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This Policy aims to facilitate the establishment of well designed and properly serviced manufactured home estates in suitable locations as an alternative to traditional housing.

SEPP No 44 - Koala Habitat Protection

This Policy aims to encourage the proper conservation and management of areas of natural vegetation that provide habitat for koalas.

The Policy applies to all land with an area of more than one hectare to which a Development Application has been made.

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This Policy aims to promote the remediation of contaminated land for the purpose of reducing the risk of harm to human health or any other aspect of the environment. The Policy applies to the whole state, to ensure that remediation is permissible development and is always carried out to a high standard. It specifies when consent is required for remediation and lists considerations that are relevant when rezoning land and determining development applications.

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This Policy provides controls which will improve the quality of outdoor advertising and our environment.

SEPP No 65 - 26 July 2002 - Design Quality of Residential Flat Development

This Policy aims to improve the design quality of residential flat developments in New South Wales.

State Environmental Planning Policy (State and Regional Development) 2011

The purpose of the SEPP is to identify development that is State significant development, State significant infrastructure and critical State significant infrastructure. It also confers functions on joint regional planning panels to determine development applications.

State Environmental Planning Policy (Major Development) 2005

The purpose of the SEPP is to facilitate the development, redevelopment or protection of important urban, coastal and regional sites of economic, environmental or social significance to the State so as to facilitate the orderly use, development or conservation of those State significant sites for the benefit of the State.

Section 94 Development Contributions Plan

Council’s Section 94 Plan applies to future commercial/ retail/ industrial development within the Mudgee Town Centre and subdivision within the Mid-Western Regional Council Local Government Area. Contact Council’s Planning Department for any queries regarding this matter.

Section 94A Development Contributions Plan

Council’s Section 94A Plan applies to future commercial/ retail/ industrial/ tourism development outside of the Mudgee Town Centre and Residential Development within the Mid-Western Regional Council Local Government Area. Contact Council’s Planning Department for any queries regarding this matter.
The Land is Not Subject to Road Widening

Council's records indicate that the land the subject of this Certificate is NOT affected by any road widening or road re-alignment under:

1) Division 2 of the Roads Act, 1993;
2) Section 262 of the former Local Government Act, 1919;
3) Any Environmental Planning Instrument
4) Any resolution of Council.

Coastal Protection

Council has not been notified, by the Department of Public Works, that the land the subject of this Certificate is affected by the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

Risk of Land Slip or Subsidence

No information available re land slip or subsidence. Land is not within a Proclaimed Mine Subsidence District.

Identified Critical Habitat

The land the subject of this Certificate does not contain any identified critical habitats.

SEPP (Exempt & Complying Development Codes) 2008

Complying Development may not be carried out on this land under the State Environmental Planning Policy SEPP (Exempt and Complying Development Codes) 2008 (unless the development is a detached outbuilding or swimming pool). The land is excluded land as the land is within a heritage conservation area or draft conservation area under the Mid-Western Regional Local Environmental Plan 2012.

If only a part of a lot is land to which this clause applies, complying development must not be carried out on any part of that lot.

However, within the RU1 - Primary Production, RU3 - Forestry, RU4 - Primary Production Small Lots and R5 - Large Lot Residential zones Complying Development under the Rural Housing Code MAY be carried out on the part of the lot to which this clause does not apply. Please contact Council to discuss this possibility further.

No Acquisition by Public Authority

The land the subject of this certificate is NOT subject to acquisition by a public authority under a planning scheme or a draft planning instrument.

State Significant Development - Land is not Subject

The land the subject of this Certificate is not the subject of an order by the Minister for Planning and Infrastructure regarding State Significant development pursuant to Section 89C(3).
Not an Item of Environmental Heritage

The land the subject of this certificate is **not** identified in Schedule 5 of the Mid-Western Regional LEP 2012 as an item of Environmental Heritage.

**Land Within Conservation Area**

The land the subject of this Certificate is within a Heritage Conservation Area as identified in the Mid-Western Regional LEP 2012.

**Land May be Subject to Flood Management Plan**

The land the subject of this certificate is not within the Flood Risk Precincts identified by the Mudgee Floodplain Management Study. The provisions of the Floodplain Management Plan may also apply to land that is affected by localised flooding.

**Dwelling Houses - All Other Zones**

Mid-Western Regional Local Environmental Plan 2012 does not specify a minimum lot size for the erection of a dwelling in this zone. Approval must be obtained either through the Development Application or Complying Development Certificate process prior to the erection of a dwelling on this land.

**Mid-Western Regional Development Control Plan 2013**

This plan provides guidelines for all types of development within the Mid-Western Regional Council Local Government Area. It replaces all of the separate Development Control Plans and includes standards for Residential, industrial, commercial, wind farm, temporary workers accommodation, signage and other forms of development.

**Land is Not Bushfire Prone**

The land the subject of this certificate has not been identified as being bush fire prone in accordance with the Environmental Planning and Assessment Act 1979 and Mid-Western Regional LGA Bush Fire Prone Land map.

For further information please contact
Planning & Development Section

CUSTOMER SERVICE OFFICER

Certificate No. 1492 1143256
Planning Certificate
made under Section 149 Environmental Planning and Assessment Act 1979

APPLICANT
Peter Oitmaa
96 Hermitage Road
WEST RYDE NSW 2114

OWNER (as recorded by Council):
Western NSW Local Health District
Mudgee District Hospital
PO Box 29
MUDGEE NSW 2850

Certificate No: PC0237/2018
Receipt No: 389283
Date: 11 September 2017
Property No: 20427
Customer Ref: 86091
Property Address: 76B Lewis Street MUDGEE NSW 2850
Property Description: Lot 403 DP 756894

The Environmental Planning and Assessment Act 1997 commenced operation on the 1 July 1998. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional Regulation 1998).

SECTION A: INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ACT:

MID-WESTERN REGIONAL LOCAL ENVIRONMENTAL PLAN 2012

This planning instrument was published 10 August 2012 on the NSW Legislation website and applies to all the land within Mid-Western Region Local Government Area.

AMENDMENTS TO MID-WESTERN REGIONAL LOCAL ENVIRONMENTAL PLAN 2012

Amendment No.1 - Temporary Workers' Accommodation - Published 10 August 2012 on the NSW Legislation website
Currently the land is zoned:

R1 General Residential

Note: where two or more zones appear the property is affected in part by each zone.

Land use Zoning Table:

The following land use zoning table(s) apply to the land the subject of this Certificate.

Zone R1 General Residential

2 Permitted without consent
Home-based child care; Home businesses; Home occupations; Roads; Rural workers’ dwellings; Water reticulation systems.

3 Permitted with consent
Attached dwellings; Boarding houses; Caravan parks; Child care centres; Community facilities; Dwelling houses; Educational establishments; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Function centres; Funeral homes; Group homes; Health services facilities; Home industries; Hostels; Information and education facilities; Markets; Multi dwelling housing; Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Residential accommodation; Residential flat buildings; Respite day centres; Semi-detached dwellings; Seniors housing; Sewage reticulation systems; Shop top housing; Signage; Tourist and visitor accommodation; Water recycling facilities; Water storage facilities.

4 Prohibited
Advertising structures; Farm stay accommodation; Any other development not specified in item 2 or 3.

SECTION B: OTHER PREScribed INFORMATION PURSUANT TO SECTION 149(2) OF THE ACT:

As at the date of this Certificate the following State Environmental Planning Policies, Development Control Plans, Directions under Environmental Planning and Assessment Act and other Special Provisions apply.

State Environmental Planning Policy (Affordable Rental Housing) 2009

This policy aims to facilitate the effective delivery of new affordable rental housing by providing incentives by way of expanded zoning permissibility, floor space ratio bonuses and non-discretionary development standards.

State Environmental Planning Policy BASIX 2004

The purpose of the SEPP is to encourage sustainable residential development. An application for a development consent, complying development certificate or construction certificate in relation to certain kinds of residential development must be accompanied by a list of commitments by the applicant as to the manner in which the development will be carried out, and the carrying out of residential development pursuant to the resulting development consent, complying development certificate or construction certificate will be subject to a condition requiring such commitments to be fulfilled.
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

The aim of this policy is to provide streamlined development processes for development that complies with specific development standards.

It identifies exempt and complying development codes that have state wide application including the General Exempt Development Code, the General Housing Code, Housing Internal Alterations Code and General Commercial and Industrial Code.

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The aim of this policy is to facilitate the effective delivery of infrastructure across the state and repeals a number of other previous SEPP’s.

It provides development controls related to air transport, correctional centres, educational establishments, electricity generating works, electricity transmission and distribution, flood mitigation, forestry, emergency services facilities, gas transmission or distribution, health services facilities, housing and group homes and many other facilities.

State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007

This policy is to ensure that suitable provision is made for ensuring safety of persons using temporary structures and encourage the protection of the environment at such locations.

SEPP (Mining, Petroleum Production and Extractive Industries) 2007

The SEPP consolidates and updates many existing planning provisions related to mining, petroleum production and extractive industries as well as introducing new provisions to ensure that potential environmental and social impacts are adequately addressed during the assessment and determination of development proposals.

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004

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This Policy outlines requirements for development consent principally in relation to long term use of sites in caravan parks and for subdivision by long leases.

Development Consent is not required for installation or placement of moveable dwellings on sites in lawfully operating caravan parks.

SEPP No 32 - 19 November 1991 - Urban Consolidation (Redevelopment of Urban Land)

This policy ensures that urban land no longer required for the purpose for which it is currently zoned, is made available for redevelopment of multi-unit housing and related development.

SEPP No 33 - 13 March 1992 - Hazardous and Offensive Development

This Policy redefines hazardous and offensive developments and specifies that such proposals be advertised, be well documented and that Council consider any measures taken to mitigate their impact.
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Section 94 Development Contributions Plan

Council's Section 94 Plan applies to future commercial/ retail/ industrial development within the Mudgee Town Centre and subdivision within the Mid-Western Regional Council Local Government Area. Contact Council's Planning Department for any queries regarding this matter.

Section 94A Development Contributions Plan

Council's Section 94A Plan applies to future commercial/ retail/ industrial/ tourism development outside of the Mudgee Town Centre and Residential Development within the Mid-Western Regional Council Local Government Area. Contact Council's Planning Department for any queries regarding this matter.
The Land is Not Subject to Road Widening

Council's records indicate that the land the subject of this Certificate is NOT affected by any road widening or road re-alignment under:

1) Division 2 of the Roads Act, 1993;
2) Section 262 of the former Local Government Act, 1919;
3) Any Environmental Planning Instrument
4) Any resolution of Council.

Coastal Protection

Council has not been notified, by the Department of Public Works, that the land the subject of this Certificate is affected by the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

Risk of Land Slip or Subsidence

No information available re land slip or subsidence. Land is not within a Proclaimed Mine Subsidence District.

Identified Critical Habitat

The land the subject of this Certificate does not contain any identified critical habitats.

SEPP (Exempt & Complying Development Codes) 2008

Complying Development may not be carried out on this land under the State Environmental Planning Policy SEPP (Exempt and Complying Development Codes) 2008 (unless the development is a detached outbuilding or swimming pool). The land is excluded land as the land is within a heritage conservation area or draft conservation area under the Mid-Western Regional Local Environmental Plan 2012.

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No Acquisition by Public Authority

The land the subject of this certificate is NOT subject to acquisition by a public authority under a planning scheme or a draft planning instrument.

State Significant Development - Land is not Subject

The land the subject of this Certificate is not the subject of an order by the Minister for Planning and Infrastructure regarding State Significant development pursuant to Section 89C(3).
Not an Item of Environmental Heritage

The land the subject of this certificate is not identified in Schedule 5 of the Mid-Western Regional LEP 2012 as an item of Environmental Heritage.

Land Within Conservation Area

The land the subject of this Certificate is within a Heritage Conservation Area as identified in the Mid-Western Regional LEP 2012.

Land May be Subject to Flood Management Plan

The land the subject of this certificate is not within the Flood Risk Precincts identified by the Mudgee Floodplain Management Study. The provisions of the Floodplain Management Plan may also apply to land that is affected by localised flooding.

Dwelling Houses - All Other Zones

Mid-Western Regional Local Environmental Plan 2012 does not specify a minimum lot size for the erection of a dwelling in this zone. Approval must be obtained either through the Development Application or Complying Development Certificate process prior to the erection of a dwelling on this land.

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This plan provides guidelines for all types of development within the Mid-Western Regional Council Local Government Area. It replaces all of the separate Development Control Plans and includes standards for Residential, industrial, commercial, wind farm, temporary workers accommodation, signage and other forms of development.

Land is Not Bushfire Prone

The land the subject of this certificate has not been identified as being bush fire prone in accordance with the Environmental Planning and Assessment Act 1979 and Mid-Western Regional LGA Bush Fire Prone Land map.

For further information please contact
Planning & Development Section                         CUSTOMER SERVICE OFFICER

Certificate No. 1492 1143287
Planning Certificate
made under Section 149 Environmental Planning and Assessment Act 1979

APPLICANT

Peter Oitmaa
96 Hermitage Road
WEST RYDE NSW 2114

OWNER (as recorded by Council):

Western NSW Local Health District
Mudgee District Hospital
C/- Health Service Manager
Macquarie Area Health Service
PO Box 29
MUDGEE NSW 2850

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<td>Property Description:</td>
<td>Lot 5 Sec 64 DP 758721</td>
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AMENDMENTS TO MID-WESTERN REGIONAL LOCAL ENVIRONMENTAL PLAN 2012

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Currently the land is zoned:

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Note: where two or more zones appear the property is affected in part by each zone.

Land use Zoning Table:

The following land use zoning table(s) apply to the land the subject of this Certificate.

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SEPP No 44 - Koala Habitat Protection

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1) Division 2 of the Roads Act, 1993;
2) Section 262 of the former Local Government Act, 1919;
3) Any Environmental Planning Instrument
4) Any resolution of Council.

Coastal Protection

Council has not been notified, by the Department of Public Works, that the land the subject of this Certificate is affected by the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

Risk of Land Slip or Subsidence

No information available re land slip or subsidence. Land is not within a Proclaimed Mine Subsidence District.

Identified Critical Habitat

The land the subject of this Certificate does not contain any identified critical habitats.

SEPP (Exempt & Complying Development Codes) 2008

Complying Development may not be carried out on this land under the State Environmental Planning Policy SEPP (Exempt and Complying Development Codes) 2008 (unless the development is a detached outbuilding or swimming pool). The land is excluded land as the land is within a heritage conservation area or draft conservation area under the Mid-Western Regional Local Environmental Plan 2012.

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Not an Item of Environmental Heritage

The land the subject of this certificate is not identified in Schedule 5 of the Mid-Western Regional LEP 2012 as an Item of Environmental Heritage.
Land Within Conservation Area

The land the subject of this Certificate is within a Heritage Conservation Area as identified in the Mid-Western Regional LEP 2012.

Land May be Subject to Flood Management Plan

The land the subject of this certificate is not within the Flood Risk Precincts identified by the Mudgee Floodplain Management Study. The provisions of the Floodplain Management Plan may also apply to land that is affected by localised flooding.

 Dwelling Houses - All Other Zones

Mid-Western Regional Local Environmental Plan 2012 does not specify a minimum lot size for the erection of a dwelling in this zone. Approval must be obtained either through the Development Application or Complying Development Certificate process prior to the erection of a dwelling on this land.

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This plan provides guidelines for all types of development within the Mid-Western Regional Council Local Government Area. It replaces all of the separate Development Control Plans and includes standards for Residential, industrial, commercial, wind farm, temporary workers accommodation, signage and other forms of development.

Land is Not Bushfire Prone

The land the subject of this certificate has not been identified as being bush fire prone in accordance with the Environmental Planning and Assessment Act 1979 and Mid-Western Regional LGA Bush Fire Prone Land map.

For further information please contact Planning & Development Section

CUSTOMER SERVICE OFFICER

Certificate No. 1492 1143435
Planning Certificate
made under Section 149 Environmental Planning and Assessment Act 1979

APPLICANT
Peter Oitmaa
96 Hermitage Road
WEST RYDE NSW 2114

OWNER (as recorded by Council):
Western NSW Local Health District
Mudgee District Hospital
C/- Health Service Manager
Macquarie Area Health Service
PO Box 29
MUDGEE NSW 2850

Certificate No: PC0239/2018
Receipt No: 389274
Date: 11 September 2017
Property No: 20399
Customer Ref: 86091
Property Address: Hospital House 32 Meares Street MUDGEE NSW 2850
Property Description: Lot 2 DP 1140724

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Council’s Section 94 Plan applies to future commercial/ retail/ industrial development within the Mudgee Town Centre and subdivision within the Mid-Western Regional Council Local Government Area. Contact Council’s Planning Department for any queries regarding this matter.

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Council’s records indicate that the land the subject of this Certificate is NOT affected by any road widening or road re-alignment under:

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Coastal Protection

Council has not been notified, by the Department of Public Works, that the land the subject of this Certificate is affected by the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

Risk of Land Slip or Subsidence

No information available re land slip or subsidence. Land is not within a Proclaimed Mine Subsidence District.

Identified Critical Habitat

The land the subject of this Certificate does not contain any identified critical habitats.

SEPP (Exempt & Complying Development Codes) 2008

Complying Development may not be carried out on this land under the State Environmental Planning Policy SEPP (Exempt and Complying Development Codes) 2008 (unless the development is a detached outbuilding or swimming pool). The land is excluded land as the land is within a heritage conservation area or draft conservation area under the Mid-Western Regional Local Environmental Plan 2012.

If only a part of a lot is land to which this clause applies, complying development must not be carried out on any part of that lot.

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The land the subject of this certificate has not been identified as being bush fire prone in accordance with the Environmental Planning and Assessment Act 1979 and Mid-Western Regional LGA Bush Fire Prone Land map.

For further information please contact
Planning & Development Section

K. Brown
CUSTOMER SERVICE OFFICER

Certificate No. 1492 1143479
**Planning Certificate**

made under **Section 149 Environmental Planning and Assessment Act 1979**

<table>
<thead>
<tr>
<th>APPLICANT</th>
<th>OWNER (as recorded by Council):</th>
</tr>
</thead>
</table>
| Peter Oitmaa  
96 Hermitage Road  
WEST RYDE NSW 2114 | Western NSW Local Health District  
Mudgee District Hospital  
PO Box 29  
MUDGEE NSW 2850 |

<table>
<thead>
<tr>
<th>Certificate No:</th>
<th>PC0240/2018</th>
</tr>
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<tbody>
<tr>
<td>Receipt No:</td>
<td>389273</td>
</tr>
<tr>
<td>Date:</td>
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</tr>
<tr>
<td>Property No:</td>
<td>20428</td>
</tr>
<tr>
<td>Customer Ref:</td>
<td>86091</td>
</tr>
<tr>
<td>Property Address:</td>
<td>Old Nursing School Lewis Street MUDGEE NSW 2850</td>
</tr>
<tr>
<td>Property Description:</td>
<td>Lot 1 DP 845336</td>
</tr>
</tbody>
</table>

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This planning instrument was published 10 August 2012 on the NSW Legislation website and applies to all the land within Mid-Western Region Local Government Area.

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Note: where two or more zones appear the property is affected in part by each zone.

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CUSTOMER SERVICE OFFICER

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Planning Certificate
made under Section 149 Environmental Planning and Assessment Act 1979

APPLICANT
Peter Oitmaa
96 Hermitage Road
WEST RYDE NSW 2114

OWNER (as recorded by Council):
Western NSW Local Health District
Mudgee District Hospital
PO Box 29
MUDGEE NSW 2850

Certificate No: PC0241/2018
Receipt No: 389272
Date: 11 September 2017
Property No: 20428
Customer Ref: 86091
Property Address: Heli Pad & Grounds Lewis Street MUDGEE NSW 2850
Property Description: Lot 2 DP 845336

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www.midwestern.nsw.gov.au Looking after Our Community
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Planning & Development Section

CUSTOMER SERVICE OFFICER

Certificate No. 1482 1143510
Appendix D

Sampling, Analysis and Quality Plan
Dear Sirs

Sampling and Analysis Quality Plan
Mudgee Hospital Redevelopment
Lewis Street, Mudgee

1. Introduction

This Sampling and Analysis Quality Plan (SAQP) has been prepared for a proposed Detailed Site Investigation (Contamination) at Mudgee Hospital, Lewis Street, Mudgee. The work was commissioned by TSA Management Pty Ltd, project managers, on behalf of Health Infrastructure.

The project involves the staged redevelopment of Mudgee Hospital. Detailed Site Investigation is required to confirm that the site is suitable for the new development or to delineate any areas on the site which may require remediation prior to or during the development works. The investigation aims to build on the Preliminary Site Investigation (PSI) undertaken for the site by Douglas Partners (Ref. 86091.00.R.001.DftA dated 28 September 2017).

The scope of the Detailed Site Investigation has been prepared with reference to the National Environment Protection Measure (NEPM) guidelines.

2. Purpose of Detailed Site Investigation

A Detailed Site Investigation was commissioned to aid in the management of contamination risks associated with the site. The proposed investigation components of the Detailed Site Investigation are described in the following sections.
3. Summary of Preliminary Conceptual Site Model

The majority of the site has been used as a hospital since the late 1800s and therefore contamination as a result of previous land uses is unlikely to have occurred. Information obtained from hospital staff suggests that hospital waste and incinerator ash was not dumped on site but was historically disposed of to landfill and waste is now removed by specialised waste contractors. Disused coal/ash bunkers are likely to remain in the vicinity of the boiler house.

Hospital staff have advised that underground storage tanks (USTs) are not located on the site and, to their knowledge, have never been located on the site.

The Conceptual Site Model (CSM) has therefore been developed on the basis of the information currently available. Potential soil contamination may be present as a result of:

- Maintenance activities on the site (e.g. pesticides, hydrocarbons);
- Previous demolition activities which could have resulted in hazardous building materials (e.g. asbestos, lead, PCBs etc.) remaining on the site;
- Future demolition activities which have the potential to cross-contaminate the site with hazardous building materials;
- Previously contaminating activities such as the temporary storage of ash from the incinerator awaiting disposal;
- The presence of an electricity substation (PCBs, TRHs etc.);
- Dumping of hospital wastes on the site; and
- Naturally occurring elements and compounds in the soils and rock underlying the site.

The potential for groundwater contamination will depend on the sources and types of contamination and the depth to groundwater. The apparent widespread use of groundwater within Mudgee would suggest that significant contamination is unlikely to be present within the aquifer.

Soil vapour intrusion is currently considered to be a very low risk on the site and will only be considered if volatile contaminants are encountered during the assessment.

The human receptors to soil and groundwater contamination are likely to be the hospital staff, hospital patients and hospital visitors. Construction personnel and nearby residents may also be receptors during the construction phase of the redevelopment project.

The ecological receptors are likely to be limited to the flora and fauna that grow/live on the site and visit the site. The area is not known to be ecologically significant.

Exposure pathways are expected to be limited to dermal contact with soils on the site by humans, ingestion of soils and vegetation by fauna, and phytotoxic exposure to flora.
4. Data Quality Objectives

This SAQP has been devised in general accordance with the seven-step data quality objective (DQO) process outlined in Australian Standard AS 4482.1 – 2005 Guide to the investigation and sampling of sites with potentially contaminated soil – Part 1: Non-volatile and semi-volatile compounds. The DQO process is outlined below.

(a) State The Problem

The site is to be redeveloped for continued use as a hospital. Detailed Site Investigation is required to assess the risks associated with redeveloping the site so that appropriate allowances and remediation measures can be provided as part of the works, if necessary.

(b) Identify the Decision

The proposed sampling regime has been developed based on accessibility as no known significant contamination risks have been identified on the site to date.

Figure 1: Approximate location of investigation area with respect to current lot boundaries
The investigation area is approximately 2.5 ha. A sampling frequency of 35 sampling points is considered appropriate based on Table A of *Contaminated Sites: Sampling Design Guidelines* (NSW EPA, 1995). This frequency should be able to detect a contamination hot spot of 31.5 m diameter with 95% confidence. The 10 sampling points from the PSI will be included in the DSI frequency.

Further information on the proposed sampling locations and suite of potential contaminants to be analysed is included in Sections 5 to 7 of this SAQP.

(c) Identify Inputs to the Decision

The primary inputs in assessing the presence of contamination on the site will be:

- The information available from previous investigations;
- Field observations;
- Laboratory test results; and
- Published guidelines appropriate for the proposed land use (hospital) and ecological conditions.

(d) Define the Boundary of the Assessment

The boundary of the assessment is shown in Figure 1.

(e) Develop a Decision Rule

The decision rule is based on the following documents:

- NSW EPA (1995); *Contaminated Sites: Sampling Design Guidelines*; and
- NEPC (2013), *National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater*. The site is assumed to be a ‘HIL D’ site for the health-based components of the assessment. The site categories for the ecological-based components will be determined during the assessment (i.e. determined from soil types, and pH and cation exchange capacities of the soils encountered).

(f) Specify Acceptable Limits on Decision Errors

Appropriate quality assurance and quality control measures will be incorporated into the sampling and testing regime to ensure the quality of the assessment data. These measures are outlined in Section 8 of this SAQP.

(g) Optimise the Design for Obtaining Data

The soil sampling locations have been selected using a grid-based approach to achieve adequate site coverage. Samples will be collected from different depths in the boreholes and samples will be selected for analysis to ensure a spread of depths are analysed, where relevant.
Groundwater wells will be installed in four locations to enable up-gradient and down-gradient samples to be collected.

The procedures for collecting samples will be in general accordance with NEPM, EPA guidelines and/or industry best-practice. Only laboratories accredited by the National Association of Testing Authorities (NATA) will be used to analyse samples.

5. Proposed Sampling Locations

The proposed sampling points are shown on the attached Drawing DS1. The 32 proposed sampling points will complement the 10 locations previously assessed.

6. Proposed Sampling Methodology

Soil samples will be collected at regular depth intervals until natural soils are encountered or the rig refuses. Environmental sampling will be performed in general accordance with the standard procedures outlined in the Douglas Partners Field Procedures Manual. All sampling data will be recorded on chain of custody information sheets. The soil sampling programme will generally include:

- Soil sampling using disposable equipment and/or equipment that has been decontaminated using a phosphate-free detergent;
- Placement of soil samples into laboratory prepared jars and immediate capping;
- Labelling of soil sample jars/bags with individual and unique markings including project number, sample location, sample depth and date of sampling; and
- Storage of soil sample jars in a cooled, insulated and sealed container for transport to the laboratory.

The groundwater sampling programme will generally include:

- Water sampling using equipment that has been decontaminated using a phosphate-free detergent;
- Placement of water samples into laboratory prepared bottles with appropriate preservatives (where required) and immediate capping;
- Labelling of water sample bottles with individual and unique markings including project number, sample location and date of sampling; and
- Storage of water sample bottles in a cooled, insulated and sealed container for transport to the laboratory.
In addition, a laboratory prepared blank sample and spiked sample will be collected and carried throughout the field work to provide an indication of the potential loss of volatile hydrocarbons and to assess the adequacy of the sample handling and storage methods adopted for the assessment.

7. Proposed Laboratory Testing Programme

Selected soil samples collected during the field work will be sent to NATA accredited analytical laboratories and analysed for the following potential contaminants:

- Priority heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni and Zn);
- Total recoverable hydrocarbons (TRH);
- Monocyclic aromatic hydrocarbons (BTEX);
- Polycyclic aromatic hydrocarbons (PAH);
- Organochlorine pesticides (OCP);
- Organophosphorus pesticides (OPP);
- Polychlorinated biphenyls (PCB);
- Phenols; and
- Asbestos.

The number of samples tested will depend on the subsurface conditions encountered during the field work.

The water samples will also be tested for the contaminants listed above (excluding asbestos), plus volatile organic compounds (VOC) and the PFAS chemicals.

8. Quality Assurance Plan

8.1 Quality assurance & quality control in the field

Douglas Partners’ quality assurance (QA) and quality control (QC) procedures will be adopted throughout the field sampling programme to ensure sampling precision and accuracy and to prevent cross-contamination. We will check sampling accuracy and precision through the analysis of triplicate samples in the primary analytical laboratory and a secondary analytical laboratory. The potential for cross-contamination and loss of volatile compounds will be assessed using trip blank and trip spike samples.
Appropriate sampling procedures will be undertaken to ensure that cross-contamination does not occur as outlined in the *Douglas Partners Field Procedures Manual*. This specifies that:

- Standard operating procedures are to be followed;
- Site safety plans are to be developed prior to commencing the works;
- Triplicate field samples are to be collected and analysed;
- Samples are to be stored under secure, temperature-controlled conditions;
- Chain of custody documentation is to be employed for the handling, transport and delivery of samples to the selected laboratory; and
- Contaminated filling, soil and groundwater originating from the site is to be disposed of in accordance with relevant regulatory guidelines.

### 8.2 Quality assurance & quality control in the laboratory

The analytical laboratories used during the assessment will conduct in-house QA/QC procedures including:

- Analysis of reagent blanks;
- Spike recovery analysis;
- Laboratory duplicate analysis;
- Analysis of control standards;
- Analysis of calibration standards and blanks; and
- Statistical analysis of QC data.

### 8.3 Data quality indicators

The following data quality indicators (DQIs) will need to be achieved during the analysis of QA/QC samples:

- Conformance with specified holding times;
- Accuracy of spiked samples to generally be in the range of 70% to 130%;
- Field triplicate samples to be collected at a frequency of at least 10% of all samples; and
- Field and laboratory duplicate samples to have a precision average within a 30% relative percent difference (RPD) unless circumstances allow a greater range.
Please contact the undersigned if further information is required.

Yours faithfully,
Douglas Partners Pty Ltd

Peter Oitmaa
Principal

Attachment: Drawing DSI1
Appendix E

Field Work Results
### Sampling & In Situ Testing

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Results &amp; Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35</td>
<td>TOPSOIL - dark grey, sandy silt topsoil with some gravel (possibly ash), humid</td>
<td>D/E: 0.0, 0.1</td>
<td>pp = 320</td>
</tr>
<tr>
<td>1.0</td>
<td>CLAY - very stiff, red-brown mottled grey clay with traces of coarse sand and silt, damp</td>
<td>0.5, 0.6</td>
<td>5.7, 11 N = 18</td>
</tr>
<tr>
<td>2.5</td>
<td>1.9m: turning orange</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>CLAY - firm, orange mottled grey clay with traces of medium to coarse sand and quartz gravel</td>
<td>S</td>
<td>3.2, 5 N = 7</td>
</tr>
<tr>
<td>4.0</td>
<td>SILTSTONE - extremely low to very low strength, yellow-brown siltstone, damp</td>
<td>S</td>
<td>4, 16, 15/50mm refusal bouncing</td>
</tr>
<tr>
<td>4.45</td>
<td>Bore discontinued at 4.45m - target depth reached</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Well Construction Details**

- **Surface Level:** 473.6 AHD
- **Easting:**
- **Nordthing:**
- **Dip/Azimuth:** 90°/--
- **RIG:** Edson 3000
- **Driller:** A Britton
- **Logged:** LS
- **Casing:** Uncased
- **Project:** Mudgee Hospital Redevelopment
- **Location:** Lewis Street, Mudgee
- **Client:** Health Infrastructure
- **Date:** 17/8/2017
- **Note:** No free groundwater observed

**Sampling & In Situ Testing Legend**

- **A** Auger sample
- **B** Bulk sample
- **BLK** Block sample
- **C** Core drilling
- **D** Disturbed sample
- **E** Environmental sample
- **G** Gas sample
- **P** Piston sample
- **PL** Point load Axial test (50) (MPa)
- **PD** Photo ionisation detector (ppm)
- **PP** Pocket penetrometer (kPa)
- **S** Water sample
- **W** Water level
- **V** Shear vane (kPa)
- **PID** Photo ionisation detector (ppm)
- **PLA** Point load Axial test (50) (MPa)
- **PLD** Point load Diametral test (50) (MPa)
- **PP** Pocket Penetrometer (kPa)
- **SW** Standard Penetration test
- **V** Shear vane (kPa)

**Water Observations:**

- No free groundwater observed

**Remarks:**

- **Rig:** Edson 3000
- **Driller:** A Britton
- **Logged:** LS
- **Casing:** Uncased

**Type of Boring:**

- 110mm diameter solid flight auger
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 474.8 AHD  
**BORE No:** BH2  
**EASTING:**  
**NORTHING:**  
**DATE:** 17/8/2017  
**PROJECT No:** 86091.00  

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.11</td>
<td>TOPSOIL - dark grey, sandy silt topsoil with some gravel, damp</td>
<td>S 0.0 0.1</td>
<td>DH-E</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>CLAY - brown clay with some ironstone gravel, moist</td>
<td>S 1.0</td>
<td>2.5, 11 N = 16</td>
<td></td>
</tr>
<tr>
<td>1.8</td>
<td>CLAY - stiff to very stiff, orange mottled grey clay with some silt, damp</td>
<td>S 1.45</td>
<td>1.8 drill crushing</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CLAY - hard, light brown mottled grey clay with some ironstone gravel and silt, damp (possibly extremely weathered siltstone)</td>
<td>S 2.5</td>
<td>12, 15, 21 N = 36</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3.2m: quartz gravel</td>
<td>S 2.95</td>
<td>9.22/100mm refusal bouncing</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4.0m: moist</td>
<td>S 4.0</td>
<td>4.13, 11/50mm refusal bouncing</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>4.8m: damp</td>
<td>S 5.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.95</td>
<td>SANDSTONE - extremely low to very low strength, yellow-brown sandstone, damp</td>
<td></td>
<td></td>
<td>Bore discontinued at 5.95m - target depth reached</td>
</tr>
</tbody>
</table>

**RIG:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased  

**TYPE OF BORING:** 110mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed  

**REMARKS:**

**SAMPLING & IN SITU TESTING LEGEND**

- A Auger sample  
- B Bulk sample  
- BLK Block sample  
- C Core drilling  
- D Disturbed sample  
- E Environmental sample  
- G Gas sample  
- H H type head  
- PID Photo ionisation detector (ppm)  
- PL(D) Point load diametral test (50) (MPa)  
- PL(D) Point load axial test (50) (MPa)  
- PP Pocket penetrometer (kPa)  
- S Standard penetration test  
- W Water sample  
- Water level  
- V Shear vane (kPa)

---

**Well Construction Details**

- N = 16  
- N = 36  
- 9.22/100mm refusal bouncing  
- 4.13, 11/50mm refusal bouncing  
- Drill crunching  
- Bouncing  
- Refusal  
- Surface level 474.8 AHD  
- Easting  
- Northing  
- DIP/AZIMUTH: 90°/--  
- Driller: A Britton  
- Logged: LS  
- Rig: Edson 3000  
- Casing: Uncased  
- Type of boring: 110mm diameter solid flight auger  
- Water observations: No free groundwater observed
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 476.2 AHD  
**BORE No:** BH3  
**EASTING:**  
**PROJECT No:** 86091.00  
**NORTHING:**  
**DATE:** 18/8/2017  
**DIP/AZIMUTH:** 90°/--  
**SHEET 1 OF 1**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.06</td>
<td>CONCRETE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>FILLING - dark grey clay topsoil with some medium grained sand, moist</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>FILLING - grey mottled yellow-grey, clay topsoil with some medium grained sand and ironstone gravel, moist</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>GRAVELLY CLAY - stiff, brown, gravelly clay, ironstone and gravel, with traces of medium to fine sand, damp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>CLAY - red-brown clay with traces of medium grained sand, damp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>CLAY - stiff to very stiff, grey mottled orange clay, damp (possibly extremely weathered siltstone)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.5m</td>
<td>Siltstone - extremely low to very low strength, yellow-brown siltstone, damp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>4.5m: quartz gravel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:**

- Bore discontinued at 5.8m - target depth reached

**SAMPLING & IN SITU TESTING LEGEND**

- A Auger sample
- B Bulk sample
- BLK Block sample
- C Core drilling
- D Disturbed sample
- E Environmental sample
- G Gas sample
- PID Photo-ionisation detector (ppm)
- P Piston sample
- PL(D) Point load diametral test (50) (MPa)
- PL(A) Point load axial test (50) (MPa)
- S Standard penetration test
- SP Pocket penetrometer (kPa)
- U Tube sample (x mm dia.)
- W Water sample
- Water level
- V Shear vane (kPa)

**RIG:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased  

**TYPE OF BORING:** 110mm diameter solid flight auger
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 473.7 AHD  
**BORE No:** BH4  
**PROJECT No:** 86091.00  
**EASTING:**  
**NORTHING:**  
**DATE:** 17/8/2017  
**NORTHING:**  
**SHEET:** 1 OF 1

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35</td>
<td>TOPSOIL - dark grey, sandy clay topsoil, fine grained sand with some silt, damp</td>
<td><strong>OET</strong></td>
<td></td>
</tr>
<tr>
<td>0.9m</td>
<td>CLAY - brown clay with traces of fine sand, silt, moist</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>1.22</td>
<td>0.9m: turning orange-brown</td>
<td>1.0</td>
<td>4.14,24 N = 36</td>
</tr>
<tr>
<td></td>
<td>CLAY - hard, brown mottled grey clay with some fine to medium sand, silt and ironstone gravel (possibly extremely weathered siltstone)</td>
<td>1.45</td>
<td>15-2.5m: hard drilling</td>
</tr>
<tr>
<td>2.5m</td>
<td>1.4m: turning grey mottled orange</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>2.5m: stiff</td>
<td>S</td>
<td>3.5,6 N = 13</td>
</tr>
<tr>
<td>2.95</td>
<td>S</td>
<td>2.95</td>
<td></td>
</tr>
<tr>
<td>4.0</td>
<td>4.0m: hard</td>
<td>S</td>
<td>4.10,22 N = 32</td>
</tr>
<tr>
<td>4.45</td>
<td>S</td>
<td>4.45</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>S</td>
<td>5.5</td>
<td>4.25/100mm refusal bouncing</td>
</tr>
<tr>
<td>5.95</td>
<td>Bore discontinued at 5.95m</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- target depth reached in very low to low strength siltstone</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RIG:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased

**TYPE OF BORING:** 110mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:** *Replicate sample T5 collected

---

### SAMPLING & IN SITU TESTING LEGEND

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Auger sample</td>
</tr>
<tr>
<td>B</td>
<td>Bulk sample</td>
</tr>
<tr>
<td>BLK</td>
<td>Block sample</td>
</tr>
<tr>
<td>C</td>
<td>Cone drilling</td>
</tr>
<tr>
<td>D</td>
<td>Disturbed sample</td>
</tr>
<tr>
<td>E</td>
<td>Environmental sample</td>
</tr>
<tr>
<td>G</td>
<td>Gas sample</td>
</tr>
<tr>
<td>P</td>
<td>Piston sample</td>
</tr>
<tr>
<td>PL(D)</td>
<td>Point load diametral test (50) (MPa)</td>
</tr>
<tr>
<td>PL(A)</td>
<td>Point load axial test (50) (MPa)</td>
</tr>
<tr>
<td>S</td>
<td>Standard penetration test</td>
</tr>
<tr>
<td>V</td>
<td>Shear vane (kPa)</td>
</tr>
<tr>
<td>PID</td>
<td>Photo-ionisation detector (ppm)</td>
</tr>
<tr>
<td>IS</td>
<td>Is(50) (MPa)</td>
</tr>
</tbody>
</table>

---

**Douglas Partners**

Geotechnics | Environment | Groundwater
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3</td>
<td>TOPSOIL - dark grey clay topsoil with some sand and silt and traces of ironstone, damp</td>
<td>D/E 0.3</td>
</tr>
<tr>
<td>0.5</td>
<td>CLAY - brown clay with some silt, damp</td>
<td>D/E 0.5</td>
</tr>
<tr>
<td></td>
<td>CLAY - very stiff, orange-brown mottled grey clay with traces of fine sand, silt and ironstone, damp</td>
<td>E 0.9, S 1.0</td>
</tr>
<tr>
<td>1.5</td>
<td>1.5m: sandstone/ironstone gravel</td>
<td>1.45</td>
</tr>
<tr>
<td>2.5</td>
<td>CLAY - hard, grey mottled orange clay with some ironstone and siltstone gravel and traces of fine sand, damp (possibly extremely weathered sandstone)</td>
<td>2.5 S 5.20/100mm refusal bouncing</td>
</tr>
<tr>
<td>4.0</td>
<td>4.0m: moist</td>
<td>5.13, 17 N = 30</td>
</tr>
<tr>
<td>4.8</td>
<td>4.8m: damp</td>
<td>5.14, 15/50mm refusal bouncing</td>
</tr>
<tr>
<td>5.5</td>
<td>SILTSTONE - very low to low strength, yellow-brown siltstone, damp</td>
<td>5.5 S 5.14, 15/50mm refusal bouncing</td>
</tr>
</tbody>
</table>

Bore discontinued at 5.95m - target depth reached

**Sampling & In Situ Testing**

**Surface Level:** 474.8 AHD

**Type of Boring:** 110mm diameter solid flight auger

**Water Observations:** No free groundwater observed

**Remarks:** *Replicate samples T1 and T2 collected*
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4</td>
<td>TOPSOIL - dark brown clay topsoil with some ironstone gravel and traces of sand, humid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>GRAVELLY CLAY - very stiff, light brown, gravelly clay with traces of medium grained sand, humid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>CLAY - very stiff, grey mottled orange clay, damp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.0</td>
<td>- turning grey mottled red with traces of ironstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>CLAY - very stiff to hard, brown mottled grey clay with traces of siltstone gravel, damp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.0</td>
<td>SILTSTONE - very low to low strength, yellow-brown siltstone, damp</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bore discontinued at 7.95m - target depth reached</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sampling & In Situ Testing Legend**

- A Auger sample
- B Bulk sample
- BLK Block sample
- C Core drilling
- D Disturbed sample
- E Environmental sample
- G Gas sample
- PID Photo-ionisation detector (ppm)
- PL(A) Point load axial test (50) (MPa)
- PL(D) Point load diametral test (50) (MPa)
- P Pocket penetrometer (kPa)
- S Standard penetration test
- SS Standard shear vane (kPa)
- T Water level
- W Water sample
- X Tube sample (x mm dia.)

**Well Construction Details**

- Type of Boring: 110mm diameter solid flight auger
- Water Observations: No free groundwater observed
- Remarks:
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee

**SURFACE LEVEL:** 476.3 AHD  
**BORE No:** BH7  
**EASTING:**  
**PROJECT No:** 86091.00  
**NORTHING:**  
**DATE:** 18/8/2017  
**DIP/AZIMUTH:** 90°/--  
**SHEET:** 1 OF 1

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25</td>
<td>TOPSOIL - brown silty clay topsoil with traces of fine sand and ironstone, humid</td>
<td>ED 0.0</td>
<td>0.25-0.5 m Bulk sample</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 0.5       | CLAY - red-brown clay with traces of fine sand and silt, damp  
CLAY - very stiff, orange mottled grey clay with some silt, damp |
| 1         | 2.2m: turning grey mottled orange |
| 2         | 2.8m: turning grey mottled red |
| 3.2       | SILTSTONE - very low to low strength, yellow-brown siltstone, damp |
| 4         | 7.15, 20, 100mm refusal  
bouncing |
| 4.45      | Bore discontinued at 4.45m  
- target depth reached |

**RIG:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased

**TYPE OF BORING:** 110mm diameter solid flight auger

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:**

---

**SAMPLING & IN SITU TESTING LEGEND**

- **A** Auger sample  
- **B** Bulk sample  
- **BLK** Block sample  
- **C** Core drilling  
- **D** Disturbed sample  
- **E** Environmental sample  
- **G** Gas sample  
- **P** Piston sample  
- **U** Tube sample (x mm dia.)  
- **W** Water sample  
- **X** Water level  
- **Y** Y-axis  
- **Z** Z-axis  

**PD** Photo-ionisation detector (ppm)  
**PLA** Point load axial test (50) (MPa)  
**PLD** Point load diametral test (50) (MPa)  
**so** Pocket penetrometer (kPa)  
**S** Standard penetration test  
**V** Shear vane (kPa)
## BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 474.2 AHD  
**EASTING:**  
**NORTHING:**  
**DATE:** 17/8/2017  
**SITE:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased  
**REMARKS:**

### Sampling & In Situ Testing

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>TOPSOIL - dark grey silty clay topsoil, humid</td>
<td>E/D/E B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>SILTY CLAY - very stiff, brown silty clay with traces of gravel, humid</td>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>SILTSTONE - extremely low to very low strength, grey mottled red and orange siltstone with some ironstone</td>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>2.6m: siltstone gravel</td>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.9</td>
<td>SILTSTONE - extremely low to very low strength, yellow-brown siltstone, moist</td>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5</td>
<td>3.5m: seepage observed</td>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.0</td>
<td>Bore discontinued at 4.1m - target depth reached</td>
<td>S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Water Observations
- Seepage observed at 3.5m
- 110mm diameter solid flight auger

### remarks:

- Standard penetration test (SPT) refusal
- Pocket penetrometer test (PP) refusal
- Shear vane test

### Other Details
- Well Construction Details
- Drilling Details
- Borehole Details

### Sampling & In Situ Testing Legend

- **A:** Auger sample  
- **B:** Bulk sample  
- **CL:** Core drilling  
- **D:** Disturbed sample  
- **E:** Environmental sample  
- **F:** Gas sample  
- **G:** Gas sample  
- **H:** Piston sample  
- **I:** Pipe sample  
- **J:** Photo ionisation detector (ppm)  
- **K:** Point load axial test (50) (MPa)  
- **L:** Point load diametral test (50) (MPa)  
- **M:** Pocket penetrometer (kPa)  
- **N:** Standard penetration test

### Additional Information

- Water level: Borehole details included for water level measurements.
### Borehole Log

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 475.3 AHD  
**BORE No:** BH9  
**EASTING:**  
**NORTHING:**  
**DATE:** 17/8/2017  
**PROJECT No:** 86091.00  
**SHEET:** 1 OF 1

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>Topsoil - brown clay topsoil with some medium grained sand and some ironstone gravel, humid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>Topsoil - brown clay topsoil with medium grained sand and some ironstone gravel, humid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>Clay - very stiff, brown clay with traces of medium sand, humid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Clay - very stiff, brown clay with traces of medium sand, humid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.45</td>
<td>Siltstone - very low to low strength, yellow-brown siltstone, damp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>Siltstone - very low to low strength, yellow-brown siltstone, damp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>Siltstone - very low to low strength, yellow-brown siltstone, damp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3</td>
<td>Siltstone - low to medium strength, red siltstone, damp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>Bore discontinued at 2.5m - auger refusal</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of Boring:** 110mm diameter solid flight auger  
**Water Observations:** No free groundwater observed  
**Remarks:** *Replicate samples T3 and T4 collected*

**RIG:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 477.1 AHD  
**BORE No:** BH10  
**EASTING:**  
**PROJECT No:** 86091.00  
**NORTHING:**  
**DATE:** 18/8/2017  
**DIP/AZIMUTH:** 90°/--  
**SHEET 1 OF 1**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>0.35</td>
<td>TOPSOIL - brown silty clay topsoil with traces of gravel and medium grained sand, humid</td>
<td>D/E** 0.0 0.1</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>CLAY - red-brown clay with traces of silt and fine sand, damp</td>
<td>D/E 0.4 0.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLAY - very stiff, light brown clay with some siltstone gravel and traces of fine sand, damp</td>
<td>S 1.0 1.45</td>
<td></td>
</tr>
<tr>
<td>1.9</td>
<td>CLAY - very stiff, grey mottled orange clay with some silt</td>
<td>S 2.5 2.95</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.6m: extremely weathered rock</td>
<td>S 4.0</td>
<td>13.22/100mm refusal bouncing</td>
</tr>
<tr>
<td>4.0</td>
<td>4.0m: quartzite gravel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.45</td>
<td>Bore discontinued at 4.45m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- target depth reached in very low to low strength siltstone

**RIG:** Edson 3000  
**DRILLER:** A Britton  
**LOGGED:** LS  
**CASING:** Uncased

**TYPE OF BORING:** 110mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:** *Replicate sample T6 collected*

---

**SAMPLING & IN SITU TESTING LEGEND**

- **A Auger sample**
- **B Bulk sample**
- **BLK Block sample**
- **C Core drilling**
- **D Disturbed sample**
- **E Environmental sample**
- **G Gas sample**
- **P Piston sample**
- **T Tube sample (x mm dia.)**
- **W Water sample**
- **Y Water level**
- **PID** Photo-ionisation detector (ppm)
- **PLA** Point load axial test (50) (MPa)
- **PLD** Point load diametral test (50) (MPa)
- **pp** Pocket penetrometer (kPa)
- **S Standard penetration test**
- **V Shear vane (kPa)**

---

**Well Construction Details**

- **RL:**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Sample Type</th>
<th>Results &amp; Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35</td>
<td>D/E</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>D/E</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>S</td>
<td>4.11,13 N = 24</td>
</tr>
<tr>
<td>2.5</td>
<td>S</td>
<td>4.9,15 N = 24</td>
</tr>
<tr>
<td>4.0</td>
<td>S</td>
<td>13.22/100mm refusal bouncing</td>
</tr>
</tbody>
</table>
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee

**BORE No:** 101  
**DATE:** 5/2/2018  
**PROJECT No:** 86091.00  
**SURFACE LEVEL:** 474.7 AHD

---

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>TOPSOIL/FILLING - dark brown, clayey silt topsoil filling with some fine to medium gravel (sandstone and siltstone), humid</td>
<td>AE 0.1 PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.8</td>
<td>FILLING - brown, gravelly (fine to coarse, sandstone and siltstone) silt filling with some sand and clay, humid</td>
<td>AE 0.5 PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>SILTY CLAY - brown and grey, silty clay with some fine to medium gravel (siltstone and ironstone), damp</td>
<td>AE 1.0 PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>SILLSTONE - extremely low to very low strength, yellow-brown siltstone</td>
<td>AE 1.5 PID&lt;5ppm</td>
<td></td>
</tr>
</tbody>
</table>
| 6.0       | Bore discontinued at 6.0m  
|           | - limit of investigation | |  

---

**RIG:** Comacchio 305  
**DRILLER:** SS  
**LOGGED:** MB  
**CASING:** Uncased

**TYPE OF BORING:** Solid flight auger (TC-bit) to 6.0m  
**WATER OBSERVATIONS:** No free groundwater observed

---

**SAMPLING & IN SITU TESTING LEGEND**

- A: Auger sample  
- B: Bulk sample  
- BLK: Block sample  
- C: Core drilling  
- D: Disturbed sample  
- E: Environmental sample  
- G: Gas sample  
- P: Piston sample  
- PL(A): Point load axial test (50) (MPa)  
- PL(D): Point load diametral test (50) (MPa)  
- S: Standard penetration test  
- W: Water sample  
- pp: Pocket penetrometer (kPa)  
- V: Shear vane (kPa)  
- PID: Photo-ionisation detector (ppm)

---

**SURFACE LEVEL:** 474.7 AHD  
**EASTING:** 742840  
**NORTHING:** 6389829

---

**Well Construction Details**

- Gatic cover
- Backfill 0.0-2.3m
- Bentonite 2.3-2.8m
- Gravel 2.8-6.0m
- Machine slotted PVC screen 3.0-6.0m
- End cap
<table>
<thead>
<tr>
<th>Depth (m)</th>
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<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>TOPSOIL/FILLING - dark brown, clayey silt topsoil filling with some rootlets, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>FILLING - brown, silty clay filling with some fine to coarse sandstone gravel, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>SILTY CLAY - brown, silty clay with some fine to medium gravel (siltstone and quartz), humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.4m - limit of investigation</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Client:** Health Infrastructure  
**Project:** Mudgee Hospital Redevelopment  
**Location:** Lewis Street, Mudgee

**Well Construction Details:**
- **Type of Boring:** 200mm diameter solid flight auger
- **Water Observations:** No free groundwater observed
- **Remarks:**

**Sampling & In Situ Testing Legend:**
- A: Auger sample  
- B: Bulk sample  
- BLK: Block sample  
- C: Core drilling  
- D: Disturbed sample  
- E: Environmental sample  
- G: Gas sample  
- P: Piston sample  
- PL(A): Point load axial test (50) (MPa)  
- PL(D): Point load diametral test (50) (MPa)  
- W: Water sample  
- Water level  
- V: Shear vane (kPa)  
- PID: Photo-ionisation detector (ppm)  
- PLT: Pocket penetrometer (kPa)  

**Survey Data:**
- **Surface Level:** 475.2 AHD  
- **Easting:** 742849  
- **Northing:** 6389804  
- **Date:** 6/2/2018  
- **Project No:** 86091.00  
- **Bore No:** 102  
- **Date Logged:** MB  
- **Casings:** Uncased  
- **Driller:** CCS
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 472.7 AHD  
**EASTING:** 742941  
**NORTHING:** 6389801  
**DATE:** 5/2/2018  
**PROJECT No:** 86091.00  
**BORE No:** 103  
**DIP/AZIMUTH:** 90°/--  
**DATE LOGGED:** MB  
**RIG:** Comacchio 305  
**DRILLER:** SS  
**CASING:** Uncased

<table>
<thead>
<tr>
<th>Depth (m)</th>
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<th>Results &amp; Comments</th>
<th>Water Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>FILLING - dark grey, gravelly (fine to medium, siltstone and sandstone) silt filling with some sand and rootlets, humid</td>
<td>AE 0.5</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>CLAYEY SILT - light brown, clayey silt with some fine to medium gravel (siltstone), humid</td>
<td>AE 0.5</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>SILTSTONE - extremely low to very low strength, yellow-brown siltstone</td>
<td>AE 0.5</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.7</td>
<td>Backfill 0.0-2.2m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Water level 3.0-6.0m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.0</td>
<td>Bentonite 2.2-2.7m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>Bentcrete 1.5-2.0m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td>End cap</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:** Bore discontinued at 6.0m - limit of investigation

---

**SAMPLING & IN SITU TESTING LEGEND**

- A: Auger sample  
- B: Bulk sample  
- BLK: Block sample  
- C: Core drilling  
- D: Disturbed sample  
- E: Environmental sample  
- G: Gas sample  
- P: Piston sample  
- U: Tube sample (x mm dia.)  
- W: Water sample  
- D: Water level  
- PID: Photo-ionisation detector (ppm)  
- PL(A): Point load axial test (50) (MPa)  
- PL(D): Point load diametral test (50) (MPa)  
- P: Pocket penetrometer (kPa)  
- S: Standard penetration test  
- V: Shear vane (kPa)
CLIENT: Health Infrastructure  
PROJECT: Mudgee Hospital Redevelopment  
LOCATION: Lewis Street, Mudgee

SURFACE LEVEL: 475.2 AHD  
EASTING: 742862  
NORTHING: 6389797  
DIP/AZIMUTH: 90°/--  
DATE: 6/2/2018  
PROJECT No: 86091.00  
BORE No: 104  
SHEET 1 OF 1

<table>
<thead>
<tr>
<th>Depth (m)</th>
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<th>Results &amp; Comments</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td></td>
<td>AE*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>TOPSOIL - dark brown, clayey silt topsoil with some rootlets, humid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>SILTY CLAY - brown silty clay with some fine to medium sandstone gravel, humid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>A/E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td>A/E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
</tr>
</tbody>
</table>

*RIG: 6t excavator  
DRILLER: CCS  
LOGGED: MB  
CASING: Uncased

TYPE OF BORING: 200mm diameter solid flight auger
WATER OBSERVATIONS: No free groundwater observed
REMARKS: *BT7/20180206 & BT8/20180206 taken at 0.0-0.1m

**SAMPLING & IN SITU TESTING LEGEND**

- A Auger sample
- B Bulk sample
- BLK Block sample
- C Core drilling
- D Disturbed sample
- E Environmental sample
- G Gas sample
- P Piston sample
- PL block sample (x mm dia.)
- W Water sample
- Water level
- PID Photo-ionisation detector (ppm)
- PLU Point load axial test (kN) (MPa)
- PLD Point load diametral test (kN) (MPa)
- pp Pocket penetrometer (kPa)
- S Standard penetration test
- V Shear vane (kPa)

**Geotechics | Environment | Groundwater**
<table>
<thead>
<tr>
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<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>TOPSOIL FILLING - dark brown clayey silt topsoil filling with some fine to medium sandstone gravel, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>SILTY CLAY - brown silty clay with some fine to medium gravel (sandstone), damp</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bore discontinued at 1.0m
- limit of investigation

**Sampling & In Situ Testing Legend**

- A: Auger sample
- B: Bulk sample
- BLK: Block sample
- C: Core drilling
- D: Disturbed sample
- E: Environmental sample
- G: Gas sample
- PLD: Point load diametral test (kPa)
- PL(A): Point load axial test (kPa)
- PP: Photo ionisation detector (ppm)
- PID: Pocket penetrometer (kPa)
- W: Water sample
- S: Standard penetration test
- V: Shear vane (kPa)

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:**
### Borehole Log

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 473.0 AHD  
**EASTING:** 742918  
**NORTHING:** 6389784  
**DIP/AZIMUTH:** 90°/--  
**DATE:** 5/2/2018  
**PROJECT No:** 86091.00  
**BORE No:** 106  
**DATE LOGGED:** MB  
**CASING:** Uncased  

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - dark grey, gravelly (fine to medium siltstone and sandstone) silt filling with some sand and rootlets, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>CLAYEY SILT - light brown, clayey silt with some fine to medium gravel (siltstone), humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:**

- Type of Boring: 200mm diameter solid flight auger
- Surface Level: 473.0 AHD
- Easting: 742918
- Northing: 6389784
- Dip/Azimuth: 90°/--

**Sampling & In Situ Testing Legend:**

- **A:** Auger sample  
- **B:** Bulk sample  
- **BLK:** Block sample  
- **C:** Cone drilling  
- **D:** Disturbed sample  
- **E:** Environmental sample  
- **G:** Gas sample  
- **P:** Piston sample  
- **U:** Tube sample (x mm dia.)  
- **W:** Water sample  
- **T:** Water level  
- **S:** Standard penetration test  
- **V:** Shear vane (kPa)

---

**Well Construction Details**

- **PID<5ppm**
- **Water level**
- **Water sample**
- **Pocket penetrometer (kPa)**
- **Point load diametral test (50) (MPa)**
- **Point load axial test (50) (MPa)**
- **Photo-ionisation detector (ppm)**
- **Standard penetration test**

---

**Health Infrastructure**

**Mudgee Hospital Redevelopment**

---

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:**

---

**Douglas Partners**

Geotechnics / Environment / Groundwater
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**BORE No:** 107  
**SURFACE LEVEL:** 473.4 AHD  
**EASTING:** 742935  
**NORTHING:** 6389766  
**DATE:** 5/2/2018  
**PROJECT No:** 86091.00  
**DATE:** 5/2/2018  
**SHEET 1 OF 1**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>CLAYEY SILT - brown clayey silt with some fine to medium gravel (siltstone and ironstone), humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>0.3m: becoming light brown</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased  

**TYPE OF BORING:** 200mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:**

---

**SAMPLING & IN SITU TESTING LEGEND**

- A: Auger sample
- B: Bulk sample
- BLK: Block sample
- C: Cone drilling
- D: Disturbed sample
- E: Environmental sample
- G: Gas sample
- P: Piston sample
- PL(A): Point load axial test (Is(50) (MPa))
- PL(D): Point load diametral test (Is(50) (MPa))
- PP: Pocket penetrometer (kPa)
- S: Standard penetration test
- T: Water level
- V: Shear vane (kPa)

---

**Geotechnics | Environment | Groundwater**
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 474.3 AHD  
**EASTING:** 742782  
**NORTHING:** 6389784  
**PROJECT No:** 86091.00  
**DATE:** 5/2/2018  
**BORE No:** 108  
**DATE LOGGED:** MB  
**CASING:** Uncased  

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<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water Seep</th>
<th>Well Construction Details</th>
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</thead>
<tbody>
<tr>
<td>0.0</td>
<td>SILTY CLAY - brown silty clay with some fine to medium ironstone gravel, humid</td>
<td>A/E*</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td>0.1</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>0.4</td>
<td>PID&lt;5ppm</td>
<td></td>
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</tr>
<tr>
<td>0.5</td>
<td></td>
<td>0.5</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>0.9</td>
<td>PID&lt;5ppm</td>
<td></td>
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</tr>
<tr>
<td>1.0</td>
<td></td>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bore discontinued at 1.0m  
- limit of investigation

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:** *BT13/20180206 and BT14/20180206 taken at 0.0-0.1m*

**REMARKS:**
- "BT13/20180206 and BT14/20180206 taken at 0.0-0.1m"
### Borehole Log

**Client:** Health Infrastructure  
**Project:** Mudgee Hospital Redevelopment  
**Location:** Lewis Street, Mudgee

**Surface Level:** 473.7 AHD  
**Easting:** 742762  
**Northing:** 6389763  
**Date:** 6/2/2018  
**Bore No:** 109  
**Project No:** 86091.00

---

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - brown-grey, clayey silt filling with some coarse sandstone gravel, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
</tbody>
</table>

Bore discontinued at 1.0m  
- limit of investigation

---

**Rig:** 6t excavator  
**Driller:** CCS  
**Logged:** MB  
**Casing:** Uncased  
**Surface Level:** 473.7 AHD  
**Easting:** 742762  
**Northing:** 6389763  
**Dip/Azimuth:** 90°/--  
**Remarks:** No free groundwater observed

---

**Sampling & In Situ Testing Legend:**  
A: Auger sample  
B: Bulk sample  
BLK: Block sample  
C: Core drilling  
D: Disturbed sample  
E: Environmental sample  
G: Gas sample  
P: Piston sample  
PL: Photo ionisation detector (ppm)  
PLA: Point load axial test (kN)  
PLD: Point load diametral test (kN)  
PP: Pocket penetrometer (kPa)  
S: Standard penetration test  
U: Tube sample (x mm dia.)  
W: Water sample  
V: Shear vane (kPa)

**Well Construction Details:**

---

**Water Observations:**
200mm diameter solid flight auger

---

**Remarks:**
- No free groundwater observed

---

**Douglas Partners**

Geotechnics | Environment | Groundwater
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee

**BORE No:** 110  
**PROJECT No:** 86091.00  
**DATE:** 6/2/2018  
**EASTING:** 742848  
**NORTHING:** 6389744  
**SHEET:** 1 OF 1

#### SURFACE LEVEL: 476.8 AHD  
#### DIP/AZIMUTH: 90°/--

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - brown-grey, clayey silt filling with some fine to coarse gravel (sandstone and siltstone) and sand, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>SILTY CLAY - brown silty clay with some fine to medium gravel (quartz and siltstone), damp</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1.0       | Bore discontinued at 1.0m  
- limit of investigation |                            |                           |

*BT11/2018026 and BT12/2018026 taken at 0.0-0.1m

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:**

<table>
<thead>
<tr>
<th>Sampling &amp; In Situ Testing Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Auger sample</td>
</tr>
<tr>
<td>B Bulk sample</td>
</tr>
<tr>
<td>C Core drilling</td>
</tr>
<tr>
<td>D Disturbed sample</td>
</tr>
<tr>
<td>E Environmental sample</td>
</tr>
<tr>
<td>G Gas sample</td>
</tr>
<tr>
<td>P Piston sample</td>
</tr>
<tr>
<td>U Tube sample (x mm dia.)</td>
</tr>
<tr>
<td>W Water sample</td>
</tr>
<tr>
<td>D Water level</td>
</tr>
<tr>
<td>S Standard penetration test</td>
</tr>
<tr>
<td>V Shear vane (kPa)</td>
</tr>
<tr>
<td>PL(D) Point load diametral test (kPa)</td>
</tr>
<tr>
<td>PL(A) Point load axial test (kPa)</td>
</tr>
</tbody>
</table>

**Water Level:**

**Health Infrastructure**

**Mudgee Hospital Redevelopment**

**REMARKS:**

- **Typical borehole log details**
- **Survey details**
- **Depth measurements**
- **Sample descriptions**
- **Notes and observations**
CLAYEY SILT - brown clayey silt with some fine to medium siltstone gravel, humid

Bore discontinued at 1.0m
- limit of investigation

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>A/E*</td>
<td></td>
<td>PID&lt;5ppm</td>
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</tr>
<tr>
<td>0.1</td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
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</tr>
<tr>
<td>1.0</td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
</tbody>
</table>

0.3m: becoming light brown

RIG: 6t excavator
DRILLER: CCS
LOGGED: MB
CASING: Uncased

TYPE OF BORING: 200mm diameter solid flight auger
WATER OBSERVATIONS: No free groundwater observed
REMARKS: *BT1/2018025 and BT2/20180205 taken at 0.0-0.1m

SAMPLING & IN SITU TESTING LEGEND:
A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample
G Gas sample
PID Photo ionisation detector (ppm)
PLA Point load axial test (50) (MPa)
PL(D) Point load diametral test (50) (MPa)
PP Pocket penetrometer (kPa)
S Standard penetration test
W Water sample
W level Water level
V Shear vane (kPa)
ASPHALTIC CONCRETE
SILTY CLAY - brown silty clay with some fine to medium sandstone gravel, humid

SANDSTONE - extremely low to very low strength, yellow-brown sandstone

Bore discontinued at 6.0m
- limit of investigation
## Borehole Log

**Client:** Health Infrastructure  
**Project:** Mudgee Hospital Redevelopment  
**Location:** Lewis Street, Mudgee  
**Surface Level:** 476.0 AHD  
**Easting:** 742811  
**Northing:** 6389733  
**Date:** 6/2/2018  
**Bore No:** 113  
**Project No:** 86091.00

### Sampler & In Situ Testing

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>Filling - dark brown, silty clay filling with some fine to coarse sandstone gravel, humid</td>
<td>A/E PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.25</td>
<td>Silty Clay - brown silty clay with some fine to medium ironstone gravel, humid</td>
<td>A/E PID&lt;5ppm</td>
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<tr>
<td>0.7m</td>
<td>Becoming light brown</td>
<td>A/E PID&lt;5ppm</td>
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</tr>
</tbody>
</table>
| 1.0       | Bore discontinued at 1.0m  
- limit of investigation |  |  |

### Sampling & In Situ Testing Legend

A. Auger sample  
B. Bulk sample  
C. Core drilling  
D. Disturbed sample  
E. Environmental sample  
F. Gas sample  
G. Gas sample  
P. Piston sample  
Q. Tube sample (x mm dia.)  
U. Tube sample  
W. Water sample  
X. Water level

- **SLD:** Standard penetration test
- **PID:** Photo ionisation detector (ppm)
- **PL(A):** Point load axial test (50) (MPa)
- **PL(D):** Point load diametral test (50) (MPa)
- **PP:** Pocket penetrometer (kPa)
- **PV:** Shear vane (kPa)

### Remarks:

- **Rig:** 6t excavator  
- **Driller:** CCS  
- **Logged:** MB  
- **Casing:** Uncased  
- **Type of Boring:** 200mm diameter solid flight auger  
- **Water Observations:** No free groundwater observed

---

**Douglas Partners**  
Geotechnics / Environment / Groundwater
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>CONCRETE - brown silty sand filling</td>
<td>A/E 0.5</td>
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</tr>
<tr>
<td>0.2</td>
<td>SILTY CLAY - brown silty clay with some fine to medium ironstone gravel, moist</td>
<td>A/E 1.0</td>
<td>PID&lt;5ppm</td>
</tr>
</tbody>
</table>

Bore discontinued at 1.0m
- limit of investigation
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 476.9 AHD  
**EASTING:** 742834  
**NORTHING:** 6389711  
**PROJECT No:** 86091.00  
**DATE:** 5/2/2018  
**BORE No:** 115  
**SHEET:** 1 OF 1

<table>
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<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Water</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>CLAYEY SILT - brown clayey silt with some fine to medium siltstone gravel, humid</td>
<td>AE*</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
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<tr>
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<td></td>
<td>AE</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
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<tr>
<td>0.5</td>
<td></td>
<td>AE</td>
<td>PID&lt;5ppm</td>
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<tr>
<td>0.9</td>
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<tr>
<td>1.0</td>
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</table>

Bore discontinued at 1.0m  
- limit of investigation

---

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased  
**TYPE OF BORING:** 200mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:**

---

**SAMPLING & IN SITU TESTING LEGEND**

| A | Auger sample | G | Gas sample | PID | Photo-ionisation detector (ppm) |
| B | Bulk sample | P | Piston sample | PLA | Point load axial test (50) (MPa) |
| BLK | Block sample | U | Tube sample (x mm dia.) | PLD | Point load diametral test (50) (MPa) |
| C | Core drilling | W | Water sample | po | Pocket penetrometer (kPa) |
| D | Disturbed sample | S | Standard penetration test |
| E | Environmental sample | V | Shear vane (kPa) |

---
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - brown, silty clay filling with some fine to coarse gravel (siltstone and sandstone), humid</td>
<td>A/E PID&lt;5ppm</td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3</td>
<td>CLAYEY SILT - brown clayey silt with some fine to medium siltstone gravel, humid</td>
<td>A/E PID&lt;5ppm</td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E PID&lt;5ppm</td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
<td></td>
</tr>
</tbody>
</table>

**Well Construction Details**
- PID<5ppm
- A/E

**SAMPLING & IN SITU TESTING LEGEND**
- A: Auger sample  
- B: Bulk sample  
- BLK: Block sample  
- C: Core drilling  
- D: Disturbed sample  
- E: Environmental sample  
- G: Gas sample  
- P: Piston sample  
- PL: Pocket penetrometer (kPa)  
- PID: Photo-ionisation detector (ppm)  
- PL(D): Point load diametral test (kPa)  
- PL(A): Point load axial test (kPa)  
- S: Standard penetration test  
- V: Shear vane (kPa)

**Additional Details**
- **Surface Level:** 476.9 AHD  
- **Easting:** 742878  
- **Nordiing:** 6389704  
- **Date:** 5/2/2018  
- **Rig:** 6t excavator  
- **Driller:** CCS  
- **Logged:** MB  
- **Casing:** Uncased

**Type of Boring:** 200mm diameter solid flight auger

**Water Observations:** No free groundwater observed

**Remarks:**
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 475.4 AHD  
**EASTING:** 742927  
**NORTHING:** 6389704  
**DATE:** 5/2/2018  
**BORE No:** 117  
**PROJECT No:** 86091.00

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - brown, gravelly (fine to medium sandstone and siltstone) silt filling with some clay and rootlets, humid</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3</td>
<td>CLAYEY SILT - brown, clayey silt with some fine to medium gravel (sandstone) and sandstone bands, humid</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1.0       |  |  | Bore discontinued at 1.0m  
|           | - limit of investigation |  |  |

**REMIXS:**

- **RIG:** 6t excavator  
- **DRILLER:** CCS  
- **LOGGED:** MB  
- **CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed

**SAMPLING & IN SITU TESTING LEGEND**

- A Auger sample  
- B Bulk sample  
- C Core drilling  
- D Disturbed sample  
- E Environmental sample  
- G Gas sample  
- P Piston sample  
- U Tube sample (x mm dia.)  
- W Water sample  
- F Water level  
- PID Photo-ionisation detector (ppm)  
- PL(A) Point load axial test Is(50) (MPa)  
- PL(D) Point load diametral test Is(50) (MPa)  
- SW Standard penetration test
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 477.5 AHD  
**EASTING:** 742858  
**NORTHING:** 6389677  
**DATE:** 5/2/2018  
**PROJECT No:** 86091.00

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>SILTY CLAY - brown silty clay with some fine to medium gravel (siltstone and ironstone), humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bore discontinued at 1.0m  
- limit of investigation

---

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:**

---

**SAMPLING & IN SITU TESTING LEGEND**

- **A** Auger sample
- **B** Bulk sample
- **BLK** Block sample
- **C** Core drilling
- **D** Disturbed sample
- **E** Environmental sample
- **G** Gas sample
- **P** Piston sample
- **PL** Pocket penetrometer (kPa)
- **PL(D)** Point load diametral test (kPa)
- **PL(A)** Point load axial test (kPa)
- **S** Standard penetration test
- **W** Water sample
- **W(L)** Water level
- **V** Shear vane (kPa)

---

**Douglas Partners**

Geotechnics | Environment | Groundwater
### Description of Strata

- **FILLING** - brown and grey, clayey silt filling with some fine to coarse gravel (sandstone and siltstone), humid
- **SILTY CLAY** - brown silty clay with some fine to medium siltstone gravel, humid

- Bore discontinued at 1.6m - limit of investigation

### Sampling & In Situ Testing

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Type</th>
<th>Results &amp; Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.1</td>
<td>A/E</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.5</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.9</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>1.0</td>
<td>A/E</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>1.3</td>
<td>A/E</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>1.6</td>
<td>A/E</td>
<td></td>
</tr>
</tbody>
</table>

### Remarks:
- No free groundwater observed

---

**DATE:** 5/2/2018

**SURFACE LEVEL:** 477.0 AHD

**EASTING:** 742885

**NORTHING:** 6389672

**PROJECT No:** 86091.00

**BORE No:** 119

**CASING:** Uncased

**RIG:** 6t excavator

**LOGGED:** MB

**DRILLER:** CCS

**CLIENT:** Health Infrastructure

**PROJECT:** Mudgee Hospital Redevelopment

**LOCATION:** Lewis Street, Mudgee

---

**Well Construction Details**

- **PID<5ppm**
- **A/E**
- **0.0**
- **0.1**
- **0.4**
- **0.5**
- **0.9**
- **1.0**
- **1.2**
- **1.3**
- **1.5**
- **1.6**

---

**Water Level**

- **0.0**
- **0.1**
- **0.4**
- **0.5**
- **0.9**
- **1.0**
- **1.2**
- **1.3**
- **1.5**
- **1.6**

---

**Sampling & In Situ Testing Legend**

- A: Auger sample
- B: Bulk sample
- BLK: Block sample
- C: Core drilling
- D: Disturbed sample
- E: Environmental sample
- G: Gas sample
- P: Piston sample
- U: Tube sample (x mm dia.)
- W: Water sample
- D: Disturbed sample
- V: Shear vane (kPa)
- PL(D): Point load diametral test (50) (MPa)
- PL(A): Point load axial test (50) (MPa)
- PP: Pocket penetrometer (kPa)
- SP: Standard penetration test
- PID: Photo ionisation detector (ppm)
### BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 475.6 AHD  
**EASTING:** 742916  
**NORTHING:** 6389665  
**DATE:** 5/2/2018  
**BORE No:** 120  
**PROJECT No:** 86091.00  
**RIG:** Comacchio 305  
**DRILLER:** SS  
**LOGGED:** MB  
**CASING:** Uncased  
**TYPE OF BORING:** Solid flight auger (TC-bit) to 6.0m  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:** Possible asbestos found at surface

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.7</td>
<td>CLAYEY SILT - brown, clayey silt with some fine to medium gravel (siltstone and ironstone), humid</td>
<td></td>
<td>A/E 0.1: P1D&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>SILTY CLAY - brown silty clay with some fine to medium gravel (siltstone and ironstone), damp</td>
<td></td>
<td>A/E 0.5: P1D&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>4.4</td>
<td>SILTSTONE - extremely low to very low strength, yellow-brown siltstone</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 6.0       | Bore discontinued at 6.0m  
- limit of investigation |  |  |  |
## BOREHOLE LOG

### CLIENT:
Health Infrastructure

### PROJECT:
Mudgee Hospital Redevelopment

### LOCATION:
Lewis Street, Mudgee

### SURFACE LEVEL:
473.6 AHD

### EASTING:
742910

### NORTHING:
6389808

### DATE:
5/2/2018

### PROJECT No:
86091.00

### SHEET:
1 OF 1

### WELL Construction Details

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - grey, gravelly (fine to coarse sandstone and siltstone, clay filling with some silt and glass, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.1</td>
<td>SILTY CLAY - brown, silty clay with some fine to medium siltstone and ironstone gravel and siltstone bands, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>1.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bore discontinued at 1.4m - limit of investigation

### RIG:
6t excavator

### DRILLER:
CCS

### LOGGED:
MB

### CASING:
Uncased

### TYPE OF BORING:
200mm diameter solid flight auger

### WATER OBSERVATIONS:
No free groundwater observed

### REMARKS:

### SAMPLING & IN SITU TESTING LEGEND

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Type</th>
<th>Depth</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Auger sample</td>
<td>A</td>
<td>0.0</td>
<td>A/E</td>
</tr>
<tr>
<td>B</td>
<td>Bulk sample</td>
<td>B</td>
<td>0.1</td>
<td>A/E</td>
</tr>
<tr>
<td>C</td>
<td>Core drilling</td>
<td>C</td>
<td>0.4</td>
<td>A/E</td>
</tr>
<tr>
<td>D</td>
<td>Disturbed sample</td>
<td>D</td>
<td>0.9</td>
<td>A/E</td>
</tr>
<tr>
<td>E</td>
<td>Environmental sample</td>
<td>E</td>
<td>1.0</td>
<td>A/E</td>
</tr>
<tr>
<td>O</td>
<td>Gas sample</td>
<td>O</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Piston sample</td>
<td>P</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Tube sample (x mm dia.)</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Water sample</td>
<td>W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Water level</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Standard penetration test</td>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Shear vane (kPa)</td>
<td>V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PIID<5ppm**

**Well Construction Details**

- **PID**: Photo-ionisation detector (ppm)
- **PLA**: Point load axial test (kPa)
- **PLD**: Point load diametral test (kPa)

**Well Construction Details**

- **Surface Level**: 473.6 AHD
- **Easting**: 742910
- **Northing**: 6389808
- **Dip/Azimuth**: 90°/--
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Type of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FILLING - grey, silty clay filling with some fine to coarse sandstone gravel and building rubble (concrete, tile fragments), humid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.05</td>
<td>SILTY CLAY - brown silty clay with some fine to medium sandstone gravel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>Bore discontinued at 0.1m - limit of investigation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Client:** Health Infrastructure  
**Project:** Mudgee Hospital Redevelopment  
**Location:** Lewis Street, Mudgee  
**Surface Level:** 475.2 AHD  
**Easting:** 742832  
**Northing:** 6389794  
**Date:** 6/2/2018  
**Bore No:** B2  
**Project No:** 86091.00  
**Sheet:** 1 of 1

**Type of Boring:** Hand digging to 0.1m  
**Water Observations:** No free groundwater observed  
**Remarks:**  
*BT17/20180206 and BT18/2018026 taken at 0.0m. Ground about 1m below FFL*
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Type</th>
<th>Sample</th>
<th>Results &amp; Comments</th>
<th>Water</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>TOPSOIL FILLING - dark brown, clayey silt topsoil filling with some fine to medium sandstone gravel, humid</td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>SILTY CLAY - brown silty clay with some fine to coarse gravel (ironstone and siltstone) and ironstone bands, humid</td>
<td>A/E</td>
<td>0.1</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td></td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td></td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
<td>A/E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SAMPLING & IN SITU TESTING LEGEND**

- **A**: Auger sample
- **B**: Bulk sample
- **BLK**: Block sample
- **C**: Core drilling
- **D**: Disturbed sample
- **E**: Environmental sample
- **G**: Gas sample
- **P**: Piston sample
- **PL(A)**: Point load axial test (Is(50) (MPa)
- **PL(D)**: Point load diametral test (Is(50) (MPa)
- **W**: Water sample
- **W**: Water sample
- **S**: Standard penetration test
- **V**: Shear vane (kPa)

**RIG**: 6t excavator  
**DRILLER**: CCS  
**LOGGED**: MB  
**CASING**: Uncased  

**TYPE OF BORING**: 200mm diameter solid flight auger  
**WATER OBSERVATIONS**: No free groundwater observed  
**REMARKS**: 

---

**BOREHOLE LOG**

**CLIENT**: Health Infrastructure  
**PROJECT**: Mudgee Hospital Redevelopment  
**LOCATION**: Lewis Street, Mudgee  

**SURFACE LEVEL**: 475.5 AHD  
**EASTING**: 742818  
**NORTHING**: 6389778  
**DATE**: 6/2/2018  
**PROJECT No**: 86091.00  
**DATE**: 6/2/2018  
**SHEET**: 1 OF 1  

**REMARKS**:

- No free groundwater observed

---

**Well Construction Details**

- PID<5ppm
- No free groundwater observed

---

**Douglas Partners**

Geotechnics | Environment | Groundwater
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - dark grey, clayey silt filling with some fine to medium sandstone gravel and brick rubble, humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>SILTY CLAY - brown, silty clay with some fine to medium gravel (siltstone and ironstone), humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Well Construction Details**

**PID<5ppm**

**Remarks:**

- No free groundwater observed

**Type of Boring:** 200mm diameter solid flight auger

**Water Observations:** No free groundwater observed

**Rig:** 6t excavator **Driller:** CCS **Logged:** MB **Casing:** Uncased

---

**Legend:**

- A: Auger sample
- B: Bulk sample
- BLK: Block sample
- C: Cone drilling
- D: Disturbed sample
- E: Environmental sample
- G: Gas sample
- P: Piston sample
- U: Tube sample (20 mm dia.)
- W: Water sample
- S: Water level
- V: Shear vane (kPa)
- PID: Photo-ionisation detector (ppm)
- PL(D): Point load diametral test (50) (MPa)
- PL(A): Point load axial test (50) (MPa)
- PP: Pocket penetrometer (kPa)
- SW: Standard penetration test
## BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 475.2 AHD  
**EASTING:** 742866  
**NORTHING:** 6389787  
**DATE:** 6/2/2018  
**PROJECT No:** 86091.00  
**REMARKS:** Drilled through floor of building (timber floorboards). Ground 0.55m below floor level  
**WATER OBSERVATIONS:** No free groundwater observed  

### Sampling & In Situ Testing

<table>
<thead>
<tr>
<th>Type</th>
<th>Depth</th>
<th>Sample</th>
<th>Results &amp; Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auger sample</td>
<td>0.1</td>
<td>AE</td>
<td>PID&lt;5ppm</td>
</tr>
<tr>
<td>Auger sample</td>
<td>0.3</td>
<td>AE</td>
<td>PID&lt;5ppm</td>
</tr>
</tbody>
</table>

**Well Construction Details**

- **Well No:** B5  
- **Depth:** 1 m  
- **Construction Details:** PID<5ppm

### Description of Strata

- **FILLING:** brown-grey, silty clay filling with some fine to coarse sandstone gravel and building rubble (tile fragments and brick), humid  
- **SILTY CLAY:** brown silty clay with some fine to coarse sandstone gravel, damp  
- **Bore discontinued at 0.3m - limit of investigation**

**RIG:** Hand tools  
**DRILLER:** MB  
**LOGGED:** MB  
**CASING:** Uncased  
**TYPE OF BORING:** Hand auger to 0.3m  
**SHEET:** 1 OF 1

### Sampling & In Situ Testing Legend

- A: Auger sample  
- B: Bulk sample  
- BLK: Block sample  
- C: Cone drilling  
- D: Disturbed sample  
- E: Environmental sample  
- G: Gas sample  
- P: Piston sample  
- U: Tube sample (x mm dia.)  
- W: Water sample  
- D: Water level  
- S: Standard penetration test  
- PLU: Point load axial test (50) (MPa)  
- PL(D): Point load diametral test (50) (MPa)  
- PID: Photo ionisation detector (ppm)  
- ST: Shear vane (kPa)  

---

**Douglas Partners**

Geotechnics | Environment | Groundwater
### Description of Strata

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>TOPSOIL - dark brown, clayey silt topsoil with some fine to medium ironstone gravel and rootlets, humid</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>SILTY CLAY - brown silt clay with some fine to medium ironstone gravel, damp</td>
</tr>
<tr>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Bore discontinued at 1.0m - limit of investigation</td>
</tr>
</tbody>
</table>

### Sampling & In Situ Testing

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Type</th>
<th>Sample</th>
<th>Results &amp; Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SURFACE LEVEL: 475.0 AHD

### EASTING: 742793

### NORTHING: 6389747

### DATE: 6/2/2018

### SHEET 1 OF 1
## BOREHOLE LOG

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee  
**SURFACE LEVEL:** 475.4 AHD  
**EASTING:** 742892  
**NORTHING:** 6389702  
**PROJECT No:** 86091.00  
**DATE:** 6/2/2018  
**DATE:** 6/2/2018  
**DATE:** 6/2/2018  
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**DATE:** 6/2/2018  

### Sampling & In Situ Testing

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water Level</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>FILLING - brown-grey, clayey silt filling with some fine to coarse sandstone gravel and building rubble (tile fragments), humid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>SILTY CLAY - brown silty clay with some fine to medium sandstone gravel, humid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bore discontinued at 0.2m  - limit of investigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RIG:** Hand tools  
**DRILLER:** MB  
**LOGGED:** MB  
**CASPING:** Uncased  

**TYPE OF BORING:** Hand auger to 0.2m  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:** Approximately 1m below ground level

### SAMPLING & IN SITU TESTING LEGEND

- A Auger sample  
- B Bulk sample  
- BLK Block sample  
- C Core drilling  
- D Disturbed sample  
- E Environmental sample  
- G Gas sample  
- P Piston sample  
- S Load sample  
- W Water sample  
- Water level  
- PID<5ppm  
- V Shear vane (kPa)  
- PLU Point load axial test (50) (MPa)  
- PL(D) Point load diametral test (50) (MPa)  
- S Standard penetration test  
- PP Pocket penetrometer (kPa)  

---

**Well Construction Details**

- **PID<5ppm**
- **A/E**
- **0.0**
- **0.2**

---

**Well Construction Details**

- **PID<5ppm**
- **A/E**
- **0.0**
- **0.2**
Borehole Log

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee

**SURFACE LEVEL:** 477.7 AHD  
**EASTING:** 742900  
**NORTHING:** 6389708  
**DATE:** 5/2/2018  
**PROJECT No:** 86091.00  
**DATE:** 5/2/2018  
**SHEET 1 OF 1**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Water</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILLING - brown, silty clay filling with some fine to medium gravel (sandstone and siltstone), humid</td>
<td>A/E</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>SILTY CLAY - brown, silty clay with some fine to medium siltstone gravel, humid</td>
<td>A/E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>1.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bore discontinued at 1.4m - limit of investigation

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:** *BT3/20180205 and BT4/20180205 taken at 0.4m to 0.5m*
**BOREHOLE LOG**

**CLIENT:** Health Infrastructure  
**PROJECT:** Mudgee Hospital Redevelopment  
**LOCATION:** Lewis Street, Mudgee

**SURFACE LEVEL:** 474.1 AHD  
**EASTING:** 742764  
**NORTHING:** 6389742  
**PROJECT No:** 86091.00  
**DATE:** 6/2/2018  
**BORE No:** B9  
**DIP/AZIMUTH:** 90°/--

---

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Graphic Log</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Water</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3</td>
<td>FILLING - dark brown, clayey silt filling with some fine to coarse sandstone gravel, humid</td>
<td>A/E</td>
<td>0.0</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>SILTY CLAY - brown silty clay with some fine to medium gravel (ironstone and sandstone), humid</td>
<td>A/E</td>
<td>0.1</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td></td>
<td>A/E</td>
<td>0.4</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td></td>
<td>A/E</td>
<td>0.9</td>
<td>PID&lt;5ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1.0       | Bore discontinued at 1.0m  
- limit of investigation |  | 1.0 |  |  |  |

---

**RIG:** 6t excavator  
**DRILLER:** CCS  
**LOGGED:** MB  
**CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger  
**WATER OBSERVATIONS:** No free groundwater observed  
**REMARKS:**

---

**SAMPLING & IN SITU TESTING LEGEND**

- **A** Auger sample  
- **B** Bulk sample  
- **BLK** Block sample  
- **C** Core drilling  
- **D** Disturbed sample  
- **E** Environmental sample  
- **G** Gas sample  
- **P** Piston sample  
- **PL(D)** Point load diametral test (kPa)  
- **PL(A)** Point load axial test (kPa)  
- **PP** Pocket penetrometer (kPa)  
- **S** Standard penetration test  
- **U** Tube sample (x mm dia.)  
- **W** Water sample  
- **W** Water level  
- **V** Shear vane (kPa)  
- **PID** Photo-ionisation detector (ppm)
FILLING - grey, gravelly (fine to coarse sandstone), clay filling with some silt, sand and fibro pipe fragments, humid

SILTY CLAY - brown silty clay with some fine to medium gravel (ironstone and sandstone), humid

Bore discontinued at 1.0m
- limit of investigation
**TOPSOIL** - dark brown, clayey silt topsoil with some rootlets, humid

**SILTY CLAY** - brown, silty clay with some fine to medium ironstone gravel and ironstone bands, humid

Bore discontinued at 1.0m
- limit of investigation

---

**Sampling & In Situ Testing**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>AE*</td>
</tr>
<tr>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>AE</td>
</tr>
<tr>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>AE</td>
</tr>
<tr>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

---

**Well Construction Details**

- **RIG:** 6t excavator
- **DRILLER:** CCS
- **LOGGED:** MB
- **CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:** *BT9/20180206 and BT10/20180206 taken at 0.0-0.1m

---

**Sampling & In Situ Testing Legend**

- **A** Auger sample
- **B** Bulk sample
- **BLK** Block sample
- **C** Core drilling
- **D** Disturbed sample
- **E** Environmental sample
- **G** Gas sample
- **P** Piston sample
- **PL** Point load axial test (kN) (MPa)
- **PL(D)** Point load diametral test (kN) (MPa)
- **PP** Pocket penetrometer (kPa)
- **S** Standard penetration test
- **W** Water sample
- **V** Shear vane (kPa)
- **PID** Photo-ionisation detector (ppm)

---

**Surface Level:** 473.4 AHD

**EASTING:** 742858

**NORTHING:** 6389869

**DATE:** 6/2/2018

**PROJECT No:** 86091.00

---

**Well Construction Details**

- **RIG:** 6t excavator
- **DRILLER:** CCS
- **LOGGED:** MB
- **CASING:** Uncased

**TYPE OF BORING:** 200mm diameter solid flight auger

**WATER OBSERVATIONS:** No free groundwater observed

**REMARKS:** *BT9/20180206 and BT10/20180206 taken at 0.0-0.1m
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Description of Strata</th>
<th>Sampling &amp; In Situ Testing</th>
<th>Results &amp; Comments</th>
<th>Well Construction Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>FILLING - grey, silty clay filling with some fine to coarse sandstone gravel and building rubble (concrete fragments, tiles, pipe fragments), humid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>CLAYEY SILT - brown clayey silt with some fine to medium ironstone gravel, humid</td>
<td></td>
<td></td>
<td>Bore discontinued at 0.1m - limit of investigation</td>
</tr>
</tbody>
</table>

### Sampling & In Situ Testing Legend

- A: Auger sample
- B: Bulk sample
- BLK: Block sample
- C: Core drilling
- D: Disturbed sample
- E: Environmental sample
- G: Gas sample
- PID: Photo-ionisation detector (ppm)
- PL(A): Point load axial test (50) (MPa)
- PL(D): Point load diametral test (50) (MPa)
- S: Standard penetration test
- W: Water sample
- Water level
- V: Shear vane (kPa)

### Remarks
- 0.3m below FFL of garage
- Health Infrastructure
- Mudgee Hospital Redevelopment
- Lewis Street, Mudgee
- SURFACE LEVEL: 473.4 AHD
- EASTING: 742844
- NORTHING: 6389867
- DIP/AZIMUTH: 90°/
- DATE: 6/2/2018
- SHEET 1 OF 1

### Water Observations
- No free groundwater observed

### Well Construction Details
- RIG: Hand tools
- DRILLER: MB
- LOGGED: MB
- CASING: Uncased

### Construction Details
- type of boring: Hand digging to 0.1m
- TYPE OF BORING: Hand digging to 0.1m
Site Photographs

Preliminary Site Investigation

MUDGEE

CLIENT: Health Infrastructure

PROJECT: 86091.00

PLATE No: S1

REV: 0

DATE: 22-Sep-17
Photo 3 - Area to east of Community Health building looking north-east

Photo 4 - Area to north of Community Health building looking north-west
Photo 5 - Area to south of Wellness Centre looking east

Photo 6 - View of Boiler House looking north