

How to find a bore and bore report

Natural Resource Maps user guide

nrmaps.nt.gov.au

To seek assistance using NR Maps, please contact the department's Geospatial Services Unit.

Email datarequests.DLPE@nt.gov.au

Phone (08) 8999 4579

We recommend reading the NR Maps user guide *How to use NR Maps tools*. To view user guides, please click on the User Guide tab above the map screen in NR Maps or click the Help link on the top right of the NR Maps screen.

This guide describes how to find a bore and bore report using NR Maps.

Section 1. Important information about bores

- | | | |
|-----|------------------------------------------------|--------|
| 1.1 | Accuracy of bore locations | Page 2 |
| 1.2 | Please tell us if a bore location is incorrect | Page 2 |
| 1.3 | About the bore display in NR Maps | Page 2 |

Section 2. How to find bore locations and bore reports

- | | | |
|-----|-------------------------------------------------------------------|--------|
| 2.1 | Method 1 - Use the Quick Entry tool with a registered bore number | Page 3 |
| 2.2 | Method 2 - Use the Search function with a registered bore number | Page 4 |
| 2.3 | Method 3 - Use an address to search for bores | Page 5 |
| 2.4 | Method 4 - Select all the bores within a land parcel | Page 8 |

Section 3. Water extraction licences

- | | | |
|-----|---------------------------------------------------------------|---------|
| 3.1 | How to find groundwater and surface water extraction licences | Page 10 |
|-----|---------------------------------------------------------------|---------|

Know your bore tool

www.nt.gov.au/knowyourbore

This is a simple and dedicated web tool to display the Bores with Dry Risk layer that users may prefer to NR Maps.

It is available to use with either a mobile device or desktop computer.

The bores are searchable and contain a link to the bore report.

Section 1. Important information about bores

1.1 Accuracy of bore locations

Bore location details are provided by the driller to this department and described on the statement of bore report. The bore location is sourced using GPS with an accuracy of +/- 10 metres.

Prior to 1995 and the use of GPS;

- The bore location was described using a topographic map with a positional accuracy ranging between 300 metres and 10 km.
- The driller supplied a location sketch and a description for a grid reference from a 1:100,000 topographic map.
- These bores may be incorrectly located on NR Maps compared to the on-ground location.

When viewing the bore report, please consider the location accuracy based on the date of drilling.

1.2 Please tell us if a bore location is incorrect

If you are able to provide information about a bore location that is displayed incorrectly on NR Maps, please send details to Water Resources via email water.regulation@nt.gov.au

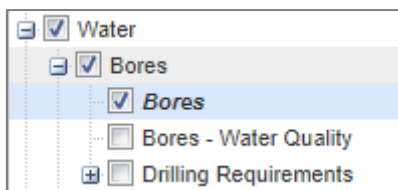
Information about bores, including location, drilling depth, casing details, water quality and chemical analysis, are stored in the bores dataset.

Corrected bore locations will be updated in the bores dataset, however the details on the original scanned statement of bore report will not change.

1.3 About the Bore display in NR Maps

Registered bores, both Current and Historical, are available as part of the Bores layer.

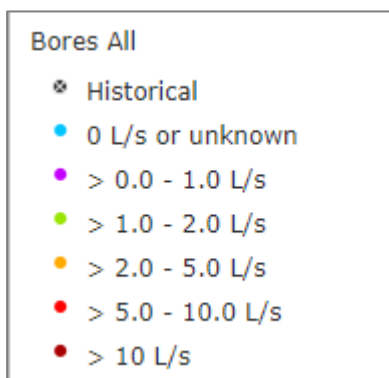
Bores may be searched using the Quick Entry tool (top right of the screen) or via the search tab.



To search the other bore layers:

- Make the layer active: right mouse click and Set Active
- Select the Search tab in the Table of Contents

For information about the bores layers, right mouse click and select **Metadata**.



The **Bores layer** is displayed on the map screen using coloured symbols. You may need to zoom in to see the layer on the map.

- The black cross represents Historical bores.
- The colours are representative of the Yield Class.
- The yield (L/s) for each bore is grouped using a Yield Class.
- View the **Legend** tab in the Table of Contents (Bottom-Left).

The data results for each bore contain the actual yield (L/s).

Section 2. How to find bores and bore reports

2.1 Method 1 - Use the Quick Entry Tool with a registered bore number

Registered bore numbers are prefixed with RN and 0 to make up 6 digits. E.g. Enter: **RN033343**

As you begin to enter text, a drop down list of available matching records will appear.

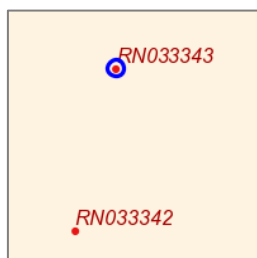
Click on one of the records in the drop down list. The map display will zoom to the location and data details about the selected record can be viewed in the Data Results window.

Step 1. Search for a Registered Bore Number



Enter RN033343

Click on the returned record



The map will zoom to the selected record.

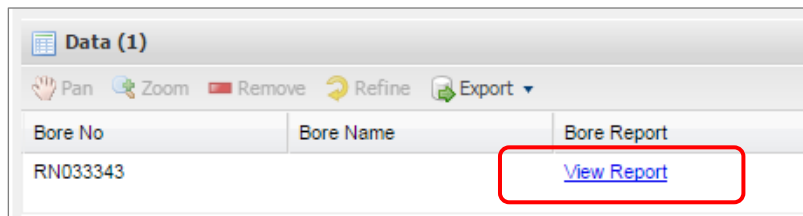
The bore location **point** will be highlighted in **bright blue on the map**.

This bore is stored in the Bores layer. It will automatically become the Active Layer when you use the Quick Search tool.

The Bores layer name will change to bold italic text and the display will be automatically be ticked on in the layers listing.

Step 2. View results in Data Panel (below map screen)

The data can also be viewed in the Data tab next to the map screen.



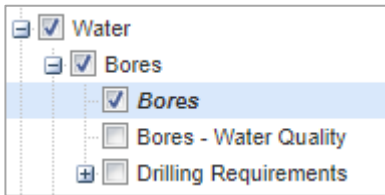
Click on the link, [View Report](#)

The Final Statement of Bore report will open as a PDF.

Bore no	Bore name	Bore report	Status	Yield (L/s)	Yield class	Completi...	Completion d...	Water level (m)	Purpose	Construction	Drilled depth ...	Test date	Test type
RN033343		View Report	Current	40	>10 L/s	01/12/2001	40.8	10.4	Production	Constructed&Capped	42	01/12/2001	Airlift

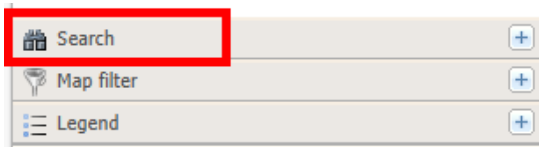
Use the scroll bar, on the bottom of the Data Results window, to view all the columns of data details about this bore including; Yield 40 L/sec, completed Depth 40.8m and date drilled 1/12/2001.

2.2 Method 2 - Use the Search function with a registered bore number

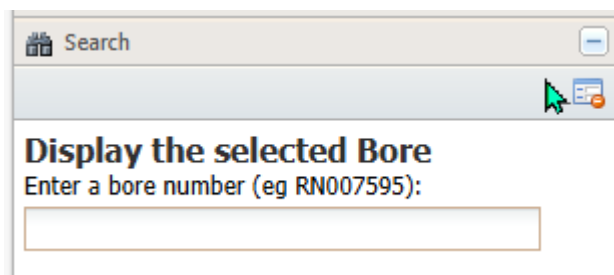


Step 1. Change the Active Layer to Bores

Right mouse click on **Bores** and select Set Active.



Step 2. Click on the Search tab to open (at the bottom-left)



Step 3. Enter a registered bore number.

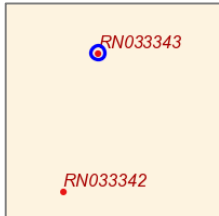
The Bore number can be entered as either;

RN033343

033343

33343

You may use zoom tool on the map screen to zoom in to the selected bore.



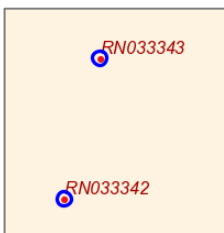
The selected bore will be highlighted **bright blue** on the map screen.

Use the Search tool again and **add RN033342** to the selection list.

Enter **33342**

This time press the **Add button**.

Both bores are now selected and details may be reviewed in the Data Results window.

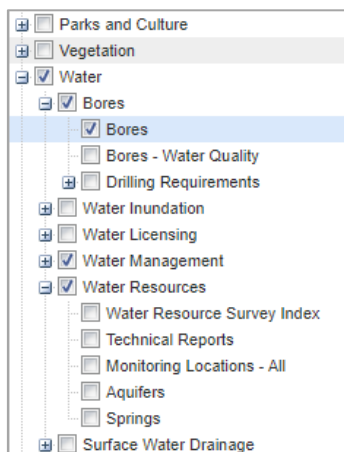
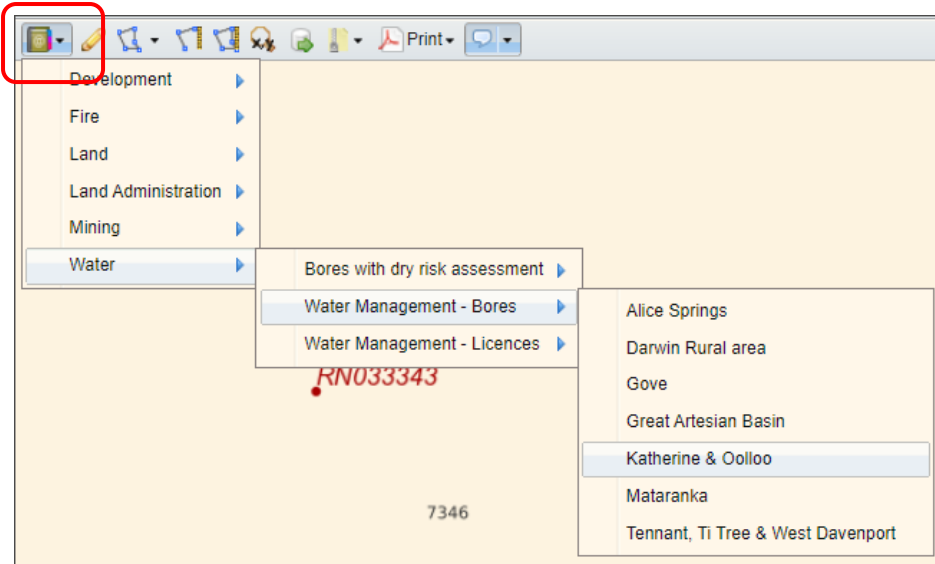


Data (2)		
Bore no	Name	Bore report
RN033342		View Report
RN033343		View Report

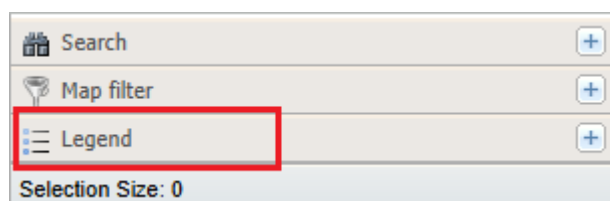
2.3 Method 3 - Use an address to search for bores

Step 1. Turn on bore layers using a published bookmark.

Hover your mouse (do not click) over Water; Water Management – Bores, then click an area location.

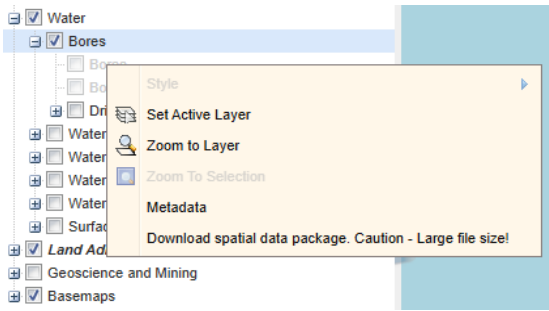


Several layers will automatically turn on and you will zoom to your selected area.



View the Legend to see how the layers are displayed on the map screen.

How to find a bore and bore report

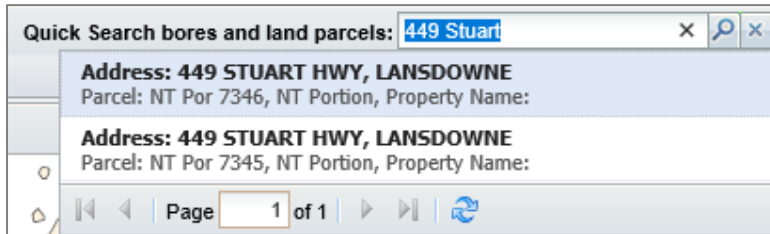


For more information about each layer: Right mouse click on a layer - select metadata.

Step 2. Enter Land Parcel details using the Quick Search entry tool

Land parcel details include: Street name and number, Parcel Number, NT Portion number, Property Name, Suburb, Townsite.

Click on a record in the drop down list. The map display will zoom to the location and data details about the selected record can be viewed in the Data Results window.

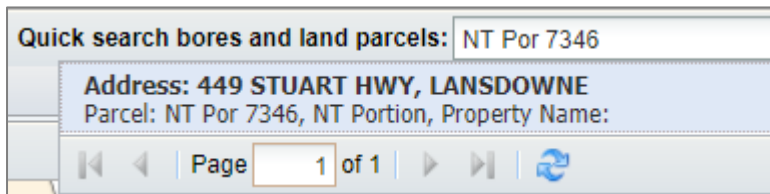


Enter the street address, 449 Stuart

There are 2 records that contain 449 and also Stuart.

Click on the top record.

Or



Enter the parcel details

NT Por 7346

Click on the record

The map will zoom to the selected parcel and will also be highlighted in **bright blue** on the map screen.

Step 3. Identify the bores in the parcel – try each of the following methods:

- 1 Use the Identify tool
- 2 Use the Map Tips tool
- 3 Use the Selection tools

Step 3.1 Identify the bores in the parcel: use the Identify tool



Click on the identify tool.

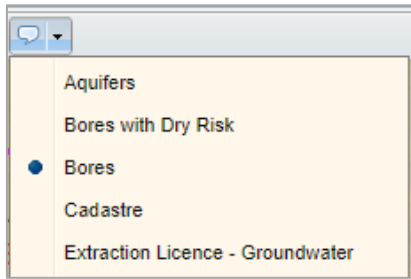
A new window will display all the visible features that intersect NT Por 7346.

Selection Identify		
Bore no	Bore name	Bore report
RN007078	C.S.I.R.O. KATH.EXPERIMENTAL FARM	View Report
RN009035	WR 77/1 CSIRO	View Report

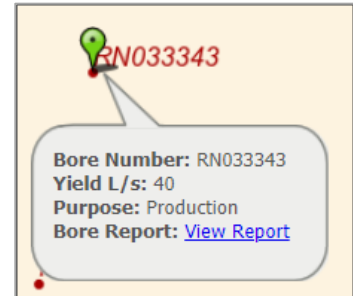
Click on each bore to view the Bore Report.

To save the 14 bore reports for this parcel, Export > Excel.

Step 3.2 Identify the bores in the parcel: use the Map Tips tool

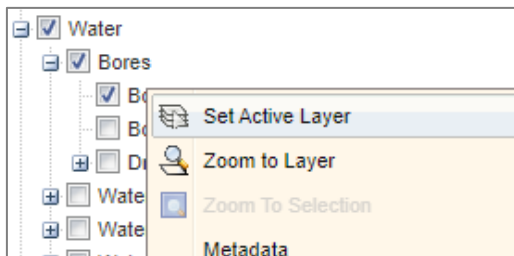


1. Left - Click on the small arrow to open and change the selection to Bores.
2. Right - Hover the mouse over a bore (do not click) to see the summarised bore information.
3. Click the tool again to deactivate the tool.



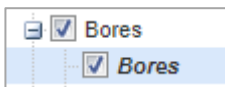
Step 3.3 Identify the bores in the parcel: use the Selection tools

When an address is entered in the Quick Search tool, Cadastre (Land Parcels) is the Active Layer.



To select bores on the map screen, the Active Layer must be changed to Bores.

1. Right mouse click on the layer Bores.
2. Set this as the Active Layer.



The active layer name is displayed in **bold italic text**

Select bores on the map screen using the Selection tools

Start: Open the selection tools

Finish: Clear the selection

The selection tools are the same in each of the drawing groups:

- 1 **New selection**
- 2 **Add to selection**
- 3 **Remove from selection**
- 4 **Refine the selection**

- Click on the New Selection tool
- Draw a rectangle around the bores to select the bores on the map screen.
- The selected bores will be highlighted blue on the map screen



Review the details about the selected Bores in the Data Results window.

8 bores were selected on the map screen.

Bore no	Bore name	Bore report	Status	Yield (L/s)	Yield class	Completi...	Completion dept...	Water level (m)
RN033342		View Report	Current	40	>10 L/s	29/11/2001	42.1	10.4
RN033343		View Report	Current	40	>10 L/s	01/12/2001	40.8	10.4

For more information about selections, please read the NR Maps user guide *How to use the selection tools*.

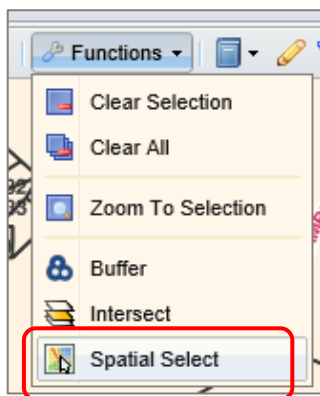
2.4 Method 4 – Select all the bores within a land parcel

Follow steps 1 and 2 described above in Method 3.

Step 1. Turn on bore layers using the published bookmark tools

Step 2. Select a parcel of interest - Enter NT Por 7346 using the Quick Search tool

Step 3. Use the Spatial Select tool to automatically select bores in the parcel.



- Open the Functions toolset
- Click on the Spatial Select tool

NOTE: To use this tool, you do not need to display the bores on the screen.

The bores will automatically be selected and displayed. The bores layer will also become the active layer.

Enter details for the bore selection

Selected Entities

Target:

Type:

Source:

Distance (m):

Target: from list, select Bores

Type: are within a distance of

Source: Cadastre (using the selected parcel)

Distance (metres): blank is 0

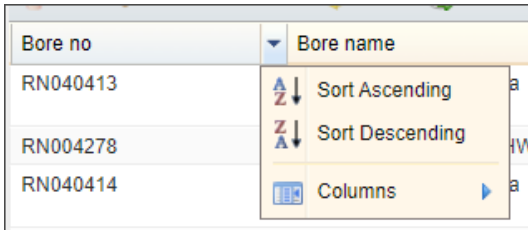
Hint: To create a buffer around the selected parcel change the distance value.

Click on the New button

All the bores within the parcel NT Por 7346 are selected and **high-lighted blue** on the map screen.

Step 4. Review details about the 16 selected bores in the Data Results window (below the map screen)

Bore no	Name	Bore report	Yield (L/s)	Completi...	Drilled depth ...	Completion d...
RN000159	ARMY NO:384A NTP=550	View Report			35.1	35.1
RN000596	C.S.I.R.O. 4 MILE FARM KATHERINE	View Report	0.91	21/11/1952	36.6	36.6
RN002522	Katherine - 4 Mile Farm	View Report			46.9	46.9
RN002888	C.S.I.R.O. EXPERIMENTAL NO.2 KATHERINE FARM	View Report	0	16/03/1961	40.5	40.5
RN002889	C.S.I.R.O. EXPERIMENTAL NO.3 KATHERINE FARM	View Report	0	20/03/1961	30.7	30.7
RN002890	NO.4 C.S.I.R.O. KATHERINE FARM	View Report	0	29/03/1961	23.8	23.8



Sort by a column heading,

For Example - Bore No.

Hover and then click black arrow on right of column heading Bore No.

Click on Columns to turn off attribute fields you do not want to display.

Bore no	Name	Bore report
RN000159	ARMY NO:384A NTP=550	View Report
RN000596	C.S.I.R.O. 4 MILE FARM KATHERINE	View Report
RN002522	Katherine - 4 Mile Farm	View Report
RN002888	C.S.I.R.O. EXPERIMENTAL NO.2 KATHERINE FARM	View Report
RN002889	C.S.I.R.O. EXPERIMENTAL NO.3 KATHERINE FARM	View Report

Select the first record RN000159.

The record row will be highlighted in a **soft blue**.

Click on the Zoom button.

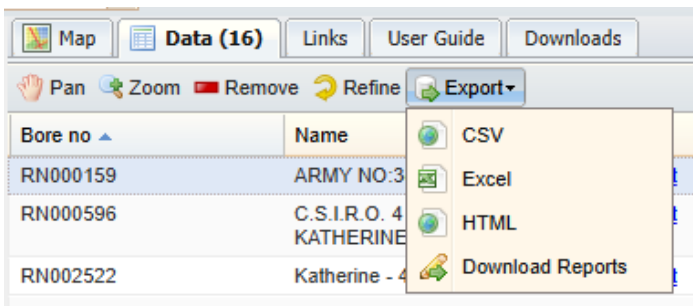
The map will zoom to the selected bore.

To select more than 1 record in the Data Panel use the shift key.

Use the other Data Panel functions to edit the selected features. (Zoom, Remove, Refine)

For example. Sort the bores by Yield. Select the bores with the lowest yield and click on Remove.

Export the results



Use the Export tool to download and save all the records in a range of formats.

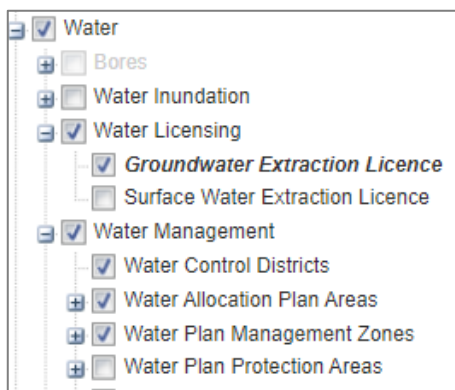
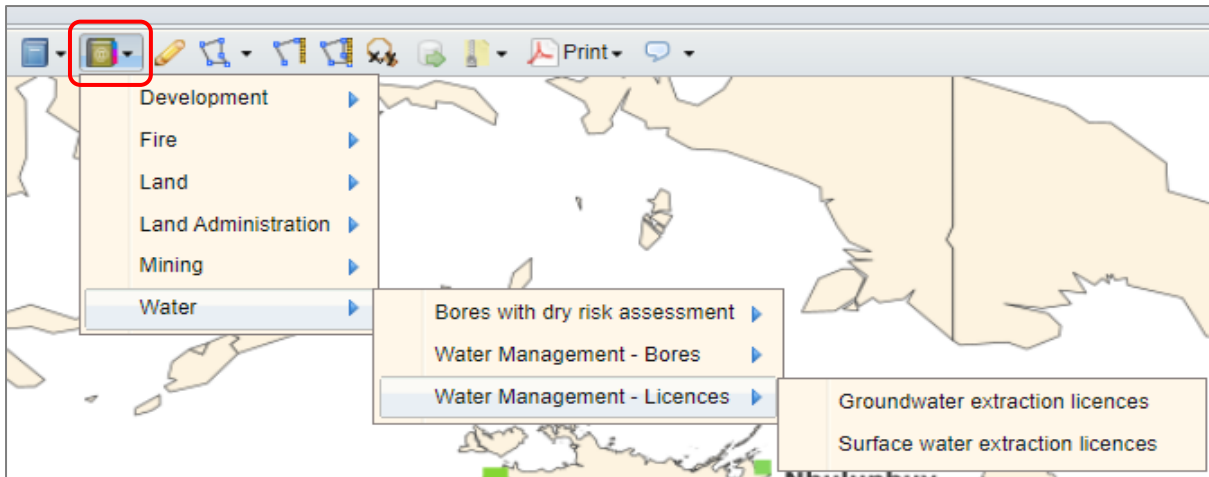
In each format, the web links will be held.

Section 3 Water extraction licences

3.1 How to find groundwater and surface water extraction licences

Step 1. Turn on layers using the published bookmark.

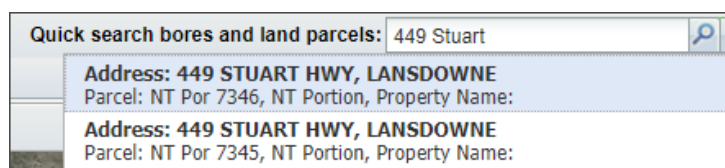
Hover your mouse (do not click) over Water; Water Management – Licences, then click Groundwater or Surface Water



Several layers will automatically turn on in the Water Folder.

The basemap will change to Google Satellite.

At this stage, you can also turn on other layers to display on the map screen.



Step 2. Enter an address in the Quick Search tool

Zoom to NT Por 7346

Step 3. Identify licences in the selected parcel – try each of the methods directly after Step 2.

- 1 Use the Identify tool
- 2 Use the Map Tips tool
- 3 Use the Selection tools
- 4 Use the Spatial Select tool

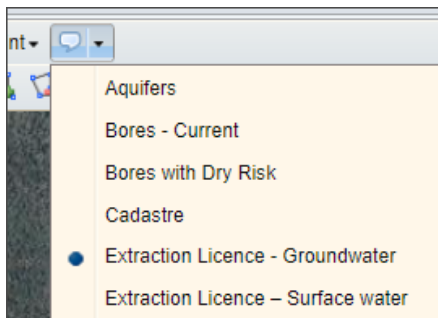


Step 3.1 Identify the licences in the selected parcel: use the Identify tool
Click on the left identify tool.

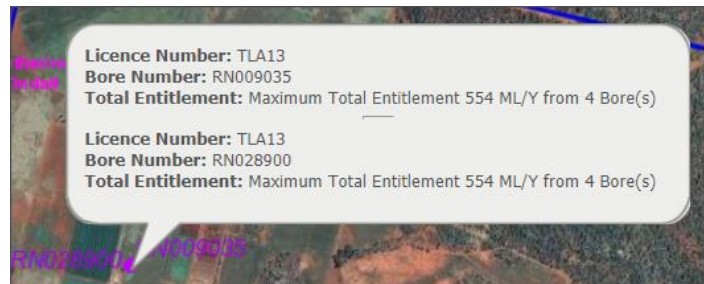
A new window will display all the visible features that intersect NT Por 7346 including licence details.

Selection Identify		
Groundwater Extraction Licence (4)	Pan Zoom Remove Refine Export	
Water Allocation Plan - Declared (1)		
Water Control Districts (1)		
Water Plan Management Zones - Declare		
Licence Number	Bore Number	Licensed Maximum Total ...
TLA13	RN033342	Maximum Total Entitlement 554 ML/Y from 4 Bore(s)
TLA13	RN033343	Maximum Total Entitlement 554 ML/Y from 4 Bore(s)

Step 3.2 Identify the licences in the selected parcel: use the Map Tips tool



1. Click on the small arrow to open and change the selection to Extraction Licence - Groundwater
2. Hover the mouse over a bore (do not click) to see the summarised bore information



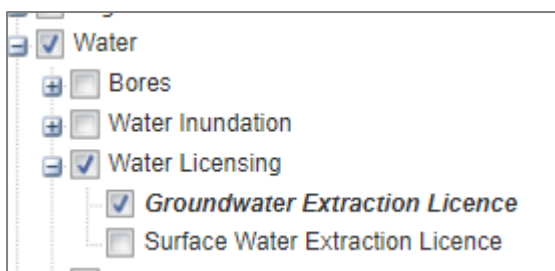
3. Click the tool again to deactivate the tool.

Step 3.3 Identify the licences in the parcel: use the Selection tools.

We recommend reading the NR Maps user guide *How to use the selection tools*.

When an address is entered in the Quick Search tool, Cadastre (Land Parcels) is the Active Layer.

To select licences on the map screen, the Active Layer must be changed.



1. Right mouse click on the layer Groundwater Extraction Licence
2. Set this as the Active Layer.

The active layer name is displayed in **bold italic text**.

Select a Licence on the map screen and view details in the Data Panel.

Licence Number	Bore Number	Licensed Maximum Total ...	Water Control District	Water Allocation Plan	Water Management Zone	Groundwater Source	Licence	Bore Report
TLA13	RN033342	Maximum Total Entitlement 554 ML/Y from 4 Bore(s)	Daly Roper Beetaloo Water Control District	Katherine Tindall Limestone	Not Applicable	Katherine Tindall Limestone Aquifer	Download Document	View Report
TLA13	RN033343	Maximum Total Entitlement 554 ML/Y from 4 Bore(s)	Daly Roper Beetaloo Water Control District	Katherine Tindall Limestone	Not Applicable	Katherine Tindall Limestone Aquifer	Download Document	View Report

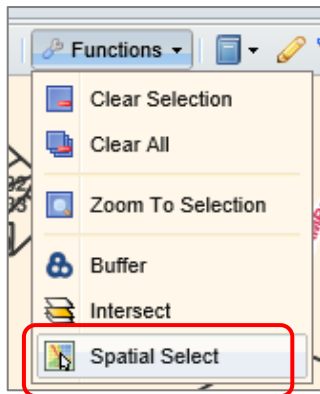
Click on the Download Document link to view the Licence details (PDF).

Click on the View Report link to view or save the Bore Statement (PDF).

Please refer to page 7 for further details about selecting features on the map screen.

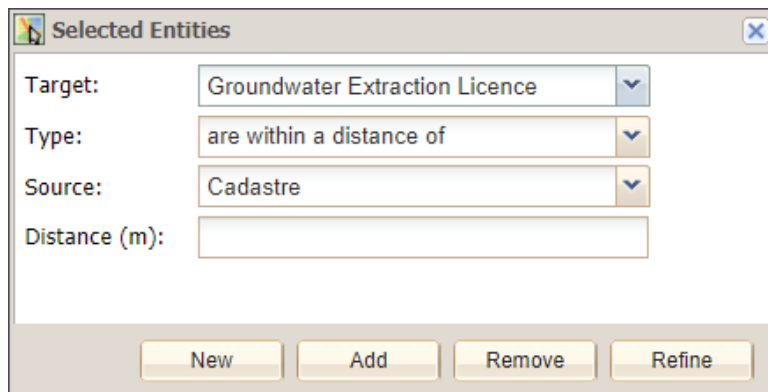
Step 3.4 Identify the licences in the parcel: use the Spatial Select tool

This process is also described in 2.4 - How to select all bores within a parcel.



- Open the Functions toolset
- Click on the Spatial Select tool

After using this tool, the licences will be selected and displayed. The licences layer will also become the active layer.



Enter details for the licence selection

Target: from list, select Groundwater Extraction Licence

Type: are within a distance of

Source: Cadastre (using the selected parcel)

Distance (metres): blank is 0

Click on the New button

All the licences within the parcel NT Por 7346 are selected and **high-lighted blue** on the map screen.

Step 4. Review details about the 16 selected bores in the Data Results window (below the map screen)

Refer back to 2.4 - How to select all bores within a parcel.