Air monitoring should be carried out during the removal of ACM and a visual clearance provided by a competent person to validate that the ACM has indeed been removed.

Asbestos waste is to be disposed at an approved waste collection facility and dumping dockets provided to record that the asbestos is disposed of in the appropriate manner.

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In addition, and as required under the NSW Occupational Health & Safety Regulation 2001, an asbestos management plan should be initiated to ensure tradespersons undertaking works at the property are made aware of the presence and location of all ACM.

11.2 Synthetic Mineral Fibre (SMF)

SMF is present in numerous locations throughout the majority of the buildings and is utilised primarily as insulation material, including at the underside of metal roofing, to the top of some ceilings, to air conditioning ductwork, to hot water pipework, and to hot water and boiling water units.

The SMF materials identified are in good condition, being generally undamaged, or concealed within foundation and roof spaces or behind outer metal linings and are unlikely to pose a risk while they remain in-situ, undisturbed and in their present location and condition.

Removal of SMF materials should be carried out in accordance with the current requirements of legislation and the Worksafe Australia documentation, these being:

- National Standard for Synthetic Mineral Fibres;
- National Code of Practice for the Safe Use of Synthetic Mineral Fibres; and
- Guidance Note on the Membrane Filter Method for the Estimation of Airborne Synthetic Mineral Fibres.

Worksafe Australia exposure level for airborne synthetic mineral fibre is 0.5 fibre per millilitre of air (fibres/mL) as an 8 hour TWA.

SMF waste is to be disposed at an approved waste collection facility.

11.3 Polychlorinated Biphenyls

During the survey fluorescent light fittings were identified that may contain capacitors that may with PCBs. Light fittings should be inspected as they are removed or replaced and those containing metal capacitors should be treated as containing PCB unless proven otherwise.

The Environmentally Hazardous Chemicals Act 1985 provides a statutory framework enabling the control and regulation of chemicals and chemical wastes. The Act enables the New South Wales Environment Protection Authority (NSW EPA) to declare any chemical substance (including any mixture) to be a chemical waste.

The EPA may control prescribed activities relating to chemicals and declared chemical waste by making a chemical control order in relation to the chemical or declared chemical waste. A chemical control order in relation to materials and wastes containing polychlorinated biphenyl was formulated in 1997 and controls the manufacture, processing, keeping, conveying and disposal of wastes containing more than fifty milligrams per kilogram of PCB.

In addition, the Australian and New Zealand Environment and Conservation Council (ANZECC) have issued a PCB Management Plan as part of the National Strategy for the Management of Scheduled Wastes.

Where PCB containing capacitors are identified and to be removed, the removal of these materials shall be carried out in accordance with the Chemical Control Order In Relation to Materials and Wastes Containing Polychlorinated Biphenyl, 1997, issued by the EPA and the PCB Management Plan issued by ANZECC.

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11.4 Lead Based Paint

Representative paint samples were tested for lead paint and recorded below. All paints of a similar age and/or colour to those containing lead shown in the following table should also be presumed to contain lead.

Location	Test No.	Description	Colour	Result
Building TA01	ST01	Exterior walls	Green	No Lead Detected
Building TA02	ST02	Roof fascias	Cream	No Lead Detected
	ST03	Interior walls	Off white	No Lead Detected
Building TA03	ST04	Fascias, posts	Grey	No Lead Detected
Building TA04	ST05	Fascias, posts	Grey	No Lead Detected
Building TA05	ST06	Interior walls	Cream	No Lead Detected
	ST07	Eaves	Cream	No Lead Detected
	ST08	Roof fascias	Brown	No Lead Detected
Building TA06	ST09	Exterior walls	White	No Lead Detected
	ST10	Interior walls	White	No Lead Detected
Building TA08	ST11	Interior walls	White	No Lead Detected
Building TA09	ST12	Interior walls	White	No Lead Detected
	ST13	Fascias, columns	White	No Lead Detected
Building TA11, Older Eastern Portion	ST14	Fascias	Green	Lead Detected
	ST15	Eaves	White	No Lead Detected
	ST16	Interior walls	Cream	No Lead Detected
Building TA14	ST17	Toilet walls original north east portion	Cream	No Lead Detected
	ST18	Fascias, original north east portion	Green	Lead Detected
Building TA15	ST19	West side passage	Blue	No Lead Detected
	ST20	Kitchen walls, north end	White	Lead Detected
Building TA16	ST21	Exterior columns, framing	Green	No Lead Detected
	ST22	Interior walls	Cream	No Lead Detected
Building TA17	ST23	Exterior walls	Green	Lead Detected
	ST24	Window frames	White	Lead Detected
Building TA19	ST25	Interior walls	Cream	Lead Detected
Building TA20, Original Portion	ST26	Plant, equipment	Green	Lead Detected
	ST27	Ductwork	Yellow	Lead Detected
	ST28	Walls (basement)	White	No Lead Detected

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Location	Test No.	Description	Colour	Result
	ST29	Ductwork (basement)	Yellow	No Lead Detected
Building TA22	ST30	Exterior walls	Cream	No Lead Detected
	ST31	Exterior weatherboards	Brown	Lead Detected
Building TA25	ST32	Exterior walls, east portion	Cream	No Lead Detected
Building TA26	ST33	Interior walls	Cream	No Lead Detected
Building TA27	ST34	Eaves	White	No Lead Detected
	ST35	Interior walls	White	No Lead Detected

The results of the representative paint sample testing indicate that lead based paints are limited to the older or original buildings and structures at the site.

Observations during the inspection and the results of the testing also indicate that it is likely the majority of the lead based paints have been encapsulated or possibly removed during past refurbishment works on the older buildings. Lead based paint is most likely present to exterior timberwork and to the walls of areas such a kitchens, laundries, bathrooms, utility rooms, cleaner's rooms, toilets and the like.

More recent paintwork to both the exterior and exterior of the buildings, associated with past refurbishment works, is either water based acrylic or epoxy type paint, each of which is free of lead.

With the exception of some minor flaking to fascias, and timber window and door frames, the majority of the lead based paints identified are in good condition and are unlikely to pose a risk to the buildings occupants.

No lead based paints are likely to be present on buildings constructed post 1980.

According to current standards and guidelines, where the percentage lead content of paint by weight exceeds 1.0% (10 mg/kg), the paint should be established or removed by either chemical means or in a manner, which does not liberate dust to the atmosphere. The waste material should be also tested for total lead and lead leachate to determine the appropriate method for disposal. The paint is not to be removed by dry sanding or by electrical means.

The current standards and guidelines pertaining to lead paint management, removal, stabilisation and disposal include the following:

- WorkSafe Australia exposure level for airborne lead is 0.15 mg/m³ as an 8 hour TWA.
- Australian Standard AS4361.1 – 1995, Guide to Lead Paint Management, Part 1: Industrial.
- Australian Standard AS4361.2 – 1998, Guide to Lead Paint Management, Part 2: Residential and Commercial Buildings.
- NSW EPA Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes.
- "Managing Lead Contamination in Home Maintenance, Renovation & Demolition Practices – A Guide for Council's" May 2003, published by NSW EPA & Planning NSW.

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It should be noted that during any lead paint removal and prior to disposal of waste materials sampling should be undertaken to assess the appropriate waste disposal criteria. Results of the sample analysis should be compared against the *NSW EPA Environmental Guidelines: Assessment, Classification and Management of Liquid & Non-Liquid Wastes* to ensure correct disposal procedures are followed.

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12.0 Limitations

The survey we conducted for you was undertaken by visual inspection and through non-destructive means of those areas of the building (being the building structure and associated building elements) that were accessible to us at the time of our inspection. This means, therefore, that we cannot guarantee that each and every hazardous material that exists within the building has been located, identified and documented by us in this report.

ENSR prepared this report for the purpose set out in **Section 1** and because this report has been prepared for that purpose, it is not appropriate for this report to be used for any other purpose, without prior written consent. It is also not appropriate for this report to be released to any other party (either in whole or in part) without ENSR's prior written consent. Should you wish to use this report for a purpose other than the purpose for which it was prepared, or to release this report (either in whole or in part) to any other party, please contact ENSR so that we may discuss your wishes in further detail with you.

Please note, however, that in the event that this report is used for a purpose for which it was not prepared, and you have not obtained ENSR's prior written consent to use the report for that purpose, then neither ENSR, nor any member or employee of ENSR, accept responsibility or liability for the use of this report for that purpose.

ENSR have relied upon information identified in this report and have assumed this information to be both adequate and accurate for the purpose of preparing this report for you. ENSR have not, therefore, verified or audited any of the information you, or others, have supplied to us. If there is further information that becomes available, ENSR may need to amend the information contained in this report. ENSR reserves their right to do so should this become necessary.

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

Finally, ENSR does not make any other warranty, expressed or implied, as to the professional advice contained in this report.

Plates

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Plate P1: Building TA01 - CADE Unit



Plate P2: Building TA01 - typical eaves, porch ceiling and wall linings which do not contain asbestos.



Plate P3: Building TA01 - hot water unit to Cleaners Linen/Store which is insulated with SMF.



Plate P4: Building TA02 - Banksia Mental Health Unit



Plate P5: Building TA03 - Diabetic Centre



Plate P6: Building TA03 - typical eaves and porch ceiling linings which do not contain asbestos

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Plate P7: Building TA07 - Diabetic Selling Centre



Plate P8: Building TA05 - Diabetes Accommodation/Dietitian Offices



Plate P9: Building TA05 - asbestos cement linings to roof gables, eaves and ceiling of carport



Plate P10: Building TA05 - asbestos cement wall linings behind wall tiles and cupboards to kitchen



Plate P11: Building TA06 - Koolkuna Building



Plate P12: Building TA06 - typical asbestos cement wall linings and eaves gutters

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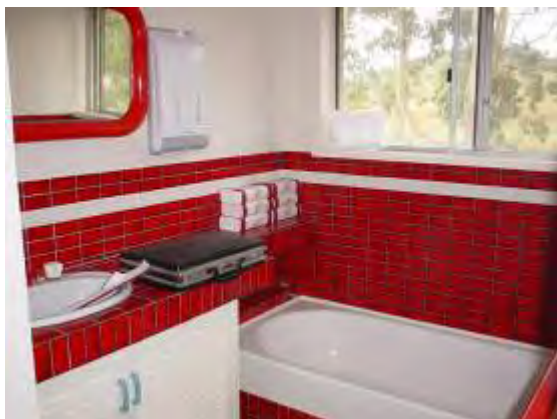


Plate P13: Building TA06 - asbestos cement wall linings to first floor bathroom to residence/office



Plate P14: Building TA07 - Physiotherapy



Plate P15: Building TA07 - typical asbestos cement linings to eaves and gable overhangs



Plate P16: Building TA07 - boiler and pipework to south west boiler room which are insulated with SMF. Note: asbestos gaskets to flanged joints presumed.



Plate P17: Building TA07 - typical pipework to foundations which is insulated with SMF



Plate P18: Building TA08 - Rotary Hostel



Plate P19: Building TA09 - Rotary Lodge



Plate P20: Building TA09 - asbestos cement ceiling linings to south side verandah



Plate P21: Building TA09 - asbestos containing backing board to north side electrical cabinet



Plate P22: Building TA09 - vinyl floor tiles to kitchen which do not contain asbestos



Plate P23: Building TA10 - Ambulance Workshop



Plate P24: Building TA10 - asbestos cement fascia soffit linings to covered way

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Plate P25: Building TA11 - Ward 11



Plate P26: Building TA11 - fibrous cement ceiling linings to large north west parking area which do not contain asbestos



Plate P27: Building TA11 - boiler to basement level boiler room which is insulated with SMF



Plate P28: Building TA11 - hot water units to basement level boiler room which are insulated with SMF



Plate P29: Building TA11 - asbestos cement eaves linings to projecting north side wing

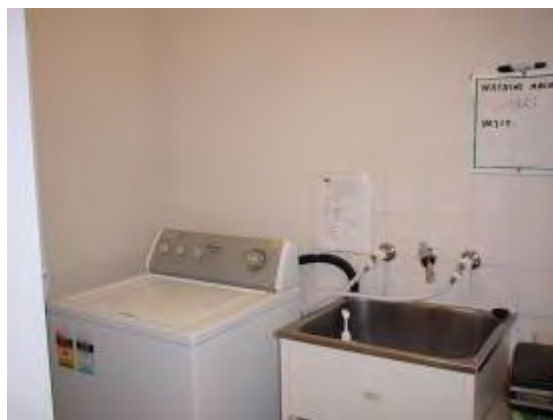


Plate P30: Building TA11 - typical asbestos cement wall linings to utility rooms to projecting north side wing

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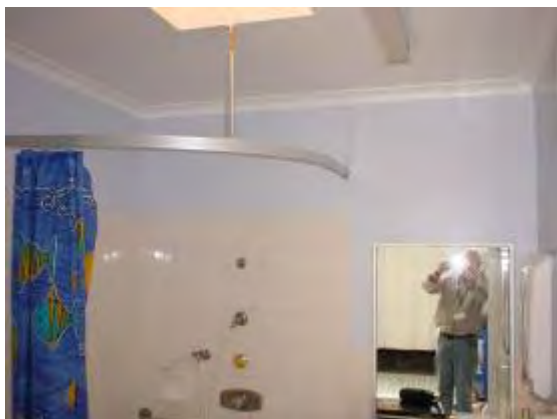


Plate P31: Building TA11 - typical asbestos cement wall linings to toilets and bathrooms to east end wards



Plate P32: Building TA12 - Palliative Care



Plate P33: Building TA12 - stored asbestos cement sheeting in foundation space



Plate P34: Building TA12 - asbestos cement ceiling linings to south east boiler room, including damaged panel

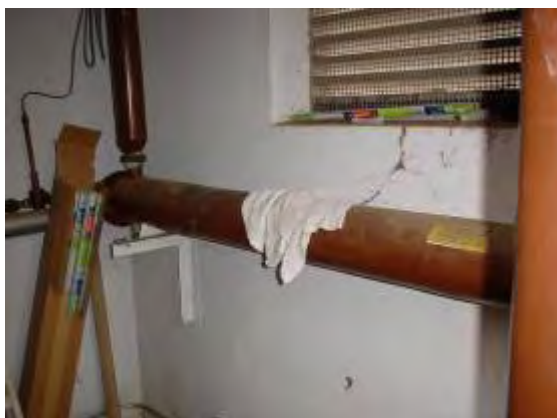


Plate P35: Building TA12 - manifold to south east boiler room which is insulated with asbestos lagging material



Plate P36: Building TA12 - calorifier to south east boiler room which is insulated with either asbestos or SMF

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Plate P37: Building TA13 - Renal Unit



Plate P38: Building TA13 - profiled asbestos cement wall linings at north west corner and flat wall linings which do not contain asbestos



Plate P39: Building TA13 - asbestos cement wall linings to south side recess



Plate P40: Building TA13 - asbestos cement eaves linings to south side of west wing



Plate P41: Building TA13 - asbestos cement wall linings to east side extension



Plate P42: Building TA13 - asbestos cement wall linings to south end toilet

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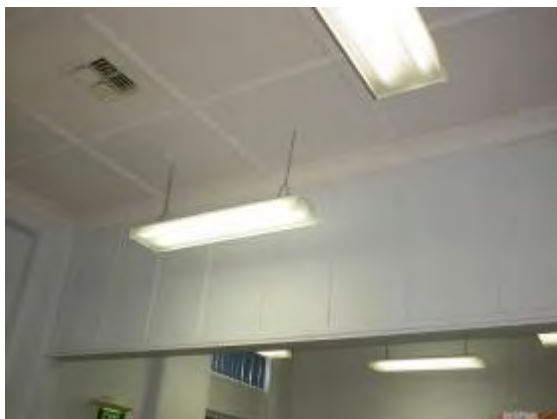


Plate P43: Building TA13 - asbestos cement ceiling and head linings to east side offices

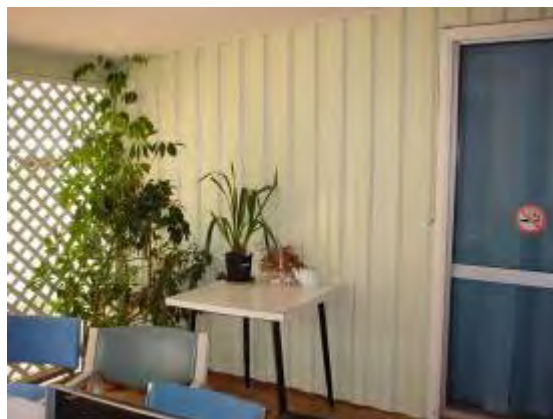


Plate P44: Building TA13 - asbestos cement wall linings to east side "Open Covered Area"



Plate P45: Building TA14 - Clinics Building



Plate P46: Building TA14 - fibrous cement fascia and ceiling linings to entry porte cochere which do not contain asbestos



Plate P47: Building TA15 - Kitchen/Dining Room



Plate P48: Building TA15 - ceiling linings to east side covered way which do not contain asbestos

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Plate P49: Building TA15 - flat fibrous cement walling (pink and green) to west side which does not contain asbestos



Plate P50: Building TA15 - asbestos cement walling to south west access stair



Plate P51: Building TA15 - hot water pipework along east side wall which is insulated with SMF



Plate P52: Building TA15 - asbestos containing electrical backing board to east side Compressor Enclosure



Plate P53: Building TA15 - asbestos cement internal wall and ceiling linings to south west access stair



Plate P54: Building TA15 - asbestos cement ceiling linings to west side passage

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Plate P55: Building TA15 - boiling water units to main kitchen area which are insulated with SMF



Plate P56: Building TA15 - asbestos lagged pipework to main kitchen area



Plate P57: Building TA15 - hot water unit to south end hot water cupboard which is insulated with SMF



Plate P58: Building TA15 - redundant PCB containing fluorescent light capacitors to floor of south end hot water cupboard



Plate P59: Building TA15- hot water pipes in roof space which are insulated with SMF



Plate P60: Building TA15 - air conditioning ductwork in roof space which is insulated with SMF and residue to pipework which does not contain asbestos

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Plate P61: Building TA15 - sarking to underside of roof tiles which does not contain asbestos



Plate P62: Building TA15 - lift motor room in roof space which is likely to contain asbestos backing boards/materials



Plate P63: Building TA15 - asbestos rope insulation to portions of pipework in foundations spaces



Plate P64: Building TA16 - Area Stores Building



Plate P65: Building TA16 - ceiling linings to main south side dock which do not contain asbestos



Plate P66: Building TA17 - Domestic Services

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Plate P67: Building TA17 - asbestos cement wall linings to east side of building



Plate P68: Building TA17 - damaged asbestos cement wall linings at south east corner



Plate P69: Building TA18 - Wards 8, 9 and 10



Plate P70: Building TA18 - hardboard head linings to north side doors which do not contain asbestos



Plate P71: Building TA18 - fibrous cement weatherboards to cubby house which do not contain asbestos

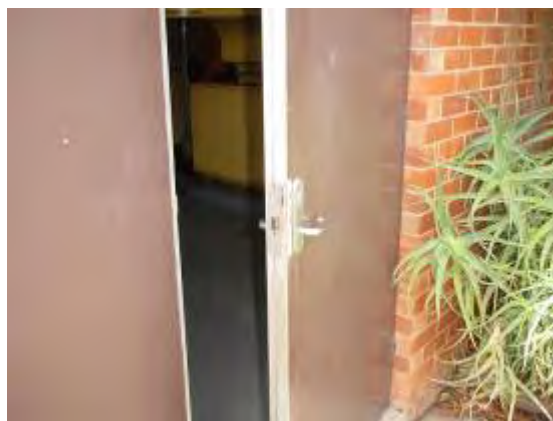


Plate P72: Building TA18 - fire doors to west end plantroom which contain asbestos core material

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Plate P73: Building TA18 - boilers to south side boiler room which are insulated with SMF



Plate P74: Building TA18 - asbestos containing electrical board to south side boiler room



Plate P75: Building TA19 - 1883 Building



Plate P76: Building TA19 - asbestos cement shingle tiles to south east projecting wing



Plate P77: Building TA19 - dislodged asbestos cement shingle tiles to south east project wing



Plate P78: Building TA19 - asbestos cement upper and lower walling to verandah, south side, west end

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Plate P79: Building TA19 - asbestos cement walling to verandah, north side east end



Plate P80: Building TA19 - boiler and pipework to east end boiler room which are insulated with asbestos lagging



Plate P81: Building TA19 - calorifier and pipework to east end boiler room which are insulated with asbestos lagging



Plate P82: Building TA19 - asbestos cement wall and ceiling linings to north east kitchen/lunchroom



Plate P83: Building TA19 - asbestos containing backing boards to main electrical room



Plate P84: Building TA20 - Brudelin Wing

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Plate P85: Building TA20 - lift motor to main roof level lift motor room which is likely to contain asbestos brake shoes



Plate P86: Building TA20 - asbestos containing membrane to floor of main roof level plantroom



Plate P87: Building TA20 - hot water tanks to main roof level plantroom which are insulated with either asbestos or SMF



Plate P88: Building TA20 - asbestos rope insulation to pipework at rear of hot water tanks



Plate P89: Building TA20 - typical asbestos lagged pipework to main roof level plantroom



Plate P90: Building TA20 - fibreglass cooling tower to main roof level plantroom which contain SMF

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Plate P91: Building TA20 - asbestos containing backing board to typical electrical cupboard



Plate P92: Building TA20 - typical boiling water unit which is insulated with SMF

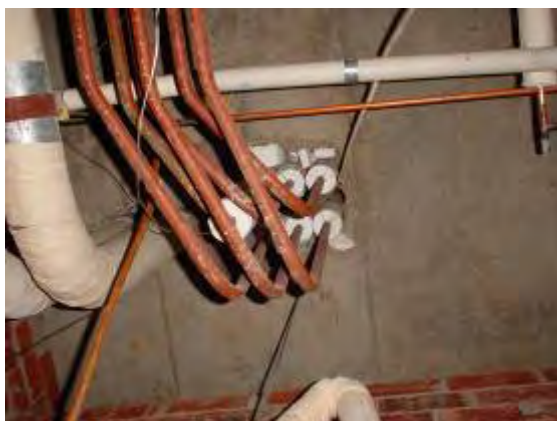


Plate P93: Building TA20 - typical asbestos lagged pipework to ceiling spaces



Plate P94: Building TA20 - asbestos lagged pipework to ceiling space and air conditioning ductwork which is insulated with SMF



Plate P95: Building TA20 - asbestos rope insulation to pipe in east side entry passage, lower ground floor



Plate P96: Building TA20 - typical asbestos lagged pipework and manifold to lower ground floor plant area

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Plate P97: Building TA20 - typical asbestos lagged pipework to lower ground floor plant area

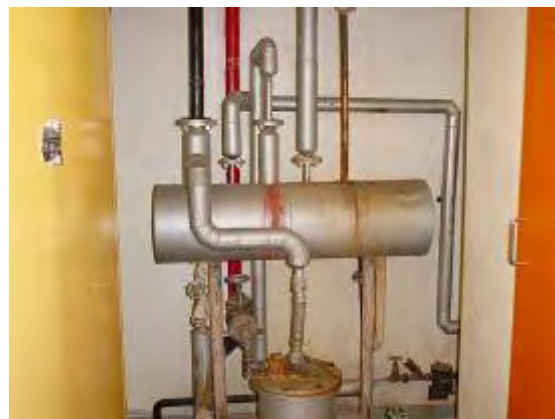


Plate P98: Building TA20 - typical asbestos lagged pipework and manifold to basement plant area



Plate P99: Building TA20 - damaged/exposed asbestos pipe lagging in basement plant area



Plate P100: Building TA20 - Brudelin Wing, Emergency Department Extension



Plate P101: Building TA20 - air conditioning ductwork to foundation space which is insulated with SMF



Plate P102: Building TA21 - Workshop/Linen Services

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Plate P103: Building TA21 – asbestos cement fascia soffit linings to southern workshop wing



Plate P104: Building TA21 - damaged asbestos cement ceiling lining to breezeway adjacent workshop offices



Plate P105: Building TA21 - external asbestos lagged pipework to breezeway, south wing. Note: asbestos cement ceiling linings

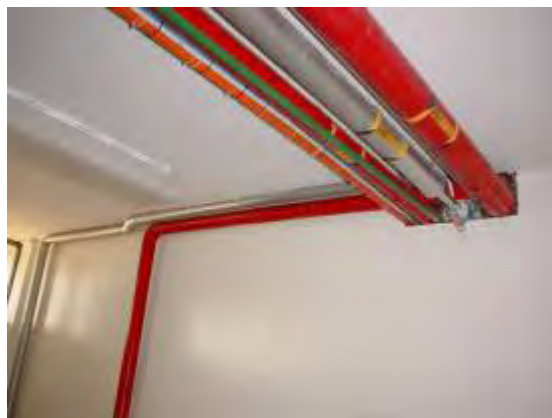


Plate P106: Building TA21 - typical asbestos lagged pipework to workshops, offices and amenities



Plate P107: Building TA21 - boiling water unit to staff lunchroom which is insulated with SMF



Plate P108: Building TA21 - asbestos lagged manifold to west end storeroom, Engineering Workshop area

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Plate P109: Building TA21 - asbestos containing electrical boards to Engineering Workshop area



Plate P110: Building TA21 - typical asbestos lagged pipework to main Boiler Room



Plate P111: Building TA21 - asbestos lagged manifold and pipework to main Boiler Room



Plate P112: Building TA21 - typical boiler which is insulated with SMF. Note: brick support walls contain asbestos rope caulking



Plate P113: Building TA21 - ceiling tiles to Clean Store which do not contain asbestos



Plate P114: Building TA21 - fibrous cement walling to Sorting Dock (outer portion) which does not contain asbestos

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Plate P115: Building TA22 - Mortuary



Plate P116: Building TA22 - fibrous cement wall and eaves linings which do not contain asbestos



Plate P117: Building TA22 - asbestos cement walling to vehicle dock. Note: ceiling does not contain asbestos



Plate P118: Building TA23 - Car Pool



Plate P119: Building TA23 - fibrous cement wall and ceiling linings to contaminated waste dock which do not contain asbestos



Plate P120: Building TA24 - Dean House

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Plate P121: Building TA24 - exposed edges to asbestos cement ceiling linings to north side verandah at vent



Plate P122: Building TA25 - Blood Bank



Plate P123: Building TA25 - asbestos containing bituminous membrane to roof of original western portion of building

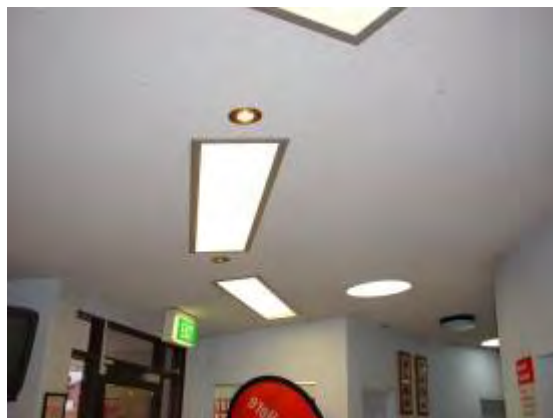


Plate P124: Building TA25 - vermiculite finish to ceilings of western portion which does not contain asbestos



Plate P125: Building TA25 - fibrous cement walling and eaves to eastern portion which do not contain asbestos



Plate P126: Building TA26 - Johnston House

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Plate P127: Building TA26 - typical asbestos cement window spandrel panel. Note: putty to window frames also contains asbestos



Plate P128: Building TA26 - typical bituminous roofing membrane to concrete awning which contains asbestos



Plate P129: Building TA26 - typical asbestos cement ceiling lining to bathrooms



Plate P130: Building TA26 - asbestos containing vinyl floor tiles to second floor utility room



Plate P131: Building TA26 - electrical cabinet which is likely to contain asbestos backing boards or mounting strips



Plate P132: Building TA26 - typical asbestos containing electrical backing boards

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Plate P133: Building TA26 - asbestos lagged pipework in foundation space



Plate P134: Building TA26 - asbestos lagged pipework in ceiling space



Plate P135: Building TA26 - asbestos lagged pipework to plant/boiler room



Plate P136: Building TA26 - asbestos lagged calorifier to plant/boiler room



Plate P137: Building TA26 - boiler which is most likely insulated with SFM and which contains asbestos gaskets



Plate P138: Building TA27 - Dental Clinic

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Plate P139: Building TA27 - fibrous cement eaves and porch ceiling linings which do not contain asbestos



Plate P140: Building TA28 - Pathology New England



Plate P141: Building TA28 - typical asbestos cement fascia soffit linings



Plate P142: Building TA28 - typical vinyl floor tiles which do not contain asbestos



Plate P143: Building TA29 - Pathology Plantroom



Plate P144: Building TA29 - typical vinyl floor tiles which do not contain asbestos

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Plate P145: Building TA29 - asbestos containing backing boards to main electrical control cabinets



Plate P146: Building TA29 - asbestos cement flue to gas hot water unit. Note: asbestos cement ceiling linings



Plate P147: Building TA29 - asbestos cement flue to boiler



Plate P148: Building TA30 - Flammable Liquid Store



Plate P149: Building TA30 - roof vent which is possibly finished with asbestos "Galbestos" paint



Plate P150: Building TA31 - Generator Shed



Plate P151: Building TA32 - Storage Shed



Plate P152: Building TA33 - Aboriginal Shade Shelter



Plate P153: Building TA34 - Staff Accommodation



Plate P154: Building TA34 - fibrous cement ceiling linings to south side verandah which do not contain asbestos



Plate P155: Building TA35 - UDRH



Plate P156: Building TA35 - fibrous cement walling at north end which does not contain asbestos

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Plate P157: Building TA35 - fibrous cement ceiling linings to west side awning which do not contain asbestos

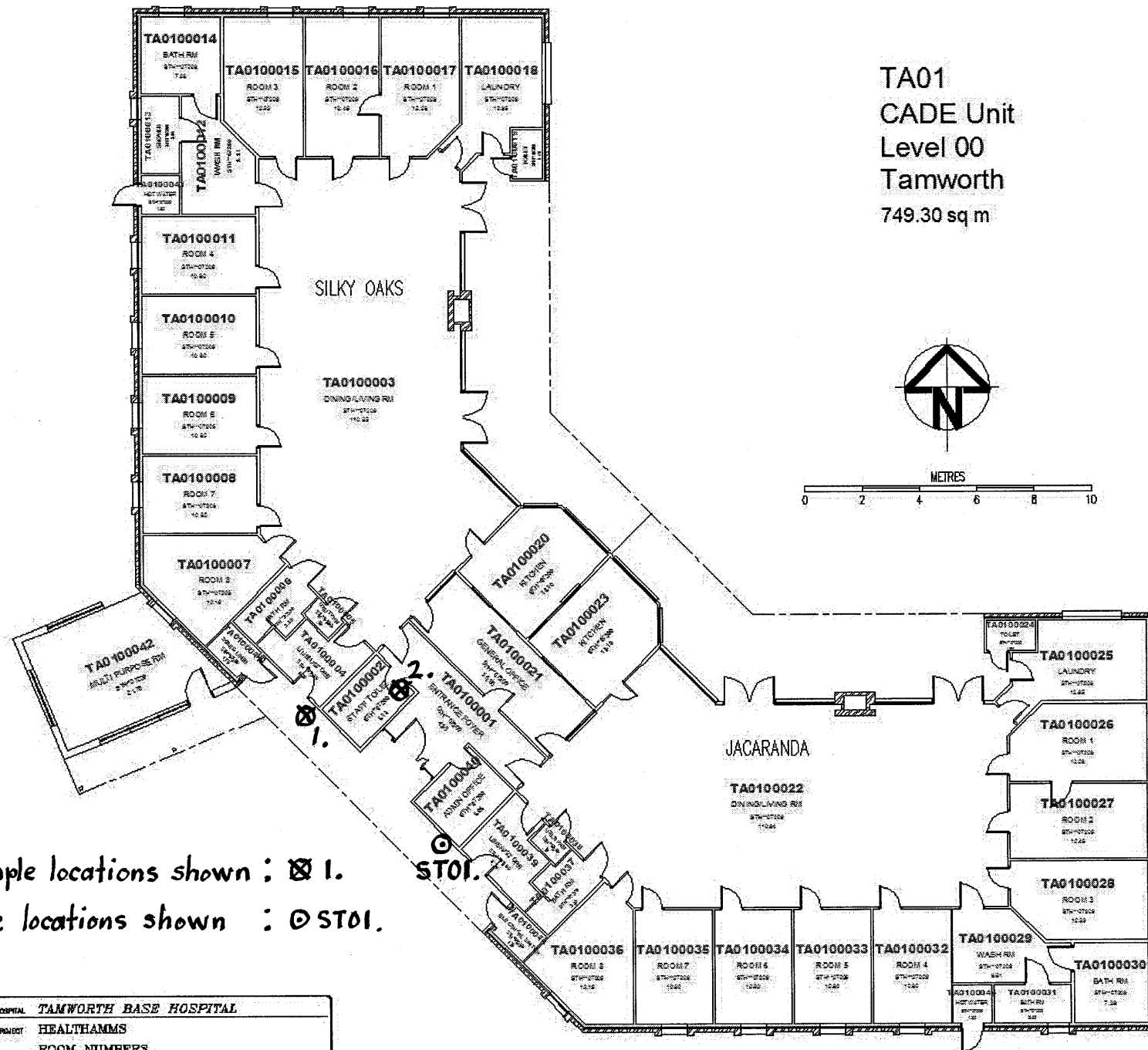
Use or disclosure of data contained on this sheet is subject to the restriction on the distribution page of this document.

Appendix A

Site Plans

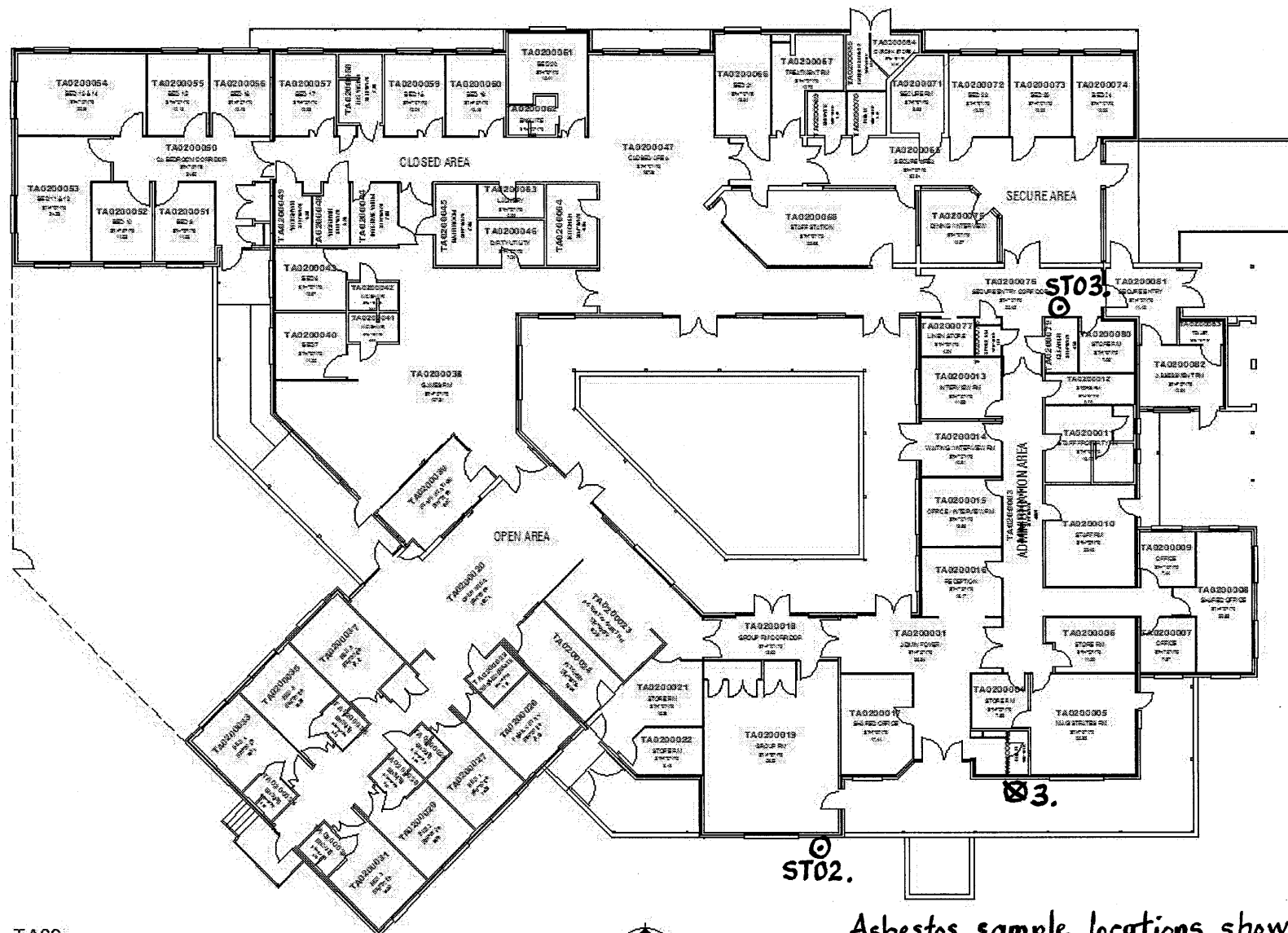
Use or disclosure of data contained on this sheet is subject to the restriction on the distribution page of this document.

TA01
CADE Unit
Level 00
Tamworth
749.30 sq m



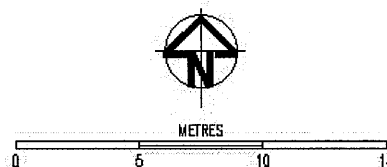
Asbestos sample locations shown : X 1.
Paint sample locations shown : @ ST01.

HOSPITAL	TAMWORTH BASE HOSPITAL
PROJECT	HEALTHAMMS
ROOM NUMBERS	
SHEET	CADE UNIT
NEW ENGLAND HEALTH SERVICE	DATE 8/9/04
SCALE 1:100	DATE 8/9/04
J218_TA01_00.dwg	



TA02
Banksia Mental Health Unit
Level 00
Tamworth
1562.00 sq m

Asbestos sample locations shown : 3.
Paint sample locations shown : ST02.

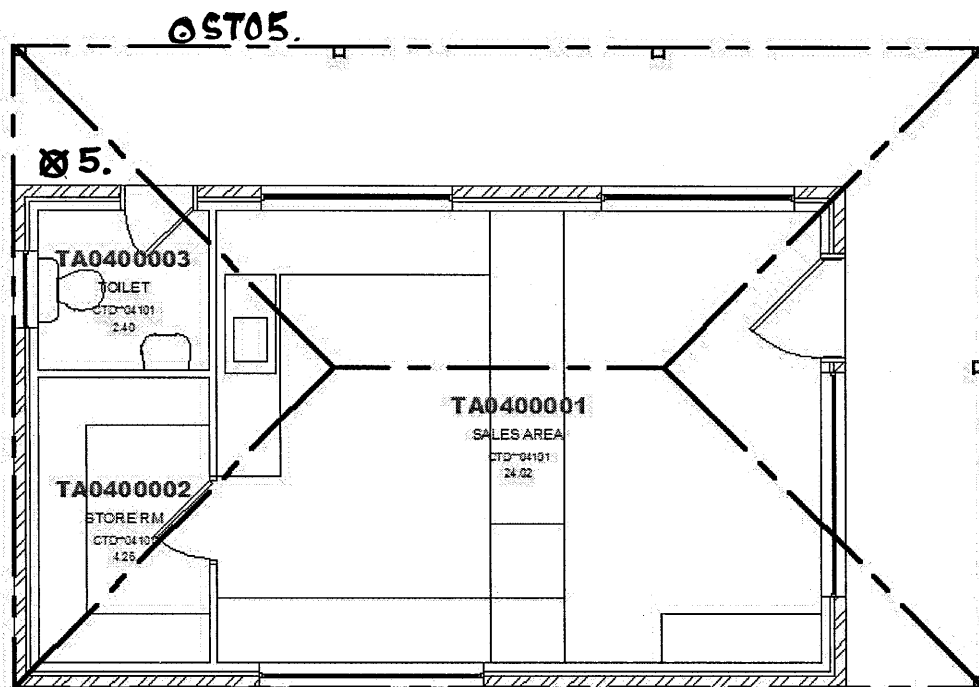


DATE	11	HOSPITAL	TAMWORTH BASE HOSPITAL
APPROVED	15	PROJECT	HEALTHAMMS:-
VERIFIED	15	ROOM NUMBERS	
SHEET	1	SHEET	BANKSIA MENTAL HEALTH UNIT
NEW ENGLAND HEALTH SERVICE		SCALE	1:150
DRAWN J. J. J.		DATE	8/9/04
J218_TAO2_DD			

ST04: ①

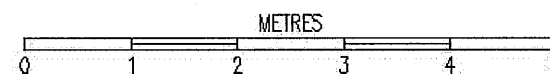
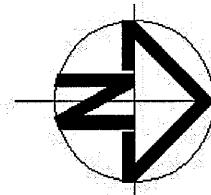


PATIENT		TANWORTH BASE HOSPITAL	
PRELIMINARY		HEALTH/AMHS:-	
ROOM NUMBERS		DIABETIC CENTRE	
SHEET 1 OF 1		SHEET 1 OF 1	
ADDITIONAL		DATE 6/8/04	
VOLUME		SCALE 1:50	
DRAWN J. P. M. B. M.		DATE 6/8/04	
NEW		DATE 6/8/04	
HEALTH		DATE 6/8/04	
REMARKS		DATE 6/8/04	

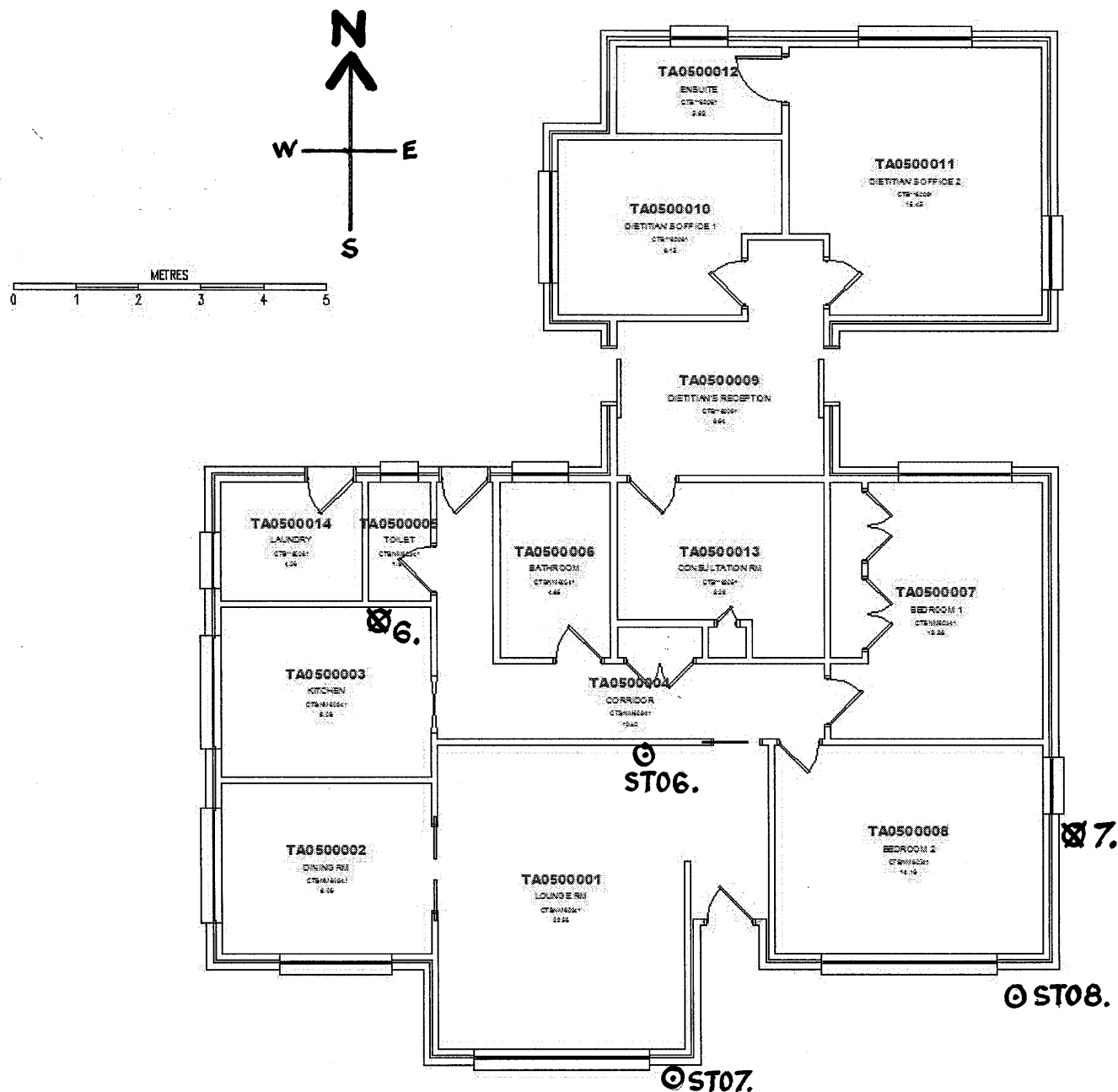


TA04
Diabetic Selling Centre
Level 00
Tamworth
37.00 sq m

Asbestos sample locations shown : Ø 5.
Paint sample locations shown : ST05.



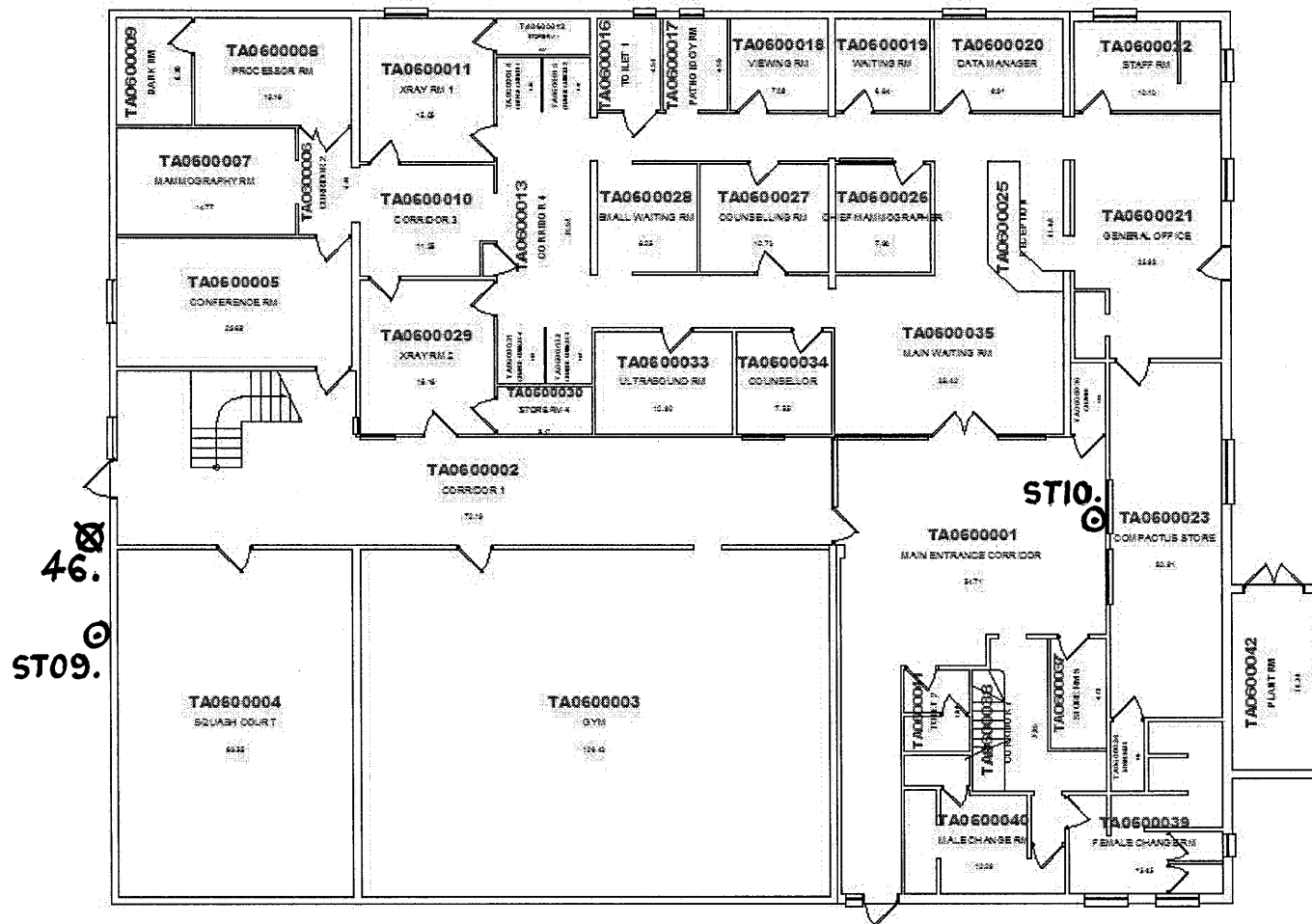
AMENDMENTS	DATE	1	HOSPITAL	TAMWORTH BASE HOSPITAL			
	VERIFIED	SHEET 1 OF 1	PROJECT	HEALTHAMMS:-			
			ROOM NUMBERS				
			SHEET	DIABETIC SELLING CENTRE			
NEW ENGLAND HEALTH SERVICE		DRAWN	J.P. Smith	SCALE	1:50	DATE	6/9/04
							J216_TA04_00.dwg



TA05
Diabetes Accommodation / Dietitian
Level 00
Tamworth
161.00 sq m

Asbestos sample locations shown : **6.**
Paint sample locations shown : **ST06.**

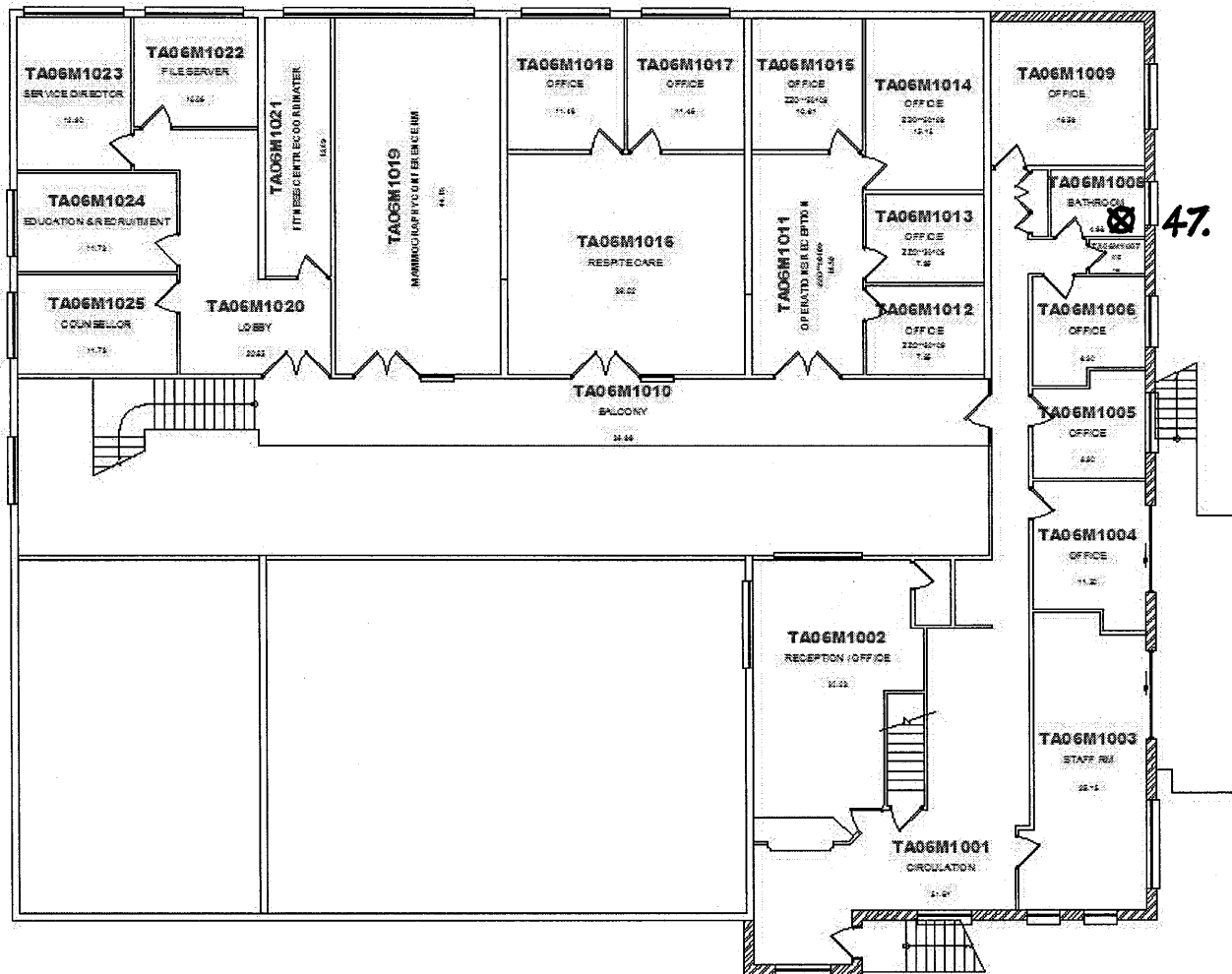
REVISIONS DATE DRAWN CHECKED VERIFIED SHEET 1 OF 1	PROJECT: TAMWORTH BASE HOSPITAL		
	PROJECT: HEALTHAMMS		
	ROOM NUMBERS: DIABETES ACCOMMODATION / DIETITIAN		
	SHEET: DIABETES ACCOMMODATION / DIETITIAN		
NEW ISLAND HEALTH SERVICE		DRAWN: J. Longman	SCALE: 1:50
		DATE: 8/9/04	FILE: J219_TA05_DD.dwg



TA06
Koolkuna Building
Level 00
Tamworth
791.00 sq m

Asbestos sample locations shown : X 46.
Paint sample locations shown : O ST09.

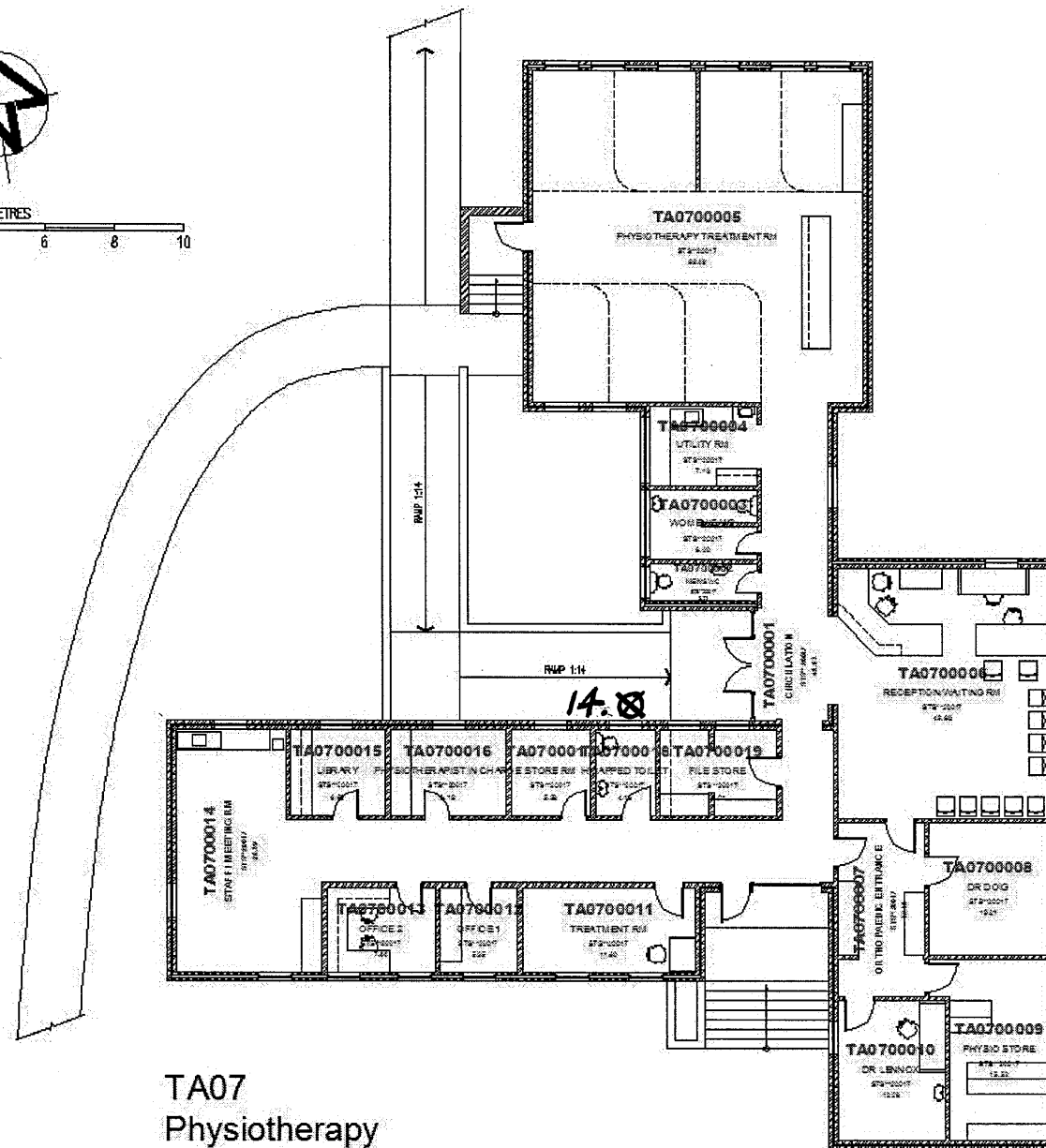
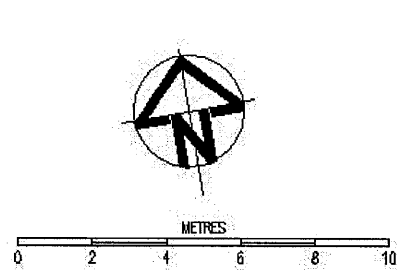
HOSPITAL		TAMWORTH BASE HOSPITAL	
PROJECT		HEALTHAMMS:-	
ROOM		ROOM NUMBERS	
SHEET		KOOLKUNA BUILDING - GROUND FLOOR	
DRAWN		SCALE	DATE
J. J. J.		1:100	20/9/04
NEW ZEALAND HEALTH SERVICE		J216_TA06_DD.dwg	



TA06
Koolkuna Building
Level M1
Tamworth
782.00 sq m

Asbestos sample locations shown : 47.

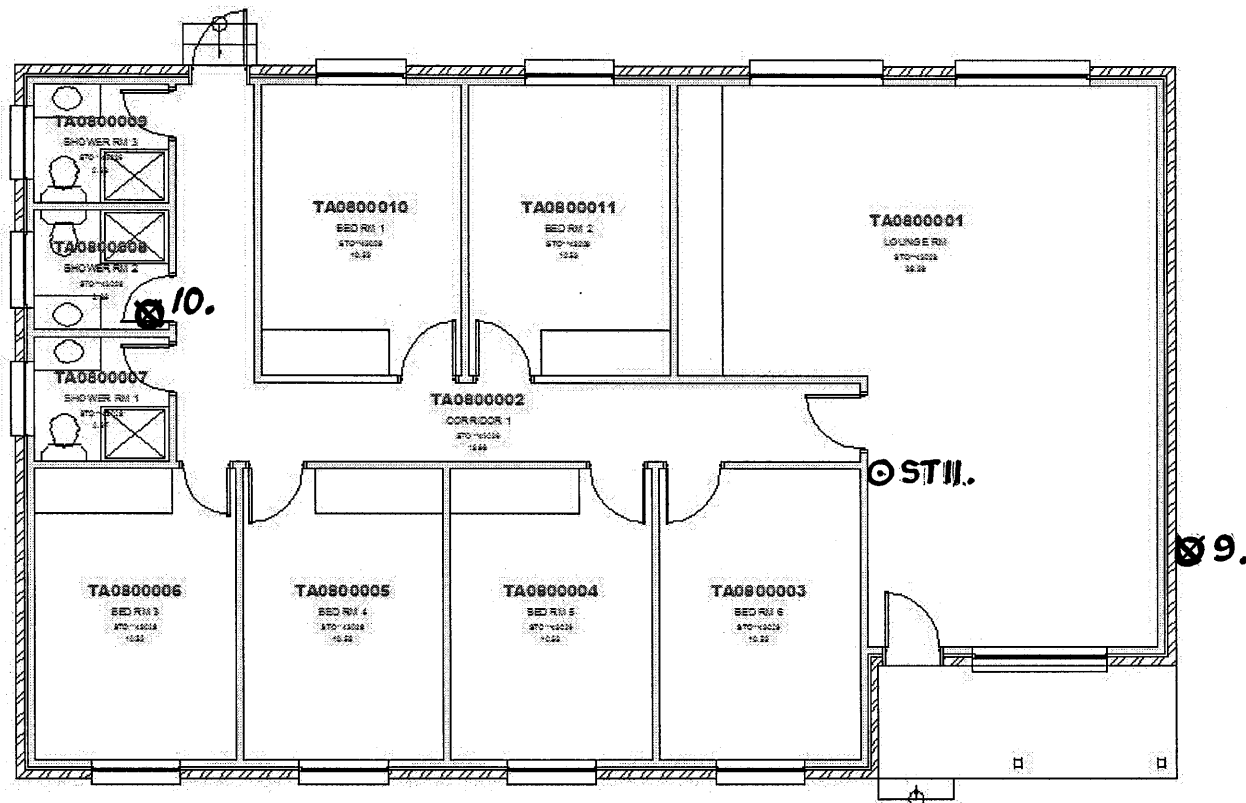
DATE	1	HOSPITAL	TAMWORTH BASE HOSPITAL	
PROJECT	1	PROJECT	HEALTHAMMS	
ROOM	1	ROOM	ROOM NUMBERS	
SHEET	1	SHEET	Koolkuna Building - MEZZANINE LEVEL	
NEW	1	NEW	1	1
HEALTH	1	HEALTH	1	1
SPACE	1	SPACE	1	1
SCALE	1:100	DATE	19/8/04	
J210_TA06_M1.dwg				



TA07
Physiotherapy
Level 00
Tamworth
383.72 sq m

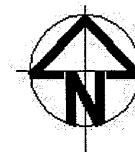
Asbestos sample locations shown : X 14.

SHEET 1 OF 1	HOSPITAL	TAMWORTH BASE HOSPITAL		
	PROJECT	HEALTHAMMS		
	ROOM NUMBERS			
	DEPARTMENT	PHYSIOTHERAPY DEPARTMENT		
	NEW IRELAND HEALTH SERVICES	DRAWN J. Long	SCALE 1:100	DATE 20/9/04
J216_TA07_DD.dwg				

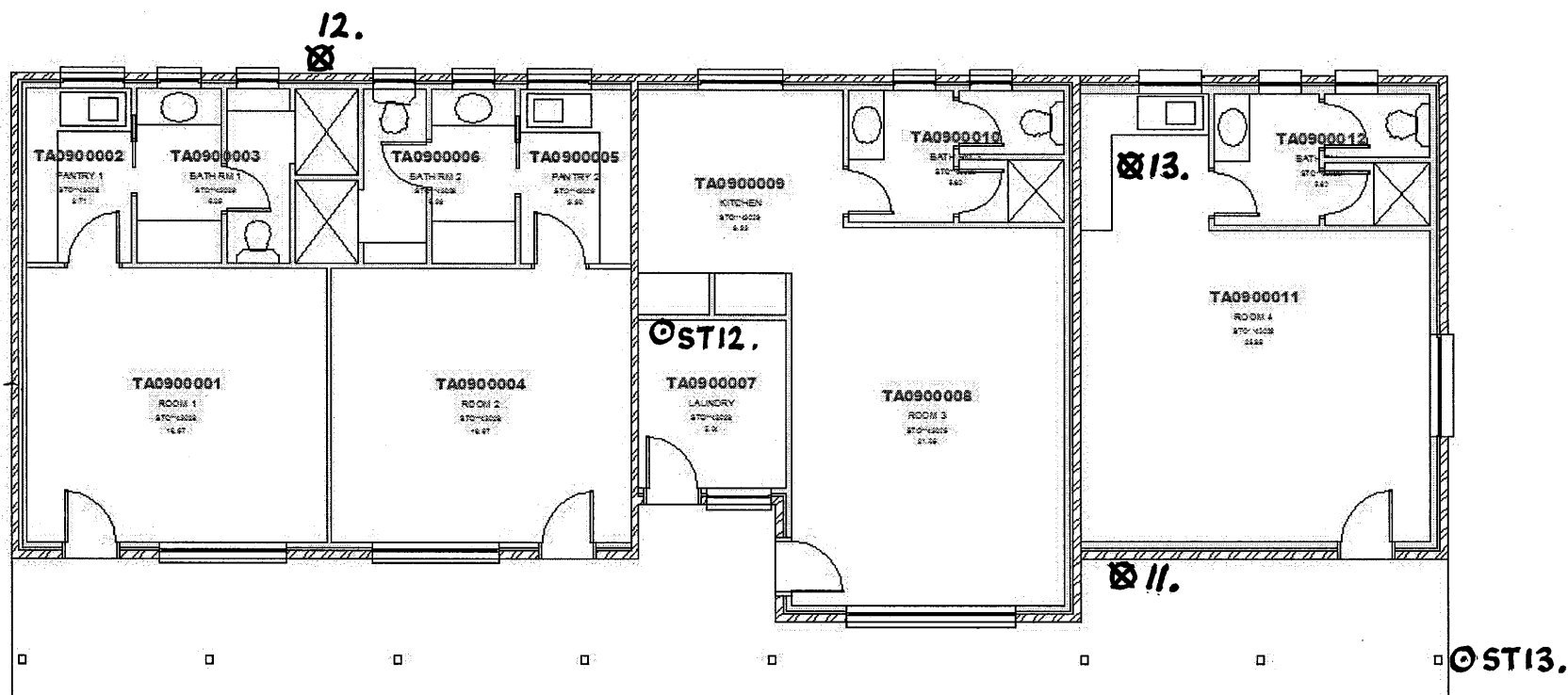


TA08
Rotary Hostel
Level 00
Tamworth
143.00 sq m

Asbestos sample locations shown : X 9.
Paint sample locations shown : O STII.



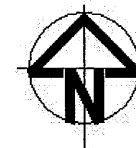
DRAWN CHECKED VERIFIED SHEET 1	HOSPITAL	TAMWORTH BASE HOSPITAL		
	PROJECT	HEALTHAMMS:-		
	ROOM NUMBERS			
	SHEET	ROTARY HOSTEL		
NEW ENGLAND HEALTH SERVICE		DRAWN	J. J. J.	SCALE 1:50
		DATE 20/9/04		J218_TA08_DD.dwg



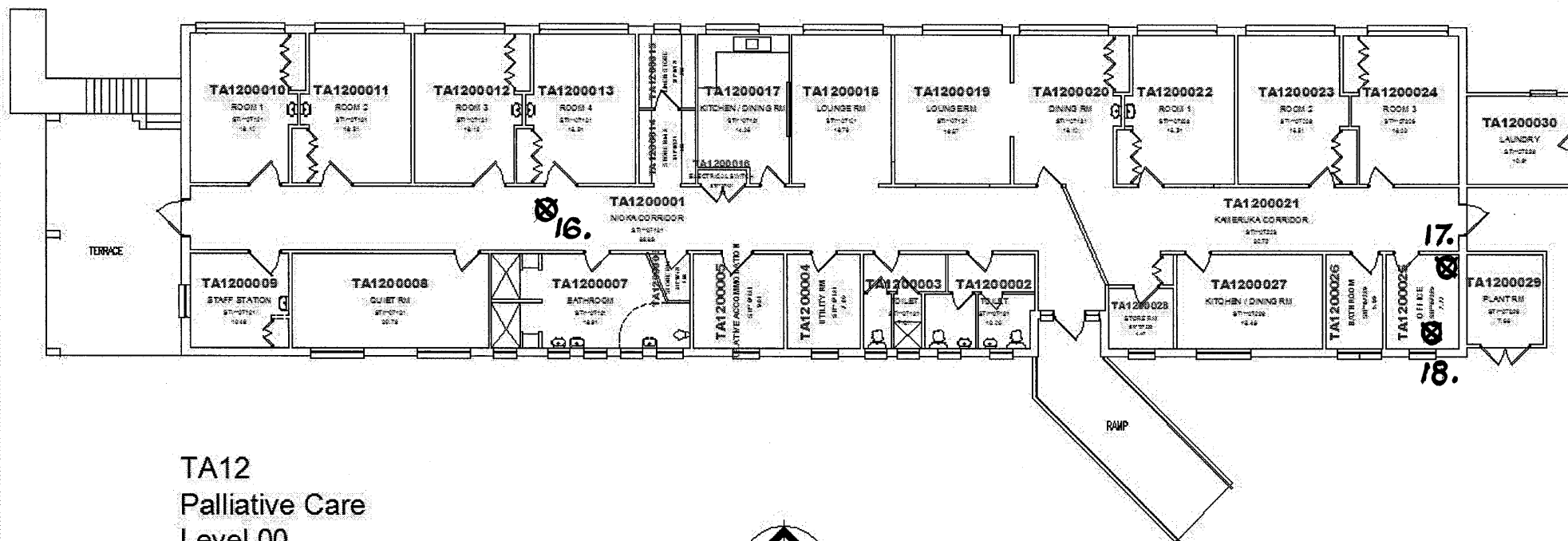
TA09
Rotary Lodge
Level 00
Tamworth
144.00 sq m

Asbestos sample locations shown : X 12.

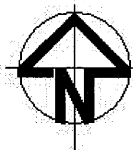
Paint sample locations shown : O ST12.



DATE	SHEET	1	PROJECT	TAMWORTH BASE HOSPITAL
			PROJECT	HEALTHAMMS:-
			ROOM NUMBERS	
			SHEET	ROTARY LODGE
NEW ENGLAND HEALTH SERVICE	DRWN J. J. J.	SCALE 1:100	DATE 20/9/04	J216_TA09_00.dwg

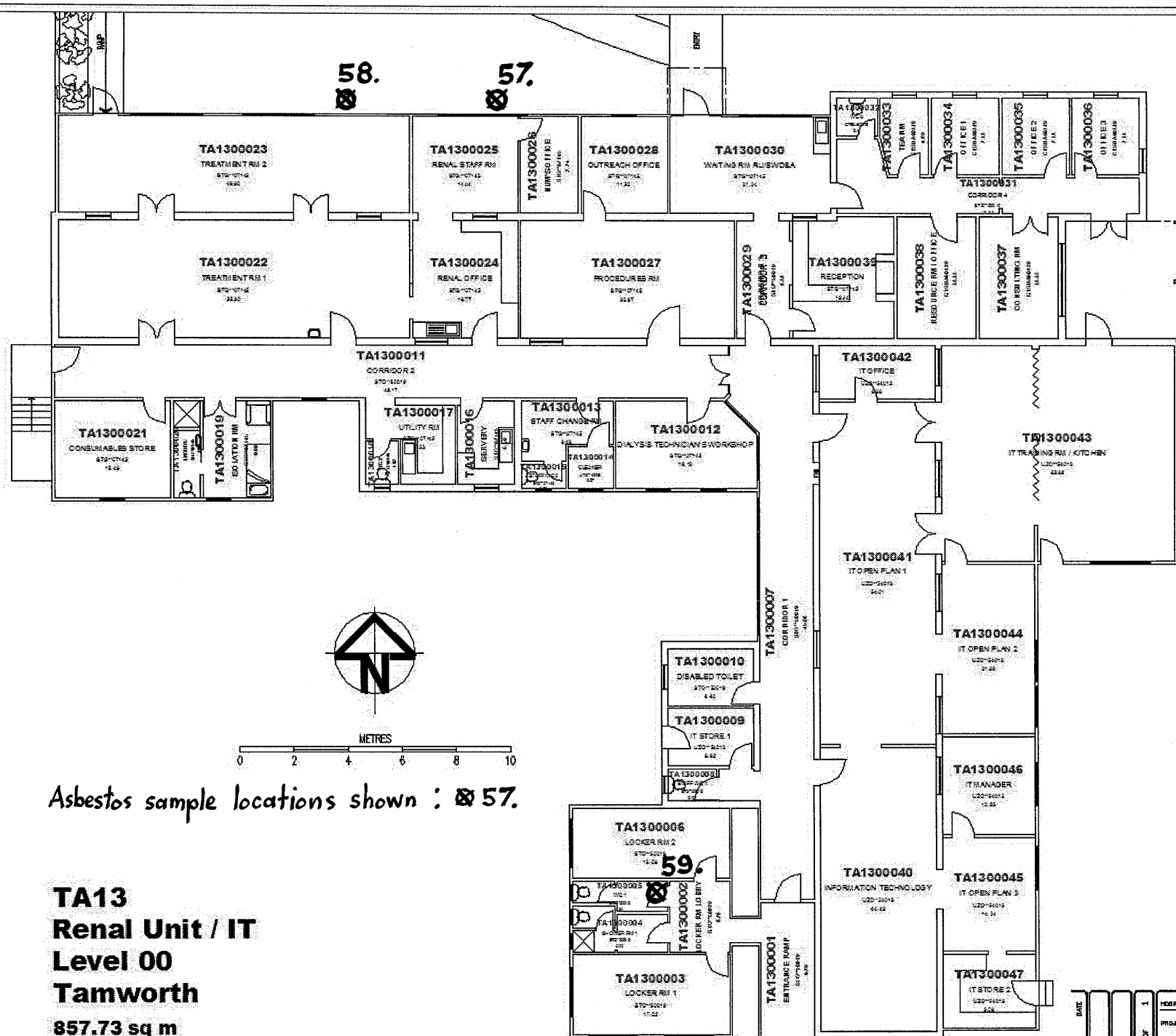


TA12
Palliative Care
Level 00
Tamworth
499.16 sq m

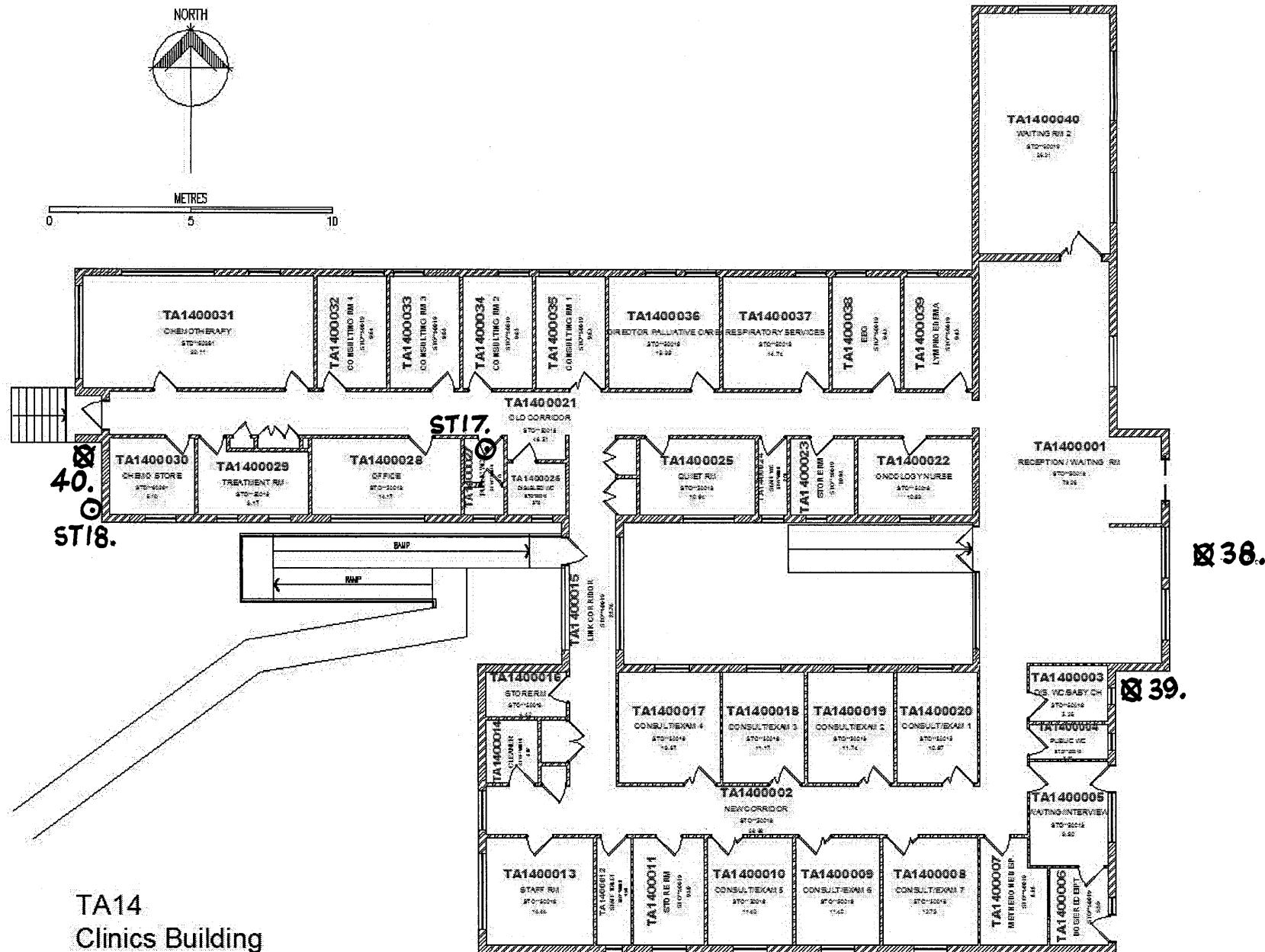


Asbestos sample locations shown : 16.

DATE VERIFIED SHEET 1	HOSPITAL	TAMWORTH BASE HOSPITAL		
	PROJECT	HEALTHAMMS:-		
		ROOM NUMBERS		
	SHEET	PALLIATIVE CARE		
NEW ENGLAND HEALTH SERVICE		DRAWN J. Langford	SCALE 1:100	DATE 21/9/04
K219_TAI2_D0.dwg				



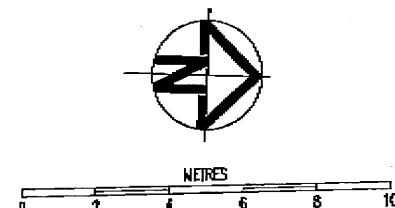
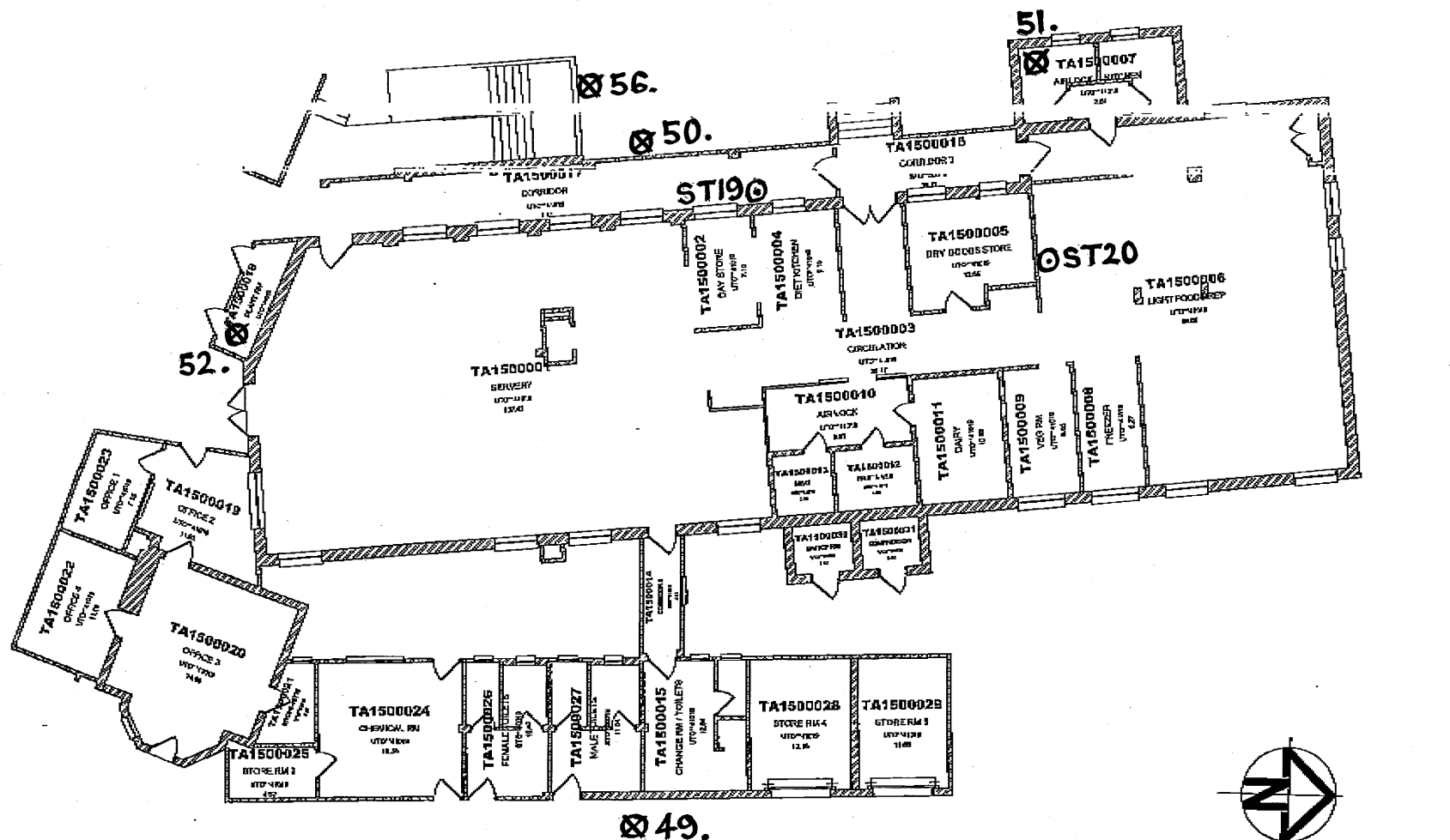
TA13
Renal Unit / IT
Level 00
Tamworth
857.73 sq m



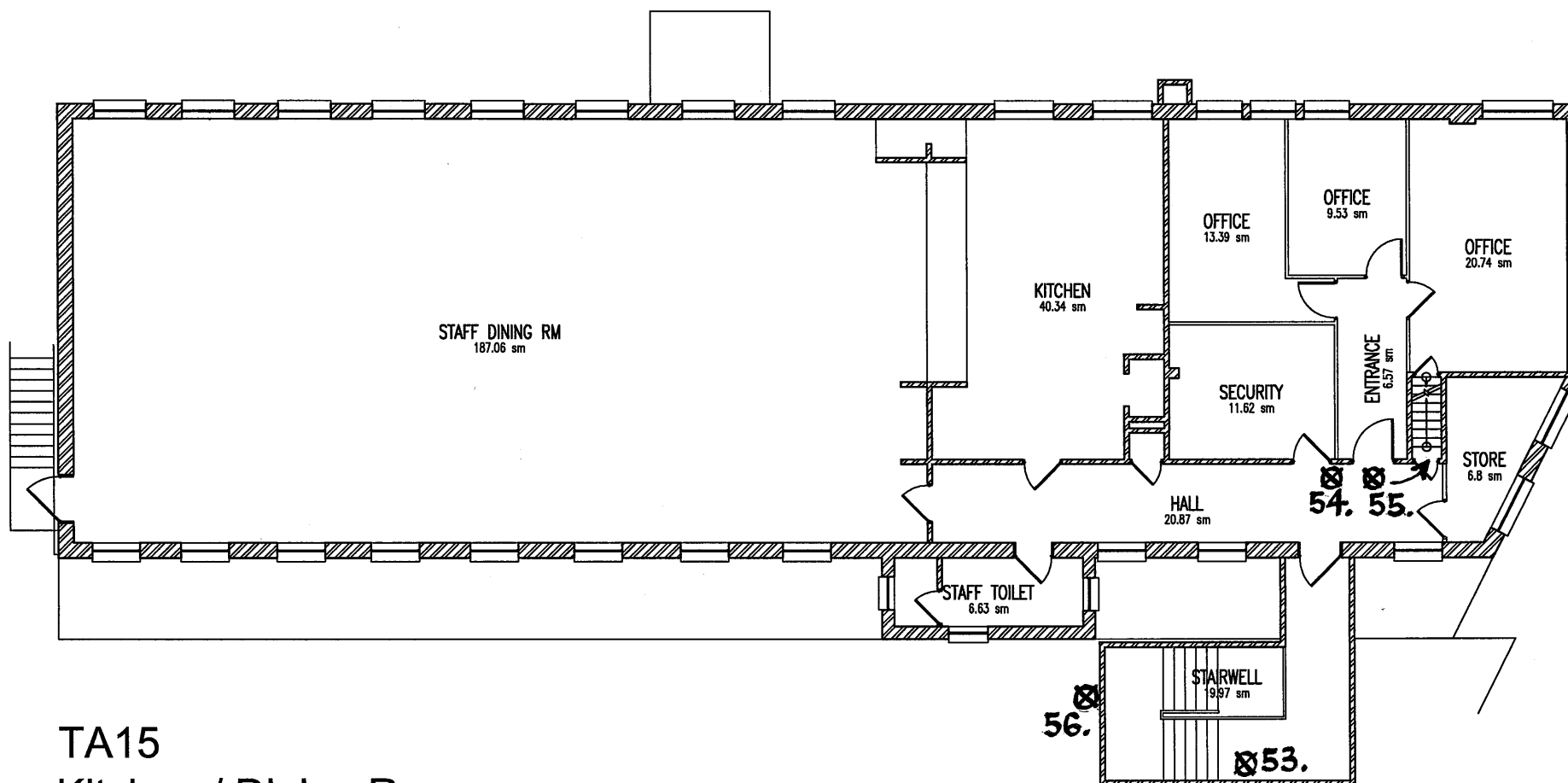
TA14
Clinics Building
Level 00
Tamworth
711.93 sq m

Asbestos sample locations shown : X 38.
Paint sample locations shown : O ST17.

DATE	1	HOSPITAL	TAMWORTH BASE HOSPITAL
PROJECT	1	PROJECT	HEALTHAMMS:-
SHEET	1	ROOM NUMBERS	
CLINICS			
NEW	1	SCALE	1:100
DATE	21/8/04		
8219-TA14-DD			



DATE	SHEET	HOSPITAL	TAMWORTH BASE HOSPITAL		
			PROJECT		
			HEALTHAMMS:-		
			ROOM NUMBERS		
DRAWN	BY	CHECKED	DATE	KITCHEN/DINING ROOM- GROUND FLOOR	
				SCALE 1:100	
				DATE 29/8/06	
				JOB NO. TAM5_00.dwg	



TA15

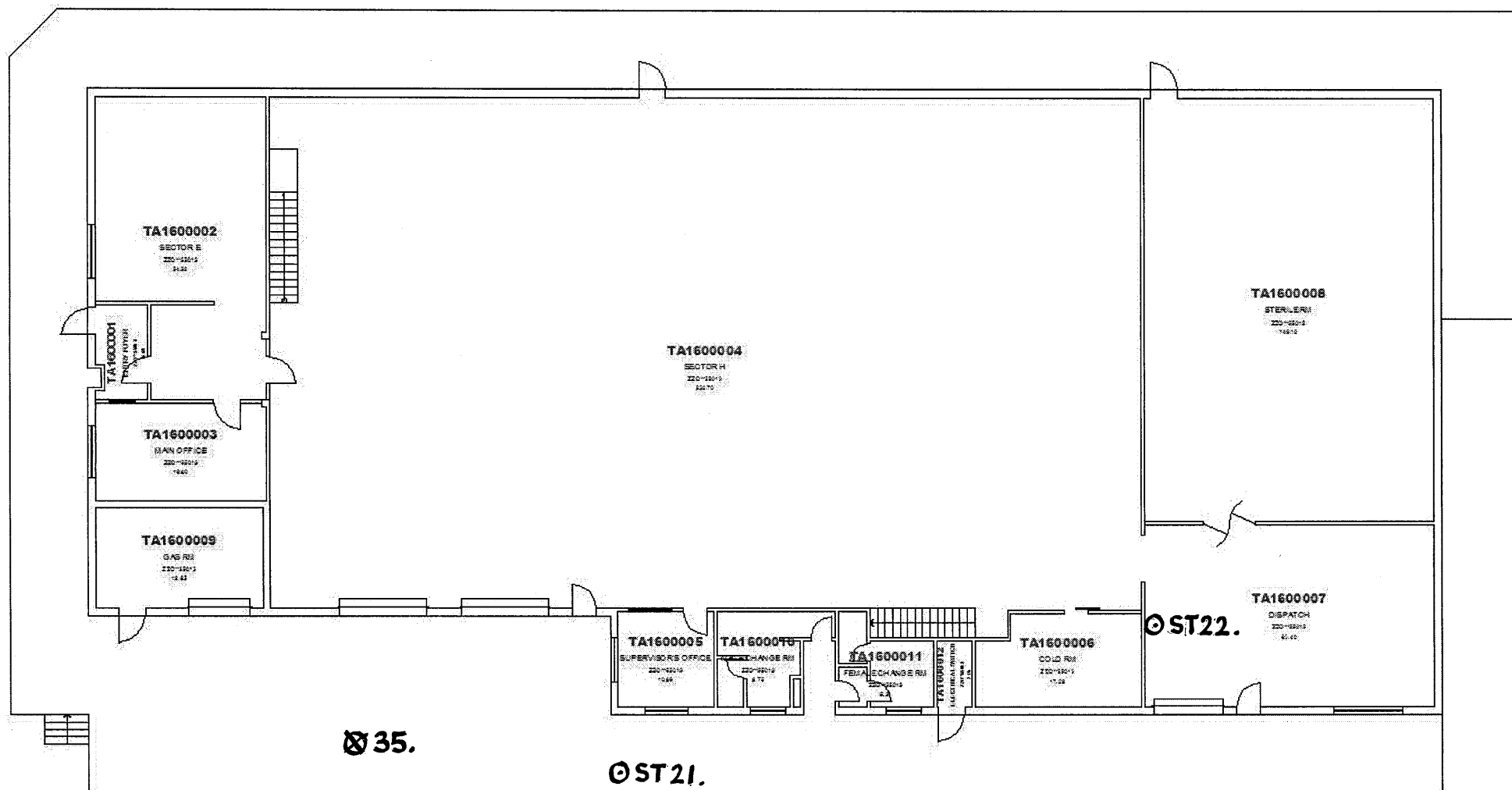
Kitchen / Dining Room

Level 01

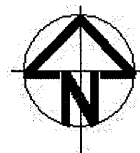
Tamworth

388.12 sq m

Asbestos sample locations shown : 53.



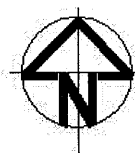
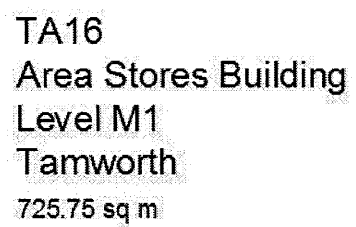
TA16
Area Stores Building
Level 00
Tamworth
1130.00 sq m



0 2 4 6 8 10
METRES

Asbestos sample locations shown : 35.
Paint sample locations shown : ST21.

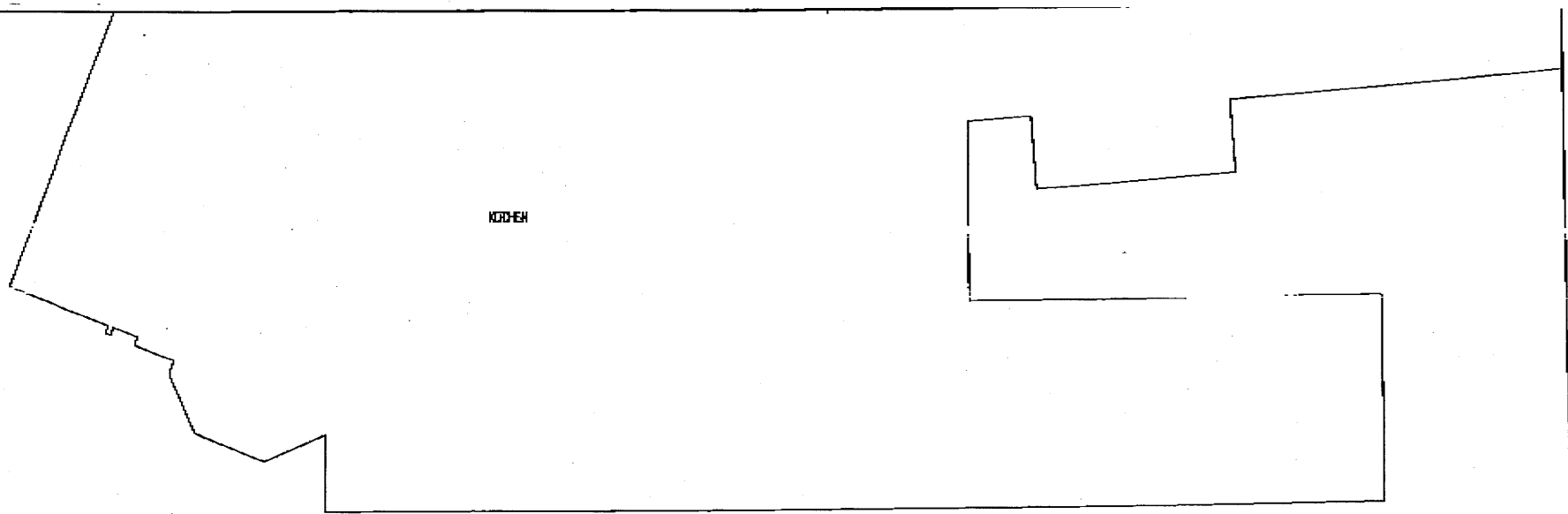
DATE	1	HOSPITAL	TAMWORTH BASE HOSPITAL	
PROJECT	1	HEALTHAMMS:-		
SHEET	1	ROOM NUMBERS		
		AREA STORES BUILDING- GROUND FLOOR		
NEW ZEALAND HEALTH SERVICE	SCALE	1:100	DATE	23/9/04
#219_TA16_00.dwg				



METRES

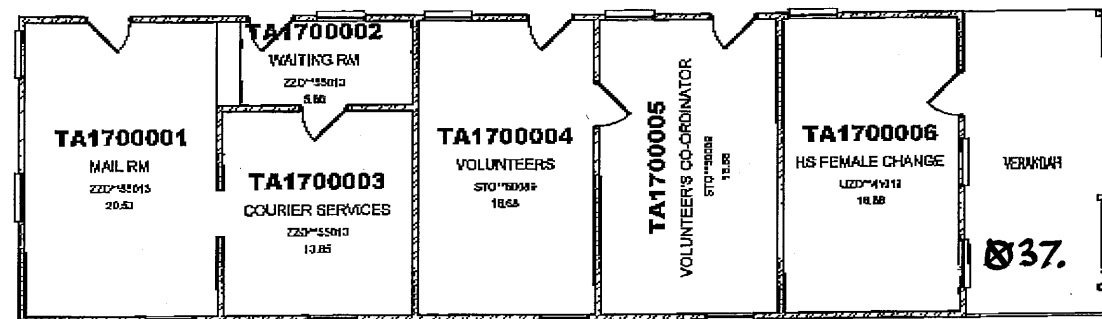


BASE	NEW	SHEET 1 OF 1	SECTION	TAMWORTH BASE HOSPITAL		
			PROJECT	HEALTHAMMS:-		
				ROOM NUMBERS		
			SHEET	AREA STORES BUILDING - MEZZANINE		
ADDITIONS	NEW		NEW ENGLAND HEALTH SERVICES	DRAWN <i>J. Langley</i>	SCALE 1:100	DATE 15/10/04
						ASB-TA16.M1.dwg



NORTH

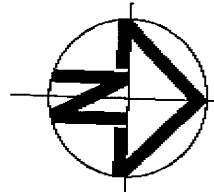
COVERED WAY



ST23.

ST24.

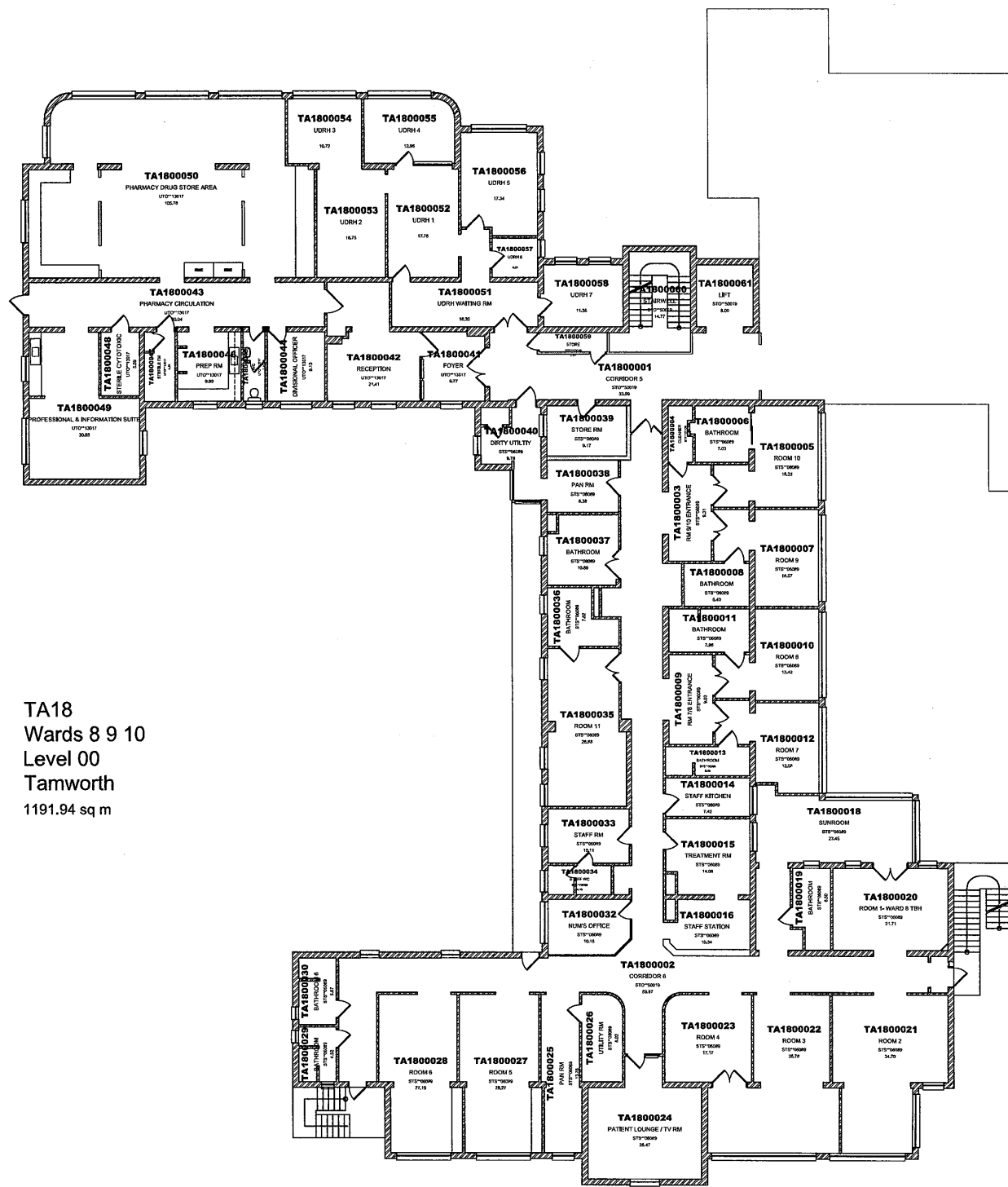
36.



TA17
Domestic Services
Level 00
Tamworth

104.12 sq m
Asbestos sample locations shown : 36.
Paint sample locations shown : ST23.

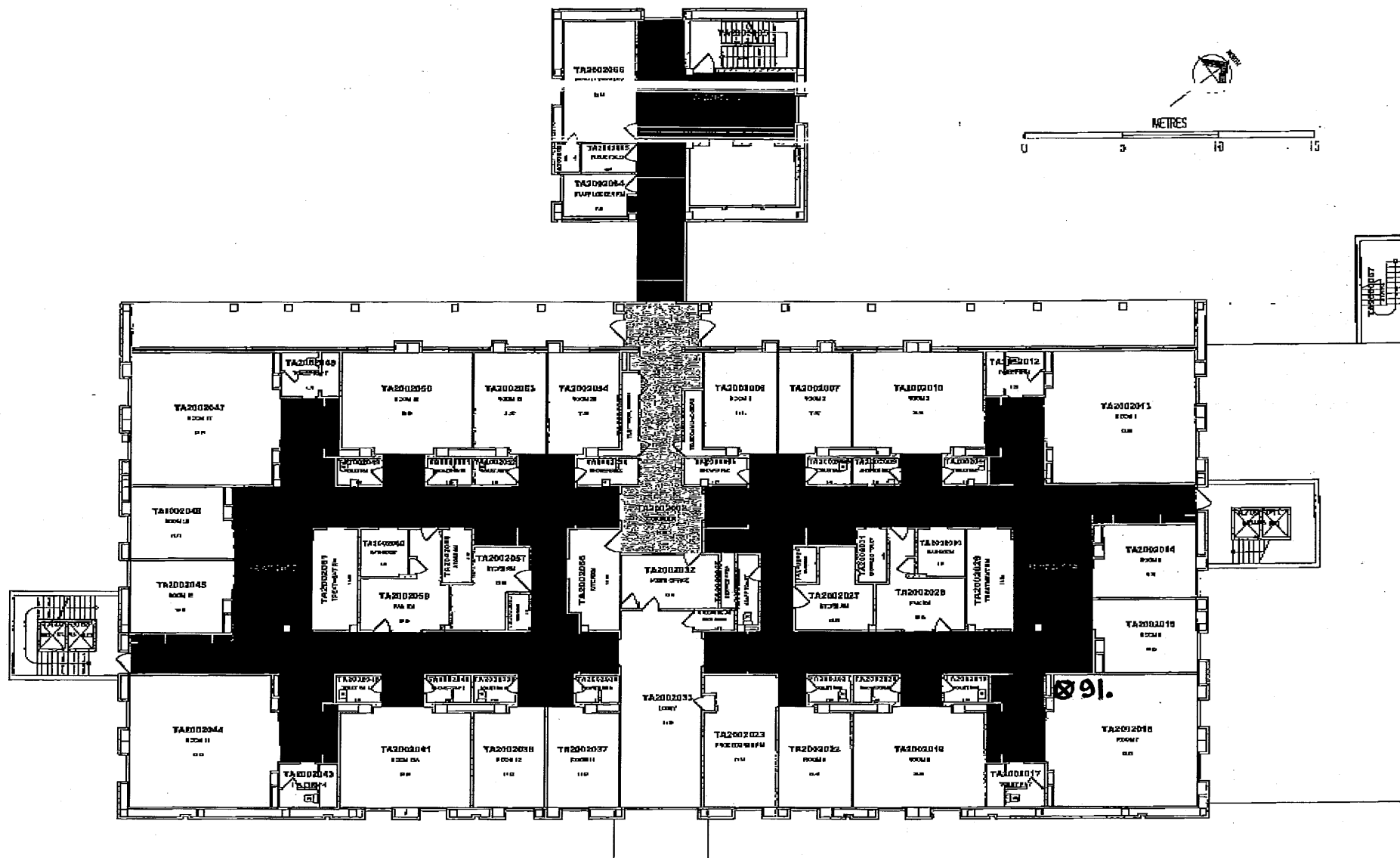
DATE	SHEET 1 OF 1	PROJECT	TAMWORTH BASE HOSPITAL		
		PROJECT	HEALTHAMMS:-		
		PROJECT	ROOM NUMBERS		
		PROJECT	DOMESTIC SERVICES		
DRAWN	J. Forsythe	SCALE	1:100	DATE	23/9/04



TA18
Wards 8 9 10
Level 00
Tamworth
1191.94 sq m



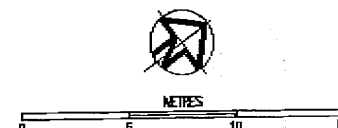
DATE DRAWN CHECKED APPROVED PROJECT SHEET TAILOR	HOSPITAL TAMWORTH BASE HOSPITAL
	PROJECT HEALTHAMMS:-
	SHEET ROOM NUMBERS
	SHEET WARDS 8, 9 & 10 - GROUND FLOOR
SCALE 1:100	
DATE 5/10/04	



TA20
Brudelin Wing
Level 02
Tamworth
1929.56 sq m

Asbestos sample locations shown : X 91.

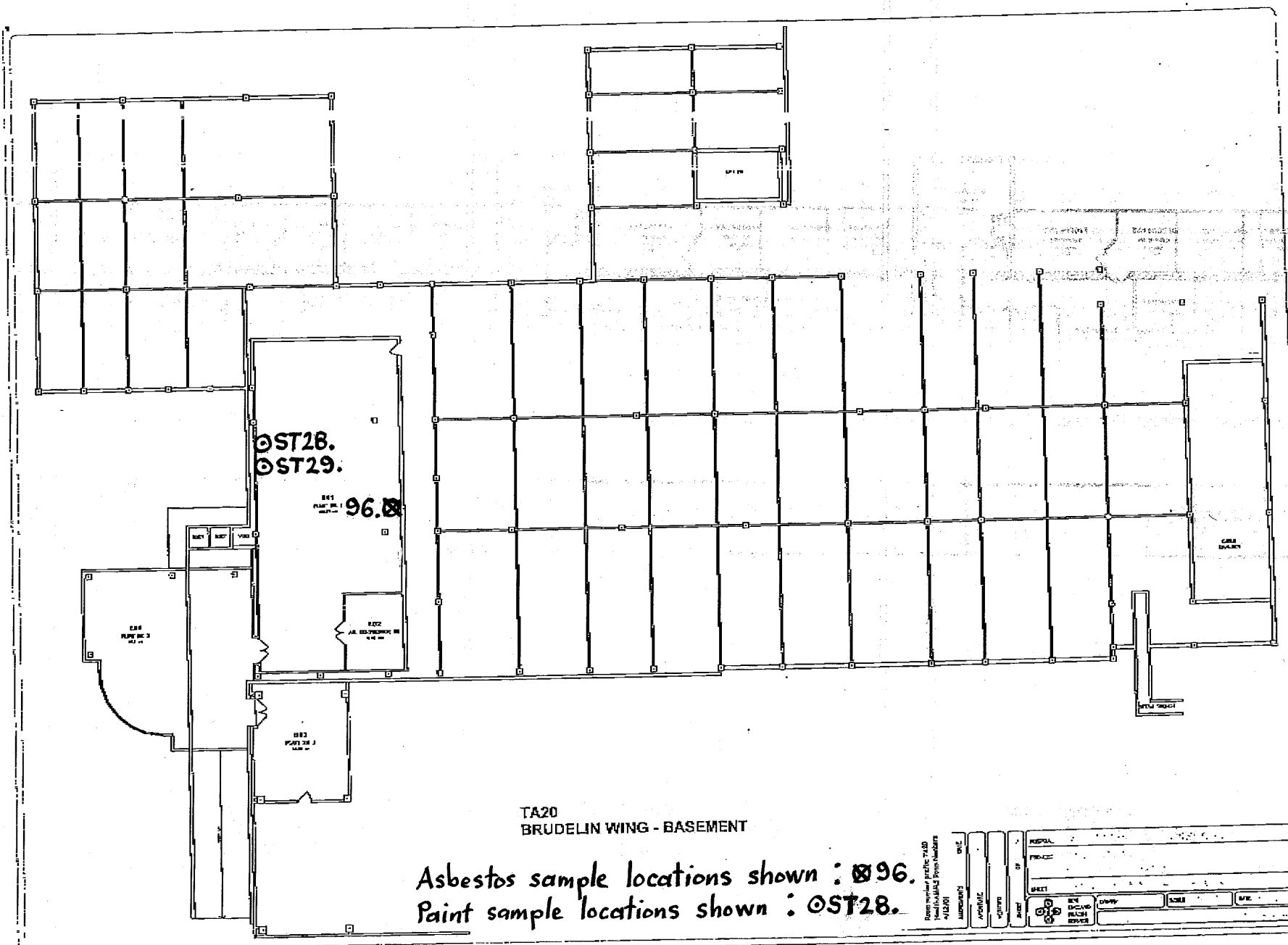
DATE	15/11/04	PROJECT	TAMWORTH BASE HOSPITAL
BY	15/11/04	FILED	HEALTHAHS:-
NO	15/11/04	ROOM NUMBERS	
BY	15/11/04	BRUDLIN WING - SECOND FLOOR	
NO	15/11/04	101	15/11/04
NO	15/11/04	15/11/04	15/11/04



TA20
Brudelin Wing
Level B1
Tamworth
3163.72 sqm

86.

DATE	TIME	LOCATION	NAME	ROOM	STATUS	REMARKS
			TAMMORTH BASE HOSPITAL			
			HEALDIANNS			
			ROOM NUMBERS			
			BRIDLEY WING: LOWER GROUND FLOOR			
			ST. CLAUDE WING			
			ST. JAMES WING			
			ST. JOHN WING			
			ST. MARY WING			
			ST. MICHAEL WING			
			ST. PETER WING			
			ST. ROSE WING			
			ST. THOMAS WING			
			ST. VINCENT WING			
			ST. WALTER WING			
			ST. WILLIAM WING			
			ST. ZEPHYRUS WING			
			ST. ANNE WING			
			ST. CATHARINE WING			
			ST. ELIZABETH WING			
			ST. GEORGE WING			
			ST. HENRY WING			
			ST. JACOB WING			
			ST. JEROME WING			
			ST. JOSEPH WING			
			ST. LEONARD WING			
			ST. LOUIS WING			
			ST. MARTIN WING			
			ST. MARY WING			
			ST. MICHAEL WING			
			ST. NICHOLAS WING			
			ST. PETER WING			
			ST. RICHARD WING			
			ST. ROSE WING			
			ST. THOMAS WING			
			ST. VINCENT WING			
			ST. WILLIAM WING			
			ST. ZEPHYRUS WING			
			ST. ANNE WING			
			ST. CATHARINE WING			
			ST. ELIZABETH WING			
			ST. GEORGE WING			
			ST. HENRY WING			
			ST. JACOB WING			
			ST. JEROME WING			
			ST. JOSEPH WING			
			ST. LEONARD WING			
			ST. LOUIS WING			
			ST. MARTIN WING			
			ST. MARY WING			
			ST. MICHAEL WING			
			ST. NICHOLAS WING			
			ST. PETER WING			
			ST. RICHARD WING			
			ST. ROSE WING			
			ST. THOMAS WING			
			ST. VINCENT WING			
			ST. WILLIAM WING			
			ST. ZEPHYRUS WING			
			ST. ANNE WING			
			ST. CATHARINE WING			
			ST. ELIZABETH WING			
			ST. GEORGE WING			
			ST. HENRY WING			
			ST. JACOB WING			
			ST. JEROME WING			
			ST. JOSEPH WING			
			ST. LEONARD WING			
			ST. LOUIS WING			
			ST. MARTIN WING			
			ST. MARY WING			
			ST. MICHAEL WING			
			ST. NICHOLAS WING			
			ST. PETER WING			
			ST. RICHARD WING			
			ST. ROSE WING			
			ST. THOMAS WING			
			ST. VINCENT WING			
			ST. WILLIAM WING			
			ST. ZEPHYRUS WING			
			ST. ANNE WING			
			ST. CATHARINE WING			



TA20
BRUDELIN WING - BASEMENT

Asbestos sample locations shown : 96.
Paint sample locations shown : ST28.

Revised by: J. L. D.
Date: 11/12/01

Drawn by: J. L. D.
Date: 11/12/01

Checked by: J. L. D.
Date: 11/12/01

Approved by: J. L. D.
Date: 11/12/01

Project: TA20

Sheet: 1 of 1

Scale: 1/8" = 1'-0"

Date: 11/12/01

By: J. L. D.

Check: J. L. D.

App: J. L. D.

Project: TA20

Sheet: 1 of 1

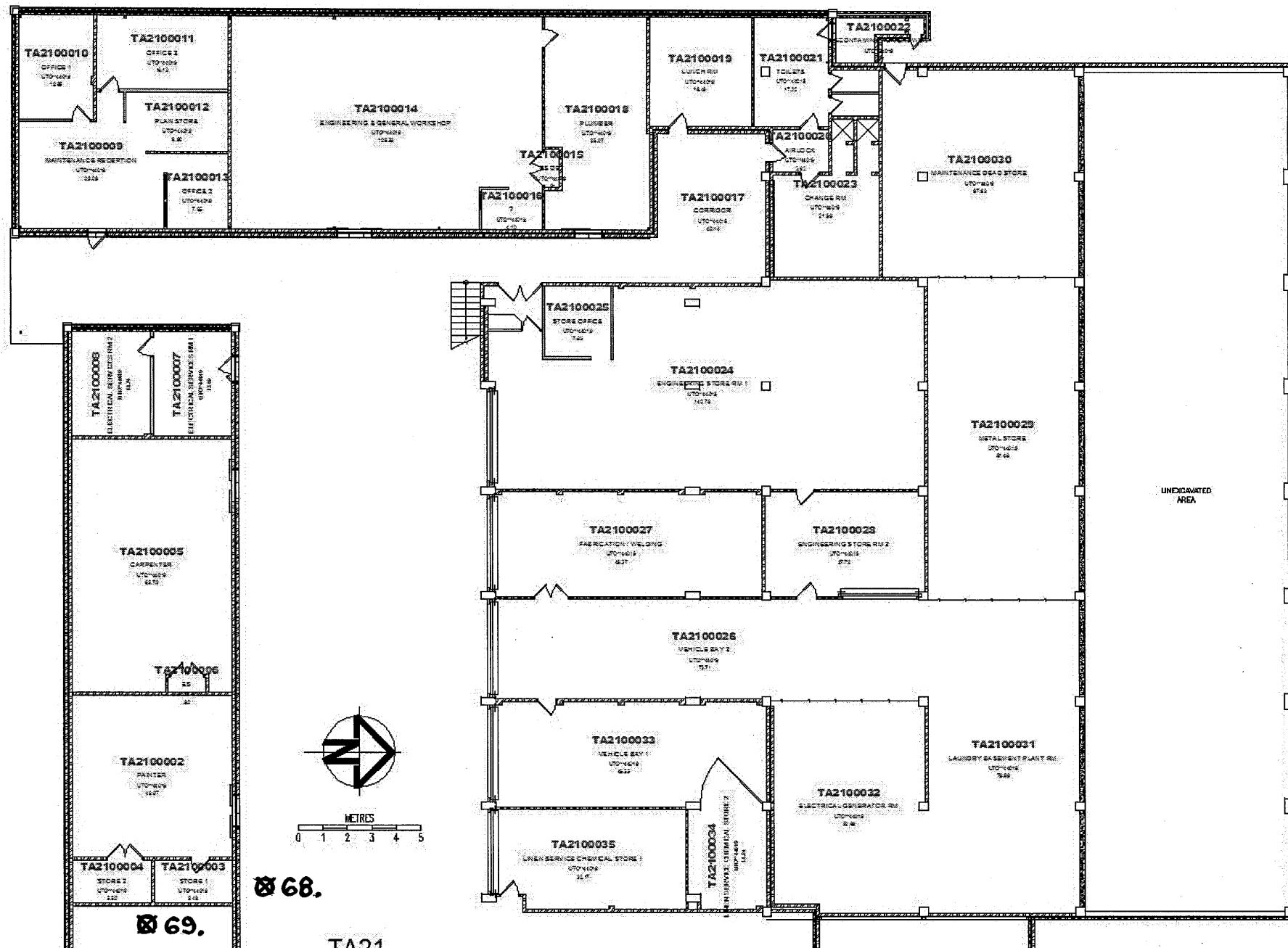
Scale: 1/8" = 1'-0"

Date: 11/12/01

By: J. L. D.

Check: J. L. D.

App: J. L. D.



✕ 68.

✕ 69.

✕ 70.

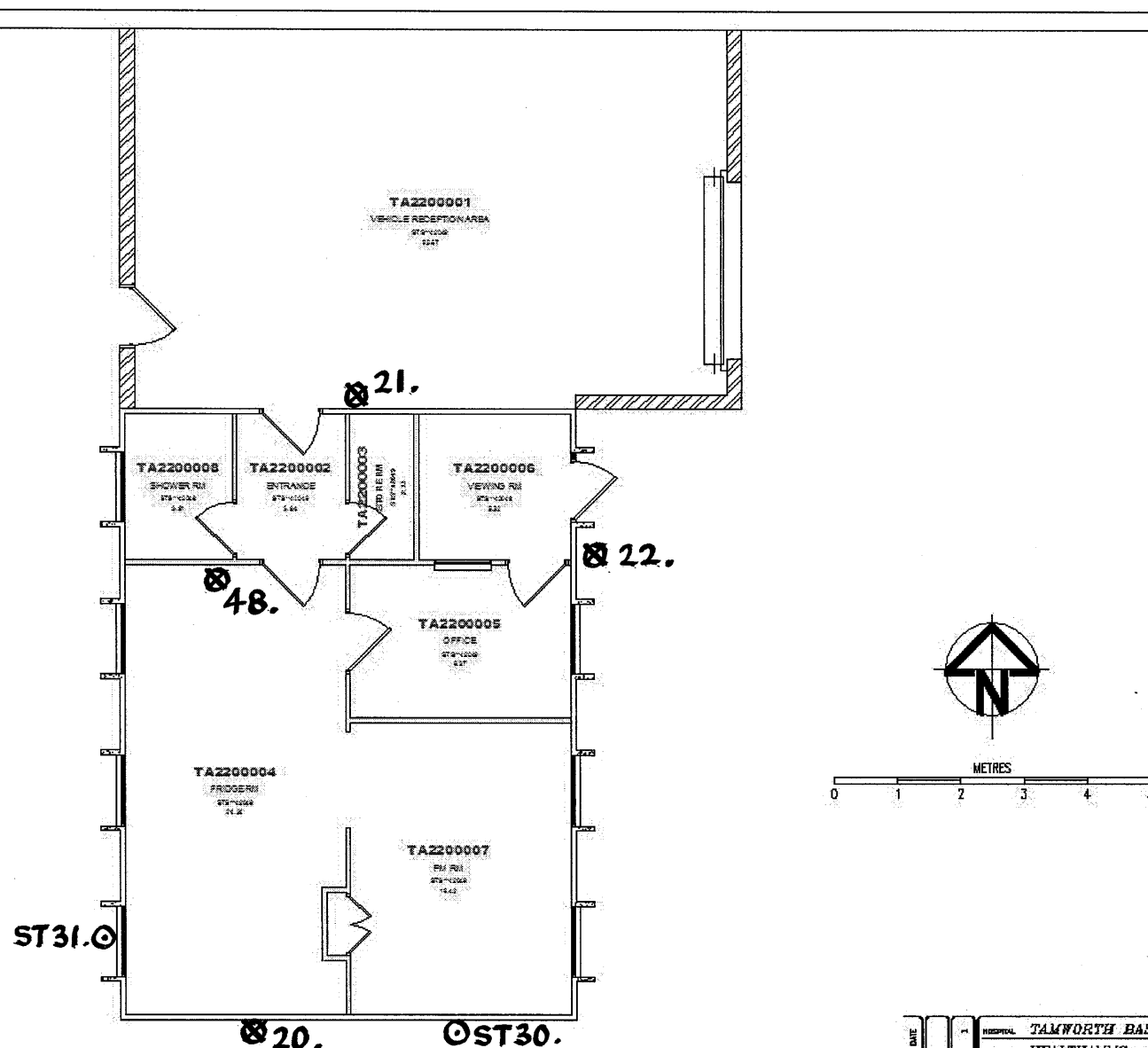
TA21
Workshop / Linen Services
Level 00
Tamworth
1306.55 sq m

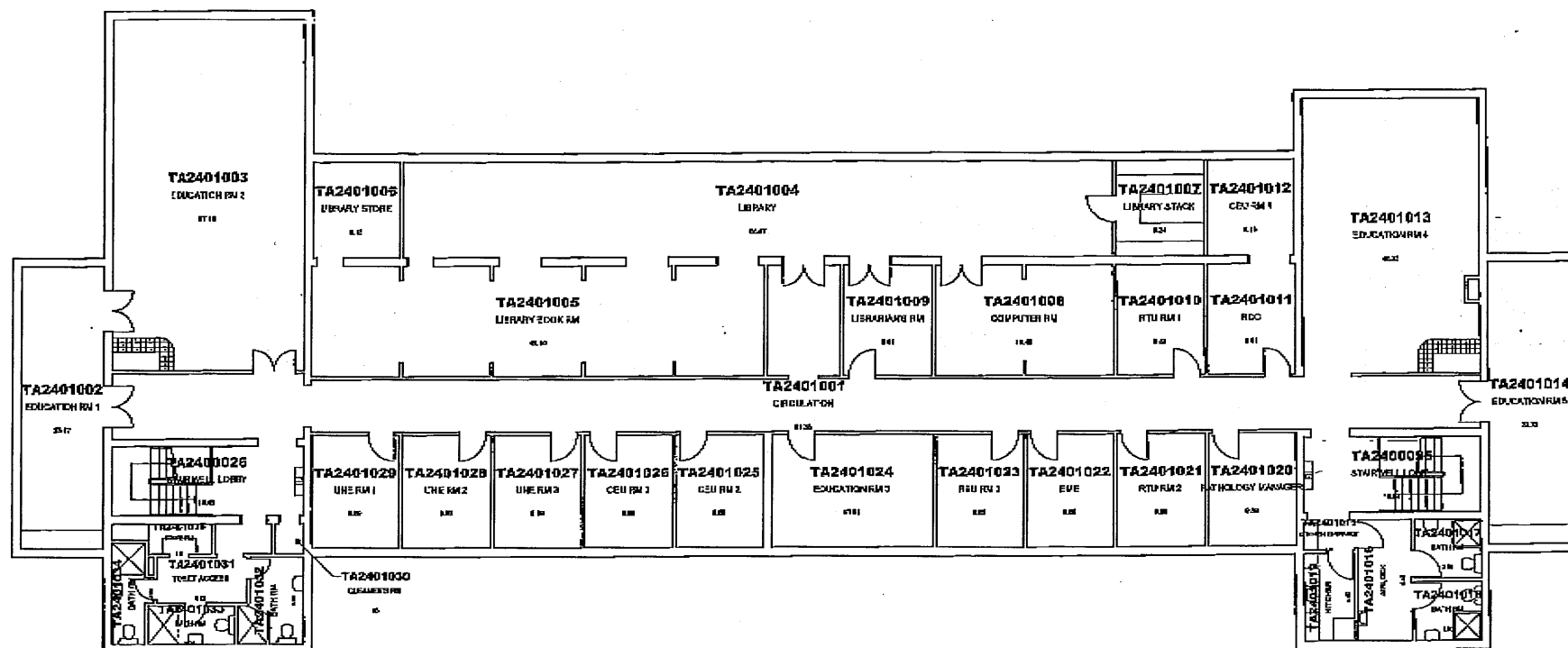
Asbestos sample locations shown : ✕ 68.

DATE	11/10/04	HOSPITAL	TAMWORTH BASE HOSPITAL
PROJECT	HEALTHAMMS:-	ROOM NUMBERS	
SHEET	WORKSHOP		
NEW ENGLAND HEALTH SERVICE	DRAWN J. J. J.	SCALE	1:100
		DATE	11/10/04
			✕ 68

TA22
Mortuary
Level 00
Tamworth
128.10 sq m

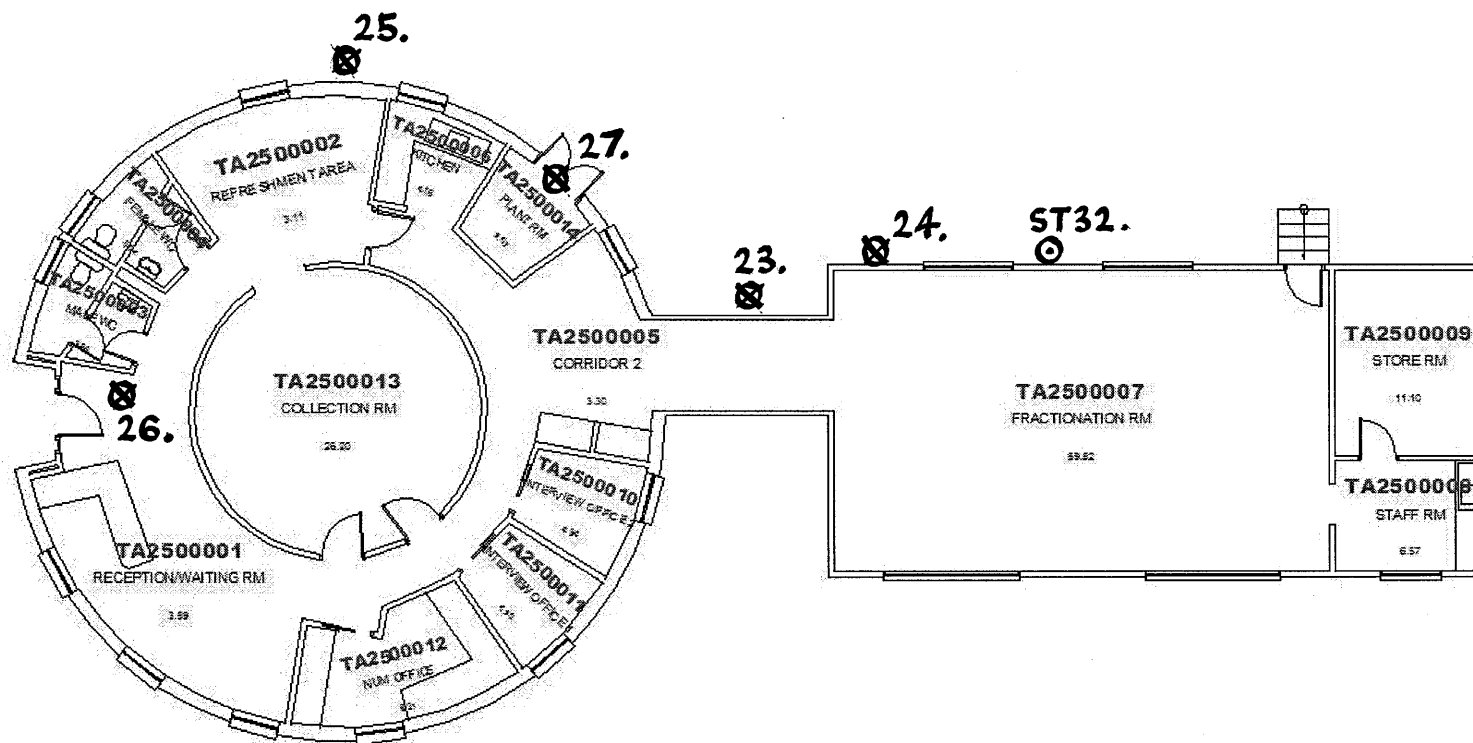
Asbestos sample locations shown : 20.
Paint sample locations shown : ST30.





TA24
Dean House
Level 01
Tamworth
689.72 sq m

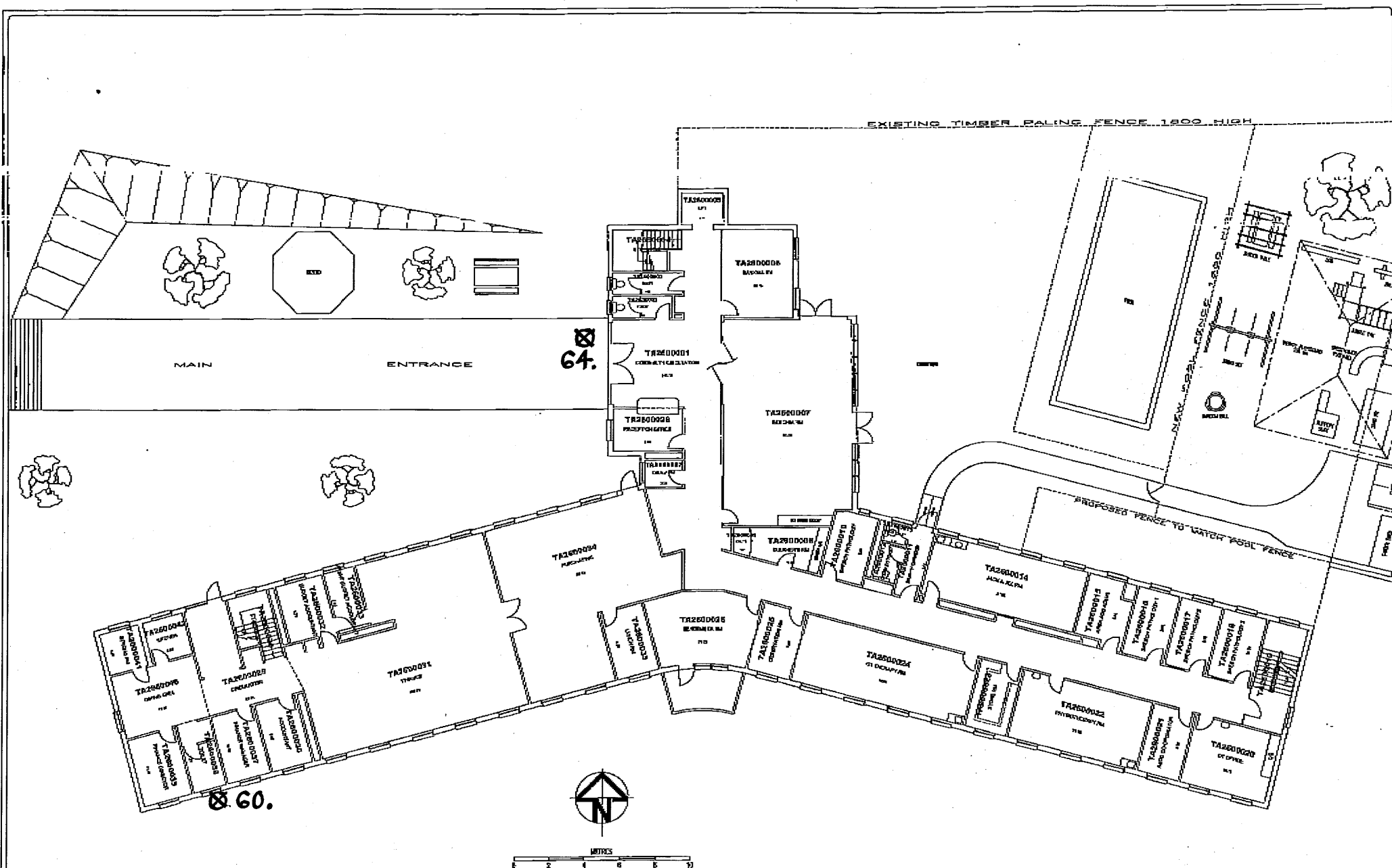
DATE DRAWN CHECKED SUIT	1	HOSPITAL	TAMWORTH BASE HOSPITAL		
	2	PROJECT	HEALTHAMMS:-		
	3	ROOM NUMBERS			
	4	DEAN HOUSE - FIRST FLOOR			
DRAWN J.Parkyn NAME 1:100 DATE 8/11/04 FILE TA24_01.dwg					



TA25
Blood Bank
Level 00
Tamworth
223.00 sq m

Asbestos sample locations shown : ⊗ 23.
Paint sample locations shown : ⊙ ST32.

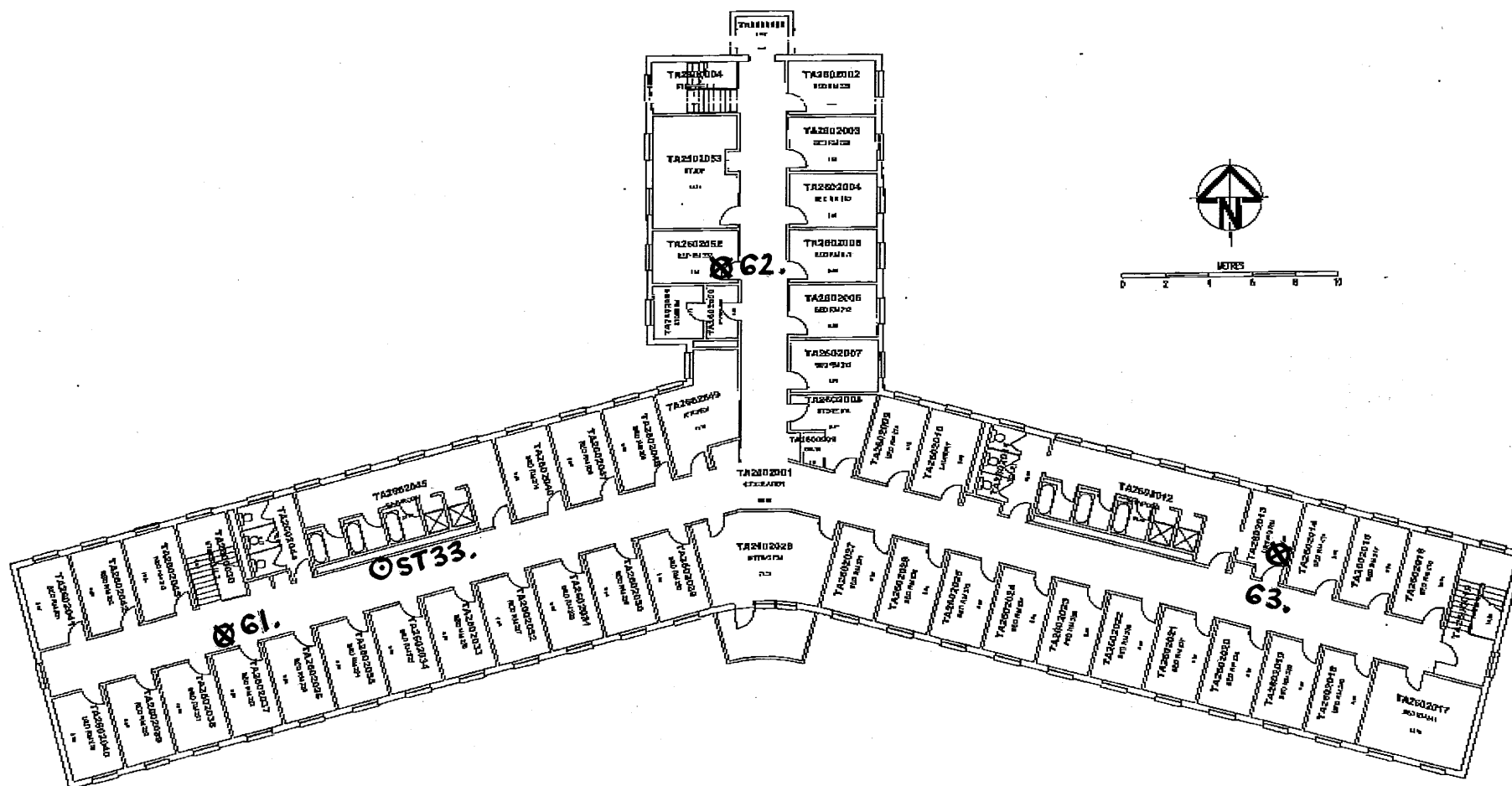
AMENDMENTS DATE APERTURE VERIFIED SHEET 1 OF 1	HOSPITAL	TAMWORTH BASE HOSPITAL		
	PROJECT	HEALTHAMMS:-		
		ROOM NUMBERS		
	SHEET	BLOOD BANK		
NEW ENGLAND HEALTH SERVICE		DRAWN	J.P. Smith	SCALE 1:100
		DATE		9/11/04
JR16_TA25_OD.dwg				



TA26
Johnston House
Level 00
Tamworth
952.07 sq m

Asbestos sample locations shown : X 60.

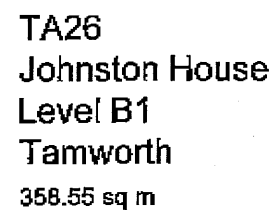
PROJECT	TAMWORTH BASE HOSPITAL		
CLIENT	HEALTHCARE -		
ROOM NUMBER	ROOM NUMBER		
FLOOR	JOHNSTON HOUSE - GROUND FLOOR		
DATE	11/01/94	SCALE	1:100
BY	11/01/94	DATE	11/01/94
PROJECT	TAMWORTH BASE HOSPITAL		




TA26
Johnston House
Level 02
Tamworth
916.26 sq m

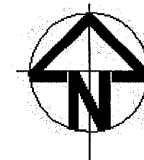
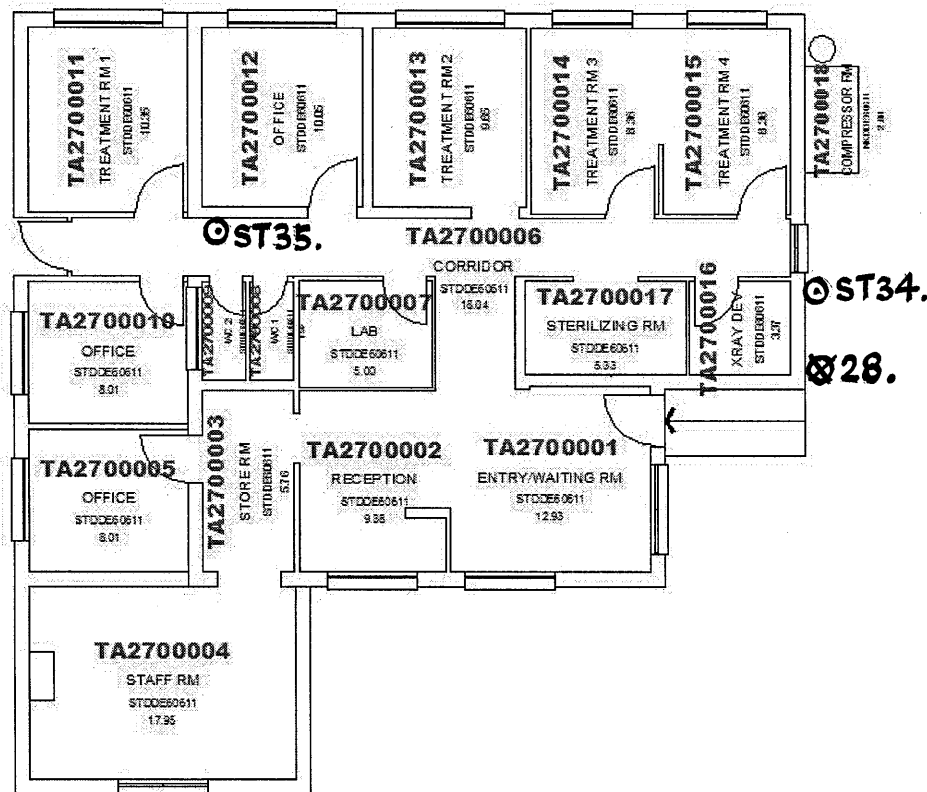
Asbestos sample locations shown : X61.
Paint sample locations shown : OST33.

TAMWORTH BASE HOSPITAL			
HEALTHCARE:-			
ROOM NUMBERS			
JOHNSTON HOUSE - SECOND FLOOR			
DATE	TIME	BY	FOR
14/01/04	11:00	14/01/04	14/01/04



Asbestos sample locations shown : 65.

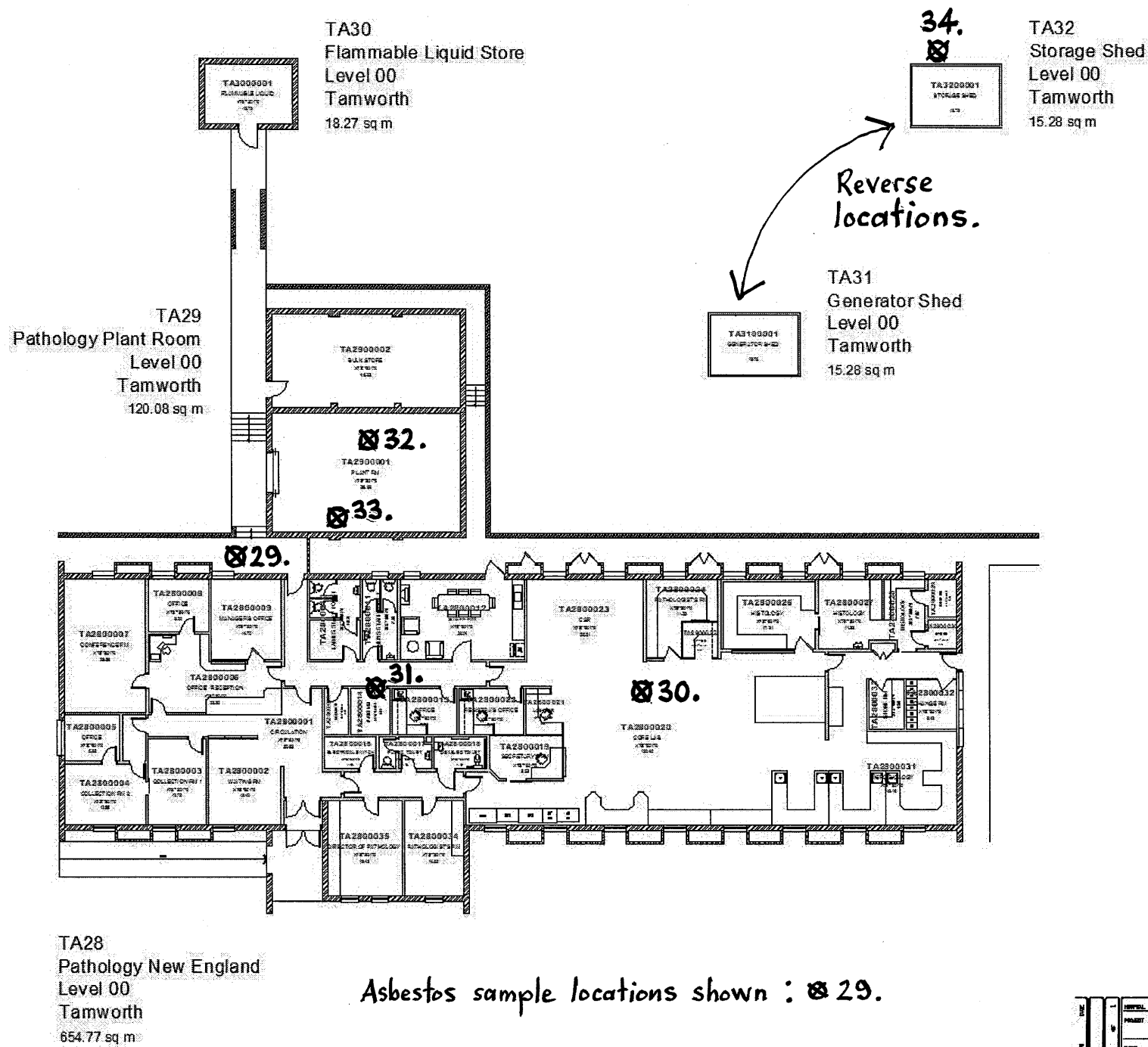
DATE	1	HOSPITAL	TANWORTH BASE HOSPITAL		
		PROJECT	HEALTHWAYS:-		
			BOOM NUMBERS		
		2	JOHNSTON HOUSE - BASEMENT		
ELEVATION	SECTION	1	SHEET	 DEPT OF DEFENSE ARCHITECTURAL SERVICE	DRAWN J. Ferry SCALE 1:100 DATE 11/11/04
				2016 T880 BL	



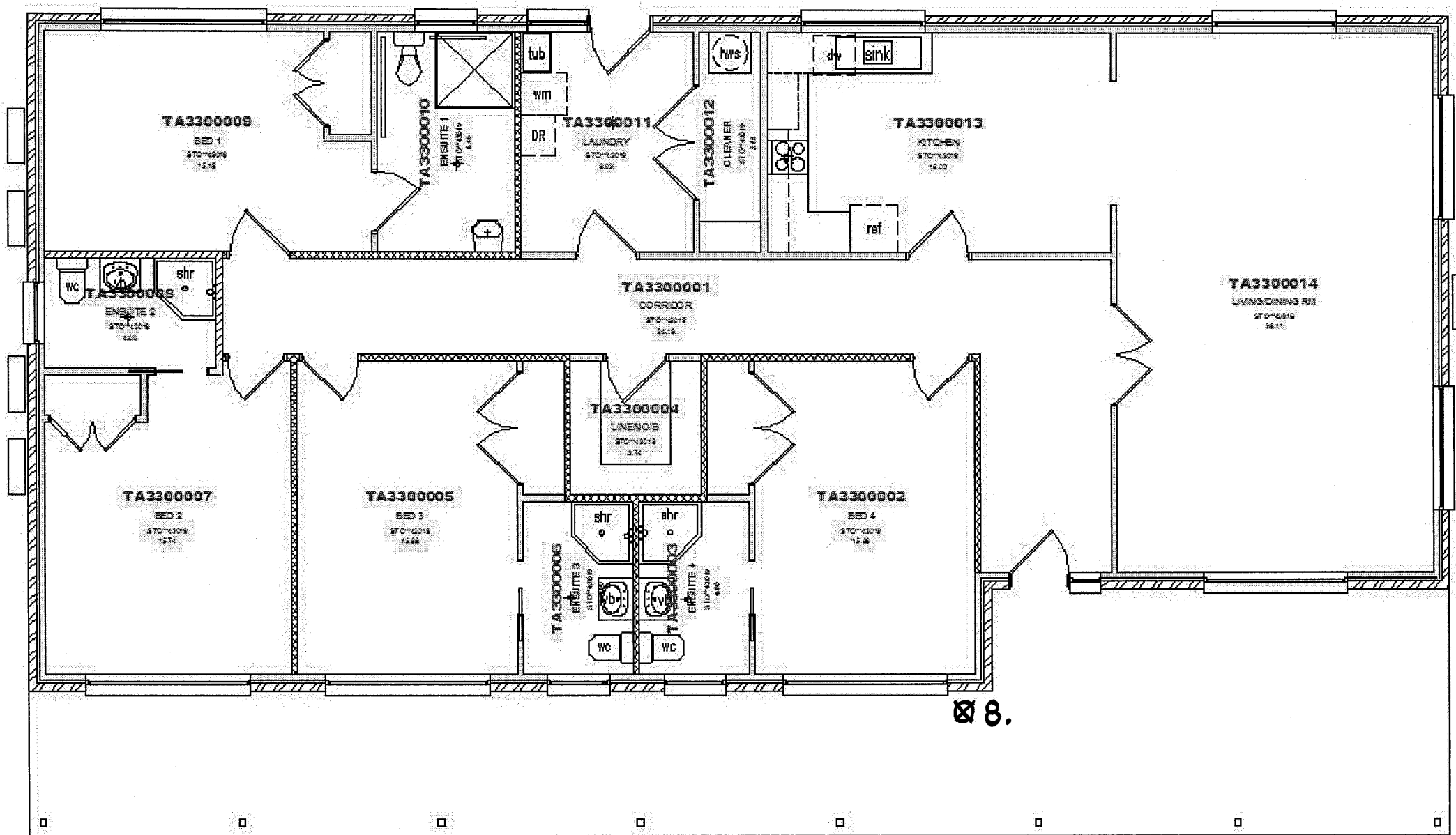
TA27 **Dental Clinic** **Level 00** **Tamworth** **171.19 sq m**

Asbestos sample locations shown : **28.**
Paint sample locations shown : **ST34.**

AMENDMENTS DATE APERTURE VERIFIED SHEET 1 OF 1	HOSPITAL	TAMWORTH BASE HOSPITAL		
	PROJECT	HEALTHAMMS:-		
	ROOM NUMBERS			
	SHEET	DENTAL CLINIC		
NEW ENGLAND HEALTH SERVICE	DRAWN	J.P. Farnham	SCALE	1:100
			DATE	7/10/04
JR16_TA27_00.dwg				

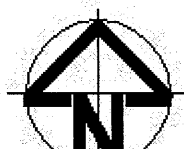


TAMWORTH BASE HOSPITAL	
HEALTH/THAMES:-	
ROOM NUMBERS	
PATHOLOGY	
DATE	TIME
10/11/04	11:00
10/11/04	



Asbestos sample locations shown : X 8.

TA34
Staff Accommodation
Level 00



Appendix B





Hazardous Materials Register

Use or disclosure of data contained on this sheet is subject to the restriction on the distribution page of this document.

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

ENSR

AECOM

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Paint swab test numbers indicated: ST01												
Building TA01 - Cade Unit	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA01 - Cade Unit	Internal	Top of ceilings	SMF insulation				SMF				Good condition, encapsulated	
Building TA01 - Cade Unit	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF				Good condition, encapsulated	
Building TA01 - Cade Unit	Internal	Hot water unit to Cleaners/Linen Store	SMF insulation			3	SMF				Good condition, encapsulated	
Building TA02 - Banksia Mental Health Unit	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA02 - Banksia Mental Health Unit	Internal	Top of ceilings	SMF insulation				SMF				Good condition, encapsulated	
Building TA02 - Banksia Mental Health Unit	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF				Good condition, encapsulated	
Building TA02 - Banksia Mental Health Unit	Internal	Hot water units(2) to north side hot water room	SMF insulation				SMF				Good condition, encapsulated	
Building TA02 - Banksia Mental Health Unit	Internal	Boiling water unit to lunchroom	SMF insulation				SMF				Good condition, encapsulated	
Building TA03 - Diabetic Centre	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA03 - Diabetic Centre	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF				Good condition, encapsulated	
Building TA03 - Diabetic Centre	Internal	Boiling water unit to lunchroom	SMF insulation				SMF				Good condition, encapsulated	
Building TA04 - Diabetic Selling Centre	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA05 - Diabetes Accommodation/ Dietician Offices	External	Below verge tiles at ends of gable roofs	Asbestos cement sheet strips	Similar to 7		9	Asbestos presumed	Bonded	HL1	Labelling not required	Good condition, generally fully concealed.	
Building TA05 - Diabetes Accommodation/ Dietician Offices	External	Roof gables south, east and west sides	Profiled asbestos cement sheet	7		9	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted	






**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

ENSR

AECOM

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA05 - Diabetes Accommodation/ Dietician Offices	External	Eaves	Flat asbestos cement sheet	Similar to 7		9	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA05 - Diabetes Accommodation/ Dietician Offices	External	Ceilings to entry porches	Flat asbestos cement sheet	Similar to 7			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA05 - Diabetes Accommodation/ Dietician Offices	External	Ceiling to carport, south east corner	Flat asbestos cement sheet	Similar to 7		9	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Accommodation	Walls to kitchen TA0500003	Flat asbestos cement sheet	6		10	Chrysotile, Amosite, Crocidolite asbestos	Bonded	HL2c	Not labelled	Generally fully concealed, small area requires painting.	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Accommodation	Toilet, west side	Prefinished asbestos cement sheet	Similar to 6			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Accommodation	Shower/Toilet, west side	Asbestos cement sheet behind wall tiles	Similar to 6			Asbestos presumed	Bonded	HL1	Not labelled	Fully concealed, confirm presence prior to any demolition	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Offices	Shower/Toilet	Asbestos cement sheet behind wall tiles	Similar to 6			Asbestos presumed	Bonded	HL1	Not labelled	Fully concealed, confirm presence prior to any demolition	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Generally	Top of ceilings	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Generally	Air conditioning ductwork in roof space	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition	
Building TA05 - Diabetes Accommodation/ Dietician Offices	Internal Generally	Top of piers to foundation spaces	Possible asbestos cement packers				Asbestos presumed	Bonded	HL1		Fully concealed, confirm presence prior to any demolition	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA06 - Koolkuna Building	External	Roofing	Corrugated asbestos cement sheet	Similar to 46			Asbestos presumed	Bonded	HL2c	Not Labelled	Moderate weathering presumed	
Building TA06 - Koolkuna Building	External	Ridge cappings and barge moulds	Moulded asbestos cement	Similar to 46			Asbestos presumed	Bonded	HL2c	Not Labelled	Moderate weathering, barge moulds require painting.	
Building TA06 - Koolkuna Building	External	Eaves gutters	Moulded asbestos cement	Similar to 46		12	Asbestos presumed	Bonded	HL1	Not Labelled	Good condition, painted.	
Building TA06 - Koolkuna Building	External	Fascia soffits, north side	Flat asbestos cement sheet	Similar to 46			Asbestos presumed	Bonded	HL1	Not Labelled	Good condition, painted.	
Building TA06 - Koolkuna Building	External	Walling and fascias	Profiled asbestos cement sheet	46			Chrysotile, amosite asbestos	Bonded	HL1	Not Labelled	Good condition, painted.	
Building TA06 - Koolkuna Building	Internal	Hot water unit to north end hot water /storeroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA06 - Koolkuna Building	Internal	Ceilings to west side offices, ground and first floor	Mineral fibre tiles				SMF				Generally good condition, undamaged	
Building TA06 - Koolkuna Building	Internal	Walls to bathroom and toilet, north end residence at first floor TA06M1008	Flat asbestos cement sheet	47		13	Chrysotile	Bonded	HL1		Good condition, painted.	
Building TA06 - Koolkuna Building	Internal	Air conditioning ductwork in ceiling spaces	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition works.	
Building TA07 - Physiotherapy	External	Below verge tiles at ends of gable roofs	Asbestos cement sheet strips	Similar to 14		15	Asbestos presumed	Bonded	HL1	Labelling not required	Good condition, generally fully concealed	
Building TA07 - Physiotherapy	External	Eaves and gable overhangs	Flat asbestos cement sheet	14			Chrysotile, amosite asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA07 - Physiotherapy	External	Ceilings to entry porches	Flat asbestos cement sheet	Similar to 14			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA07 - Physiotherapy	Internal	Hot water unit to staffroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA07 - Physiotherapy	Internal	Tops of ceilings	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition works.	
Building TA07 - Physiotherapy	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition works.	
Building TA07 - Physiotherapy	Internal	Boiler and pipework to south west boiler room (foundation level)	SMF insulation			16	SMF				Generally good condition, encapsulated.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

ENSR

AECOM

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA07 - Physiotherapy	Internal	Boiler and pipework to south west boiler room (foundation level)	Asbestos gaskets to flanged joints			16	Asbestos presumed	Bonded	HL1	Not labelled	Generally fully concealed , confirm presence prior to disposal.	
Building TA07 - Physiotherapy	Internal	Hot water pipework throughout foundation spaces.	SMF insulation			17	SMF			Not labelled	Good condition, encapsulated.	
Building TA08 - Rotary Hostel	Internal	Boiling water unit to kitchen	SMF insulation				SMF				Good condition, encapsulated.	
Building TA08 - Rotary Hostel	Internal	Tops of ceilings	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition works.	
Building TA08 - Rotary Hostel	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition works.	
Building TA09 - Rotary Lodge	External	Below verge tiles at ends of gable roofs	Asbestos cement sheet strips	Similar to 11			Asbestos presumed	Bonded	HL1	Labelling not required	Good condition, generally fully concealed.	
Building TA09 - Rotary Lodge	External	Eaves and gable overhangs	Flat asbestos cement sheet	Similar to 11			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA09 - Rotary Lodge	External	Verandah ceiling, south side	Flat asbestos cement sheet	11		20	Chrysotile, amosite asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA09 - Rotary Lodge	External	Electrical board in cabinet, north side	Flat bituminous sheet	12		21	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA09 - Rotary Lodge	Internal	Walls to kitchens and bathrooms	Flat asbestos cement sheet	Similar to 11			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted or concealed.	
Building TA09 - Rotary Lodge	Internal	Walls to laundry, south side	Flat asbestos cement sheet	Similar to 11			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA09 - Rotary Lodge	Internal	Tops of ceilings	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition works.	
Building TA10 - Ambulance Workshop	External	Fascia soffit to covered way, north side of workshop entry.	Flat asbestos cement sheet	15		24	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA10 - Ambulance Workshop	External	Fascia soffit, north side of lunchroom	Flat asbestos cement sheet	Similar to 15			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA10 - Ambulance Workshop	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Ceilings to office areas, main level.	Mineral fibre tiles				SMF				Generally good condition, undamaged.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA11 - Ward 11, Newer western portion	Internal	Boiling water unit to lunchroom, main level. TA1100040	SMF insulation				SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Boiling water unit to Hydrotherapy Sitting room. TA1100050	SMF insulation				SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Top of metal strip ceiling to Hydrotherapy Area.	SMF insulation				SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Boiler and hot water pipework, basement level boiler room.	SMF insulation			27	SMF				Good condition, encapsulated	
Building TA11 - Ward 11, Newer western portion	Internal	Hot water units (2) basement level boiler room	SMF insulation			28	SMF				Good condition, encapsulated	
Building TA11 - Original eastern portion	External	Eaves and porch ceiling linings to projecting north side wing	Flat asbestos cement sheet	44		29	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA11 - Original eastern portion	Internal	Walls to toilets, laundry, steriliser room, north wing at large Physiotherapy room. TA1100011	Flat asbestos cement sheet	42		30	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA11 - Original eastern portion	Internal	Walls to toilets, bathrooms at east end wards TA1100016	Flat asbestos cement sheet	43		31	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA11 - Original eastern portion	Internal	Boiling water unit to Patient Dining Room TA1100018	SMF insulation				SMF				Good condition, encapsulated	
Building TA11 - Original eastern portion	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA11 - Original eastern portion	Internal	Air conditioning ductwork in roof space	SMF insulation				SMF				Good condition, encapsulated	
Building TA11 - Original eastern portion	External	Fascias	Green paint	ST14			Lead				Good condition.	
Building TA12 - Palliative Care	External	Below verge tiles at ends of gable roofs	Asbestos cement sheet strips	Similar to 18			Asbestos presumed	Bonded	HL1	Labelling not required	Good condition, generally fully concealed.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

ENSR

AECOM

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA12 - Palliative Care	External	Eaves and gable overhangs	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal	Ceilings to Storeroom, Lobby, north side centre	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal	Ceilings to Laundry, Utility room, south side east end	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal	Ceiling to Visitors Toilet, shower, south east	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal	Ceiling to staff toilet south east	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal	Ceiling to lounge area, south east	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal, "Kameruka" Brain Injury Section	Ceiling linings to south side bathrooms	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal, "Kameruka" Brain Injury Section	Ceiling linings to kitchen, south side	Flat asbestos cement sheet	Similar to 18			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA12 - Palliative Care	Internal	Boiling water unit to Staff Lunchroom, north side centre	SMF insulation				SMF				Good condition, encapsulated	
Building TA12 - Palliative Care	Internal	Hot water pipework to foundation space.	SMF insulation				SMF				Good condition, encapsulated	


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Building TA12 - Palliative Care	Internal	Stored sheeting in foundation space	Corrugated asbestos cement sheet	16		33	Chrysotile, amosite asbestos	Bonded	HL2c		Isolated within foundation space, remove as soon as practical.	
Building TA12 - Palliative Care	Internal, Boiler Room, south east corner	Ceiling TA1200025	Flat asbestos cement sheet	18		34	Chrysotile, amosite, crocidolite asbestos	Bonded	HL2c		Generally good condition, minor damage at pipe penetration.	
Building TA12 - Palliative Care	Internal, Boiler Room, south east corner	Hot water manifold along east wall TA1200025	Asbestos lagging	17		35	Amosite asbestos	Friable	HL1	Not labelled	Good condition, encapsulated	
Building TA12 - Palliative Care	Internal, Boiler Room, south east corner	Calorifier, adjacent entry doors	Asbestos or SMF insulation			36	Asbestos or SMF		Unknown	Not labelled	Not accessed during the survey. Confirm insulation type prior to maintenance or disposal	
Building TA12 - Palliative Care	Internal, Boiler Room, south east corner	Hot water pipework throughout boiler room	SMF insulation				SMF				Good condition, encapsulated	
Building TA12 - Palliative Care	Internal, Boiler Room, south east corner	Manifold, calorifier, pipework	Asbestos gaskets to flanged joints				Asbestos presumed	Bonded	HL1	Not labelled	Generally fully concealed, confirm presence prior to disposal.	
Building TA12 - Palliative Care	Internal Generally	Top of ceilings	SMF insulation				SMF presumed				Fully concealed, confirm presence prior to any demolition	
Building TA12 - Palliative Care	Internal Generally	Air conditioning ductwork in roof space	SMF insulation				SMF presumed				Good condition, encapsulated	
Building TA12 - Palliative Care	Internal Generally	Hot water pipework to roof space	Possible asbestos lagging or residue				Asbestos presumed		Unknown		Not accessed during the survey. Confirm presence and/or condition when access available	
Building TA13 - Renal Unit	External	Below verge tiles at ends of gable roofs	Asbestos cement sheet strips	Similar to 58			Asbestos presumed	Bonded	HL1	Labelling not required	Good condition, generally fully concealed.	
Building TA13 - Renal Unit	External	Gable linings, east and north side roofs	Flat asbestos cement sheet	Similar to 58			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Wall linings, north side	Profiled asbestos cement sheet	58		38	Chrysotile, Amosite asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Wall linings, west end, north west corner (Renal Unit)	Profiled asbestos cement sheet	Similar to 58			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Wall linings to small recess, south side, west wing	Profiled asbestos cement sheet	Similar to 58		39	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Eaves linings, south side west wing	Flat asbestos cement sheet	Similar to 58		40	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Wall linings to recess, west side of south wing	Profiled asbestos cement sheet	Similar to 58			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	

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Building TA13 - Renal Unit	External	Eaves linings to south west wing	Flat asbestos cement sheet	Similar to 58			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Wall linings to narrow recess south end between south east and south west wings	Profiled asbestos cement sheet	Similar to 58			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA13 - Renal Unit	External	Wall linings to east side extension	Profiled asbestos cement sheet	Similar to 58		41	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA13 - Renal Unit	Internal	Hot water pipework to foundations, north west areas	SMF insulation				SMF				Good condition, encapsulated	
Building TA13 - Renal Unit	Internal, south wing	Wall and ceiling linings to south end toilets TA1300005	Flat asbestos cement sheet	59		42	Chrysotile, Amosite, asbestos	Bonded	HL1	Not labelled	Good condition, painted	
Building TA13 - Renal Unit	Internal, south wing	Ceilings to east side offices, south portion	Mineral fibre tiles				SMF				Generally good condition, undamaged	
Building TA13 - Renal Unit	Internal, south wing	Ceilings to east side offices, north portion	Possible asbestos cement sheet			43	Asbestos presumed	Bonded	HL1	Not labelled	Confirm presence prior to any demolition or building works.	
Building TA13 - Renal Unit	Internal, south wing	Head linings to beams east side offices	Flat asbestos cement sheet			43	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA13 - Renal Unit	Internal, south wing	Boiling water unit to east side lunchroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA13 - Renal Unit	Internal, Social Welfare Offices, north east corner	Ceiling to north end toilet	Flat asbestos cement sheet	Similar to 59			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA13 - Renal Unit	Internal, Social Welfare Offices, north east corner	Ceiling to north end kitchenette	Flat asbestos cement sheet	Similar to 59			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA13 - Renal Unit	Internal, Social Welfare Offices, north east corner	Boiling water unit to north end kitchenette	SMF insulation				SMF				Good condition, encapsulated.	
Building TA13 - Renal Unit	Internal, Social Welfare Offices, north east corner	Ceiling to one (1) north side office, adjacent kitchenette	Flat asbestos cement sheet	Similar to 59			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA13 - Renal Unit	Internal, Social Welfare Offices, north east corner	Wall linings to "Open Covered Area", east side	Profiled asbestos cement sheet	Similar to 58		44	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA13 - Renal Unit	Internal, Renal Wing, north west portion	Walls to staff toilet, south side	Flat asbestos cement sheet	Similar to 59			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted	
Building TA13 - Renal Unit	Internal, Renal Wing, north west portion	Boiling water unit to staff kitchenette, south side	SMF insulation				SMF				Good condition, encapsulated.	
Building TA13 - Renal Unit	Internal Generally	Underside of metal roofing	Foil backed SMF sarking				SMF presumed				Good condition, encapsulated.	
Building TA13 - Renal Unit	Internal Generally	Top of ceilings	SMF insulation				SMF presumed				Good condition, encapsulated.	
Building TA14 - Clinics Building	External, original north wing	Below verge tiles at ends of gable roofs	Asbestos cement sheet strips	Similar to 40			Asbestos presumed	Bonded	HL1	Labelling not required	Good condition, generally fully concealed.	
Building TA14 - Clinics Building	External, original north wing	Eaves and ceilings to porches	Flat asbestos cement sheet	40			Chrysotile, Amosite asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA14 - Clinics Building	External, original north wing	Hot water unit, north side at rear	SMF insulation				SMF				Good condition, encapsulated.	
Building TA14 - Clinics Building	Internal, original north wing	Walls to staff toilets, south side north wing	Flat asbestos cement sheet	Similar to 40			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA14 - Clinics Building	Internal, original north wing	Boiling water unit to kitchenette, front north east corner	SMF insulation				SMF				Good condition, encapsulated.	
Building TA14 - Clinics Building	Internal, generally	Hot water pipework to foundation spaces	SMF insulation				SMF				Good condition, encapsulated.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA14 - Clinics Building	Internal, generally	Top of ceilings	SMF insulation				SMF presumed				Good condition, encapsulated.	
Building TA14 - Clinics Building	Internal, generally	Air conditioning ductwork in roof spaces	SMF insulation				SMF presumed				Good condition, encapsulated.	
Building TA14 - Clinics Building	External	Roof fascias to original wing	Green paint	ST18			Lead				Good condition	
Building TA15 - Kitchen/Dining Room	Internal single storey wing, east side	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	External, main two storey wing, generally	Walling to south west access stair	Profiled asbestos cement sheet	56		50	Chrysotile, Amosite asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	External, main two storey wing, generally	Soffit to south west access stair	Flat asbestos cement sheet	Similar to 56			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA15 - Kitchen/Dining Room	External, main two storey wing, generally cont.	Hot water pipework, east side wall	SMF insulation			51	SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing generally	Electrical board to compressor enclosure, east side	Flat bituminous sheet			52	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing generally	Walling, ceiling, soffits to south west access stair	Flat asbestos cement sheet	53		53	Chrysotile, asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Ceilings to west side passage north and south ends	Flat asbestos cement sheet			54	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Metal clad pipes to west side passage at ceiling	Insulation (inaccessible)				Asbestos or SMF		HL1	Not labelled	Good condition. Confirm material type prior to any disturbance.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Boiling water units (2) to main kitchen area	SMF insulation			55	SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Fabric sheathed pipes to main kitchen area at ceiling level.	Asbestos lagging			56	Asbestos presumed	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Ceiling linings to staff toilet, west side, north end TA1500007	Flat asbestos cement sheet	51			Chrysotile, asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Wall linings to staff toilet	Flat asbestos cement sheet	Similar to 51			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Original wall linings to south end hot water cupboard TA1500018	Flat asbestos cement sheet	52			Chrysotile, amosite Asbestos	Bonded	HL2c	Not labelled	Isolated within cupboard, damaged edges required sealing.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Infill panels to windows to south end hot water cupboard	Flat asbestos cement sheet	Similar to 52			Asbestos presumed		HL1	Not labelled	Good condition, generally undamaged.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Larger hot water unit to south end hot water cupboard	SMF insulation			57	SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Hot water pipework to south end hot water cupboard	SMF insulation				SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, ground floor	Redundant fluorescent light capacitors to floor south end hot water cupboard	Metal canister type PCB capacitors			58	PCB presumed				Isolated within cupboard. Remove as soon as practicable.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, first floor	Ceiling to west side toilet	Flat asbestos cement sheet	Similar to 51			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, first floor	Ceiling to kitchen servery area	Flat asbestos cement sheet	Similar to 51			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, first floor	Boiling water unit to staff dining room	SMF insulation				SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, roof space	Top of perforated plaster ceiling tiles throughout	SMF insulation				SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, roof space	Hot water pipes	SMF insulation			59	SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, roof space	Air conditioning ductwork	SMF insulation			60	SMF				Good condition, encapsulated.	
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, roof space	Large hot water unit, south end	SMF insulation				SMF				Good condition, encapsulated.	



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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA15 - Kitchen/Dining Room	Internal, main two storey wing, roof space	Control panel to lift motor room	Possible asbestos backing board			62	Asbestos presumed		Unknown		Not accessed during the survey. Confirm presence prior to disturbance or disposal.	
Building TA15 - Kitchen/Dining Room	Internal Generally	Hot water pipes to foundation spaces	Asbestos rope insulation			63	Asbestos presumed		Unknown	Not labelled	Not accessed during the survey. Isolated in foundations. Remove if likely to be disturbed.	
Building TA15 - Kitchen/Dining Room	Internal Generally	Fluorescent light fittings	Metal canister type PCB capacitors				PCB presumed				Generally good condition. Confirm presence prior to disposal.	
Building TA15 - Kitchen/Dining Room	Internal Generally	Walls to main kitchen, ground floor TA1500006	White paint	ST20			Lead				Good condition.	
TA16 - Area Stores Building	Internal	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated.	
TA16 - Area Stores Building	Internal	Hot water unit to mezzanine level	SMF insulation				SMF				Good condition, encapsulated.	



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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA17 - Domestic Services	External	Roofing	Corrugated asbestos cement sheet	Similar to 36			Asbestos presumed	Bonded	HL2c	Not labelled	Fair condition, moderately weathered.	
Building TA17 - Domestic Services	External	Roof ridge cappings and barge moulds	Moulded asbestos cement	Similar to 36		66	Asbestos presumed	Bonded	HL2c	Not labelled	Fair condition, moderately weathered.	
Building TA17 - Domestic Services	External	Walling, north, south and east sides	Corrugated and flat asbestos cement sheet	36		66, 67, 68	Chrysotile, Amosite, asbestos	Bonded	HL2c	Not labelled	Painted, fair/poor condition only, damaged in numerous locations at corners and base of sheets.	
Building TA17 - Domestic Services	External	West wall to covered walkway	Possible asbestos cement sheet behind brick work				Asbestos presumed	Bonded if present	Unknown		Not accessed during the survey. Confirm presence prior to any disturbance or demolition.	
Building TA17 - Domestic Services	External	Ceiling to north end verandah	Flat asbestos cement sheet	37			Chrysotile, Amosite, asbestos	Bonded	HL1	Not labelled	Good condition, painted	
Building TA17 - Domestic Services	External	Foundation spaces and at perimeter of building	Broken asbestos cement sheet	Similar to 36			Asbestos presumed	Bonded	HL2a	Not labelled	Remove fragments at perimeter as a priority. Remainder isolated within foundations.	
Building TA17 - Domestic Services	External	Pipework to foundations spaces	SMF insulation				SMF				Generally good condition. Isolated within foundations.	
Building TA17 - Domestic Services	Internal	Boiling water unit to staff lunchroom, north end	SMF insulation				SMF				Good condition, encapsulated	
Building TA17 - Domestic Services	Internal	Top of ceilings throughout	SMF insulation				SMF				Good condition, isolated within roof space.	
Building TA17 - Domestic Services	Internal	Wall cavities to external walls	SMF insulation				SMF				Generally isolated within wall cavities	
Building TA17 - Domestic Services	External	Walls	Green paint	ST23			Lead				Good condition	
Building TA17 - Domestic Services	External	Window sills and frames	White paint	ST24			Lead				Fair to poor condition, flaking	
Building TA18 - Wards 8, 9 and 10	External	Eaves linings to each wing	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA18 - Wards 8, 9 and 10	External	Ceilings linings to porches	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA18 - Wards 8, 9 and 10	External	Ceiling to garden bed, west end, north west extension	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA18 - Wards 8, 9 and 10	External	Recess in ground north side of south wing	Possible asbestos lagged pipework				Asbestos presumed	Friable if present	Unknown		Not accessed during the survey. Confirm presence when access available.	
Building TA18 - Wards 8, 9 and 10	Internal, hot water room, north side	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, hot water room, north side	Hot water units (3)	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, plantroom west end of south wing	Plant and equipment throughout	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, plantroom west end of south wing	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, plantroom west end of south wing	Fire doors at entry	Asbestos core material	83		72	Chrysotile, Amosite asbestos	Bonded	HL2c	Not labelled	Generally good condition. Minor damage at lock.	
Building TA18 - Wards 8, 9 and 10	Internal, boiler room, south side	Boilers (2)	SMF insulation			73	SMF				Partially exposed where portions removed.	
Building TA18 - Wards 8, 9 and 10	Internal, boiler room, south side	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated.	




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Building TA18 - Wards 8, 9 and 10	Internal, boiler room, south side	Small electrical board on wall	Flat bituminous sheet			74	Asbestos presumed		HL1	Not labelled	Good condition, undamaged.	
Building TA18 - Wards 8, 9 and 10	Internal, boiler room, south side	Ground surfaces to adjoining foundations	Loose SMF insulation				SMF				Isolated within foundations. Remove as soon as practicable.	
Building TA18 - Wards 8, 9 and 10	Internal, North Wing	Boiling water unit to kitchenette, east end adjacent reception	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, North Wing	Lift motor room	Possible asbestos arc shields, backing boards and brake shoes				Asbestos presumed	Bonded if present	Unknown		Not accessed during the survey. Confirm presence when access available.	
Building TA18 - Wards 8, 9 and 10	Internal, south and south west wings	Boiling water unit to kitchenette south side of centre passage	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, lower ground floor, children's ward	Ceilings to some wards and rooms	Mineral fibre tiles				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, lower ground floor, children's ward	Boiling water unit to north east corner staff lunchroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal, north west accommodation wing	Boiling water unit to kitchen	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal roof spaces	Air conditioning ductwork	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal roof spaces	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal roof spaces	Top of some ceilings	SMF insulation				SMF				Good condition, encapsulated.	
Building TA18 - Wards 8, 9 and 10	Internal foundation spaces	Hot water pipework	SMF insulation where able to be sighted				SMF				Generally good condition, encapsulated. Some loose insulation on ground surface.	
Building TA19 - 1883 Building	External	Roofing to south east projecting wing	Asbestos cement shingle tiles			76	Asbestos presumed	Bonded	HL2c	Not labelled	Generally good condition. Moderately weathered, several tiles dislodged.	
Building TA19 - 1883 Building	External	Linings at step in roof level, south side at main entrance	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	External	Spandrel panel to one window, south west projecting wing	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	

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Building TA19 - 1883 Building	External	Upper and lower walling to verandah west end, south side	Flat asbestos cement sheet	Similar to 76		78	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	External	Walling to enclosed verandah, north side, east end	Flat asbestos cement sheet	76		79	Chrysotile, Amosite, Crocidolite asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	External	Walling and eaves to south east extension at Building TA20	Flat asbestos cement sheet	Similar to 76			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	External	Walling to enclosed verandah, north side, west end	Profiled asbestos cement sheet	78			Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	External	Hot water pipework above roofs and enclosed verandahs	Asbestos lagging	Similar to 77		75	Asbestos presumed	Friable	HL1	Not labelled	Generally good condition, encapsulated.	

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Building TA19 - 1883 Building	Internal foundations, south side	Ground surfaces	Loose SMF insulation				SMF				Isolated within foundations. Remove as soon as practicable.	
Building TA19 - 1883 Building	Internal, plantroom foundations, east end	Electrical board to store/lobby	Flat bituminous sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA19 - 1883 Building	Internal, plantroom foundations, east end	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated.	
Building TA19 - 1883 Building	Internal, boiler room east end	Boiler and calorifier	Asbestos lagging	77		80	Amosite asbestos	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA19 - 1883 Building	Internal, boiler room east end	Majority of hot water pipework	Asbestos lagging	Similar to 77		81	Asbestos presumed	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA19 - 1883 Building	Internal, boiler room east end	Small portion of hot water pipework	SMF insulation				SMF				Good condition, encapsulated.	
Building TA19 - 1883 Building	Internal, east half of building	Ceiling to medical records, east end	Mineral fibre tiles				SMF				Generally good condition, undamaged.	
Building TA19 - 1883 Building	Internal, east half of building	Wall and ceiling linings to kitchen/lunchroom, north east corner	Prefinished asbestos cement sheet	80		82	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA19 - 1883 Building	Internal, east half of building	East wall of store adjoining kitchen/lunchroom	Flat asbestos cement sheet	Similar to 80			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	Internal, east half of building	Walling to toilet lobby, off north east kitchen	Flat asbestos cement sheet	Similar to 80			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	Internal, east half of building	Portion of walling, north east toilet areas	Flat asbestos cement sheet	Similar to 80			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA19 - 1883 Building	Internal, east half of building	Walling to lobby, east end of verandah	Flat asbestos cement sheet	Similar to 80			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	Internal, east half of building	Boiling water unit to lunchroom, executive offices, south east wing	SMF insulation				SMF				Good condition, encapsulated.	
Building TA19 - 1883 Building	Internal, east half of building	Ceilings to rural critical care	Mineral fibre tiles				SMF				Generally good condition, undamaged.	
Building TA19 - 1883 Building	Internal, east half of building	Boiling water unit to Rural critical care, east end passage	SMF insulation				SMF				Good condition, encapsulated.	
Building TA19 - 1883 Building	Internal, west half of building	Window spandrel and head panels, west end passage	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA19 - 1883 Building	Internal, west half of building	Ceilings to north west offices	Mineral fibre tiles				SMF				Generally good condition, undamaged	
Building TA19 - 1883 Building	Internal, west half of building	Boiling water unit to kitchen, north west offices	SMF insulation				SMF				Good condition, encapsulated	
Building TA19 - 1883 Building	Internal, main electrical room, accessed externally	Electrical backing boards (7 to 8)	Flat bituminous sheet			83	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged	
Building TA19 - 1883 Building	Internal, main electrical room, accessed externally	Small wall panels to south wall (4)	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged	
Building TA19 - 1883 Building	Internal, main electrical room, accessed externally	Pipework to walls	Asbestos lagging				Asbestos presumed	Friable	HL1	Not labelled	Good condition, encapsulated	
Building TA19 - 1883 Building	Internal, foundation spaces	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated	
Building TA19 - 1883 Building	Internally generally	Typical walls	Cream paint	ST25			Lead				Generally good condition.	
Building TA20 - Brudelin Wing, Main Original Portion	External	Roofing to main entrance awning, south side	Bituminous sheet	Similar to 88			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lift motor room (roof level 1)	Brake shoes to lift motors	Moulded composite material			85	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged. Confirm when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lift motor room (roof level 1)	Fire door at entrance	Asbestos core material	87			Amosite asbestos	Friable	HL1	Not labelled	Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Flooring throughout	Bituminous sheet	88		86	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Hot water tanks BWR-P18, BWR-P19 (south end)	Asbestos or SMF (inaccessible)			87	Asbestos or SMF presumed		Unknown	Not labelled	Not accessed during the survey. Confirm insulation type when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Pipework at rear of tanks BWR-P18, BWR-P19	Asbestos rope insulation	89		88	Chrysotile asbestos	Friable	HL1	Not labelled	Generally undamaged, sealed with paint. Isolated location.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Hot water pipework throughout, fabric sheathed (red)	Asbestos lagging	90		89	Amosite asbestos	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Hot water pipework throughout, metal sheathed (red)	SMF insulation			89	SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level)	Interior of air plenum chambers and ductwork	SMF insulation				SMF				Good condition, encapsulated.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, plantroom (roof level) cont.	Interior of ductwork at heating elements	Asbestos millboard insulation				Asbestos presumed	Friable if present	Unknown	Not labelled	Not accessed during the survey. Confirm presence/condition when access available.	
Building TA20 - Brudelin Wing, Main Original Portion		Cooling towers north end (2)	Fibreglass construction			90	SMF				Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion		Typical plant and equipment	Green paint	ST26			Lead				Generally good condition, minor flaking.	
Building TA20 - Brudelin Wing, Main Original Portion		Typical ductwork	Yellow paint	ST27			Lead				Good condition.	
Building TA20 - Brudelin Wing, Main Original Portion		Fluorescent light fittings	Metal type capacitors presumed				PCB presumed				Good condition. Confirm presence prior to disposal.	
Building TA20 - Brudelin Wing, Main Original Portion	External, level 2	Below concrete pavers to west side balconies	Bituminous membrane presumed	Similar to 88			Asbestos presumed	Bonded if present	HL1 if present	Not labelled	Fully concealed. Confirm presence prior to any disturbance.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Top of plaster acoustic ceiling tiles.	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Air conditioning ductwork in ceiling spaces	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Air conditioning ductwork in riser shafts	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Boiling water units to staff kitchenettes	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Electrical cabinets in electrical cupboards	Asbestos backing boards or mounting strips			91	Asbestos presumed	Bonded if present	HL1 if present	Not labelled	Isolated within cabinets. Confirm presence when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Backing boards in electrical cupboards TA2002016	Flat bituminous sheet	91		91	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Hot water pipework to ceiling spaces (various locations)	Asbestos lagging	Similar to 92			Asbestos presumed	Friable	HL2c	Not labelled	Damaged and/or exposed in numerous locations. Access under controlled conditions only where present.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 2 ward areas	Top of ceilings adjacent to asbestos lagged pipes	Dislodged/ residue asbestos lagging	Similar to 93			Asbestos presumed	Friable	HL2b		Access under controlled conditions only where present.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 1 ward areas	Top of plaster acoustic ceiling tiles.	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 1 ward areas	Air conditioning ductwork in ceiling spaces	SMF insulation				SMF				Good condition, encapsulated.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 1 ward areas	Air conditioning ductwork in riser shafts	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 1 ward areas	Boiling water units to staff kitchenettes	SMF insulation			92	SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, level 1 ward areas	Electrical cabinets in electrical cupboards	Asbestos backing boards or mounting strips				Asbestos presumed	Bonded if present	HL1 if present	Not labelled	Isolated within cabinets. Confirm presence when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, Level 1 ward areas	Backing boards in electrical cupboards	Flat bituminous sheet	Similar to 91			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged,	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, Level 1 ward areas	Hot water pipe work to ceiling spaces (various locations)	Asbestos lagging	Similar to 92			Asbestos presumed	Friable	HL2c	Not labelled	Damaged and/or exposed in a number of locations. Access under controlled conditions only where present.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, Level 1 ward areas	Top of ceilings adjacent to lagged pipes	Dislodged/ residue asbestos lagging	Similar to 93			Asbestos presumed	Friable	HL2b		Access under controlled conditions only where present.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, Level 1 ward areas	Ceilings to Acute Care Unit	Mineral fibre tiles				SMF				Generally good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, upper ground floor, theatre areas, chapel	Ceiling to day surgery passageway	Mineral fibre tiles				SMF				Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, upper ground floor, theatre areas, chapel	Top of plaster acoustic ceiling tiles.	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, upper ground floor, theatre areas, chapel	Air conditioning ductwork to riser shafts and ceiling spaces	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, upper ground floor, theatre areas, chapel	Boiling water units to staff kitchenettes	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, upper ground floor, theatre areas, chapel	Older/Original electrical cabinets	Asbestos backing boards or mounting strips				Asbestos presumed	Bonded if present	HL1 if present	Not labelled	Isolated within cupboards. Confirm presence when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, upper ground floor, theatre areas, chapel	Hot water pipework to ceiling spaces	Asbestos lagging and/or contamination presumed - inaccessible	Similar to 92 and 93			Asbestos presumed	Friable if present	HL2b, c presumed		Ceiling spaces inaccessible. Asbestos lagging and/or contamination presumed similar to levels 1 and 2. Access under controlled conditions until presence confirmed.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Ceilings to some rooms, including ultra sound room 2	Mineral fibre tiles				SMF				Good condition, undamaged.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Top of plaster acoustic ceiling tiles, including to main entry and x-ray, imaging	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Air conditioning ductwork to riser shafts and ceiling spaces	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Boiling water units to staff kitchenettes	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Older/Original electrical cabinets	Asbestos backing boards or mounting strips				Asbestos presumed	Bonded if present	HL1 if present	Not labelled	Isolated with cabinets. Confirm presence when access available.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Backing boards in electrical cupboards	Flat bituminous sheet	Similar to 91			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Hot water pipework to ceiling spaces, including to ultra sound room 2 (various)	Asbestos lagging	92		93, 94	Amosite asbestos	Friable	HL2c	Not labelled	Damaged and/or exposed in numerous locations. Access under controlled conditions only where present.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor, main entry, x-ray imaging.	Top of ceilings adjacent asbestos lagged pipes	Dislodged/ residue asbestos lagging	93			Amosite asbestos	Friable	HL2b		Access under controlled conditions only where present.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal Generally	Interior of air conditioning ductwork at heating elements	Asbestos millboard insulation				Asbestos presumed	Friable if present	Unknown	Not labelled	Not accessed during the survey. Confirm presence/condition when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal Generally	Older/original fluorescent light fittings	Metal type capacitors presumed				PCB presumed				Generally good condition. Confirm presence prior to disposal.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Hot water pipes across east side passage	Asbestos rope insulation			95	Asbestos presumed	Friable	HL1	Not labelled	Good condition, generally undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Hot water pipes (green) south end of entry passage	Asbestos lagging				Asbestos presumed	Friable	HL2c	Not labelled	Generally good condition, minor exposure at ends.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Fire doors to east side entry	Asbestos core material				Asbestos presumed	Friable	HL1	Not labelled	Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Hot water pipework throughout, including to manifolds and calorifiers (red, silver, green) TA2001120	Asbestos lagging or insulation	94		96, 97	Amosite asbestos	Friable	HL1	Not labelled	Generally good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Gaskets to joints to pipework and equipment TA2001120	Asbestos gaskets	95			Chrysotile asbestos	Bonded	HL1	Not labelled	Generally good condition, concealed within joints.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Interior of air conditioning ductwork and equipment a heating elements	Asbestos millboard insulation				Asbestos presumed	Friable if present	Unknown	Not labelled	Not accessed during the survey. Confirm presence/condition when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Interior of air plenum chambers and ductwork	SMF insulation				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Small quantity of hot water pipework	SMF insulation				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, lower ground floor plant areas	Hot water unit south east corner	SMF insulation				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Hot water pipe work to various locations, including to manifolds (red grey)	Asbestos lagging or insulation	96		98, 99	Amosite asbestos	Friable	HL1, HL2b	Not labelled	Majority good condition, encapsulated. Damaged/exposed in several locations.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Gaskets to joints to pipework and equipment	Asbestos gaskets	Similar to 95			Asbestos presumed	Bonded	HL1	Not labelled	Generally good condition, concealed within joints.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Interior of air conditioning ductwork and equipment a heating elements	Asbestos millboard insulation				Asbestos presumed	Friable if present	Unknown	Not labelled	Not accessed during the survey. Confirm presence/condition when access available.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Interior of air plenum chambers and ductwork	SMF insulation				SMF				Good condition, encapsulated.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, main floor level	Ceilings	Mineral fibre tiles				SMF				Good condition, undamaged.	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, main floor level	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, main floor level	Air conditioning ductwork to riser shafts and ceiling spaces	SMF insulation				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, main floor level	Boiling water units to staff kitchenettes	SMF insulation				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Interior of air plenum chambers and ductwork	SMF insulation				SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Ductwork to foundation spaces	Foil backed SMF insulation			101	SMF				Good condition, encapsulated	
Building TA20 - Brudelin Wing, Main Original Portion	Internal, basement plant areas	Interior of air conditioning units to south side of entry dock	SMF insulation				SMF				Good condition, encapsulated	





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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA21 - Workshop/Linen Services	External, southern and centre portions	Facia soffits	Flat asbestos cement sheet	68		103	Chrysotile asbestos	Bonded	HL1	Not labelled	Painted, generally undamaged. Some panels require resealing.	
Building TA21 - Workshop/Linen Services	External, southern and centre portions	Ceilings to walkways and breezeways	Flat asbestos cement sheet	Similar to 68		104	Asbestos presumed	Bonded	HL1	Not labelled	Generally in good condition. One panel damaged adjacent workshop offices.	
Building TA21 - Workshop/Linen Services	External, southern and centre portions	Hot water pipework to portions of walkways and breezeways	Asbestos lagging	Similar to 70		105	Asbestos presumed	Friable	HL1	Labelled	Generally good condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal, west side offices and amenities	Hot water pipework extending around walls and through ceiling spaces	Asbestos lagging	Similar to 70		106	Asbestos presumed	Friable	HL1	Labelled	Generally good condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal, west side offices and amenities	Boiling water unit to Staff Lunch room	SMF Insulation			107	SMF				Good condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal, south side workshops	Hot water pipework extending around walls and at ceiling level TA2100001	Asbestos lagging	70			Amosite asbestos	Friable	HL1	Labelled	Generally good condition, encapsulated. Requires repair in cupboard to Bio- Medical Workshop	
Building TA21 - Workshop/Linen Services	Internal, south side workshops	Ceiling to drafting office and passageway	Mineral fibre tiles				SMF				Generally good condition, undamaged	
Building TA21 - Workshop/Linen Services	Internal, south side workshops	Electrical cupboards to carpenters workshop TA2100001	Bituminous backing board				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main boiler, engineering and plant areas	Hot water pipework extending around walls and at ceiling soffits	Asbestos lagging	Similar to 70			Asbestos presumed	Friable	HL1	Labelled		
Building TA21 - Workshop/Linen Services	Internal, centre portion, main boiler, engineering and plant areas	Manifold to west end store room	Asbestos lagging	Similar to 70		108	Asbestos presumed	Friable	HL1	Not labelled	Generally good condition, encapsulated	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA21 - Workshop/Linen Services	Internal, centre portion, main boiler, engineering and plant areas	Electrical backing boards, adjacent generators (2)	Bituminous backing board			109	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main Boiler Room, east end	Hot water and boiling water pipework throughout	Asbestos lagging	Similar to 70		110	Asbestos presumed	Friable	HL1	Labelled	Generally good condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main Boiler Room, east end	Pipe manifold south side	Asbestos lagging	Similar to 70		111	Asbestos presumed	Friable	HL1	Not labelled	Generally good condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main Boiler Room, east end	Gaskets to joints to pipework, boilers and equipment	Asbestos gaskets	Similar to 95			Asbestos presumed	Bonded	HL1	Not labelled	Generally good condition, concealed within joints	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main Boiler Room, east end	Boilers	SMF Insulation			112	SMF				Good Condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main Boiler Room, east end	Brick support walls to boilers	Asbestos rope caulking to control joints				Asbestos presumed	Bonded			Confirm presence when access available	
Building TA21 - Workshop/Linen Services	Internal, centre portion, main Boiler Room, east end	Main electrical control cabinets	Asbestos backing boards and arc shields presumed				Asbestos presumed	Bonded if present	HL1		Confirm presence when access available	
Building TA21 - Workshop/Linen Services	External Laundry Services	Ceiling to west side loading dock.	Asbestos cement ceiling tiles presumed				Asbestos presumed	Bonded	HL1	Not labelled	Good condition undamaged	
Building TA21 - Workshop/Linen Services	Internal Laundry Services Northern Portion	Typical walling to sorting dock, inner portion, north, south and west walls TA2101020	Flat asbestos cement sheet	74			Chrysotile amosite asbestos	Bonded	HL2c	Not labelled	Generally good condition, some minor damage at base of walls requires repair	
Building TA21 - Workshop/Linen Services	Internal Laundry Services Northern Portion	Ceiling to sorting dock	Flat asbestos cement sheet to inner portions similar to walls	Similar to 74			Asbestos presumed to inner portion	Bonded	HL1	Not labelled	Good condition, undamaged	
Building TA21 - Workshop/Linen Services	Internal Laundry Services Northern Portion	Boiling water unit to Lunch room	SMF Insulation				SMF				Good condition, encapsulated	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA21 - Workshop/Linen Services	Internal Laundry Services Northern Portion	Top of ceiling to pre - fold oven area	SMF Insulation				SMF				Good condition, encapsulated	
Building TA21 - Workshop/Linen Services	Internal Laundry Services Northern Portion	Main electrical switch cupboard	Bituminous backing board				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged	
Building TA21 - Workshop/Linen Services	Internal Laundry Services Northern Portion	Ceiling to main electrical switch room cupboard	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged	
Building TA21 - Workshop/Linen Services	Internal Generally	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, undamaged	
Building TA21 - Workshop/Linen Services	Internal Generally	Older/Original fluorescent light fittings	Metal type capacitors presumed				PCB presumed				Good condition, undamaged	
Building TA22 - Mortuary	External	Walling, north end at vehicle dock TA2200001	Flat asbestos cement sheet	21		117	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA22 - Mortuary	Internal	Underside of roofing	SMF insulation				SMF				Good condition, encapsulated	
Building TA22 - Mortuary	Internal	Wall cavities	SMF insulation				SMF presumed				Good condition, encapsulated	
Building TA22 - Mortuary	External	Timber weatherboards and windows	Brown paint	ST31			Lead				Good condition.	
Building TA23 - Car Pool	Internal, north area	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated.	
Building TA24 - Dean House	Internal, basement plantroom, south west corner	Hot water pipework	SMF insulation				SMF				Good condition, encapsulated	
Building TA24 - Dean House	Internal, basement plantroom, south west corner	Hot water unit	SMF insulation				SMF				Good condition, encapsulated	
Building TA24 - Dean House	Internal, ground floor	Ceiling to north east corner office	Mineral fibre tiles				SMF				Good condition, undamaged.	
Building TA24 - Dean House	Internal, ground floor	Ceilings to west side offices	Mineral fibre tiles				SMF				Good condition, undamaged.	
Building TA24 - Dean House	Internal, ground floor	Boiling water unit to kitchen north west corner	SMF Insulation				SMF				Good condition, encapsulated	
Building TA24 - Dean House	Internal, first floor	Ceiling to north side enclosed verandah	Flat asbestos cement sheet			121	Asbestos presumed	Bonded	HL2c	Not labelled	Generally good condition. Edges of sheeting require sealing at vents.	

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Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA24 - Dean House	Internal, first floor	Ceilings to east and west end enclosed verandahs	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA24 - Dean House	Internal, first floor	Boiling water unit to staff kitchen	SMF insulation				SMF				Good condition, encapsulated	
Building TA24 - Dean House	Internal, roof and ceiling spaces	Air conditioning ductwork	SMF insulation				SMF				Good condition, presumed - inaccessible.	
Building TA24 - Dean House	Internal, roof and ceiling spaces	Top of first floor ceilings	SMF insulation				SMF				Possible SMF insulation - inaccessible.	
Building TA25 - Blood Bank	External original west portion	Roofing	Bituminous sheet	25		123	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA25 - Blood Bank	External original west portion	Sub-strate to roofing	Possible flat asbestos cement sheet				Asbestos presumed	Bonded if present	Unknown		Not accessed during the survey. Confirm presence prior to any disturbance or disposal.	
Building TA25 - Blood Bank	Internal, original west portion	Boiling water unit to north side kitchenette	SMF insulation				SMF				Good condition, encapsulated.	
Building TA25 - Blood Bank	Internal, original west portion	Ceiling linings to north side plantroom TA2500014	Flat asbestos cement sheet	27			Chrysotile, Amosite, asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA25 - Blood Bank	Internal, original west portion	Air conditioning plant and ductwork to north side plantroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA25 - Blood Bank	Internal, original west portion	Hot water unit to north side plantroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA25 - Blood Bank	Internal, east extension	Boiling water unit to east end kitchenette	SMF insulation				SMF				Good condition, encapsulated.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA25 - Blood Bank	Internal, east extension	Underside of roofing	SMF insulation				SMF presumed				Good condition isolated in roof space.	
Building TA25 - Blood Bank	Internal, east extension	Top of ceilings	SMF insulation				SMF presumed				Good condition isolated in roof space.	
Building TA26 - Johnston House	External	Window spandrel panels	Flat asbestos cement sheet - presumed			127	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	External	Sealant to outer edges of window frames	Putty caulking	60		127	Chrysotile asbestos	Bonded	HL1	Not labelled	Generally good condition, concealed within joints.	
Building TA26 - Johnston House	External	Roofing to concrete roofs, hoods and awnings	Bituminous sheet	64		128	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	External	Eaves linings to projecting north wing	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Superimposed linings to walls of passageways	Painted vinyl tiles	61			Chrysotile, asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Ceilings to bathrooms, east and west wings	Prefinished flat asbestos cement sheet			129	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Flooring to utility room, north wing TA2602052	Vinyl floor tiles	62		130	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Superimposed linings to walls of utility room	Vinyl tiles	Similar to 62			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Flooring to linen store, north wing	Vinyl floor tiles	Similar to 62			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Superimposed linings to walls of laundry	Vinyl tiles	Similar to 62			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Ceiling to laundry	Prefinished flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Electrical cabinet to main switch board cupboard	Likely asbestos backing boards or mounting strips			131	Asbestos presumed	Bonded if present	HL1	Not labelled	Confirm presence when access available.	
Building TA26 - Johnston House	Internal, second floor	Ceiling to main switch board cupboard	Flat asbestos cement sheet				Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Flooring to lobbys to bathrooms TA2602013	Vinyl floor tiles	63			Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA26 - Johnston House	Internal, second floor	Superimposed linings to walls to lobbys of bathrooms	Vinyl tiles	Similar to 63			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, second floor	Boiling water unit to staff kitchenette	SMF insulation				SMF				Good condition, encapsulated	
Building TA26 - Johnston House	Internal, first floor	Ceilings to various locations, including passageways, offices, kitchens, reception	Mineral fibre tiles				SMF				Generally good condition, undamaged.	
Building TA26 - Johnston House	Internal, first floor	Superimposed linings to walls in some locations, including to stair	Vinyl tiles	Similar to 63			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, first floor	Boiling water units to kitchens	SMF insulation				SMF				Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, ground floor	Ceilings to various locations	Mineral fibre tiles				SMF				Good condition, undamaged.	
Building TA26 - Johnston House	Internal, ground floor	Boiling water units to kitchens	SMF insulation				SMF				Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, basement level, east wing	Ceilings to east end offices	Mineral fibre tiles				SMF				Good condition, undamaged.	
Building TA26 - Johnston House	Internal, basement level, east wing	Boiling water unit to kitchenette, east end offices	SMF insulation				SMF				Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, basement level, east wing	Electrical backing boards to west end lobby and plant/boiler room TA2631007	Flat bituminous sheet	65		132	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA26 - Johnston House	Internal, basement level, east wing	Hot water pipework in foundation spaces	Asbestos lagging	66		133	Amosite asbestos	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, basement level, east wing	Hot water pipework to ceiling spaces generally	Asbestos lagging	Similar to 66		134	Asbestos presumed	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, basement level, east wing	Hot water pipework and calorifier to plant/boiler room	Asbestos lagging	Similar to 66		135	Asbestos presumed	Friable	HL1	Not labelled	Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, basement level, east wing					136	Asbestos presumed					
Building TA26 - Johnston House	Internal, basement level, east wing	Hot water pipework extending through main switchroom	Asbestos lagging	Similar to 66			Asbestos presumed	Friable	HL1	Not labelled	Good condition, encapsulated.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA26 - Johnston House	Internal, basement level, east wing	Gaskets to joints to boiler, pipes, calorifier TA2631009	Asbestos gaskets to flanged joints	67		137	Chrysotile asbestos	Bonded	HL1	Not labelled	Generally good condition, concealed within joints.	
Building TA26 - Johnston House	Internal, basement level, east wing	Boiler	SMF insulation presumed inaccessible			137	SMF presumed				Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, generally	Hot water pipework to ceiling spaces and riser shafts	Asbestos lagging presumed	Similar to 66			Asbestos presumed	Friable if present	Unknown		Not accessed during the survey. Confirm extent and condition when access available. Access with caution.	
Building TA26 - Johnston House	Internal, generally	Air conditioning ductwork	SMF insulation				SMF				Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, generally	Top of some ceilings, second floor	SMF insulation				SMF				Good condition, encapsulated.	
Building TA26 - Johnston House	Internal, generally	Older/original fluorescent light fittings	Metal type capacitors presumed				PCB presumed				Generally good condition, confirm presence prior to disposal.	
Building TA27 - Dental Clinic	Internal	Boiling water unit to west end lunchroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA27 - Dental Clinic	Internal	Top of ceilings	SMF insulation				SMF				Good condition, encapsulated.	
Building TA27 - Dental Clinic	Internal	Air conditioning ductwork	SMF insulation				SMF				Good condition, encapsulated.	
Building TA28 - Pathology New England	External	Fascia soffits	Flat asbestos cement sheet	29		141	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA28 - Pathology New England	External	Ceilings to entry porches	Flat asbestos cement sheet	Similar to 29			Asbestos presumed	Bonded	HL1		Good condition, painted.	
Building TA28 - Pathology New England	Internal	Walls and ceiling to west end office	Mineral fibre tiles				SMF				Generally good condition, undamaged.	
Building TA28 - Pathology New England	Internal	Boiling water unit to staff lunchroom	SMF insulation				SMF				Good condition, encapsulated.	
Building TA28 - Pathology New England	Internal	Pipework to floor service channels	SMF insulation				SMF				Good condition, encapsulated.	
Building TA28 - Pathology New England	Internal, roof spaces	Underside of roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated.	
Building TA28 - Pathology New England	Internal, roof spaces	Top of ceilings	SMF insulation				SMF				Good condition, isolated in roof space.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA28 - Pathology New England	Internal, roof spaces	Air conditioning ductwork	SMF insulation				SMF				Good condition, encapsulated.	
Building TA29 - Pathology Plantroom	External	Fascia soffits, south, east and west sides	Flat asbestos cement sheet	Similar to 29			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Ceiling	Flat asbestos cement sheet	Similar to 29		146	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Main electrical control cabinets, north wall	Flat bituminous sheet backing boards			145	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, undamaged.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Flue to gas hot water unit TA2900001	Asbestos cement pipe	33		146	Chrysotile asbestos	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Flue to boiler north west corner	Asbestos cement pipe	Similar to 33		147	Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Hot water unit and boiler	SMF insulation				SMF				Good condition, encapsulated.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Hot water pipework throughout	SMF insulation				SMF				Good condition, encapsulated.	
Building TA29 - Pathology Plantroom	Internal, plantroom south side	Boiler and hot water pipework	Possible asbestos gaskets to flanged joints.				Asbestos presumed	Bonded if present	HL1	Not labelled	Generally fully concealed, confirm presence prior to disposal.	
Building TA29 - Pathology Plantroom	Internal, storeroom, north side	Ceiling	Flat asbestos cement sheet	Similar to 29			Asbestos presumed	Bonded	HL1	Not labelled	Good condition, painted.	
Building TA29 - Pathology Plantroom	Internal, roof spaces	Underside of roofing	SMF insulation				SMF presumed		HL0		Good condition, isolated within roof space.	
Building TA30- Flammable Liquid Store	External	Roof vents	Possible "Galbestos" paint finish			149	Asbestos presumed	Bonded	HL1	Not labelled	Good condition. Confirm presence when access available.	
Building TA30- Flammable Liquid Store	External	Fire door to entry south side	Possible asbestos core material				Asbestos presumed	Friable if present	HL1	Not labelled	Good condition. Confirm presence prior to disturbance or disposal.	
Building TA34 - Staff Accommodation	Internal	Hot water unit to laundry	SMF insulation				SMF				Good condition, encapsulated.	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

ENSR

AECOM

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
Building TA34 - Staff Accommodation	Internal, roof spaces	Underside of roofing	Foil backed SMF sarking				SMF presumed				Good condition, encapsulated.	
Building TA34 - Staff Accommodation	Internal, roof spaces	Air conditioning ductwork	SMF insulation				SMF				Good condition, encapsulated.	
Building TA35 - UDRH	Internal Roof level plantroom	Air plenums and air conditioning duct work	SMF Insulation				SMF				Good condition, encapsulated	
Building TA35 - UDRH	Internal Roof level plantroom	Hot water pipework	SMF Insulation				SMF				Good condition, encapsulated	
Building TA35 - UDRH	Internal Generally	Ceilings	Mineral fibre tiles				SMF				Good condition, encapsulated	
Building TA35 - UDRH	Internal Generally	Underside of metal roofing	Foil backed SMF sarking				SMF				Good condition, encapsulated	
Building TA35 - UDRH	Internal Generally	Air conditioning ductwork to ceiling spaces	SMF Insulation				SMF				Good condition, encapsulated	
Building TA35 - UDRH	Internal Generally	Boiling water units to kitchenettes	SMF Insulation				SMF				Good condition, encapsulated	

**HAZARDOUS MATERIAL REGISTER OF TAMWORTH BASE HOSPITAL, TAMWORTH NSW
AS AT FEBRUARY 2009**

ENSR

AECOM

Building	Internal External	Location	Description	Sample No.	Plates	Plate No.	Hazard Type	Asbestos Type	Health Risk/Action Priority Level	Labelled	Comments/Condition	Action Taken
External Grounds	External	Service trenches extending from main boiler room (Building TA21) to original hospital buildings	SMF Insulation sighted. Possible asbestos lagging and/or contamination present				Friable if present		Unknown		Not accessed during the survey. Exercise caution when accessing trenches until presence, extent and condition of any asbestos lagging/contamination is determined	
External Grounds	External	Communications boxes, set in to ground, paths driveways (older)	Moulded asbestos cement				Asbestos presumed	Bonded	HL1	Not labelled	Generally in good condition. Minor weathering to top edges	

Appendix C

Laboratory Analysis Results

Use or disclosure of data contained on this sheet is subject to the restriction on the distribution page of this document.

Amdel Ltd
ABN 30 008 127 802

Unit 2, 35 Cormack Road, Wingfield SA, 5013
PO Box 552, Port Adelaide BC, SA 5015
Phone: (08) 8440 7145 Facsimile: (08) 8440 7197

ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 28 November 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1066F

PROJECT NO: E257043

PAGE NO: 1 of 6

PROJECT NAME: Tamworth Base Hospital

PO NO: 1301412

RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
1	(a) 10x10x3	Off-white fibrous micaceous sheeting	No		Yes
2	(a) 10x10x2	Pale brown fibrous sheeting, painted cream	No		Yes
3	(a) 10x10x2	Pale brown fibrous sheeting, painted white	No		Yes
4	(b) 5x5x1	Pale brown fibrous sheeting, painted pale grey	No		Yes
5	(a) 15x15x3	Pink fibrous sheeting, painted pale grey	No		Yes
6	(b) 10x10x2	Pale brown fibrous sheeting, painted yellow	No		Yes
	(a) 35x15x2	Off-white fibrous sheeting	Chrysotile, amosite, crocidolite		
7	(a) 20x10x5	Grey fibrous sheeting, painted yellow	Chrysotile		
8	(b) 10x5x3	Pale grey fibrous sheeting, painted white	No		Yes
9	(a) 10x10x5	Pale grey fibrous sheeting, painted white	No		Yes
10	(a) 20x10x2	Pale grey fibrous sheeting, painted cream	No		Yes
11	(a) 20x10x3	Brown fibrous sheeting	Chrysotile, amosite		
12	(a) 10x10x3	Dark brown fibrous layer, with black surface	Chrysotile		
13	(a) 60x25x3	Grey flooring	No **		
14	(b) 20x10x2	Brown fibrous sheeting, painted white	Chrysotile, amosite		
15	(a) 20x15x5	Pale brown fibrous sheeting, painted white	Chrysotile		Yes

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



The approximate dimensions (in mm) stated above refer to the size of (a) a single piece (b) largest of several particles (c) largest of many particles (d) volume in ml of unconsolidated particles (e) weight in grams of unconsolidated particles

* Detected by polarized light microscopy. ** No asbestos was detected by polarized light microscopy, but identification may not be possible due to adhering resins. Confirmation by another analytical technique is advised.

Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos, amosite is a fibrous silicate commonly known as brown or grey asbestos and crocidolite is a fibrous silicate commonly known as blue asbestos. SMF (Synthetic Mineral Fibre) is commonly known as glass fibre and OF (Organic Fibre) includes natural fibres (eg cellulose) and synthetic organic fibre but not high temperature fibres (eg Teflon fibres). A blank in the SMF or OF column implies not detected. Tr in the SMF or OF column indicates identification in Trace amount. The results contained in this report relate only to the sample(s) submitted for testing. Amdel Ltd accepts no responsibilities for the representivity of the sample(s) submitted.

SCOPE OF ACCREDITATION: Class 7.82.31: Qualitative identification of asbestos types in bulk samples by polarized light microscopy, including dispersion staining.



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ASBESTOS IDENTIFICATION REPORT

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DATE: 28 November 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1066F

PROJECT NO: E257043

PAGE NO: 2 of 6

PROJECT NAME: Tamworth Base Hospital

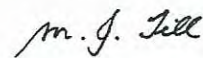
PO NO: 1301412

RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
16	(a) 40x15x5	Grey fibrous sheeting	Chrysotile, amosite		
17	(d) 1ml	White silt-sized particles and loose fibres	Amosite		
18	(a) 25x20x5	Grey fibrous sheeting, painted pale pink	Chrysotile, amosite, crocidolite		
19	(a) 50x20x5	Pale grey fibrous sheeting, painted off-white	No		Yes
20	(a) 20x15x3	Pale grey fibrous sheeting, painted yellow	No		Yes
21	(a) 30x15x3	Grey fibrous sheeting, painted yellow	Chrysotile		
22	(a) 10x10x2	Pale grey fibrous sheeting	No		Yes
23	(a) 15x15x2	Pale grey fibrous sheeting, painted white	No		Yes
24	(b) 15x10x3	Pale grey fibrous sheeting	No		Yes
25	(b) 30x10x3	Black bituminous fibrous layer, painted brown	Chrysotile		
26	(b) 10x5x3	Off-white micaceous lump	No		
27	(b) 20x10x3	Brown fibrous sheeting, painted white	Chrysotile, amosite		Yes
28	(c) 10x5x2	Pale brown fibrous sheeting, painted black	No		Yes
29	(b) 10x5x2	Grey fibrous sheeting	Chrysotile		
30	(a) 85x35x3	Grey flooring	No **		
31	(a) 60x55x2	Grey flooring	No **		
32	(a) 90x50x2	Beige flooring	No **		

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



The approximate dimensions (in mm) stated above refer to the size of (a) a single piece (b) largest of several particles (c) largest of many particles (d) volume in ml of unconsolidated particles (e) weight in grams of unconsolidated particles

* Detected by polarized light microscopy. ** No asbestos was detected by polarized light microscopy, but identification may not be possible due to adhering resins. Confirmation by another analytical technique is advised.

Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos, amosite is a fibrous silicate commonly known as brown or grey asbestos and crocidolite is a fibrous silicate commonly known as blue asbestos. SMF (Synthetic Mineral Fibre) is commonly known as glass fibre and OF (Organic Fibre) includes natural fibres (eg cellulose) and synthetic organic fibre but not high temperature fibres (eg Teflon fibres). A blank in the SMF or OF column implies not detected. Tr in the SMF or OF column indicates identification in Trace amount. The results contained in this report relate only to the sample(s) submitted for testing. Amdel Ltd accepts no responsibilities for the representivity of the sample(s) submitted.

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ASBESTOS IDENTIFICATION REPORT

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REPORT NO: 8AA1066F

PROJECT NO: E257043

PAGE NO: 3 of 6

PROJECT NAME: Tamworth Base Hospital

PO NO: 1301412

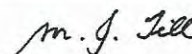
RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
33	(a) 30x10x3	Dark brown fibrous layer, with black surface	Chrysotile		
34	(b) 15x10x2	Pale brown fibrous sheeting, painted pale green	No		Yes
35	(b) 20x10x2	Pale grey fibrous sheeting	No		Yes
36	(a) 35x15x5	Off-white fibrous sheeting, painted pale green	Chrysotile, amosite		
37	(a) 30x10x2	Off-white fibrous sheeting, painted off-white	Chrysotile, amosite		
38	(a) 30x10x5	Pale brown fibrous sheeting, painted white	No		Yes
39	(a) 15x10x3	Pale brown fibrous sheeting, painted white	No		Yes
40	(a) 20x10x3	Grey fibrous sheeting, painted green	Chrysotile, amosite		Yes
41	(a) 30x10x3	Pale brown fibrous sheeting	No		Yes
42	(b) 20x10x3	White fibrous sheeting, painted white	Chrysotile		Yes
43	(a) 25x15x3	Brown fibrous sheeting, painted pale blue	Chrysotile		Yes
44	(b) 15x10x2	Brown fibrous sheeting, painted off-white	Chrysotile		Yes
45	(b) 10x10x2	Pale brown fibrous sheeting, painted off-white	No		Yes
46	(b) 20x10x3	Grey fibrous sheeting, painted white	Chrysotile, amosite		
47	(b) 20x20x3	Brown fibrous sheeting, painted off-white	Chrysotile		Yes
48	(a) 5x5x1	Pale brown fibrous sheeting, painted off-white	No		Yes

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:

Michael Till



The approximate dimensions (in mm) stated above refer to the size of (a) a single piece (b) largest of several particles (c) largest of many particles (d) volume in ml of unconsolidated particles (e) weight in grams of unconsolidated particles

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Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos, amosite is a fibrous silicate commonly known as brown or grey asbestos and crocidolite is a fibrous silicate commonly known as blue asbestos. SMF (Synthetic Mineral Fibre) is commonly known as glass fibre and OF (Organic Fibre) includes natural fibres (eg cellulose) and synthetic organic fibre but not high temperature fibres (eg Teflon fibres). A blank in the SMF or OF column implies not detected. Tr in the SMF or OF column indicates identification in Trace amount. The results contained in this report relate only to the sample(s) submitted for testing. Amdel Ltd accepts no responsibilities for the representivity of the sample(s) submitted.

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PAGE NO: 4 of 6

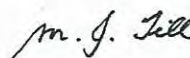
PROJECT NAME: Tamworth Base Hospital

PO NO: 1301412

RESULTS:

Sample	Description
1	Building TA01 – typical fibrous cement eaves lining
2	Building TA01 – typical fibrous cement internal wall lining
3	Building TA02 – typical fibrous cement eaves lining
4	Building TA03 – typical fibrous cement eaves lining
5	Building TA04 – typical fibrous cement verandah ceiling lining
6	Building TA05 – fibrous cement wall lining to kitchen of residence
7	Building TA05 – fibrous cement lining to roof gable
8	Building TA34 – typical fibrous cement eaves lining
9	Building TA08 – fibrous cement strip to roof verge tiles
10	Building TA08 – typical fibrous cement walling to toilets/showers
11	Building TA09 – fibrous cement ceiling lining to south side verandah
12	Building TA09 – bituminous backing board to electrical cabinet
13	Building TA09 – typical grey vinyl floor tile to kitchens
14	Building TA07 – typical fibrous cement eaves lining
15	Building TA10 – fibrous cement soffit lining to covered walkway

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till

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SCOPE OF ACCREDITATION: Class 7.82.31: Qualitative identification of asbestos types in bulk samples by polarized light microscopy, including dispersion staining.



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Amdel Ltd

ABN 30 008 127 802

Unit 2, 35 Cormack Road, Wingfield SA, 5013
PO Box 552, Port Adelaide BC, SA 5015
Phone: (08) 8440 7145 Facsimile: (08) 8440 7197

ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 28 November 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1066F

PROJECT NO: E257043

PAGE NO: 5 of 6

PROJECT NAME: Tamworth Base Hospital

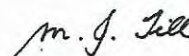
PO NO: 1301412

RESULTS:

Sample	Description
16	Building TA12 – corrugated fibrous cement sheeting stored within foundation space
17	Building TA12 – plaster insulation to manifold in south east corner boiler room
18	Building TA12 – fibrous cement ceiling lining to south east corner boiler room
19	Building TA23 – typical fibrous cement walling to north side contaminated waste area
20	Building TA22 – fibrous cement external walling, south end
21	Building TA22 – fibrous cement external walling north end at vehicle dock
22	Building TA22 – typical fibrous cement eaves lining
23	Building TA25 – typical fibrous cement eaves lining, eastern portion
24	Building TA25 – typical fibrous cement external weatherboard linings, eastern portion
25	Building TA25 – bituminous roofing membrane to western portion
26	Building TA25 – vermiculite ceiling finish to western portion
27	Building TA25 – fibrous cement ceiling lining to plant room, western portion
28	Building TA27 – fibrous cement strip below roof verge tiles
29	Building TA28 – typical fibrous cement fascia soffit lining
30	Building TA28 – typical light grey vinyl floor tiles to north side passageways and storerooms
31	Building TA28 – dark grey vinyl floor tiles to cleaners room off north side passageway
32	Building TA29 – typical beige vinyl floor tile to south side plantroom

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 28 November 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1066F

PROJECT NO: E257043

PAGE NO: 6 of 6

PROJECT NAME: Tamworth Base Hospital

PO NO: 1301412

RESULTS:

Sample	Description
33	Building TA29 – fibrous cement flue to gas hot water unit in south side plantroom
34	Building TA32 – typical fibrous cement eaves lining
35	Building TA16 – fibrous cement ceiling tiles to main south west dock area
36	Building TA17 – typical corrugated fibrous cement external wall lining
37	Building TA17 – fibrous cement ceiling lining to north end porch
38	Building TA14 – fibrous cement fascia lining to entry porte cochere
39	Building TA14 – typical fibrous cement eaves lining to south side extension
40	Building TA14 – typical fibrous cement eaves lining to original portion of building
41	Building TA11 – fibrous cement ceiling lining to covered parking area, north west corner
42	Building TA11 – typical fibrous cement walling to toilets to north side Physiotherapy room
43	Building TA11 – typical fibrous cement walling to bathrooms, north side of ward areas
44	Building TA11 – fibrous cement eaves lining to projecting north side wing
45	Building TA11 – typical fibrous cement eaves linings to eastern wing
46	Building TA06 – typical fibrous cement external walling and fascias
47	Building TA06 – fibrous cement walling to bathroom to offices, north east corner of first floor
48	Building TA22 – fibrous cement walling to staff toilet

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till

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ASBESTOS-FORMING MINERAL IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 28 November 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1066FX

PROJECT NO: E257043

PAGE NO: 1 of 1

PROJECT NAME: Tamworth Base Hospital

PO NO: 1301412

PROCEDURE

The samples were analysed by X-ray diffraction, which detects crystalline substances and minerals (including asbestos-forming minerals). Non-crystalline substances (eg glass, most organic compounds) are not detectable by this technique.

RESULTS

Sample	Description	Chrysotile Est. %	Other minerals detected
13	3mm thick grey flooring	---	Calcite, rutile
30	3mm thick grey flooring	---	Calcite, anatase
31	3mm thick grey flooring	---	Calcite, anatase
32	3mm thick beige flooring	---	Calcite, anatase

TESTING OFFICER: Michael Till

Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos. A dash (-) in the Chrysotile column implies not detected. The other minerals listed are fillers or pigments. They may include calcite (calcium carbonate), rutile (titanium dioxide – white pigment), aragonite (calcium carbonate found in shellgrit), kaolinite (white clay), dolomite (calcium magnesium carbonate) and goethite (brown iron oxide).

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ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 19 December 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1218D

PROJECT NO: E257043

PAGE NO: 1 of 5

PROJECT NAME: Tamworth Base Hospital

PO NO: N/A

RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
49	(a) 35x10x3	Pale brown fibrous sheeting, painted off-white	No		Yes
50	(b) 20x20x3	Pale brown fibrous sheeting, painted pale green and cream	No		Yes
51	(a) 15x5x2	Off-white fibrous sheeting, painted white	Chrysotile		Yes
52	(b) 5x3x2	Grey fibrous sheeting, painted yellow	Chrysotile, amosite		
53	(a) 10x5x1	Off-white fibrous sheeting, painted white	Chrysotile		Yes
54	(a) 100x100x2	Black bituminous fibrous layer	No		Yes
55	(d) 2ml	White silt to sand-sized particles	No		
56	(a) 30x15x5	Brown fibrous sheeting, painted green	Chrysotile, amosite		
57	(b) 40x15x5	Pale brown fibrous sheeting, painted yellow	No		Yes
58	(a) 25x20x5	Grey fibrous sheeting, painted yellow	Chrysotile, amosite		
59	(b) 10x10x2	Grey fibrous sheeting, painted yellow	Chrysotile, amosite		
60	(b) 40x10x2	Grey lump	Chrysotile		

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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CLIENT: ENSR Australia Pty Limited

DATE: 19 December 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1218D

PROJECT NO: E257043

PAGE NO: 2 of 5

PROJECT NAME: Tamworth Base Hospital

PO NO: N/A

RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
61	(a) 40x15x2	White flooring	Chrysotile		
62	(a) 55x40x3	Grey flooring	Chrysotile		
63	(b) 65x25x3	Grey flooring	Chrysotile		
64	(a) 25x20x1	Black bituminous lump, painted grey	Chrysotile		
65	(a) 30x25x5	Dark brown fibrous layer, with black surface	Chrysotile		
66	(b) 20x10x3	White fibrous lump	Amosite		
67	(b) 25x10x3	White fibrous rope	Chrysotile		
68	(a) 10x10x2	Grey fibrous sheeting, painted green	Chrysotile		
69	(b) 10x5x1	Pale brown fibrous sheeting, painted white	No		Yes
70	(b) 10x10x3	White fibrous lump	Amosite		
71	(b) 10x5x2	Pink fibrous sheeting, painted white	No		Yes
72	(a) 50x20x3	Pale grey fibrous sheeting	No		Yes
73	(b) 30x20x3	Pink fibrous sheeting, painted white	No		Yes

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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CLIENT: ENSR Australia Pty Limited

DATE: 19 December 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1218D

PROJECT NO: E257043

PAGE NO: 3 of 5

PROJECT NAME: Tamworth Base Hospital

PO NO: N/A

RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
74	(a) 25x10x5	Grey fibrous sheeting	Chrysotile, amosite		
75	(b) 35x10x3	Pale brown fibrous sheeting, painted pale grey	No		Yes
76	(a) 20x15x5	Grey fibrous sheeting, painted pale yellow	Chrysotile, amosite, crocidolite		
77	(a) 3x3x1	White fibrous lump	Amosite		
78	(a) 20x10x3	Grey fibrous sheeting, painted grey	Chrysotile		
79	(b) 10x10x1	Pale brown fibrous sheeting	No		Yes
80	(a) 50x15x5	Grey fibrous sheeting, painted blue	Chrysotile		
81	(a) 50x40x3	Dark brown fibrous resinous layer, painted white	No		Yes
82	(b) 10x10x2	Pale grey fibrous sheeting, painted white	No		Yes
83	(a) 45x15x3	Off-white fibrous sheeting	Chrysotile, amosite		

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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REPORT NO: 8AA1218D

PROJECT NO: E257043

PAGE NO: 4 of 5

PROJECT NAME: Tamworth Base Hospital

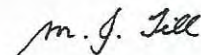
PO NO: N/A

RESULTS:

Sample	Description
49	Building TA15 – fibrous cement ceiling lining to east side covered way
50	Building TA15 – fibrous cement external walling, west side
51	Building TA15 – fibrous cement ceiling lining to ground floor staff toilet, west side
52	Building TA15 – fibrous cement wall linings to ground floor hot water cupboard, south end
53	Building TA15 – typical fibrous cement wall and ceiling linings to south west access stair
54	Building TA15 – bituminous sarking to underside of roof tiles in roof space
55	Building TA15 – plaster residue to pipework in roof space
56	Building TA15 – fibrous cement external walling to south west access stair
57	Building TA13 – typical flat external fibrous cement walling
58	Building TA13 – typical profiled external fibrous cement walling
59	Building TA13 – typical fibrous cement wall and ceiling linings to south end toilets
60	Building TA26 – typical putty sealant to sides of window frames
61	Building TA26 – typical painted vinyl tiles to walls of passageways
62	Building TA26 – light grey vinyl floor tiles to second floor utility room
63	Building TA26 – light grey vinyl floor tiles to lobby to east side amenities, second floor
64	Building TA26 – typical bituminous membrane to roofs and awnings
65	Building TA26 – electrical backing board, lower ground floor, east wing
66	Building TA26 – typical plaster lagging to pipework in foundation space

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 19 December 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1218D

PROJECT NO: E257043

PAGE NO: 5 of 5

PROJECT NAME: Tamworth Base Hospital

PO NO: N/A

RESULTS:

Sample	Description
67	Building TA26 – typical woven gasket material to boiler, lower ground floor boiler room
68	Building TA21 – typical fibrous cement eaves lining, south wing
69	Building TA21 – fibrous cement ceiling lining to bio-medical engineering workshop
70	Building TA21 – typical plaster lagging to pipework to south wing
71	Building TA21 – fibrous cement ceiling lining to north side clean store, main laundry
72	Building TA21- fibrous cement lower walling to main laundry sorting dock, outer portion
73	Building TA21 – typical fibrous cement walling to main laundry sorting dock, out portion
74	Building TA21- typical fibrous cement wall and ceiling linings to main laundry sorting dock, inner portion
75	Building TA19 – fibrous cement walling to south west extension
76	Building TA19 – fibrous cement walling to north side enclosed verandah, east end
77	Building TA19 – typical plaster lagging to calorifier/pipework to east end boiler room
78	Building TA19 – profiled fibrous cement external walling to enclosed verandah, north side, west end
79	Building TA19 – flat fibrous cement sheet external walling, north side, west end
80	Building TA19 – fibrous cement prefinished wall and ceiling linings to kitchen and laundry, north east corner
81	Building TA18 – hard board weatherbased head linings to doors, north west extension
82	Building TA18 – fibrous cement weatherboards to childrens cubby house, north side yard are
83	Building TA18 – fibrous cement sheet core to fire doors to south west plantroom

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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ASBESTOS-FORMING MINERAL IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 19 December 2008

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 8AA1218DX

PROJECT NO: E257043

PAGE NO: 1 of 5

PROJECT NAME: Tamworth Base Hospital

PO NO: N/A

PROCEDURE

The samples were analysed by X-ray diffraction, which detects crystalline substances and minerals (including asbestos-forming minerals). Non-crystalline substances (eg glass, most organic compounds) are not detectable by this technique.

RESULTS

This report contains estimated percentages of asbestos-forming minerals based on X-ray diffraction analysis. These estimates have large and variable errors which depend on the nature of the sample (particularly its degree of heterogeneity and the nature of the matrix). They should be considered as approximations at best and no guarantee is given as to their accuracy.

Sample	Description	Chrysotile Est. %	Other minerals detected
61	2mm thick white flooring	5	Calcite, rutile
62	3mm thick grey flooring	5	Calcite, rutile
63	3mm tick grey flooring	5	Calcite, rutile

TESTING OFFICER: Naciye Haliloff

Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos. A dash (-) in the Chrysotile column implies not detected. The other minerals listed are fillers or pigments. They may include calcite (calcium carbonate), rutile (titanium dioxide – white pigment), aragonite (calcium carbonate found in shellgrit), kaolinite (white clay), dolomite (calcium magnesium carbonate) and goethite (brown iron oxide).

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ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 13th February 2009

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 9AA0117D

PROJECT NO: E257043

PAGE NO: 1 of 2

PROJECT NAME: Tamworth Base Hospital

PO NO: 1301717

RESULTS:

Sample	Sample size	Description	Asbestos*	SMF*	OF*
84	(a) 10x10x2	Pale grey fibrous sheeting	No		Yes
85	(a) 10x10x1	Pale grey fibrous sheeting, painted grey	No		Yes
86	(a) 30x15x2	Pale grey fibrous sheeting	No		Yes
87	(a) 15x5x3	White fibrous layer	Amosite		
88	(a) 30x15x2	Black bituminous fibrous layer	Chrysotile		
89	(a) 30x10x2	White fibrous woven string	Chrysotile		Yes
90	(b) 10x10x2	White fibrous layer	Amosite		
91	(a) 25x15x3	Black bituminous fibrous layer	Chrysotile		
92	(b) 35x15x5	White fibrous layer	Amosite		
93	(b) 10x5x3	White foam-like lump	No		
	(b) 5x5x2	Grey mortar lump	No		
	(b) 5x3x1	White fibrous layer	Amosite		
94	(b) 20x20x2	White fibrous layer	Amosite		
95	(b) 15x5x2	Off-white fibrous layer, tinted brown/orange	Chrysotile		
96	(b) 40x20x5	White fibrous layer	Amosite		
	(a) 35x20x1	White fibrous woven cloth, with aluminium painted surface	No		Yes

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



The approximate dimensions (in mm) stated above refer to the size of (a) a single piece (b) largest of several particles (c) largest of many particles (d) volume in ml of unconsolidated particles (e) weight in grams of unconsolidated particles

* Detected by polarized light microscopy. ** No asbestos was detected by polarized light microscopy, but identification may not be possible due to adhering resins. Confirmation by another analytical technique is advised.

Note: Chrysotile is a fibrous silicate mineral commonly known as white asbestos, amosite is a fibrous silicate commonly known as brown or grey asbestos and crocidolite is a fibrous silicate commonly known as blue asbestos. SMF (Synthetic Mineral Fibre) is commonly known as glass fibre and OF (Organic Fibre) includes natural fibres (eg cellulose) and synthetic organic fibre but not high temperature fibres (eg Teflon fibres). A blank in the SMF or OF column implies not detected. Tr in the SMF or OF column indicates identification in Trace amount. The results contained in this report relate only to the sample(s) submitted for testing. Amdel Ltd accepts no responsibilities for the representivity of the sample(s) submitted.

SCOPE OF ACCREDITATION: Class 7.82.31: Qualitative identification of asbestos types in bulk samples by polarized light microscopy, including dispersion staining.



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ASBESTOS IDENTIFICATION REPORT

CLIENT: ENSR Australia Pty Limited

DATE: 13th February 2009

ADDRESS: Level 5/828 Pacific Highway, Gordon NSW 2072

REPORT NO: 9AA0117D

PROJECT NO: E257043

PAGE NO: 2 of 2

PROJECT NAME: Tamworth Base Hospital

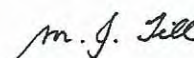
PO NO: 1301717

RESULTS:

Sample	Description
84	Building TA35 – typical fibrous cement external wall and awning ceiling linings
85	Building TA35 – typical fibrous cement external fascia and façade panel
86	Building TA20 – fibrous cement external wall and fascia panels to east side – Emergency Department
87	Building TA20 – core material to fire door to lift motor room
88	Building TA20 – bituminous membrane to floor of roof level plant room
89	Building TA20 – fibrous rope insulation to hot water pipework in roof level plant room
90	Building TA20 – typical plaster lagging to hot water pipework in roof level plant room
91	Building TA20 – typical bituminous backing board to electrical cupboards
92	Building TA20 – plaster lagging to hot water pipework in ceiling space lower ground floor
93	Building TA20 – typical dust from ceiling space adjacent lagged pipework, lower ground floor
94	Building TA20 – typical pipe lagging to main plant room area, lower ground floor
95	Building TA20 – typical gasket material to flange joints to pipework main plant room area
96	Building TA20 – typical pipe lagging to basement plant room area

APPROVED IDENTIFIER: Naciye Haliloff

APPROVED SIGNATORY:
Michael Till



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