

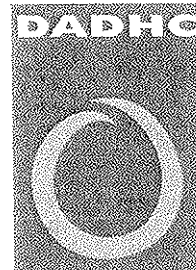
**Department  
of Ageing,  
Disability &  
Home Care**

## **John Williams Hospital – Stage 1 Preliminary Environmental Investigation**



» Final Report – October 2004

Thornton Consulting Pty Ltd



Department  
of Ageing,  
Disability &  
Home Care

## John Williams Hospital – Stage 1 Preliminary Environmental Investigation

- Final Report
- October 04

Thornton Consulting Pty Ltd  
4/240 West St Crows Nest  
ACN 11 065 779  
ABN 91 111 065 779



## Contents

|                                                          |           |
|----------------------------------------------------------|-----------|
| <b>1. Executive Summary</b>                              | <b>1</b>  |
| <b>2. Introduction</b>                                   | <b>3</b>  |
| 2.1 Background                                           | 3         |
| 2.2 Objective                                            | 3         |
| 2.3 The site                                             | 3         |
| <b>3. Site Historical Information</b>                    | <b>6</b>  |
| 3.1 Sources of Information                               | 6         |
| 3.2 Historical Land Titles Search                        | 6         |
| 3.3 Historical Aerial Photograph Search                  | 7         |
| 3.4 Information from the NSW EPA                         | 11        |
| 3.5 Information from DIPNR – Groundwater Borehole Search | 11        |
| 3.6 Review of the Rippon Grange Draft Conservation Plan  | 11        |
| 3.7 Conclusions from the Site Historical Search          | 12        |
| <b>4. The Site and Surrounding Areas</b>                 | <b>13</b> |
| 4.1 Topography, Geology and Surface Hydrology            | 13        |
| 4.2 Site Inspection                                      | 13        |
| 4.3 Surrounding Environment                              | 16        |
| <b>5. Conclusions</b>                                    | <b>17</b> |

### Appendix A Historical Land Titles Search

### Appendix B DIPNR Ground Water Bore Data Search



## QA Document History

| Revision | Date            | Author  | Reviewed by | Number of Copies | Issued to     |
|----------|-----------------|---------|-------------|------------------|---------------|
| Draft    | 15 October 2004 | W Yates | F Thornton  | 1                | P Laz - DADHC |
| Final    | 28 October 2004 | W Yates | P Laz       | 3                | P Laz - DADHC |
|          |                 |         |             | 1                | W Yates       |
|          |                 |         |             |                  |               |
|          |                 |         |             |                  |               |
|          |                 |         |             |                  |               |
|          |                 |         |             |                  |               |
|          |                 |         |             |                  |               |
|          |                 |         |             |                  |               |
|          |                 |         |             |                  |               |

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Printed:          | 28 October 2004                                 |
| File name:        | Final Report V2                                 |
| Author:           | Warren Yates                                    |
| Project manager:  | Warren Yates                                    |
| Name of project:  | John Williams Pre Sale                          |
| Name of document: | Stage 1 Preliminary Environmental Investigation |
| Document version: | Final                                           |
| Project number:   | EN003                                           |



## 1. Executive Summary

John Williams Hospital (the site) in the northern Sydney Suburb of Wahroonga is the site subject to this Pre Sale Stage 1 Environmental (Contamination) Investigation. The Stage 1 Environmental Investigation consists of a historical review of available information and a review of on-site conditions through a site inspection.

The historical review of the site revealed the following:

- The site was originally vacant and part of a larger parcel of land;
- The site was subdivided in 1880 and 'Rippon Grange' was constructed in 1898;
- In 1951, the site was donated to the NSW Government and became the John Williams Hospital;
- There is evidence that a sewage plant may have existed on the site;
- The only previous areas of environmental concern are as follows:
  - Possible use of a portion of the site as a small sewage plant; and
  - The use of backup diesel generators or diesel boilers and associated underground storage tanks (UST) from the most recent hospital use.

The review of site conditions revealed the following:

- There was no evidence of any gross contamination noted during the site inspection;
- There was no evidence on the site that any of the boilers were diesel filled. All boilers inspected were either natural gas or wood/coal fired;
- There was no evidence of any USTs;
- There is the possibility that asbestos containing materials are present on the site as suspect materials were noted during the site inspection (this has not been confirmed by laboratory testing);
- All buildings are of the age where Polychlorinated biphenyls (PCBs) may exist in fluorescent light capacitors and lead based paint may exist; and
- No evidence of the former sewage plant was observed during the site visit.

Based on the above conclusions, the following issues of environmental concern exist:

- The most recent use as a small hospital. USTs associated with diesel boilers and backup diesel generators pose issues of environmental concern, however no evidence of any USTs, diesel backup generators or diesel boilers were observed during the site inspection.



- There is historical evidence that a small sewerage plant may have existed on the site, however no evidence was noted during the site inspection;
- Suspected asbestos containing materials (not laboratory tested) were noted during the site inspection; and
- All buildings are of the age where PCBs and Lead based paint may exist.



## 2. Introduction

### 2.1 Background

Thornton Consulting has been engaged by the Department of Ageing, Disability and Home Care (DADHC) to prepare a Pre Sale Stage 1 Preliminary Environmental (Contamination) Investigation for the John Williams Hospital (the site) in Wahroonga. This report is prepared as a disclosure document and accordingly will outline any issues of environmental concern associated with the site.

The Pre Sale Stage 1 Preliminary Environmental (Contamination) Investigation consists of a historical review of available information on the site and a review of on-site conditions through a site inspection.

### 2.2 Objective

The objective of the investigation is to disclose the following information to prospective purchasers:

- All past and present potentially contaminating activities;
- Potential contamination types;
- Site conditions; and
- Provide a preliminary assessment of site contamination.

To achieve the objective of this investigation, Thornton Consulting has undertaken the following:

- Identify possible contamination issues based on available historical data and on-site information;
- Draw conclusions on-site contamination issues based on limited historical information and site inspection; and
- Prepare a report outlining the findings of the investigation

It is intended that prospective purchasers will use this information to determine what if any environmental risk is associated with the property purchase.

### 2.3 The site

The site is known as John Williams Hospital and is located at 35 Water St, Wahroonga. It is separated into 2 lots, Lot 1 in DP 375262 comprising the John Williams Hospital and Lot 1 DP 726091 comprising the Fairfax House Nursing Quarters. The sizes for Lot 1 in DP 375262 and Lot 1 in DP 726091 are 21,320m<sup>2</sup> and 1,612m<sup>2</sup> respectively totalling 22,932m<sup>2</sup> for the entire site.



The site is bounded by Water St to the North, Young St to the East, Billyard and residential properties to the south and residential properties to the West. The surrounding areas are predominantly residential with Wahroonga Primary School located directly across Water St.

The site is roughly rectangular in shape, with the addition of a second rectangular shape to the south, which contains Fairfax House.

There are eight main buildings on the site, listed below:

Lot 1 in DP 375262 (John Williams Site)

- John Williams Hospital Main Building (Rippon Grange + additions)
- The swimming pool
- The swimming pool pump house
- The garage
- The classroom block west of the garage
- The classroom block to the north east of the main hospital building
- The stables

Lot 1 in DP 726091

- John Fairfax House Nursing Quarters

A copy of the 1954 site layout is included in **Figure 1**. The more recent additions are marked in red and have the construction date notated.



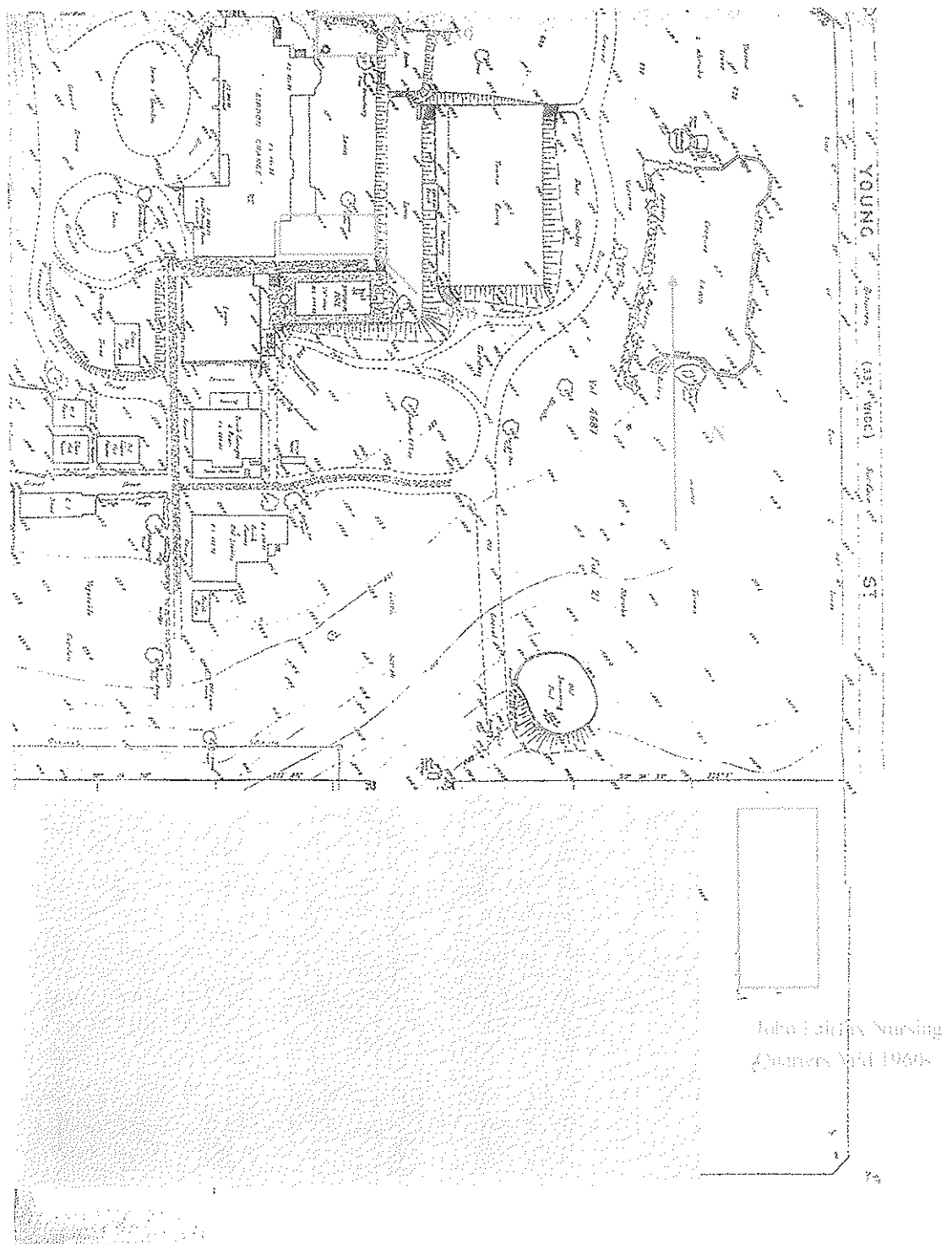


Figure 1 – 1954 site layout.



### 3. Site Historical Information

#### 3.1 Sources of Information

The sources of information used for this Stage 1 Preliminary Site Investigation of John Williams Hospital are listed below:

- Historical Land Titles;
- Historical Aerial Photography;
- Conservation and Heritage Reports supplied to Thornton Consulting by DADHC;
- Information from The NSW EPA; and
- Information from the Department of Infrastructure, Planning and Natural Resources

#### 3.2 Historical Land Titles Search

The results from the historical titles search are listed below:

The entire site was granted to John Terry Hughes in 1840. From 1840 the site changed titles a number of times until in 1880 it was subdivided by John Fitzgerald Burns and Robert Burdett Smith. From 1880 onwards the historical land titles search will be broken down into the 2 lot and DP numbers that make up the site:

##### **Lot 1 in DP 375262 – John Williams Hospital**

From 1880 to 1920 this Lot and DP was separated into numbers 1, 2 and 3. All three numbers were owned by numerous owners over this 40 year period. From 1898 – 1900 number 1 was owned by Thomas Henry Relley (Orchardist). In 1922 the title of all three numbers was transferred to Harriett Marion Sarah Braddock, then to Earnest Robert Williams in 1935. In 1951 the title was transferred to 'His Most Gracious Majesty King George the Sixth (now Her Most Gracious Majesty Queen Elizabeth the Second)'.

The title remains in the name of Her Majesty Queen Elizabeth the Second as of 5 October 2004.

##### **Lot 1 in DP 726091 – John Fairfax Nursing Quarters**

The title was originally transferred to Charles Rhodes in 1882. From 1882 to 1948 the title of the site changed hands on numerous occasions when Martin Jacobsohn and Irmgaard Teresina Jacobsohn acquired the site. In 1954 the title was transferred to the Royal Alexandria Hospital for Children, Camperdown and then in 2002 to the Minister for Community Services.

The site remains in the title of Minister for Community Services as at 5 October 2004.



### **Conclusions from the Historical Land Titles Search**

The historical title search did not reveal any potentially contaminating owners of the site with the exception of number 1, Lot 1 in DP 375262 where the site was owned by an orchardist from 1898 to 1900 and the most recent use of the site as a hospital.

Given that the orchardist owned the site for a period of less than two years, over 100 years ago, it is highly unlikely any contamination would still exist from any orchard activities that may have taken place on-site. Therefore this does not constitute an issue of environmental concern.

There is also the possibility that the site may be contaminated from the most recent hospital use. Likely sources of contamination would be from old underground storage tanks associated with diesel fuelled boilers or backup diesel power generators.

### **3.3 Historical Aerial Photograph Search**

A review of historical aerial photographs was undertaken at Land and Property Information NSW in Bridge St Sydney. The following results were noted during the review:

#### **March 1930 Photograph**

The site consists of what appears to be open lawns, with a track or driveway running from north to south. A few scattered buildings appear on the north west corner of the site. The photograph is slightly blurry making it difficult to define building shapes. There is no building on the John Fairfax Nursing Quarters site.

The surrounding areas are predominantly rural/residential properties with reasonable tree cover across the whole area. There is no sign of development on the Wahroonga Public School Site to the north.

#### **May 1951 Photograph**

The current house and surrounding buildings can clearly be seen on the northern portion of the site. The buildings include the main house (no significant additions from the 1931 photograph), the Stables, the Garage and the swimming pool (no roof). The southern and eastern portion of the site is dominated by trees. There is no building on the John Fairfax Nursing Quarters site.

The surrounding areas are fairly similar to that seen in the 1931 photograph. Development of Wahroonga Public School can be seen with what appears to be 2 or 3 buildings on the grounds. The remaining surrounds comprise primarily large block residential properties.

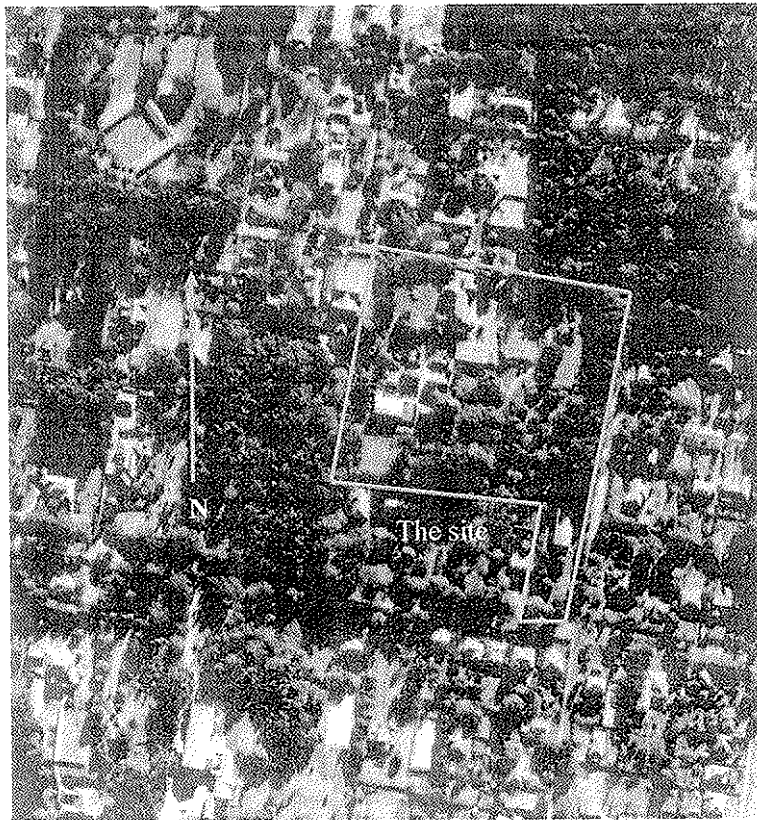


Figure 2 – 1961 Photograph

**1961 Photograph (pictured – Figure 2)**

The site appears predominantly unchanged when compared to the 1951 photograph with the exception of a few additional buildings. The additional buildings are:

- The classroom extension to the north east of the main house;
- The swimming pool enclosure;
- The swimming pool plant shed; and
- The classroom to the west of the stable.

The John Fairfax Nursing Quarters are now visible on Lot 1 in DP 726091. There are no other significant changes to the site.

The surrounds remain fairly similar with the development of Wahroonga Public School to the north. A swimming pool can now clearly be seen in the school grounds.



#### **July 1970 Photograph**

The extension to the south east of the main house can now be seen and the site is very similar to how it appears in 2004. There are no other significant changes to the site with other than the north east corner which appears more overgrown with shrubs and trees.

There are no significant changes to the surrounding areas.

#### **March 1978 Photograph**

There is little change to the site from the 1978 photograph. A small building, possibly an incinerator is visible to the south of the stables.

There is no change to the surrounding areas.

#### **August 1986 Photograph**

There is no significant change to the site and surrounding areas.

#### **October 1994 Photograph**

There is no significant change to the site and surrounding areas.



**Figure 3 - March 2002 Photograph**

**March 2002 Photograph (Pictured – Figure 3)**

There is no significant change to the site and surrounding areas. The site has remained almost unchanged since the 1970 photograph.

**Conclusions from the Historical Aerial Photograph Search**

The historical aerial photograph search revealed that the site was originally a large house, garage and stable dating back to the 1930 photograph. In between 1951 and 1970 there was considerable development on the site with the addition of numerous buildings that were added as part of the hospital use. The site and surrounding areas remained significantly unchanged from the 1970 photograph to the most recent photograph in 2002.

No issues of environmental concern were noted during the historical aerial photograph review.



### 3.4 Information from the NSW EPA

As part of the Historical Site Assessment a search of all sites registered with the NSW Environmental Protection Agency (EPA) under the *Contaminated Land Management Act 1997* (CLM Act 1997) and the *Environmentally Hazardous Chemicals Act 1985* (EHC, Act 1985) has been undertaken.

The NSW EPA records indicate that the site holds no licenses pertaining to contamination issues. The closest site registered under the CLM Act 1997 is at St Ives, approximately 5km to the north east of the site.

#### Conclusions from the NSW EPA Search

No issues of environmental concern were raised during the review NSW EPA public data bases.

### 3.5 Information from DIPNR – Groundwater Borehole Search

A search of water supply boreholes registered with the Department of Infrastructure, Planning and Natural Resources (DIPNR) formerly the Department of Land and Water Conservation (DLWC) was undertaken in September 2004.

The closest borehole was located approximately 1km to the south of the site, drilled in 1965 for domestic purposes. Water bearing zones were located approximately 18m and 20m below the ground level. No chemical data was available for this bore hole.

The only other borehole within a 1km radius of the site was drilled in 1982 for irrigation purposes. Water bearing zones were recorded at 4m and 80m below ground level. No chemical data was available for this borehole.

No other relevant information was revealed during the bore hole investigation.

#### Conclusions from the Groundwater Bore Data Search

No issues of environmental concern were raised during the review of groundwater borehole data from the Department of Infrastructure, Planning and Natural Resources.

### 3.6 Review of the Rippon Grange Draft Conservation Plan

The *Rippon Grange 35 Water St Wahroonga Draft Conservation Plan* by Rod Howard Conservation Pty Ltd January 2001, was reviewed as part of the site historical review.

The following was noted in the report:

- The report only covered the Lot 1 in DP 375262;
- In 1880 Lot 1 in DP 375262 was subdivided into its present size;



- The main hospital building was constructed as a house for Frederick George Sargood in 1898 who named it Rippon Grange. The garage and stable were constructed some time in between 1898 and 1922;
- In 1922 a small orchard was located south east corner of the site;
- In 1937 the swimming pool was constructed on the site.
- By November 1951 the main building was operating as a hospital site;
- A small sewerage plant was constructed on the site in the mid 1950s;
- In 1955 the school classroom was added to the west of the stables;
- In 1957 the John Fairfax Nursing Quarters were opened;
- In 1960 the swimming pool was enclosed with a roof and heated;
- The single story classroom to the north east of the main building was constructed in 1959;
- A small extension of a covered walkway and toilet block between the swimming pool and main 'Rippon Grange' building was added in 1963; and
- A new ward to the hospital was opened in December 1970 (extending east from the southern side of the main Rippon Grange Building.

#### Conclusions from the Review of the Draft Heritage Plan for Rippon Grange

From the review of the *Rippon Grange 35 Water St Wahroonga Draft Conservation Plan*, there were two issues of environmental concern. Firstly the identification of a small sewage plant located in the south of the site and secondly, the most recent use of the site as a hospital.

### 3.7 Conclusions from the Site Historical Search

The following conclusions can be made from the site historical search:

- The site was originally used as a large vacant area as part of a larger block of land from 1840;
- The site was subdivided and 'Rippon Grange' was constructed in 1898;
- In 1951 the site was donated to the NSW Government and became the John Williams Hospital;
- There is evidence that a sewage plant may have existed on the site;
- The only previous areas of environmental concern are as follows:
  - Possible use of a portion of the site as a small sewage plant; and
  - The use of backup diesel generators or diesel boilers and the associated underground storage tanks from the most recent hospital use.





## 4. The Site and Surrounding Areas

### 4.1 Topography, Geology and Surface Hydrology

The site slopes quite considerably from the north west corner down to the south east corner, the lowest point on the site being the southern boundary of the John Fairfax Nursing Quarters site. Both the 180m and 190m contour lines dissect the site. The nearest sensitive environment is Lovers Jump Creek located approximately 500m to the south east, which in turn drains into Cowan Creek and eventually the Hawkesbury River.

The site is underlain by the lithology of the Liverpool Subgroup, consisting of a mixture of Bringelly Shale, Minchinbury Sandstone and Ashfield Shale. This subgroup overlies the Hawkesbury Sandstone.

### 4.2 Site Inspection

A site visit was conducted on Friday 1 October 2004 by Warren Yates of Thornton Consulting. No staff members of DAHC were available to assist Thornton Consulting with the site inspection, however the Met North Regional office of DADHC supplied a set of keys for the entire site.

The following buildings were not able to be accessed during the site visit

Lot 1 in DP 375262 – John Williams Hospital

- The garage to the south of the Swimming Pool shed
- The class room to the south of the Garage
- The class room to the north east of the main hospital building
- The former stables

Lot 1 in DP 726091 – John Fairfax Nursing Quarters

- The entire nursing quarters with the exception of the front reception area.

The site inspection will be broken down into the two lot and DP numbers described above

**Lot 1 in DP 375262 – John Williams Hospital**

This is the main lot which comprises of approximately 6 buildings in the north eastern corner, overgrown gardens to the east side and an open lawn area with trees to the south. It appears from that the main hospital building was constructed well before the hospital opened in 1952 as were the stables and garage. The classroom to the north east of the main building was constructed in 1959 and the extension heading east from the southern part of the main building was constructed sometime in the late 1960s or early 1970s.

Thornton Consulting Pty Ltd



The other structures that have been constructed after the opening of the hospital were the swimming pool roof, swimming pool plant room, classroom to the north east of the main hospital building and classroom to the west of the garage.

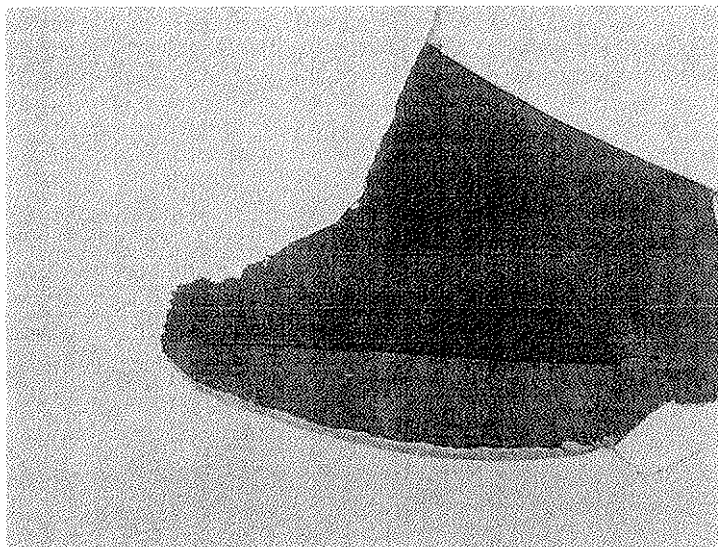
The site visit revealed the following issues of environmental concern:

- Along the eastern boundary, areas of the site appear to have been cut and filled, demonstrated by the irregular slopes (former tennis court and croquet lawn) – Figure 4;



**Figure 4 – The Former Croquet Lawn**

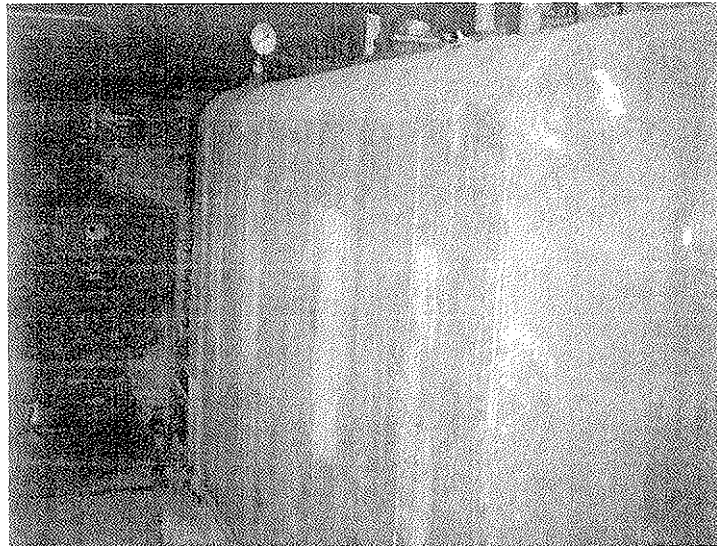
- All buildings are of the age where asbestos containing materials may exist. Numerous suspected asbestos containing materials were noted during the site inspection – Figure 5;



**Figure 5 – Suspected asbestos containing materials**



- The building is of the age where PCBs may exist in fluorescent light capacitors;
- The building is of the age where lead paint may exist;
- One natural gas boiler was noted underneath the southern extension to the main house;
- One abandoned wood/coal fired furnace was noted near the south west corner of the original building, adjacent to the kitchen. A grease trap, still full of waste was noted adjacent the abandoned furnace;
- The swimming pool heat/plant room comprised of two boilers. One disused boiler that appeared to be either coal or wood fired and one more recent natural gas boiler. There was no evidence of a diesel filled boiler – **Figure 6**;



**Figure 6 – the original coal / wood fired swimming pool boiler with natural gas boiler in the background.**

- There were numerous unidentified manholes around the garage/swimming pool plant area; and
- No evidence of the former sewage plant was observed during the site visit.

#### **Lot 1 in DP 726091 – John Fairfax Nursing Quarters**

The John Fairfax site comprised of one office building to the northern portion of the block with a large grassed area to the buildings south. It slopes from north to south with all surface runoff draining towards Billyard Ave.

The following issues of environmental concern were noted during the site inspection:

- The buildings is of the age where asbestos containing materials may exist;
- The building is of the age where PCBs may exist in fluorescent light capacitors; and



- The building is of the age where lead paint may exist.

#### Conclusions from the site inspection

The following conclusions can be made from the site inspection:

- There was no evidence of any gross contamination noted during the site inspection. The areas of cut and fill appeared to have been completed in the 1920s for a croquet lawn and tennis court. It is unlikely in this instance that any fill would have been used from off-site.
- The grease trap, whilst still containing waste material, is unlikely to cause any contamination concerns.
- There was no evidence on the site that any USTs, diesel fuelled boilers or backup diesel power generators existed. All boilers inspected were either natural gas or wood/coal fired.
- There is the possibility that asbestos containing materials are present on the site as suspect materials were noted during the site inspection (this has not been confirmed by laboratory testing).
- All buildings are of the age where PCBs may exist in fluorescent light capacitors and lead based paint may exist.
- No evidence of the former sewage plant was observed during the site visit.

#### 4.3 Surrounding Environment

The surrounding areas were exclusively residential with the exception of Wahroonga Public School to the north. No other uses were noted within the vicinity of the site.



## 5. Conclusions

Based on the review of the above site historical information and the information received from the site inspection the following conclusions can be made about the site:

- The site was originally vacant and part of a larger parcel of land;
- The site was subdivided and 'Rippon Grange' was constructed in 1898;
- In 1951 the site was donated to the NSW Government and became the John Williams Hospital;
- The only previous areas of environmental concern are as follows:
  - The most recent use as a small hospital. USTs associated with diesel boilers and backup diesel generators pose issues of environmental concern, however no evidence of any USTs, diesel backup generators or diesel boilers were observed during the site inspection.
  - There is historical evidence that a small sewerage plant may have existed on the site, however no evidence was noted during the site inspection;
  - Suspected asbestos containing materials (not laboratory tested) were noted during the site inspection.



## Appendix A Historical Land Titles Search

ACN: 093 398 611  
ABN: 61 093 412 474

*Peter S. Hopley Pty Limited*  
*Legal Searchers*

1 Boronia Avenue  
Mount Annan, NSW, 2567  
Mobile: 0412 199 304  
Fax 9233 4590 (Attn Box 29)

SUMMARY AS TO OWNERS.

Property: John Williams Hospital

D.P. 375262 & Lot 1 D.P. 726091.

|            |                                                                                     |                                                                            |
|------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 07.01.1840 | John Terry Hughes ( <i>Grantee</i> )                                                |                                                                            |
| 06.02.1840 | Adolphus William Young ( <i>Mortgagee &amp; subdivider</i> )                        | Book Q No. 789<br>( <i>1st mortgage</i> )                                  |
| 23.10.1862 | Robert Vance ( <i>Gentleman</i> )                                                   | Book 80 No. 465                                                            |
| 11.12.1875 | William Whaley Billyard ( <i>Solicitor</i> )                                        | Book 159 No. 726                                                           |
| 20.12.1876 | John Fitzgerald Burns ( <i>Esquire</i> )<br>Robert Burdett Smith ( <i>Esquire</i> ) | Book 165 No 208<br>( <i>Now in Vol 492</i><br><i>Fol's 130 &amp; 131</i> ) |

Search continued as regards Lot 1 D.P. 375262

Search continued as to the parts numbered 2 & 3 on D.P. 375262.

|            |                                              |                                                                                         |
|------------|----------------------------------------------|-----------------------------------------------------------------------------------------|
| 15.05.1880 | John Henry Reeley ( <i>Landowner</i> )       | Vol 500 Fol 124                                                                         |
| 27.10.1898 | Thomas Henry Reeley ( <i>Orchardist</i> )    | Vol 500 Fol 124<br>( <i>part numbered 3 continued</i><br><i>into Vol 1341 Fol 205</i> ) |
| 16.08.1900 | Frederick George Sargood ( <i>Merchant</i> ) | Vol 1341 Fol 204<br>( <i>continued into Vol 1364</i><br><i>Fol 136</i> )                |

ACN: 093 398 611  
ABN: 61 093 412 474

*Peter S. Hopley Pty Limited*  
*Legal Searchers*

1 Boronia Avenue  
Mount Annan, NSW, 2567  
Mobile: 0412 199 304  
Fax 9233 4590 (Attn Box 29)

|            |                                                                                                                      |                                                                               |
|------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 10.03.1903 | Frederick George Sargood ( <i>Merchant</i> )                                                                         | Vol 1460 Fol 87<br>(Now in Vol 3314<br>Fol 119)<br>( <u>part numbered 3</u> ) |
| 05.08.1904 | Agnes Rennie Sargood ( <i>Married Woman</i> )                                                                        | Vol 1364 Fol 136<br>( <u>part numbered 2</u> )                                |
| 15.02.1918 | Frederick George Sargood ( <i>Warehouseman</i> )<br>( <i>We have not investigated the Transmission Application</i> ) | Vol 3314 Fol 119<br>( <u>part numbered 2</u> )                                |

Search continued as to the part numbered 1 on D.P. 375262.

|            |                                                                                                                      |                  |
|------------|----------------------------------------------------------------------------------------------------------------------|------------------|
| 16.09.1882 | Charles Rhodes ( <i>Contractor</i> )                                                                                 | Vol 610 Fol 245  |
| 30.11.1882 | Albert Rogers ( <i>House Keeper</i> )                                                                                | Vol 624 Fol 132  |
| 08.05.1895 | Thomas Blundell ( <i>Bootmaker</i> )                                                                                 | Vol 624 Fol 132  |
| 18.06.1898 | Frederick George Sargood ( <i>Merchant</i> )                                                                         | Vol 1364 Fol 136 |
| 05.08.1904 | Agnes Rennie Sargood ( <i>Married Woman</i> )                                                                        | Vol 1364 Fol 136 |
| 15.02.1918 | Frederick George Sargood ( <i>Warehouseman</i> )<br>( <i>We have not investigated the Transmission Application</i> ) | Vol 3314 Fol 119 |

Search continued as to the whole of Lot 1 D.P. 375262

|            |                                                         |                 |
|------------|---------------------------------------------------------|-----------------|
| 26.05.1922 | Harriett Marion Sarah Braddock ( <i>Married Woman</i> ) | Vol 3335 Fol 95 |
|------------|---------------------------------------------------------|-----------------|



ACN: 093 398 611  
ABN: 61 093 412 474

*Peter S. Hopley Pty Limited*  
*Legal Searchers*

1 Boronia Avenue  
Mount Annan, NSW, 2567  
Mobile: 0412 199 304  
Fax 9233 4590 (Attn Box 29)

|            |                                                                                                                  |                 |
|------------|------------------------------------------------------------------------------------------------------------------|-----------------|
| 27.02.1935 | Ernest Robert Williams ( <i>Company Director</i> )                                                               | Vol 4687 Fol 21 |
| 31.08.1951 | # His Most Gracious Majest King George the Sixth<br>(# Now Her Most Gracious Majesty Queen Elizabeth the Second) | 1/375262        |

# Current Registered Proprietor

Search continued as regards Lot 1 D.P. 726091

|            |                                                                                                             |                  |
|------------|-------------------------------------------------------------------------------------------------------------|------------------|
| 16.09.1882 | Charles Rhodes ( <i>Contractor</i> )                                                                        | Vol 610 Fol 245  |
| 30.11.1882 | Albert Rogers ( <i>House Keeper</i> )                                                                       | Vol 624 Fol 132  |
| 08.05.1895 | Thomas Blundell ( <i>Bootmaker</i> )                                                                        | Vol 624 Fol 132  |
| 18.06.1898 | Frederick George Sargood ( <i>Merchant</i> )                                                                | Vol 1364 Fol 136 |
| 05.08.1904 | Agnes Rennie Sargood ( <i>Married Woman</i> )                                                               | Vol 1364 Fol 136 |
| 15.02.1918 | Frederick George Sargood ( <i>Warehouseman</i> )<br>(We have not investigated the Transmission Application) | Vol 3314 Fol 119 |
| 30.06.1926 | Juanita Agnes Adams ( <i>Married Woman</i> )                                                                | Vol 3892 Fol 61  |
| 15.09.1926 | Arthur Stanley Wolstenholme ( <i>Licensed Surveyor</i> )                                                    | Vol 3892 Fol 61  |
| 05.12.1927 | Mildred Annie Harding ( <i>Spinster</i> )                                                                   | Vol 3892 Fol 61  |
| 28.11.1938 | Arthur Rudolf Granowski ( <i>Engineer</i> )                                                                 | Vol 3892 Fol 61  |

ACN: 093 398 611  
ABN: 61 093 412 474

*Peter S. Hopley Pty Limited*  
*Legal Searchers*

1 Boronia Avenue  
Mount Annan , NSW , 2567  
Mobile: 0412 199 304  
Fax 9233 4590 (Attn Box 29)

|            |                                                                                                                     |                 |
|------------|---------------------------------------------------------------------------------------------------------------------|-----------------|
| 07.12.1948 | Martin Jacobsohn ( <i>Company Director</i> )<br>Irmgaard Teresina (or Theresina) Jacobsohn ( <i>Married Woman</i> ) | Vol 3892 Fol 61 |
| 03.04.1952 | Irmgaard Teresina (or Theresina) Jacobsohn ( <i>Widow</i> )                                                         | Vol 3892 Fol 61 |
| 13.05.1952 | Royal Alexandra Hospital for Children, Camperdown                                                                   | 1/726091        |
| 09.10.2002 | # Minister for Community Services                                                                                   | 1/726091        |

# Current Registered Proprietor

Date: 28-SEP-04 1:35pm

Enquiry: Lot 1 DP375262

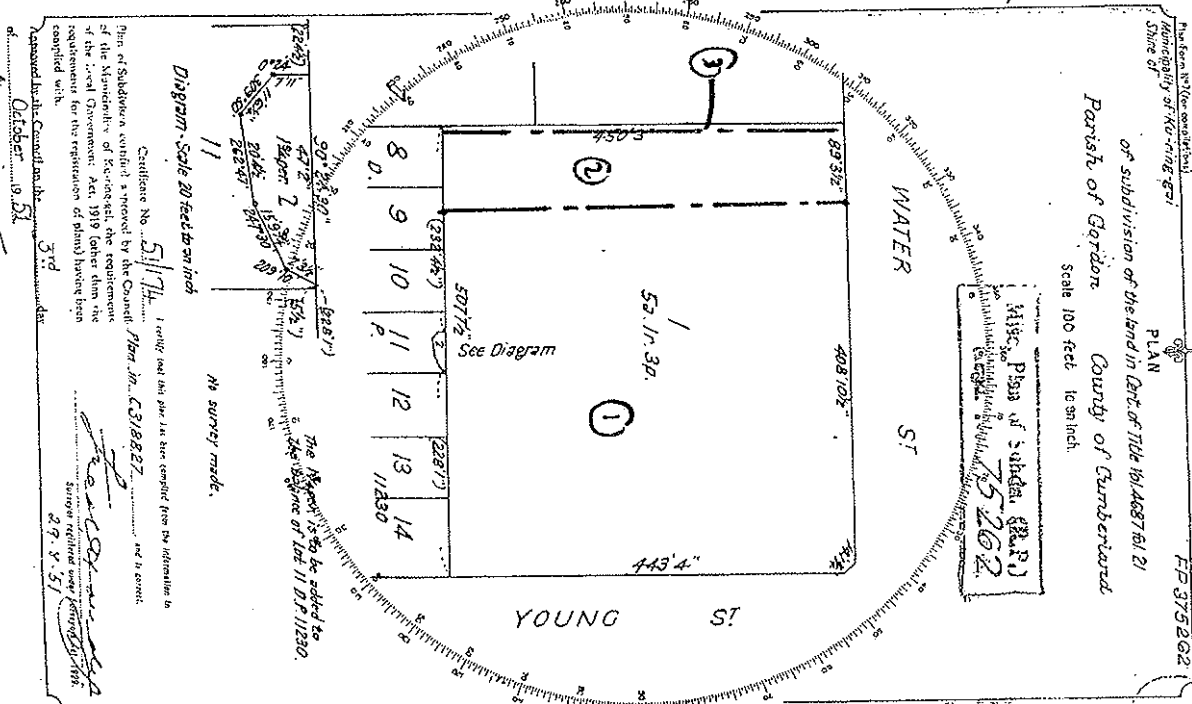


15184-27

Town Clerk

1. Bruce Picard Davies, Registrar General for New South Wales, certifies that this negative is a photograph made as a permanent record of a document in my custody this 24th day of January, 1939

*This margin to be left free from notation*



This is the plan marked " " referred to in  
Dated \_\_\_\_\_

Signatures of parties to be made in this margin

| CONVERSION TABLE USED IN<br>DETERMINATION OF LUNGS |         |
|----------------------------------------------------|---------|
| FEET INCHES                                        | METRES  |
| 5 1/2                                              | 0.140   |
| 5 1/2                                              | 2.423   |
| 7 11                                               | 2.413   |
| 6 1/4                                              | 3.512   |
| 1 1/4                                              | 4.312   |
| 9 3/4                                              | 4.880   |
| 4 1/2                                              | 6.210   |
| 4 1/2                                              | 6.880   |
| 4 1/2                                              | 14.376  |
| 3 1/2                                              | 27.416  |
| 2 1/2                                              | 69.950  |
| 1 1/2                                              | 70.858  |
| 4 1/2                                              | 124.665 |
| 4 1/2                                              | 135.168 |
| 4 1/2                                              | 174.426 |
| 7 1/2                                              | 174.426 |
| AC RD P                                            | SO M    |
| AC RD P                                            | 44.3    |
| AC RD P                                            | NA      |
| 5 1/2                                              | 2.132   |

LT2/16

LU 85

PLAN OF RESIDUE OF LAND IN  
CERTIFICATE OF TITLE VOL. 3892  
FOL. 61

D. P. 726091

Registered: 26/10/1987

C.A.:

Title System: TORRENS

Purpose: DEPARTMENTAL

MUN. KU-RING-GAI

Town or Locality: WAHROONGA

Parish: GORDON

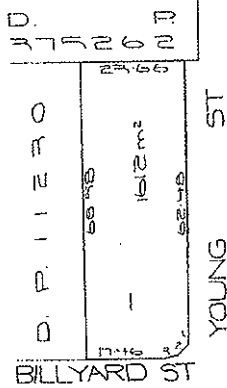
County: CUMBERLAND

Reduction Ratio 1:800

Lengths are in metres

Ref. Map: U0967-74

Last Plan: D. P. 11230



|   |     |
|---|-----|
| 1 | 2.5 |
| 2 | 4.5 |
| 3 | 2.5 |

AMENDMENTS AND/OR ADDITIONS MADE ON  
PLAN IN THE LAND TITLES OFFICE

This negative is a photograph made as a permanent  
record of a document in the custody of the  
Registrar General this day.



13th November, 1987

10 20 30 40 50 60 70 Table of mm 110 120 130 140

**W**



3122

[CERTIFICATE OF TITLE.]



REGISTER BOOK

VOL. 402 FOLIO 126

THIS TITLE IS THE REGISTERED  
DO NOT DELIVER OR DESTROY  
RETURN TO LANDS AND NATURAL  
SERVICE BOX 64, BOUND BROOK, N.J.

In. Fitzgerald. Burns of the city of Sydney being  
 proprietor of an estate in fee simple in an undivided moiety or half share  
 jointly held by him and Robert Burdett Smith as tenants in common subject  
 to the reservations and conditions of any contained in the Grant hereinafter  
 And also Subject to such encumbrances, liens and interests as are notified here-  
 under of parcel situated at Vinceville in the Parish of Gordon and  
of Cumberland containing Two hundred and forty nine acres two  
four and a half furlongs or thereabouts commencing on the North Eastern  
 corner of the South Western corner of Land of James Cherry and  
 having on the North West by that Word bearing North Westerly ten chains  
 links to Cherry Street on the West by that Street bearing Northwesterly twenty three  
 by six links on the South by a line crossing that Street and in corner  
 of of Ryan in all bearing Northwesterly fifteen chains sixty four links  
 of Burdett again on the West by that land and is contained twice in all  
 thirty two chains thirty four links to the Southern side of Smith's  
 on the South by that Street bearing Northwesterly eight chains to land of J. S. Jones  
 West by that land bearing Northwesterly forty four chains eighty four links to  
 Smith's North by that Street bearing Easterly thirty seven chains fifty five links  
 to the East by that Word and is concluded by the great Eastern  
 bearing Southwesterly twenty four chains fifty links to James Cherry's land aforesaid  
 the South and again on the East by that land bearing Easterly 22 chains  
 links and Southwesterly twenty five chains forty four links to the point of corner  
 between the said Road, Streets and James respectively colored Brown in  
 of which have been deducted from the total area  
 with said piece of Land is shown in the plan hereon and therein edged red  
 and is inclusive of Section A Lots 1 to A 2 and inclusive of Section B and Lots 1 to  
 of Section C of the said Smith and Burns subdivision and part of the thousand  
 and in the public Sale of the said Parish deposited in the Office of the  
 and originally granted to John Henry Hargreaves by Government dated the 2  
 day of August one thousand eight hundred and forty two

John W. Wells of the County of Alameda State of California do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

23<sup>rd</sup>  
April 1880

*J. H. Adams*

J. Mudd

Chap. 189 - 1900

Notification Referred To

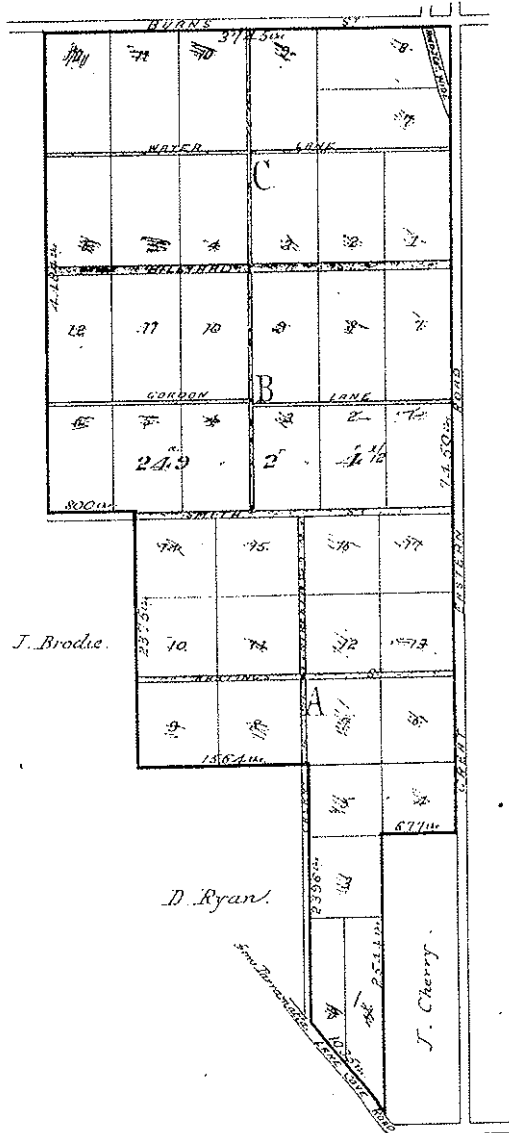
Samuel dated 24<sup>th</sup> April 1880 by  
his friend, Geo. Seddon and dated  
April 1880 at 12 o'clock P.M.

P. M. Hall  
 Received of the  
 State of Ohio, dated 24<sup>th</sup> April 1888, as to  
 the same and on the 24<sup>th</sup> April 1888  
 P. M. Hall

Withdrawal of the within Receipt  
No. 39880, dated 15<sup>th</sup> May 1880 & support  
Produced and confirmed the  
15<sup>th</sup> May 1886 & a quarter to  
12.50 p.m. the previous

*Chamaea* *depressa*

T. S. Jones



J. Brodie

D. Ryan

J. Cherry

Section 10, Chiswick, New York

Leaf 70 C7  
Leaves 6 and 7



CANCELLED W



00492131

3122

New South Wales.

[CERTIFICATE OF TITLE.]

Lease in fee simple.



REGISTER BOOK,

Vol. 492 Folio 131.

THIS TITLE IS THE REGISTER  
DO NOT DELIVER OR DESTROY  
RETURN TO LAND INFORMATION  
OFFICE: 100, GOSFORD STREET, SYDNEY, N.S.W.

Robert Burdett Smith of the City of Sydney, Esquire, the son of an estate in fee simple in an undivided moiety or half share, the same being held by him and John Fitzgerald Burns as tenants in common subject to the provisions and conditions of any instrument in the land hereinafter referred to, that to such circumstances, heirs and interests as are comprised herein in that piece of land situated at Waverley in the Parish of Gordon and County of New South Wales containing Two hundred and forty nine acres more or less and is fully plotted as shown in the plan hereon and is the South Eastern side of Lane East the South Eastern corner of land of James Cherry and bounded thereon on the South East by that Lane being thence thirty three chains thirty five links to Cherry Street on the West that Lane being thence thirty three chains thirty six links on the South by a line of that Street and its continuation by Land of J. Ryan in all bearing thence thirty five chains thirty links to land of J. Ryan again in the West by that land and its continuation here in thence thirty three chains thirty five links to the Southern side of South Street again thence by that Street bearing thence thirty eight chains to Land of J. Ryan again in the West by that Lane being thence thirty four chains eighty five links to Cherry Street on the South by that Lane being thence thirty four chains thirty five links to a road in chain with a line that road and its continuation by the Great Eastern Road in all bearing thence thirty five chains fifty links to James Cherry's land aforesaid again on the South and again thence by that land bearing thence thirty six chains thirty seven links and thence thirty five links to the point of commencement. Excepting thereout the Road Lanes respectively named Burns as place the areas of which have been deducted total area.

Said piece of land is shown on the plan hereon and herein being Lots 1 to 17 inclusive of Section A, Lots 1 to 10 inclusive of Section B and 10 inclusive of Section C of Messrs Smith and Burns Subdivision and part of the area delineated in the further map of the said Parish deposited in the Office of the Registrar signally granted to John Henry Burghes by lease granted dated the eighteenth day of November eight hundred and fifty two.

In Witness whereof I have hereunto signed my name and affixed my hand and seal this 23rd day of April 1880.

The 23rd April 1880  
G. I. Burns

G. M. M. M.



Deputy Registrar

Notification Referred to

Original dated 24th April 1880 by  
has been produced and entered in the  
and 1880 at 12 o'clock (noon)

Withdrawal of the above  
Original dated the 15th May 1880  
has been produced and entered in the  
and 1880 at 12 o'clock (noon)

G. M. M. M.  
Original dated 24th April 1880 by  
has been produced and entered in the  
and 1880 at 12 o'clock (noon)

G. M. M. M.  
Original dated 24th April 1880 by  
has been produced and entered in the  
and 1880 at 12 o'clock (noon)

*T. S. Jones.*

*J. Brodie*

D. Ryan.

J. Cherry.

[illegible]

# CERTIFICATE OF TITLE

00500124

(C)

New South Wales.

[Reference to last Certificate]

[Vol. 492 Folio 130 and 131]

REGISTER BOOK

Vol. 500 Folio 124

CANCELLED

*John Henry Kealey* of Lane Cove, Landowner, Transferee under Instrument of Transfer from *Robert Burdett Smith* and *John Fitzgerald Rivers* Numbered 110514 in the Register of the State in New South Wales, Subject nevertheless to the reservations and conditions if any, contained in the grant hereinafter referred to. And also subject to such encumbrances, rights and interests as are satisfied herein in these pieces of Land situate at *Wentworth* in the Parish of *Wentworth* and County of *Greenwich* containing these areas respectively and in several parcels or therabouts being Lot 13 of Section A, seven acres one rood thirty seven and in several parcels or therabouts being Lot 8 of Section B, seven acres one rood four and three quarters and in several parcels or therabouts being Lot 5 of Section C, in a plan deposited in the Land Titles Office Sydney, Numbered 503 as shown on the plan hereon, and the said subject matter, being part of the land shown and delineated in the Public Map of the said Parish deposited in the Office of the Survey General, originally granted to John Henry Kealey by Crown Grant dated the eighteenth day of August One thousand eight hundred and forty two.

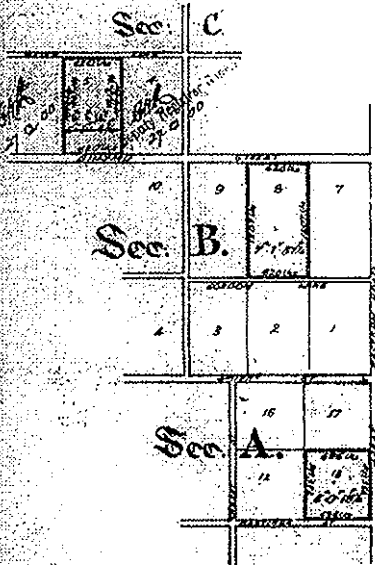
In witness whereof, I have hereunto signed my name and affixed my Seal, this *Sixth* day of *July* one thousand eight hundred and eighty.

Signed the *6th* day of *July* 1880.  
In the presence of  
*Henry M. M. M.*

Dep. Registrar General.



NOTIFICATION REFERRED TO.



NO 27701 TRANSFER DATED 27 April 1880  
FROM THE above named parties to the above named parties  
PRODUCED & ENTERED 29 April 1880  
AT 10 O'CLOCK IN THE AFTERNOON  
H. M. M. M. DEPUTY REGISTRAR GENERAL

NO 36612 TRANSFER DATED 16 August 1880  
FROM THE above named parties to the above named parties  
PRODUCED & ENTERED 18 August 1880  
AT 10 O'CLOCK IN THE AFTERNOON  
H. M. M. M. DEPUTY REGISTRAR GENERAL

*Residue*

80610245

## New South Wales.

REGISTER BOOK,

Vol. 610 FOLIO 245



Charles Rhodes

[illegible]

Which said pieces of Land are shown on the Map herein and there edged and being  
containing two thousand acres Situated in the Publick Stop of the said Parish deposited in the Office  
of the Survey General originally granted to John Jay Hughes by Warrant Grant dated the eighteenth  
day of August one thousand eight hundred and fifty two

In witness whereof, I have hereunto signed my name and affixed my Seal, this Seventeenth day of

one thousand eight hundred and eighty two

signed 17 day of March, 1887,  
in the presence of E. J. [illegible],

*[Signature]*  
Sg. Registrar General.



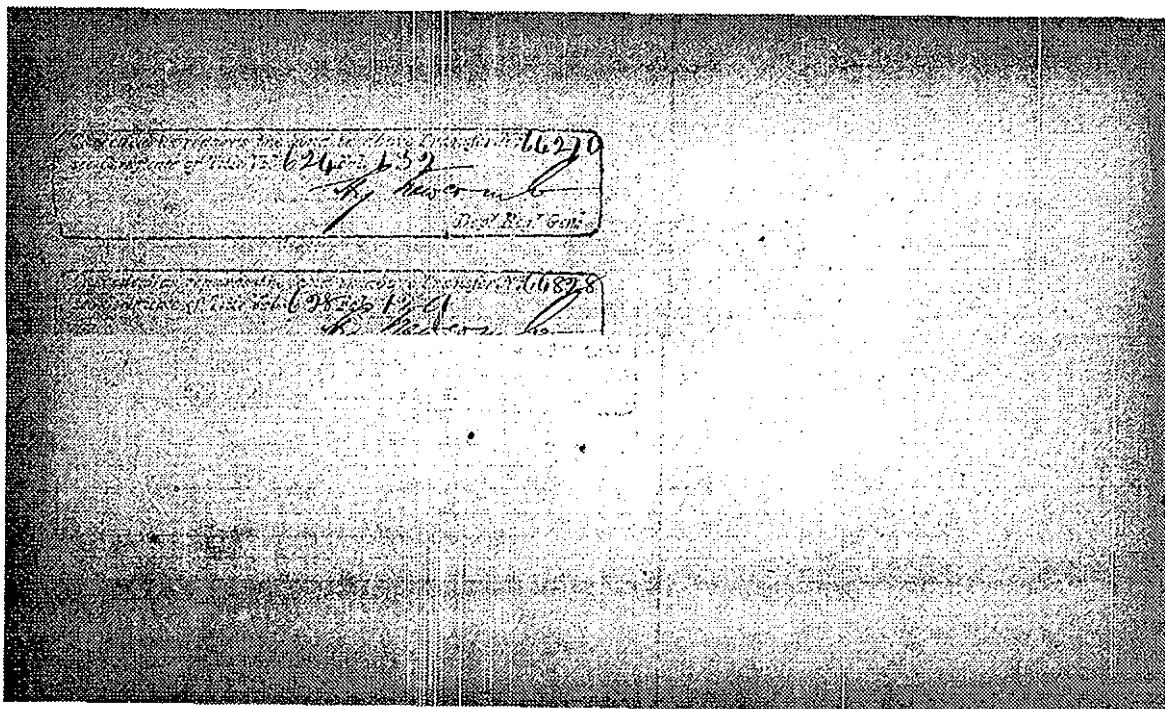
NOTIFICATION REFERRED TO:

|    |    |   |   |
|----|----|---|---|
| 11 | 10 | 3 | 7 |
| 5  | 46 | 3 | 2 |
| 11 | 10 | 8 |   |
| 5  | 1  | 3 | 2 |

Swatches to an Inch

NO. 16270 TRANSFER DATED 30<sup>th</sup> November 1934  
FROM THE above-named Charles E. Rhodes  
TO the Bank of England of Ltd. & Co.  
OF THE LANDS AS DESCRIBED  
PRODUCED & ENTERED 14<sup>th</sup> December 1934  
AT 2 Middle O'CLOCK IN THE PM NOON  
By W. H. Jones an Attorney for the Bank of England  
REGENTS

NO. 48228 TRANSFER DATED 30<sup>th</sup> November 1882  
FROM THE above named Charles Roberts  
TO Robert Chambers of the  
of Section B OF THE LAND above described  
PRODUCED & ENTERED 8<sup>th</sup> January 1883  
AT 2 O'CLOCK IN THE AFTERNOON  
By Wm. S. Wells A. S. REGGENT



00524132

(C)

**New South Wales.**

*Reference to last Certificate.*

[Vol. 61]      Folio 217b ]



REGISTER BOOK.

VOL. 624 FOLIO 132

CANCELLED

01/2283

Albert Rogers of the City of Sydney following these Names Transferred under Endowment of Sydney from Thomas Rogers transferred 1870 to now the proprietor of an estate in fee simple subject nevertheless to the common law and conditions of any endowment in the grant heretofore referred to and also subject to such other provisions laws and interests as are notque herein in that piece of land granted as heretofore in the Parish of Gordon and County of Cumberland containing Six acres Two rods four and three quarters more or less as shown in the plan hereunto and more or less being Lot 11 of Section C in a plan deposited in the Land Office Sydney Number 26 and part of the heretofore described in the public Map of the said parish deposited in the Office of the Surveyor General originally granted to John May Haynes by Crown Grant dated the eighth day of August One thousand eight hundred and sixty one.

In witness whereof, I have herunto signed my name and affixed my Seal, this:

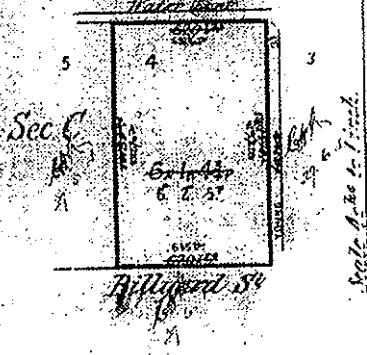
Abundant one thousand eight hundred and eighty three

Signed 10 day of \_\_\_\_\_  
in the presence of \_\_\_\_\_

in the presence of

*Hope* Registrar General

NOTIFICATION REFERRED TO.



NO. *92* MORTGAGE DATED *22nd June 1888*  
 FROM THE ABOVE NAME *William Rogers*  
*Butcher* TO *Thomas Girding of Lymington*  
 FREELY ENTERED IN *22nd June 1888*  
 AT *25 minutes* TO *12* O'CLOCK IN THE *Afternoon*  
*77* BY *Wm. L.* RECORDED

DISCHARGE OF *above* MORTGAGE NO. *4444*  
 DATED *4th January* 1970 PRODUCED IN THE  
*4th January* 1970  
 6 O'CLOCK IN THE *evening*  
 DE RECEIVED

NO 445388 MORTGAGE DATED 4<sup>th</sup> January 1924  
 FROM THE ASSOCIATE BANK OF Albert Rogers  
 TO Harriand Albert of England  
Southampton  
 PRODUCED BY DEED DATED 4<sup>th</sup> January 1924  
 AT 2 South Street, LONDON E.C. 4  
 BY W. S. G.

DISCHARGE OF THE *submarine* MONTICLOUT 145-203  
DATE *1 May 1951* BY *1st Lt. J. H. [illegible]*  
O'CLEARY *1st Lt. J. H. [illegible]*

NO *332* TRANSFERRED DATE *1 May 1951*  
FROM THE *submarine* *about 1948*  
*Construction* *of [illegible]*  
PRODUCED & INTERVIEWED *1 May 1951*  
BY *1st Lt. J. H. [illegible]*



# LegalStream Australia Pty Ltd

ABN: 80 002 801 498

Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA \* DX 654 Sydney

Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au

An approved

LPI NSW

Information Broker

## LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2004 6:01PM

FOLIO: 1/375262

First Title(s): OLD SYSTEM

Prior Title(s): VOL 6540 FOL 182

| Recorded  | Number   | Type of Instrument       | C.T. Issue                 |
|-----------|----------|--------------------------|----------------------------|
| 16/7/1997 | DP375262 | DEPOSITED PLAN           | FOLIO CREATED<br>EDITION 1 |
| 17/7/1997 |          | AMENDMENT: VOL FOL INDEX |                            |
| 10/8/2000 | 7013764  | DEPARTMENTAL DEALING     |                            |

\*\*\* END OF SEARCH \*\*\*

wahroonga

PRINTED ON 28/9/2004

LEGALSTREAM AUSTRALIA hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act, 1900.

\*ANY ENTRIES PRECEDED BY AN ASTERIX DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE  
WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER

# LegalStream Australia Pty Ltd

ABN: 80 002 801 498  
Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA \* DX 654 Sydney  
Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au

An approved  
LPI NSW  
Information Broker

## LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/375262

| SEARCH DATE | TIME    | EDITION NO | DATE      |
|-------------|---------|------------|-----------|
| 28/9/2004   | 5:59 PM | 1          | 16/7/1997 |

### LAND

LOT 1 IN DEPOSITED PLAN 375262  
AT WAHROONGA  
LOCAL GOVERNMENT AREA: KU-RING-GAI  
PARISH OF GORDON COUNTY OF CUMBERLAND  
TITLE DIAGRAM: DP375262

### FIRST SCHEDULE

HER MAJESTY QUEEN ELIZABETH THE SECOND

### SECOND SCHEDULE (2 NOTIFICATIONS)

1. RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- \* 2. F663261 CAVEAT BY THE REGISTRAR GENERAL

### NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

wahroonga

PRINTED ON 28/9/2004

LEGALSTREAM AUSTRALIA hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act, 1900.  
\*ANY ENTRIES PRECEDED BY AN ASTERIX DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE  
WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER

# LegalStream Australia Pty Ltd

ABN: 80 002 801 498  
Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA • DX 654 Sydney  
Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au

An approved  
LPI NSW  
Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2004 6:01PM

FOLIO: 1/726091

First Title(s): OLD SYSTEM  
Prior Title(s): VOL 3892 FOL 61

| Recorded   | Number   | Type of Instrument                   |
|------------|----------|--------------------------------------|
| 28/10/1987 | DP726091 | DEPOSITED PLAN                       |
| 17/9/1990  | DP726091 | DEPOSITED PLAN                       |
| 18/5/1992  |          |                                      |
| 9/10/2002  | 9017236  | AMENDMENT: VOL FOL INDEX<br>TRANSFER |

C.T. Issue

LOT RECORDED  
FOLIO NOT CREATED

FOLIO CREATED  
CT NOT ISSUED

EDITION 1

\*\*\* END OF SEARCH \*\*\*

wahroonga

PRINTED ON 28/9/2004

LEGALSTREAM AUSTRALIA hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act, 1900.  
\*ANY ENTRIES PRECEDED BY AN ASTERIX DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE  
WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE

# LegalStream Australia Pty Ltd

ABN: 80 002 801 498  
Level 10, 135 King Street, SYDNEY, NSW 2000, AUSTRALIA \* DX 654 Sydney  
Phone: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au

An approved  
LPI NSW  
Information Broker

## LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/726091

| SEARCH DATE | TIME    | EDITION NO | DATE      |
|-------------|---------|------------|-----------|
| 28/9/2004   | 6:00 PM | 1          | 9/10/2002 |

LAND

LOT 1 IN DEPOSITED PLAN 726091  
AT TURRAMURRA  
LOCAL GOVERNMENT AREA: KU-RING-GAI  
PARISH OF GORDON COUNTY OF CUMBERLAND  
TITLE DIAGRAM: DP726091

FIRST SCHEDULE

MINISTER FOR COMMUNITY SERVICES

(T 9017236)

SECOND SCHEDULE (2 NOTIFICATIONS)

1. RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2. B376629 COVENANT

NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

wahroonga

PRINTED ON 28/9/2004

LEGALSTREAM AUSTRALIA hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act, 1900.  
\*ANY ENTRIES PRECEDED BY AN ASTERIX DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE  
WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER



## **Appendix B   DIPNR Ground Water Bore Data Search**

Date/Time :29-Sep-2004 12:29 PM  
User :STANNER  
Report :RMGW001D.QRP  
Executable :S:\G5\PROD32\Ground.exe  
Exe Date :19-Aug-2004  
System :Groundwater  
Database :Edbp

## DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES Work Summary

GW016949

Converted From HYDSYS

License :10BL008051

|                               |                                                   |                                   |
|-------------------------------|---------------------------------------------------|-----------------------------------|
| Work Type :Well               | Authorised Purpose(s)<br>RECREATION (GROUNDWATER) | Intended Purpose(s)<br>IRRIGATION |
| Work Status :(Unknown)        |                                                   |                                   |
| Construct. Method :Cable Tool |                                                   |                                   |
| Owner Type :Private           |                                                   |                                   |
| Commenced Date :              | Final Depth : 11.70 m                             |                                   |
| Completion Date :01-Jan-1958  | Drilled Depth : 11.70 m                           |                                   |
| Contractor Name :             |                                                   |                                   |
| Driller :                     |                                                   |                                   |
| Property : - N/A              | Standing Water Level :                            |                                   |
| GWMA :603 - SYDNEY BASIN      | Salinity :                                        | Very Poor                         |
| GW Zone : -                   | Yield :                                           |                                   |

### Site Details

Site Chosen By

|                                                                                                         |                                      |                                                        |
|---------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|
| County<br>Form A :CUMBERLAND<br>Licensed :CUMBERLAND                                                    | Parish<br>GORDON<br>GORDON           | Portion/Lot DP<br>6<br>PT 6                            |
| Region :10 - SYDNEY SOUTH COAST<br>River Basin :213 - SYDNEY COAST - GEORGES RIVER<br>Area / District : | CMA Map :<br>Grid Zone :             | Scale :                                                |
| Elevation :<br>Elevation Source :(Unknown)                                                              | Northing :6266407<br>Easting :325705 | Latitude (S) :33° 43' 41"<br>Longitude (E) :151° 7' 7" |
| GS Map :0055A3<br>AMG Zone :56                                                                          | Coordinate Source :GD.,PR. MAP       |                                                        |

### Construction

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

| H                               | P | Component | Type | From (m) | To (m) | OD (mm) | ID (mm) | Interval | Details |
|---------------------------------|---|-----------|------|----------|--------|---------|---------|----------|---------|
| (No Construction Details Found) |   |           |      |          |        |         |         |          |         |

### Water Bearing Zones

| From (m)                              | To (m) | Thickness (m) | WBZ Type | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|---------------------------------------|--------|---------------|----------|------------|------------|-------------|----------------|---------------|-----------------|
| (No Water Bearing Zone Details Found) |        |               |          |            |            |             |                |               |                 |

### Drillers Log

| From (m) | To (m) | Thickness(m) | Drillers Description | Geological<br>Stratigraphic<br>Clay<br>Shale | Comments |
|----------|--------|--------------|----------------------|----------------------------------------------|----------|
| 0.00     | 1.21   | 1.21         | Topsoil              |                                              |          |
| 1.21     | 2.13   | 0.92         | Clay                 |                                              |          |
| 2.13     | 11.73  | 9.60         | Shale                |                                              |          |

### Pumping Tests - Summaries

| Pumping Test Type        | Date        | Duration (hr) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|--------------------------|-------------|---------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
| Single-Rate Pumping Test | 01-Jan-1958 |               | 3.00       |            | 0.13        |                  | (Unknown)   |                        |                      |           |

### Pumping Tests - Readings

| Pumping Test Type                       | Date | Time (mins) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-----------------------------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
| (No Pumping Test Reading Details Found) |      |             |            |            |             |                  |             |                        |                      |           |

### Chemical Treatment

| Treatment                             | Method | Duration | Success |
|---------------------------------------|--------|----------|---------|
| (No Chemical Treatment Details Found) |        |          |         |

### Development

| Method                         | Time Taken | Other Development Method |
|--------------------------------|------------|--------------------------|
| (No Development Details Found) |            |                          |

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES  
Work Summary

GW016949

Converted From HYDSYS

**Remarks**

SITED WARRAWEE BOWLING CLUB

\*\*\* End of GW016949 \*\*\*

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

## Work Summary

GW022935

Converted From HYDSYS

License :10BL016416

Work Type : (Unknown)  
 Work Status : (Unknown)  
 Construct. Method : Rotary  
 Owner Type : Private

Commenced Date :  
 Completion Date : 01-Dec-1965

Final Depth : 26.80 m  
 Drilled Depth : 26.80 m

Contractor Name :  
 Driller :

Property : - N/A  
 GWMA : 603 - SYDNEY BASIN  
 GW Zone : -

Authorised Purpose(s)  
 DOMESTIC

Intended Purpose(s)  
 GENERAL USE

Standing Water Level :  
 Salinity :  
 Yield :

V Salty

### Site Details

Site Chosen By

County  
 Form A : CUMBERLAND  
 Licensed : CUMBERLAND

Parish  
 GORDON  
 GORDON

Portion/Lot DP  
 99999  
 N/A

Region : 10 - SYDNEY SOUTH COAST  
 River Basin : 212 - HAWKESBURY RIVER  
 Area / District :

Elevation :  
 Elevation Source : (Unknown)

CMA Map :  
 Grid Zone :

Scale :

Northing : 6266835  
 Easting : 325925

Latitude (S) : 33° 43' 27"  
 Longitude (E) : 151° 7' 16"

GS Map : 0055A3 - AMG Zone : 56

Coordinate Source : GD ,PR. MAP

### Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

| H | P | Component | Type    | From (m) | To (m) | OD (mm) | ID (mm) | Interval | Details   |
|---|---|-----------|---------|----------|--------|---------|---------|----------|-----------|
| 1 | 1 | Casing    | Drilled | 0.00     | 26.80  | 152     |         |          | (Unknown) |

### Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type  | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|----------|--------|---------------|-----------|------------|------------|-------------|----------------|---------------|-----------------|
| 18.20    | 18.20  | 0.00          | (Unknown) |            |            | 0.95        |                |               | V Salty         |
| 26.80    | 26.80  | 0.00          | (Unknown) |            |            |             |                |               | V Salty         |

### Drillers Log

| From (m) | To (m) | Thickness (m) | Drillers Description              | Geological Material | Comments |
|----------|--------|---------------|-----------------------------------|---------------------|----------|
| 0.00     | 0.15   | 0.15          | Made Ground                       | Material            |          |
| 0.15     | 4.57   | 4.42          | Clay                              | Clay                |          |
| 4.57     | 7.31   | 2.74          | Clay White                        | Clay                |          |
| 7.31     | 9.14   | 1.83          | Shale Soft                        | Shale               |          |
| 9.14     | 18.28  | 9.14          | Sandstone                         | Sandstone           |          |
| 9.14     | 18.28  | 9.14          | Shale Bands Water Supply          | Shale               |          |
| 18.28    | 26.82  | 8.54          | Sandstone White Hard Water Supply | Sandstone           |          |

### Pumping Tests - Summaries

| Pumping Test Type        | Date        | Duration (hr) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|--------------------------|-------------|---------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
| Single-Rate Pumping Test | 01-Dec-1965 |               |            |            | 0.95        |                  | (Unknown)   |                        |                      |           |

### Pumping Tests - Readings

| Pumping Test Type                       | Date | Time (mins) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-----------------------------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
| (No Pumping Test Reading Details Found) |      |             |            |            |             |                  |             |                        |                      |           |

### Chemical Treatment

| Treatment                             | Method | Duration | Success |
|---------------------------------------|--------|----------|---------|
| (No Chemical Treatment Details Found) |        |          |         |

### Development

| Method                         | Time Taken | Other Development Method |
|--------------------------------|------------|--------------------------|
| (No Development Details Found) |            |                          |

### Remarks

SITED 38 BANGALLA ST. WAHROONGA

\*\*\* End of GW022935 \*\*\*

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



# DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

## Work Summary

GW053989

Converted From HYDSYS

License :10BL123251

Work Type :Bore open thru rock  
Work Status :(Unknown)  
Construct. Method :Cable Tool  
Owner Type :Private

Commenced Date : Final Depth : 122.00 m  
Completion Date :01-Aug-1982 Drilled Depth : 92.00 m

Contractor Name :  
Driller :1435 ISELT, John Hans

Property : - N/A  
GWMA : -  
GW Zone : -

Authorised Purpose(s)  
IRRIGATION

Intended Purpose(s)  
IRRIGATION

Standing Water Level :  
Salinity : invalid code  
Yield :

### Site Details

Site Chosen By

County  
Form A :CUMBERLAND  
Licensed :CUMBERLAND

Parish  
GORDON  
GORDON

Portion/Lot DP  
DP3222 (6)  
DP3222

Region :10 - SYDNEY SOUTH COAST  
River Basin :212 - HAWKESBURY RIVER  
Area / District :

CMA Map :  
Grid Zone : Scale :

Elevation :  
Elevation Source :(Unknown)

Northing :6266755  
Easting :325785

Latitude (S) :33° 43' 29"  
Longitude (E) :151° 7' 11"

GS Map :0055A3 AMG Zone :56

Coordinate Source :

### Construction

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

| H | P | Component | Type             | From (m) | To (m) | OD (mm) | ID (mm) | Interval | Details          |
|---|---|-----------|------------------|----------|--------|---------|---------|----------|------------------|
| 1 | 1 | Casing    | Galvanised Steel | -0.50    | 13.50  | 168     |         |          | Driven into Hole |

### Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type       | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|----------|--------|---------------|----------------|------------|------------|-------------|----------------|---------------|-----------------|
| 4.80     | 6.20   | 1.40          | Unconsolidated | 4.80       |            | 0.30        |                |               | Salty           |
| 80.80    | 82.00  | 1.20          | Consolidated   | 8.00       |            |             |                |               | invalid code    |

### Drillers Log

| From (m) | To (m) | Thickness(m) | Drillers Description             | Geological Material | Comments |
|----------|--------|--------------|----------------------------------|---------------------|----------|
| 0.00     | 3.10   | 3.10         | Made Ground                      | Made Ground         |          |
| 3.10     | 4.80   | 1.70         | Clay                             | Clay                |          |
| 4.80     | 6.20   | 1.40         | Clay Sandy Soft Water Supply     | Clay                |          |
| 6.20     | 8.50   | 2.30         | Clay Consolidated                | Clay                |          |
| 8.50     | 11.50  | 3.00         | Shale                            | Shale               |          |
| 11.50    | 74.30  | 62.80        | Sandstone Grey Some Shale        | Sandstone           |          |
| 74.30    | 75.90  | 1.60         | Shale                            | Shale               |          |
| 75.90    | 80.80  | 4.90         | Sandstone Grey                   | Sandstone           |          |
| 80.80    | 82.00  | 1.20         | Sandstone Grey Open Water Supply | Sandstone           |          |
| 82.00    | 83.10  | 1.10         | Shale                            | Shale               |          |
| 83.10    | 92.00  | 8.90         | Sandstone Grey                   | Sandstone           |          |

### Pumping Tests - Summaries

| Pumping Test Type        | Date        | Duration (hr) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method        | To Measure Water Level | To Measure Discharge | Tested By |
|--------------------------|-------------|---------------|------------|------------|-------------|------------------|--------------------|------------------------|----------------------|-----------|
| Single-Rate Pumping Test | 28-May-1982 | 6.00          | 8.00       | 73.00      | 1.00        | 76.00            | Turbine Pump, Subm |                        |                      |           |
| Single-Rate Pumping Test | 30-Aug-1982 | 140.00        | 8.00       | 92.00      | 0.40        | 95.00            | Turbine Pump, Subm |                        |                      |           |

### Pumping Tests - Readings

| Pumping Test Type                       | Date | Time (mins) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-----------------------------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
| (No Pumping Test Reading Details Found) |      |             |            |            |             |                  |             |                        |                      |           |

### Chemical Treatment

| Treatment                             | Method | Duration | Success |
|---------------------------------------|--------|----------|---------|
| (No Chemical Treatment Details Found) |        |          |         |

### Development

| Method                         | Time Taken | Other Development Method |
|--------------------------------|------------|--------------------------|
| (No Development Details Found) |            |                          |

### Remarks

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES  
Work Summary

GW053989

Converted From HYDSYS

\*\*\* End of GW053989 \*\*\*

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

## Work Summary

GW071874

Converted From HYDSYS

License :10BL153808

Work Type :

Work Status :Supply Obtained

Construct. Method :

Owner Type :

Commenced Date :

Final Depth :

Completion Date :

Drilled Depth :

Contractor Name :

Driller :

Property : - PYMBLE GOLF COURSE

GWMA : -

GW Zone : -

Authorised Purpose(s)

RECREATION (GROUNDWATER)

Intended Purpose(s)

RECREATION (GROUNDWATER)

Standing Water Level :

3.00 m

Salinity :

Yield :

12.00 L/s

### Site Details

Site Chosen By

County

Form A :CUMBERLAND

Licensed :CUMBERLAND

Parish

GORDON

GORDON

Portion/Lot DP

LOT1 DP 511821

1 511821

Region :10 - SYDNEY SOUTH COAST

River Basin :213 - SYDNEY COAST - GEORGES RIVER

Area / District :

CMA Map :9130-4S

Grid Zone :56/1

HORNSBY

Scale :1:25,000

Elevation : 130.00 m (A.H.D.)

Elevation Source :Est. Contour 8-15M.

Northing :6266075

Easting :328362

Latitude (S) :33° 43' 53"

Longitude (E) :151° 8' 50"

GS Map :0055A3 AMG Zone :56

Coordinate Source :GD,ACC.MAP

### Construction

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

| H | P | Component | Type            | From (m) | To (m) | OD (mm) | ID (mm) | Interval | Details          |
|---|---|-----------|-----------------|----------|--------|---------|---------|----------|------------------|
| 1 | 1 | Casing    | Steel           | -0.50    | 5.50   | 164     |         |          | Driven into Hole |
| 1 | 1 | Casing    | Poured Concrete | 3.00     | 5.50   | 210     |         |          | invalid code     |

### Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type     | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|----------|--------|---------------|--------------|------------|------------|-------------|----------------|---------------|-----------------|
| 12.00    | 15.00  | 3.00          | Consolidated |            | 3.00       |             |                | 12.00         | invalid code    |

### Drillers Log

| From (m)                        | To (m) | Thickness(m) | Drillers Description | Geological Material | Comments |
|---------------------------------|--------|--------------|----------------------|---------------------|----------|
| (No Drillers Log Details Found) |        |              |                      |                     |          |

### Pumping Tests - Summaries

| Pumping Test Type | Date | Duration (hr) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-------------------|------|---------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
|-------------------|------|---------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|

(No Pumping Test Summary Details Found)

### Pumping Tests - Readings

| Pumping Test Type | Date | Time (mins) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
|-------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|

(No Pumping Test Reading Details Found)

### Chemical Treatment

| Treatment                             | Method | Duration | Success |
|---------------------------------------|--------|----------|---------|
| (No Chemical Treatment Details Found) |        |          |         |

### Development

| Method                         | Time Taken | Other Development Method |
|--------------------------------|------------|--------------------------|
| (No Development Details Found) |            |                          |

### Remarks

\*\*\* End of GW071874 \*\*\*

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES

## Work Summary

GW102946

|                                     |                 |                                            |                                          |
|-------------------------------------|-----------------|--------------------------------------------|------------------------------------------|
| License :10BL159554                 |                 | Authorised Purpose(s)<br>DOMESTIC<br>STOCK | Intended Purpose(s)<br>DOMESTIC<br>STOCK |
| Work Type :Bore                     |                 |                                            |                                          |
| Work Status :(Unknown)              |                 |                                            |                                          |
| Construct. Method :Rotary Air       |                 |                                            |                                          |
| Owner Type :                        |                 |                                            |                                          |
| Commenced Date :                    | Final Depth :   | 186.50 m                                   |                                          |
| Completion Date :15-Mar-2000        | Drilled Depth : | 186.50 m                                   |                                          |
| Contractor Name :INTERTECH DRILLING |                 |                                            |                                          |
| Driller :1783                       |                 | CRUMP, William                             |                                          |
| Property : - N/A                    |                 | Standing Water Level :                     |                                          |
| GWMA : -                            |                 | Salinity :                                 | 843.00 mg/L                              |
| GW Zone : -                         |                 | Yield :                                    |                                          |

### Site Details

|                                 |                      |                     |                 |
|---------------------------------|----------------------|---------------------|-----------------|
| Site Chosen By                  | County               | Parish              | Portion/Lot DP  |
| Client                          | Form A :CUMBERLAND   | GORDON              | LOT101 DP632041 |
|                                 | Licensed :CUMBERLAND | GORDON              | 101 632041      |
| Region :10 - SYDNEY SOUTH COAST |                      | CMA Map :           |                 |
| River Basin :                   |                      | Grid Zone :         | Scale :         |
| Area / District :               |                      |                     |                 |
| Elevation :                     |                      | Northing :          | Latitude (S) :  |
| Elevation Source :              |                      | Easting :           | Longitude (E) : |
| GS Map :                        | AMG Zone :           | Coordinate Source : |                 |

### Construction

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

| H | P | Component | Type        | From (m) | To (m) | OD (mm) | ID (mm) | Interval | Details                                |
|---|---|-----------|-------------|----------|--------|---------|---------|----------|----------------------------------------|
| 1 |   | Hole      | Hole        | 0.00     | 11.40  | 210     |         |          | Down Hole Hammer                       |
| 1 |   | Hole      | Hole        | 11.40    | 186.50 | 158     |         |          | Down Hole Hammer                       |
| 1 | 1 | Casing    | Steel       | 0.20     | 12.00  | 168.3   | 158.7   |          | C : .5-12m. Welded. Driven into Hole   |
| 1 | 1 | Casing    | PVC Class 9 | 0.20     | 24.00  | 140     |         |          | Screwed and Glued; Suspended in Clamps |

### Water Bearing Zones

| From (m) | To (m) | Thickness (m) | WBZ Type | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Hole Depth (m) | Duration (hr) | Salinity (mg/L) |
|----------|--------|---------------|----------|------------|------------|-------------|----------------|---------------|-----------------|
| 95.00    | 95.50  | 0.50          |          |            |            | 0.10        | 96.00          | 0.25          | 526.00          |
| 154.00   | 157.00 | 3.00          |          |            |            | 0.05        |                |               |                 |
| 173.00   | 174.00 | 1.00          |          |            |            | 0.15        | 186.50         | 0.50          | 843.00          |

### Drillers Log

| From (m) | To (m) | Thickness(m) | Drillers Description | Geological              | Comments |
|----------|--------|--------------|----------------------|-------------------------|----------|
| 0.00     | 7.00   | 7.00         | FILL                 | Material                |          |
| 7.00     | 10.00  | 3.00         | WEATHERED SHALE      | Weathered Rock (Unident |          |
| 10.00    | 13.00  | 3.00         | WEATHERED SANDSTONE  | Weathered Rock (Unident |          |
| 13.00    | 38.00  | 25.00        | SANDSTONE M.G.       | Sandstone               |          |
| 38.00    | 40.00  | 2.00         | SANDSTONE QUARTZ     | Sandstone               |          |
| 40.00    | 67.00  | 27.00        | SANDSTONE M.G.       | Sandstone               |          |
| 67.00    | 69.50  | 2.50         | HARD SHALE           | Hard Bands              |          |
| 69.50    | 82.00  | 12.50        | SANDSTONE M.G.       | Sandstone               |          |
| 82.00    | 84.50  | 2.50         | SANDSTONE AND SHALE  | Sandstone               |          |
| 84.50    | 92.00  | 7.50         | SANDSTONE M.G.       | Sandstone               |          |
| 92.00    | 95.00  | 3.00         | SHALE AND SANDSTONE  | Shale                   |          |
| 95.00    | 95.50  | 0.50         | QUARTZ               | Quartz                  |          |
| 95.50    | 98.00  | 2.50         | SANDSTONE M.G.       | Sandstone               |          |
| 98.00    | 113.50 | 15.50        | SANDSTONE M.G.       | Sandstone               |          |
| 113.50   | 115.00 | 1.50         | SANDSTONE AND QUARTZ | Sandstone               |          |
| 115.00   | 154.00 | 39.00        | SANDSTONE M.G.       | Sandstone               |          |
| 154.00   | 157.00 | 3.00         | SANDSTONE AND QUARTZ | Sandstone               |          |
| 157.00   | 160.50 | 3.50         | SANDSTONE M.G.       | Sandstone               |          |
| 160.50   | 163.00 | 2.50         | SANDSTONE AND QUARTZ | Sandstone               |          |
| 163.00   | 165.00 | 2.00         | SANDSTONE M.G.       | Sandstone               |          |
| 165.00   | 167.00 | 2.00         | SANDSTONE AND QUARTZ | Sandstone               |          |
| 167.00   | 169.00 | 2.00         | SANDSTONE M.G.       | Sandstone               |          |
| 169.00   | 171.00 | 2.00         | SANDSTONE QUARTZ     | Sandstone               |          |
| 171.00   | 172.50 | 1.50         | SANDSTONE M.G.       | Sandstone               |          |
| 172.50   | 173.00 | 0.50         | HARD SHALE           | Hard Bands              |          |
| 173.00   | 178.00 | 5.00         | SANDSTONE F/G        | Sandstone               |          |
| 178.00   | 179.00 | 1.00         | SANDSTONE AND QUARTZ | Sandstone               |          |
| 179.00   | 186.50 | 7.50         | HARD SHALE           | Hard Bands              |          |

### Pumping Tests - Summaries

| Pumping Test Type | Date | Duration (hr) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-------------------|------|---------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
|-------------------|------|---------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|

(No Pumping Test Summary Details Found)

### Pumping Tests - Readings

| Pumping Test Type | Date | Time (mins) | S.W.L. (m) | D.D.L. (m) | Yield (L/s) | Intake Depth (m) | Test Method | To Measure Water Level | To Measure Discharge | Tested By |
|-------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|
|-------------------|------|-------------|------------|------------|-------------|------------------|-------------|------------------------|----------------------|-----------|

Warning To Clients: This raw data has been supplied to the Department of Land and Water Conservation (DLWC) by drillers, licensees and other sources. The DLWC does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES  
Work Summary

GW102946

(No Pumping Test Reading Details Found)

**Chemical Treatment**

| Treatment | Method | Duration | Success |
|-----------|--------|----------|---------|
| Chlorine  |        |          |         |

**Development**

| Method | Time Taken | Other Development Method |
|--------|------------|--------------------------|
| Air    | 0.75       |                          |

**Remarks**

Form A Remarks:

TOP OF CASING WAS FINISHED AT 0.2M BSL AS BORE IS ON DRIVEWAY, AND CONCRETE DRAINING MONUMENT IS BEING INSTALLED.

\*\*\* End of GW102946 \*\*\*

\*\*\* End of Report \*\*\*

Map of the Wairoa area showing groundwater bores, roads, and streams. The map includes a north arrow, a scale bar (0-6 km), and a legend. Key features include the Wairoa River, Young Street, and various groundwater bores labeled with IDs like GW05308, GW12433, GW10194, GW18244, GW18245, and GW18246. The legend identifies symbols for Groundwater Bores, KING4S.shp, Parish, SCC Main Roads, Streams, Roads, and Rail.