

# WATER MONITORING DATA

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## HOW TO GUIDE

V4.1

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## About this Document

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# Table of Contents

<b>1.</b>	<b>Purpose .....</b>	<b>4</b>
<b>2.</b>	<b>Introduction.....</b>	<b>4</b>
<b>3.</b>	<b>Accessibility, requirements and common browser issues .....</b>	<b>4</b>
<b>4.</b>	<b>Frequently Asked Questions .....</b>	<b>5</b>
4.1	Surface Water .....	5
4.2	Groundwater.....	5
<b>5.</b>	<b>Bore finder.....</b>	<b>8</b>
5.1	To access and use Bore finder .....	8
<b>6.</b>	<b>How to – Surface Water.....</b>	<b>10</b>
6.1	Discover surface water information .....	10
6.2	View state-wide basin information and reports .....	12
6.3	View site details and reports.....	13
6.4	View and download site exports .....	14
6.5	Download and select groups of sites.....	17
6.6	Pre-prepared Surface water data extracts.....	19
<b>7.</b>	<b>How to – Groundwater.....</b>	<b>20</b>
7.1	Discover groundwater information .....	20
7.2	View latest values.....	22
7.3	View bore details .....	23
7.4	View site documents.....	24
7.5	View and/or download individual site data.....	25
7.6	Upload groundwater data into WMIS.....	27
7.7	Download data for groups of sites .....	29
7.7.1	Pre-prepared Groundwater Data Extracts.....	31
<b>8.</b>	<b>Disclaimer and Copyright .....</b>	<b>33</b>

## 1. Purpose

The purpose of this document is to provide detailed instructions on using the Department's Water Monitoring Data Portal

If you have queries regarding the information contained in this document please contact the Department at [water.data@dse.vic.gov.au](mailto:water.data@dse.vic.gov.au)

## 2. Introduction

The Department's Water Monitoring Data Portal provides access to a subset of data collected through Victoria surface water and groundwater monitoring networks. The portal is accessible at the following URL

<http://data.water.vic.gov.au/monitoring.htm>

The portal provides two ways of discovering data:

1. Either through our map by selecting monitoring sites; or
2. By searching by monitoring site

Some points to note:

- You have access to data as plots and tables, as well as other media (which may include photo images, text documents, sound files or movies).
- You can select and download groups of sites for both surface and groundwater by selecting the "download sites" hyperlink underneath the headings.
- Navigation is provided via the menu trees in the left pane and various links on the pages in the right pane.

## 3. Accessibility, requirements and common browser issues

Minimum browser requirements

- Internet Explorer 8+, or Firefox 3+
- Screen size not less than 1024 by 768 pixels
- Javascript and cookies must be enabled
- Internet Explorer security level Medium (Internet Options.. -> Security)

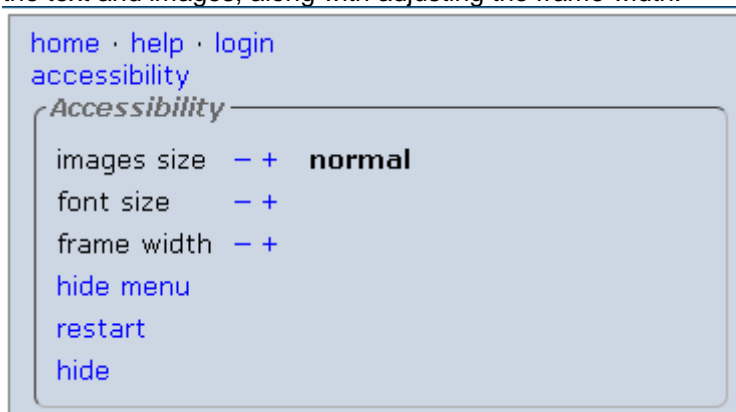
Recommended installed applications

- Microsoft Windows Media Player or RealNetworks Real Player
- Adobe Reader

You may also require the following applications installed to view some provided sites documents:

- Microsoft Office, or Open Office

By selecting the "**accessibility**" link on the left hand navigation menu you can also alter the size of the text and images, along with adjusting the frame width.



## 4. Frequently Asked Questions

### 4.1 Surface Water

This section is currently under development.

If you do any questions relating monitoring data available through the Portal or information contained in this document please email the Department at [water.data@dse.vic.gov.au](mailto:water.data@dse.vic.gov.au)

### 4.2 Groundwater

#### Q: What is a site?

A: A site is a location where one of more measurements may be taken. Sites in groundwater refer to the bore ID as registered through the water register/bore construction process. Every site is identified by a unique site code and a site name. Site information is accessed in the Details tab.

#### Q: I can't find the bore id I used to use in the GMS

A: The Groundwater Management System (GMS) contained a significant number of bores that over time had been assigned identifiers that incorporated a range of special characters including + (plus) . (dot) / (backslash) - (hyphen).

In consultation with major stakeholders bore ids containing these special characters have been converted to WRK numbers. WRK numbers generated by the Water Register and assigned to a bore when a person lodges an application for a new bore. Converting bore ids containing special characters to WRK numbers will allow more effective management of groundwater monitoring data. A Bore Finder app and/or “**Site ID reference table**” spreadsheet that cross references bores with special characters with WRK numbers is available from the Department via the groundwater data page on the data extract menu.

Please also see **Section 5 on how to use bore finder**

The screenshot shows the Department of Environment and Primary Industries website. The sidebar on the left contains links for 'home', 'help', 'accessibility', 'Rivers and Streams', 'favourites', 'download sites', 'find a site', 'Surface Water Sites', 'Groundwater', 'Search results' (showing coordinates and zone), 'download sites', 'find a site', 'data extracts', 'Groundwater Sites', 'Data Extracts', and 'Data Extracts'. The main content area is titled 'Data Extracts' and 'Groundwater Data'. It includes a section for 'Groundwater - data extracts' with a description of the data and a list of available extracts. The 'Site ID reference table' is highlighted with a red box.

Extract Name	Format	Size
Site table	[ZIP]	3.3MB
Water levels	[ZIP]	52.1MB
Field water quality	[ZIP]	382kB
Laboratory water quality	[ZIP]	5.1MB
Driller log	[ZIP]	4.4MB
Geology log	[ZIP]	667kB
Lithology log	[ZIP]	45kB
<b>Site ID reference table</b>	[ZIP]	5.7MB
Bore finder	[ZIP]	6.3MB
Explanatory notes (data extracts)	[DOC]	300kB

#### Q: Why did I receive an empty spreadsheet with no data when I uploaded a list into the group selection and download “Upload site list” option?

A: The site IDs in your list might not exist in the system. You could check that the site exists in the home page by using the “find a site” function. If it doesn't exist under that ID it will notify you:

**Groundwater**

*find a site*

Enter the site ID

GW100

[download sites](#) [data extracts](#) [find a site](#)

**Groundwater**

*Search results*

GW100 not found

[hide](#)

[download sites](#) [find a site](#)

Also please refer to the previous question as some GMS site IDs have had to be altered.

**Q: What are the use groups?**

A: In the Water Measurement Information System a bore may have more than one use type (or purpose) recorded against it. These uses have been grouped together into six separate groups:

1. **Dewatering** includes any sites registered with these uses:
  - a. Dewatering (DW),
  - b. Dewatering to evaporative basins (DE), and
  - c. Public dewatering (PD).
2. **Domestic and Stock** includes any sites registered with these uses:
  - a. Communal domestic (CD),
  - b. Domestic (DM),
  - c. Domestic - billable (DM-B),
  - d. Domestic and stock (DS),
  - e. Stock (ST), and
  - f. Stock - billable (ST-B).
3. **Licensed** includes any sites registered with these uses:
  - a. Agro industries (AI),
  - b. Aquaculture (AQ),
  - c. Commercial (CO),
  - d. Commercial aquaculture (CA),
  - e. Commercial residential (CR),
  - f. Dairy (DY),
  - g. Intensive animal husbandry (IA),
  - h. Industrial (IN)
  - i. Irrigation (IR),
  - j. Mineral water (MW), and
  - k. Urban (UR).
4. **Monitoring and Observation** includes any sites registered with these uses:
  - a. Dryland salinity network (DPI),
  - b. Engineering geology (EG),
  - c. Gen. geological inv. (GI),
  - d. Geothermal (GE),
  - e. Groundwater (GW),
  - f. Groundwater investigation (IV),
  - g. Mineral investigation (ME),
  - h. Observation (OB),
  - i. Petroleum exploration (PE), and
  - j. Stratigraphic (SG).
5. **Other** includes any sites registered with these uses:
  - a. Culture (CU),
  - b. Disposal (DI),
  - c. Drought relief (DR),
  - d. Environment(EN),
  - e. Extractive/quarrying(EX),

- f. Groundwater recharge(RE),
  - g. Interception(INT),
  - h. Miscellaneous (MI),
  - i. Non-groundwater(NG),
  - j. Not known(NKN),
  - k. Not used - capped (NU),
  - l. Public pumps (PP),
  - m. Salinity irrigation(SI), and
  - n. SEC bores(use unidentified) (SEC).
6. **State observation bore network (SOBN)** includes any sites registered as "State Observation Network (SON)".
- a. **Inactive** – those registered as SOBN but not currently monitored
  - b. **Active** – those registered as SOBN and currently being monitored

**Q: what do the arrows mean on the latest values tab for Groundwater sites?**

A: The arrows indicate whether or not the latest value has increased, decreased or remained stable since the last record/reading.

↑ higher than the previous record

↓ lower than the previous record

↔ unchanged (stable) from the previous record

**Q: Why do I keep seeing this, or a similar, error:**

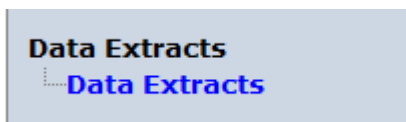
“http://203.12.195.133/wgen/cache/anon/gwlf\_org58112.xml could not be found or is empty”

A: This could be a web browser issue. If you see this error please delete your cookies, clear your cache (Tools > Internet options > General > Browsing History > Delete) and shut down and restart your browser again. If you still receive this error please contact DSE. Else, you can try using a different type of browser like Google Chrome or Mozilla Firefox. These two generally work better than Internet Explorer for this application.

**Q: Will quarterly extracts of the GMS still be emailed out?**

A: WMIS provides the same functionality so these bulk extracts are no longer necessary. If you require a copy of the full database please contact DSE.

Otherwise, you can access monthly groundwater extracts through the option in the navigation bar (see question above about the sites ids and the data extracts menu).



## 5. Bore finder

The **bore finder** can also help you to locate a bore ID. Bore finder is a **spreadsheet** with a custom search box where you can search on a string of characters which then provides you with possible ids to use.

### 5.1 To access and use Bore finder

1. Go to the Data Extracts heading in the Navigation pane
2. Switch to the Groundwater Data tab
3. Click on the bore finder link to open in Excel

The screenshot shows the Department of Environment and Primary Industries website. The 'Data Extracts' section is highlighted, and the 'Groundwater Data' tab is selected. The 'Bore finder' link is circled in red. The 'Data Extracts' link in the left navigation pane is also circled in red.

Department of Environment and Primary Industries

home · help  
accessibility

Rivers and Streams  
favourites ·  
download sites ·  
find a site  
▢ Surface Water Sites

Groundwater  
Search results  
58112  
36° 49' 42.3" S  
143° 29' 40.9" E  
Zone 54  
722485.8 E  
5921256.8 N  
hide  
download sites ·  
find a site ·  
data extracts  
▢ Groundwater Sites

Data Extracts  
Data Extracts

Data Extracts  
Data Extracts

Surface Water Data Groundwater Data

Groundwater - data extracts

For easier access to large datasets the following pages contain data extracts for groundwater sites, which are updated monthly. Unless otherwise specified the files are .csv format.

Please [contact the Department](#) if you would like different datasets published through these pages.

Site table	[ZIP] 3.3MB
Water levels	[ZIP] 52.1MB
Field water quality	[ZIP] 382kB
Laboratory water quality	[ZIP] 5.1MB
Driller log	[ZIP] 4.4MB
Geology log	[ZIP] 667kB
Lithology log	[ZIP] 45kB
Site ID reference table	[ZIP] 5.7MB
Bore finder	[ZIP] 6.3MB
Explanatory notes (data extracts)	[DOC] 300kB

4. Check in Excel that your Macros have been Enabled = either
  - a. on the Message Bar, click Enable Content



OR

- b. Go to File > Options > Trust Centre > "Trust Centre Setting..." button > Macro Settings > Select the "Enable all macros..." radio button

Trust Center Settings...

The screenshot shows the Trust Center dialog box. The 'Macro Settings' section is selected, and the 'Enable all macros (not recommended; potentially dangerous code can run)' radio button is chosen. The 'Developer Macro Settings' section is also visible, with the 'Trust access to the VBA project object model' checkbox checked.

Trust Center

Trusted Publishers  
Trusted Locations  
Trusted Documents  
Add-ins  
ActiveX Settings  
Macro Settings  
Protected View  
Message Bar

Macro Settings

☐ Disable all macros without notification  
☐ Disable all macros with notification  
☐ Disable all macros except digitally signed macros  
☒ Enable all macros (not recommended; potentially dangerous code can run)

Developer Macro Settings

☒ Trust access to the VBA project object model

2. Open the spreadsheet and double click anywhere to begin search



3. The ID to be used in WMIS can be found in Column A, **Current bore ID (WMIS)** and the first column in the search box labelled Current ID

The screenshot shows a spreadsheet titled "Bore Finder" with columns A through H. A red circle highlights the "Current bore ID (WMIS)" header in column A. A red box at the top right contains the text "Double click any cell to bring up the search box". A search dialog box titled "Bore Finder v2.1" is open, showing a search input field with "S9021358/1" and a "Search" button. Below the search field, a table lists the search results:

Current ID	GMS	DITR	VIC WATER	RIG	DIV
WRK065764	S9021358/1		BS9021358/1		

At the bottom of the dialog, it says "Found 1 bore containing S9021358/1 in its id".

The screenshot shows the "Bore Finder v2" spreadsheet with the "INFORMATION" tab selected. The tab contains a table with the following data:

Heading	Abbreviation	Description
Current ID		use this ID in WMIS
GMS		Groundwater management system
DITR		Manufacture & Industry Dev
VICWATER		Data Warehouse B numbers
RIG		Drilling Services Rig No.
DIV		RWC Diversions Bore Number
CNR		Conservation and Natural Resources

**Abbreviations in the bore finder spreadsheet (please note, these can also be found on the information tab in the spreadsheet):**

- Current ID - use this in WMIS
- GMS - Old Groundwater Management System
- DITR - Manufacture & Industry Dev
- VICWATER - Data Warehouse B numbers
- RIG - Drilling Services Rig No.
- DIV - RWC Diversions Bore Number
- CNR - Conservation and Natural Resources

## 6. How to – Surface Water

### 6.1 Discover surface water information

#### Overview

Individual sites containing surface water data can be found using

- the interactive map
- navigation menus on the web portal to browse for a single site
- ‘find a site’ tool to view a single site

#### Procedure – Navigation menus

1. From the WMIS web portal select the “Surface Water Sites” menu:

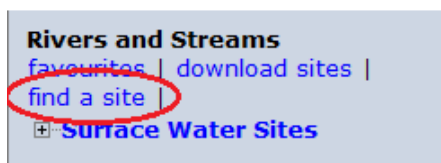


2. Hover over the points on the map until the label is revealed and select the site you want.

A screenshot of the WMIS web portal. The header shows the 'Department of Environment and Primary Industries' logo. The left sidebar contains a navigation menu with 'Surface Water Sites' selected. The main content area displays a map of Victoria with numerous green dots representing active sites. A legend indicates 'Active' sites are green dots and 'Inactive' sites are grey dots. The map includes labels for various locations like Melbourne, Sydney, and Canberra. The top right corner has a 'bookmark this page' link.

3. Under the “Surface Water Sites” menu select a basin to retrieve sites on streams in that basin. Here you can also select the site via the interactive map.

4. If you know the site ID you can select it from the WMIS web portal select the “find a site” link in the “Rivers and Streams” heading:



5. Enter the Site ID and click on the “search” button.

6. Click on the Site ID to view the details.



## 6.2 View state-wide basin information and reports

Overview – at the state-wide level there are two additional tabs available which provide general information on basins and statewide reports available for download.

### Procedure – Navigation menus

1. From the WMIS web portal select the “Surface Water Sites” menu:



2. Switch to the Basin Info tab to view information on basins and where to source spatial layers.

The image shows the WMIS web portal with the 'Basin Information' tab selected. The page title is 'Surface Water Sites'. The left sidebar contains links for 'Rivers and Streams', 'Groundwater', and 'Data Extracts'. The main content area is titled 'Basin Information' and contains text about the Australian Water Resources Council (AWRC) and a map of Australia showing drainage divisions.

3. Switch to the Reports tab to view and download various state-wide reports.

The image shows the WMIS web portal with the 'Reports' tab selected. The page title is 'Surface Water Sites'. The left sidebar contains links for 'Rivers and Streams', 'Groundwater', and 'Data Extracts'. The main content area is titled 'Victorian Water Quality Trend Reports' and contains a list of reports with their respective file sizes.

Report Name	File Size
Victorian Water Quality Trends 1991-2010	10.5 MB
Victorian Water Quality Trends 1991-2010 - Summary Table and Plots	18 MB
Victorian Water Quality Monitoring Network Trend Analysis Update to 2005	13 MB
VWQMN Trend Analysis: CCMA	4.5 MB
VWQMN Trend Analysis: EGCMA	4.8 MB
VWQMN Trend Analysis: GBCMA	4.5 MB
VWQMN Trend Analysis: GBCMA	5.3 MB
VWQMN Trend Analysis: MCMA	0.9 MB
VWQMN Trend Analysis: NCCMA	4.9 MB
VWQMN Trend Analysis: NECMA	4.2 MB
VWQMN Trend Analysis: PPCMA	5.5 MB
VWQMN Trend Analysis: WGCMA	4.5 MB
VWQMN Trend Analysis: WCMA	1.7 MB
VWQMN Trend Analysis: State Summary	3.6 MB

## 6.3 View site details and reports

### Overview

The Details tab provides a user with site details such as location, number of gaugings, maximum gauged level and period of record.

Surface Water reports are available from the Reports tab for an individual Site.

The Reports tab provides a user with access to the following reports and plots:

- Site Details Summary,
- Continuous Height and Flow,
- Monthly Flow,
- Daily Flow Duration,
- Most Recent Rating Table (Plot), Most Recent Rating Table (Table),
- Gaugings vs. Rating

### Procedure

Select a Site using the details in 6.1 above, and switch to either the Details Tab or the Reports Tab:

home · help  
accessibility

Rivers and Streams  
favorites · download sites ·  
find a site

Surface Water Sites

221-East Gippsland Basin

**221001 GENOA RIVER @ ROCKTON**

221200 BEMM RIVER @  
221201 CANN RIVER (W  
221202 GENOA RIVER @  
221203 BETKA RIVER @  
221204 THURRA RIVER  
221205 BEMM RIVER @  
221206 CANN RIVER @  
221207 ERRINUNDRA RI  
221208 WINGAN RIVER  
221209 CANN RIVER (E/  
221210 GENOA RIVER @  
221211 COMBIENBAR RI  
221212 BEMM RIVER @  
221213 GOOLENGOOK R  
221214 CANN RIVER @  
221216 GENOA RIVER @  
221217 GENOA RIVER @  
221218 BETKA RIVER @  
221222 HENSLEIGH CRE  
221223 COMBIENBAR RI  
221601 Elusive Lake @  
221800 RAINGAUGE (GE

222-Snowy Basin  
223-Tambo Basin  
224-Mitchell Basin  
225-Thomson Basin  
226-Latrobe Basin  
227-South Gippsland Basin  
228-Bunyip Basin  
229-Yarra Basin  
230-Manbyrmond Basin

Rivers and Streams > Surface Water Sites > 221-East Gippsland Basin

**221001 GENOA RIVER @ ROCKTON**

Details Reports Data

**Details**

Site no. 221001  
Zone 55  
Easting/Northing 705825/5887218  
Latitude 37°08'19.2" S  
Longitude 149°19'02.3" E  
Site commence 26/05/1993  
Site ceased  
Zero gauge 414.716  
Datum AHD  
Control NATURAL ROCK BAR  
Cease to flow level 0.09  
Maximum gauged level 0.282  
Maximum gauge date 19/02/2013  
Distance from stream mouth 0 km  
Catchment area 126 sq. km  
Gaugings 261 gaugings between 10/06/1965 and 13/03/2013

Home Map Satellite

Google

Map Data 2 km L Terms of Use Report a map error

**Period of record**

Variable	Start date	End date	Days	Data type	Max value	Max date	Min value	Min date
10.00 A Rainfall (mm)	19/10/1994	18/09/2013	6908	Daily total	186.2	22/03/2011	0	23/10/1994
100.00 A Water Level (m)	07/06/1993	18/09/2013	7407	Instantaneous value	2.782	22/03/2011	0.055	12/03/2009
141.00 A Discharge (ML/d)	07/06/1993	18/09/2013	7407	Instantaneous value	19899.6	22/03/2011	0	30/12/1997
210.00 WQ Field pH	27/05/1993	18/09/2013	245	Point data	8.100	21/06/1999	5.500	02/08/1994
215.00 WQ DO (ppm)	27/05/1993	18/09/2013	238	Point data	14.200	29/06/1994	0	03/12/1997
450.00 WQ Temp (°C)	27/05/1993	18/09/2013	236	Point data	27.500	04/01/1999	2.500	29/06/1994
810.00 WQ Turbidity (NTU)	27/05/1993	18/09/2013	222	Point data	67.300	25/06/2013	0.200	27/04/1994
820.00 WQ EC (µS/cm)	27/05/1993	18/09/2013	244	Point data	207.000	10/05/2000	47.000	15/07/2008

## 6.4 View and download site exports

### Overview

Surface Water data can be extracted through the Exports Tab for an individual Site. The Export tab provides a user with a list of field and laboratory variables available at a site. Multiple variables can be selected along with a period and exported as either a plot, spreadsheet or table

### Procedure

Select a Site from the “Surface Water Sites” menu, and switch to the Exports Tab. Each Field Time Series and Laboratory Spot variable is listed with a checkbox to include/exclude it from the extract. Data can be extracted for various periods in plot, table or download formats.

The screenshot shows the website interface for the Department of Environment and Primary Industries. The main content area displays the 'Exports' tab for the site '221001 GENOA RIVER @ ROCKTON'. The interface includes a sidebar with navigation links, a breadcrumb trail, and a list of variables for export.

**Navigation Links:** home · help · login accessibility

**Rivers and Streams**  
favourites · download sites · find a site

**Surface Water Sites**  
221-East Gippsland Basin  
221001 GENOA RIVER  
221200 BEMM RIVER  
221201 CANN RIVER  
221202 GENOA RIVER  
221203 BETKA RIVER  
221204 THURRA RIVER  
221205 BEMM RIVER  
221206 CANN RIVER

**Breadcrumb:** Rivers and Streams > Surface Water Sites > 221-East Gippsland Basin

**Site Name:** 221001 GENOA RIVER @ ROCKTON

**Tabs:** Details Reports Exports

**Field Time Series Data**

Variable	Available for release	Period	Readings
<input checked="" type="checkbox"/> Rainfall (mm)	Available for release	19/10/1994 to 06/02/2013	(6684 readings)
<input type="checkbox"/> Stream Water Level (m)	Available for release	07/06/1993 to 24/07/2012	(6987 readings)
<input type="checkbox"/> Stream Discharge (ML/d)	Available for release	07/06/1993 to 24/07/2012	(6987 readings)

**Laboratory and Spot Field Data**

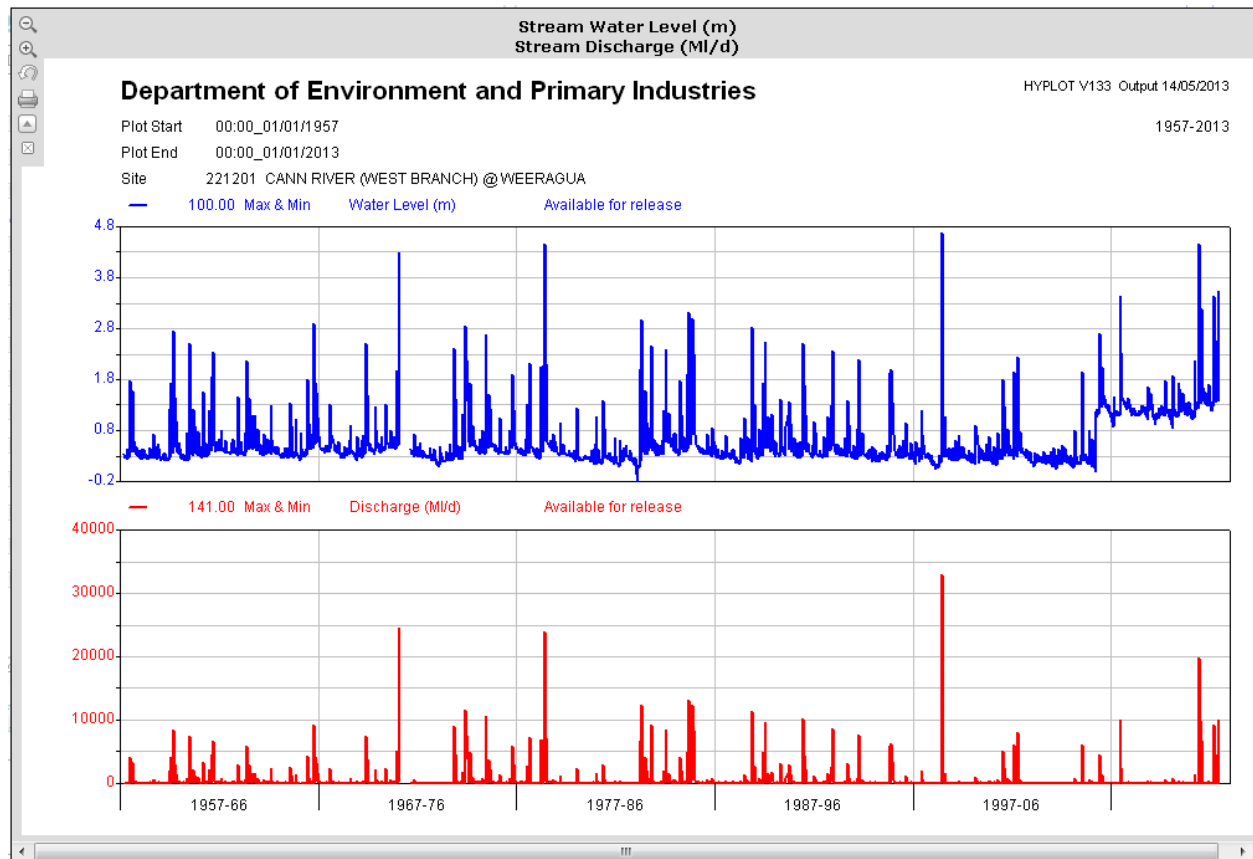
Variable	Available for release	Period	Readings
<input type="checkbox"/> Acidity/Alkalinity (pH)	Available for release	27/05/1993 to 24/07/2012	(231 readings)
<input type="checkbox"/> Dissolved Oxygen (ppm)	Available for release	27/05/1993 to 24/07/2012	(224 readings)
<input type="checkbox"/> Water Temperature (°C)	Available for release	27/05/1993 to 24/07/2012	(222 readings)

### Plot format:







1. The plotting period can be set using the Period dropdown:

The screenshot shows a dropdown menu labeled 'Period'. The menu is open, showing three options: 'All data', 'All data', and 'Custom'. The first 'All data' option is highlighted.

2. Check the variables of interest, select your time “Period”, the “Plot” output type and click the “Get Output” button.



3. There are buttons located at the top left hand corner of the plot which will allow you to:

- Zoom Out ,
- Zoom In ,
- Reset the Size of the plot ,
- Print ,
- Open Plot in New Window  and
- Close the Plot .

#### Table format:

4. To view data in a table format select the period of time, "Table" from the Output, your "Data interval" and select the "Get Output" button.

Period	Output	Data Interval
All data	Table	Annual
		Annual
		Monthly
		Daily
		Hourly
		15 Minutes
		All points

**Get Output**



home · help · login  
accessibility

**Rivers and Streams**  
favourites ·  
download sites · find a site

Surface Water Sites

- 221-East Gippsland Basin
  - 221001 GENOA RIVER
  - 221200 BEMM RIVER
  - 221201 CANN RIVER**
  - 221202 GENOA RIVER
  - 221203 BETKA RIVER
  - 221204 THURRA RIVER
  - 221205 BEMM RIVER
  - 221206 CANN RIVER
  - 221207 ERRINUNDRA
  - 221208 WINGAN RIVER
  - 221209 CANN RIVER
  - 221210 GENOA RIVER
  - 221211 COMBIENBAR
  - 221212 BEMM RIVER
  - 221213 GOOLENGOO
  - 221214 CANN RIVER
  - 221216 GENOA RIVER
  - 221217 GENOA RIVER
  - 221218 BETKA RIVER

**go back**

Annual data  
**Stream Water Level (m) [100.00]**  
**Stream Discharge (ML/d) [141.00]**

Quality Codes (QC)

2	Good quality data - minimal editing required. Drift correction
8	Pool reading only - no flow condition.
15	Minor editing. >+/-10mm drift correction
76	Reliable non-linear interpolation using other data sources, not a correlation.
77	Correlation with other station, same variable only.
104	Records manually estimated.
150	Rating extrapolated due to insufficient gaugings (see additional quality info)
254	Rating table exceeded
255	No Data Exists

Site 221201 CANN RIVER (WEST BRANCH) @ WEERAGUA Lat: -37.37293559 Long: -37.37293559 Elev: 169

Datetime	Water Level (m) Mean	QC	Discharge (ML/d) Mean	QC
01/01/1957 00:00:00		255		255
01/01/1958 00:00:00	0.295	2	58.266	2
01/01/1959 00:00:00	0.380	15	216.041	15
01/01/1960 00:00:00	0.376	15	223.270	15
01/01/1961 00:00:00	0.466	15	335.269	15

- Select the “go back” button to return to the Export tab.
- When returning to the Export tab after viewing a plot or table you will have the option to download your output via a zip file.

**Period** **Output** **Data Interval**

All data Table Annual

**Get Output**

display the table data again  
click here to download annual data zip file

#### Download format:

- If you don't want to view the data first you can go straight to the Download format in the “Output” drop down.

**Period** **Output** **Data Interval**

All data Download Annual

**Get Output**

click here to download annual data zip file



## 6.5 Download and select groups of sites

### Overview

Through the Download Sites user interface a user can select a group of sites and download data associated with the selected sites.

### Procedure

1. In the left hand navigation menu select the “download sites” hyperlink underneath the Rivers and Streams heading to navigate to the group download interface.

The image shows two parts of the user interface. The top part is a navigation menu with the following links: 'favourites', 'download sites' (highlighted with a red oval), 'find a site', and '+ Surface Water Sites'. The bottom part is the 'Download Rivers and Streams sites' interface. It features a map of Australia with numerous site markers. On the left, there are several sections: 'Create a list of sites' with radio buttons for 'Upload site list', 'Select by radius from map', and 'Select by rectangle from map'; 'Data to be downloaded' with checkboxes for 'Site Details', 'Water Level data', 'Water Flow data', 'Rainfall data', 'Water Quality (Spot data)', and 'Water Quality (Continuous data)'; and 'Email address' with a text input field and a 'Prepare to Download' button. A 'Site Selection Colours' legend indicates that blue dots represent 'selected sites' and grey dots represent 'unselected sites'.

2. The user interface provides four methods for selecting a list of sites:

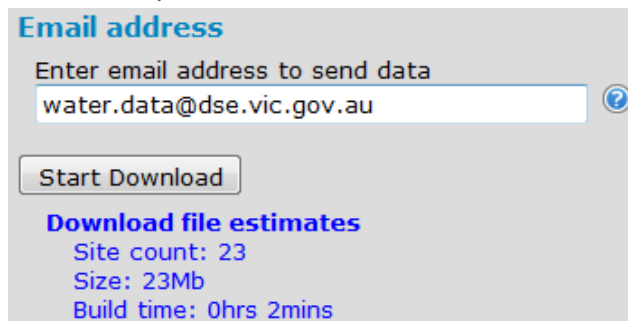
- a. ☒ Upload site list   - allows uploading of a .csv or .txt file of sites. Select “Browse...” to navigate to your txt or csv file.
- b. ☒ Select by radius from map - enables selection of sites by defining a radius on the map.
- c. ☒ Select by rectangle from map - enables selection of sites by defining a rectangle on the map.

3. There are six different types of data to choose for download:

- a. ☐ Site Details
- b. ☐ Water Level data
- c. ☐ Water Flow data
- d. ☐ Rainfall data
- e. ☐ Water Quality (Spot data)
- f. ☐ Water Quality (Continuous data)

4. Users can then select the amount of data (“All data”) or a custom time period for the data (“Custom”)
5. If continuous data (time series) has been selected it can then be aggregated using these intervals:
  - a. Annual

- b. Monthly
  - c. Daily
  - d. Hourly
6. Once the data has been selected the user must enter an email address into the space provided and select the “Prepare Download” button.
  7. First the user will be presented with a disclaimer that they must accept to continue with their download.
  8. The interface will then give you a rough estimate of the time it will take to download the data and provide statistics for you to consider



**Email address**

Enter email address to send data

water.data@dse.vic.gov.au

**Start Download**

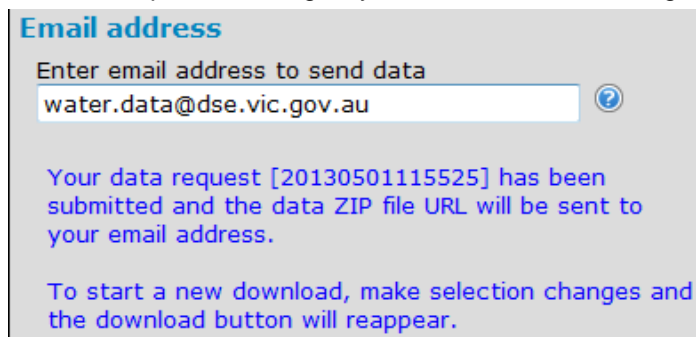
**Download file estimates**

Site count: 23

Size: 23Mb

Build time: 0hrs 2mins

9. Once the disclaimer has been accepted you can then start your download by selecting the button and it will send the request off and give you a confirmation message.



**Email address**

Enter email address to send data

water.data@dse.vic.gov.au

Your data request [20130501115525] has been submitted and the data ZIP file URL will be sent to your email address.

To start a new download, make selection changes and the download button will reappear.

10. Please note, if you change any of your options in the list creation, type of data to download or the email address the system will recalculate your download statistics.
11. If at any time you wish to return to the home page you can select the “close” hyperlink located next to the “Download Rivers and Streams sites” heading at the top of the interface.



**Download Rivers and Streams sites** [close](#)

**Create a list of sites**

☐ Upload site list   [clear](#)

☐ Select by radius from map

☐ Select by rectangle from map

**Site Selection**

☒ selected

☐ unselected

## 6.6 Pre-prepared Surface water data extracts

Overview: To aid data discovery and display, DEPI will supply and regularly update the following data sets. The two sites files are suitable for conversion to spatial layers. The two discovery files show number of days of record for Time Series data, and number of records for Water Quality, for each of the variables at each site. This information can be used to develop site lists for use with the 'download sites' tool in the Rivers and Steams section.

### Procedure

1. Go to the Data Extracts heading in the Navigation pane
2. Switch to the **Surface Water Data** tab
3. Click on the files to open in Excel.

The screenshot shows the DEPI website interface. The header includes the Department of Environment and Primary Industries logo. The left navigation pane has links for 'home', 'help', 'accessibility', 'Rivers and Streams', 'Groundwater', and 'Data Extracts'. The 'Data Extracts' link is highlighted with a red box. The main content area shows the 'Data Extracts' heading, with 'Surface Water Data' and 'Groundwater Data' tabs. The 'Surface Water Data' tab is selected and highlighted with a red box. Below the tabs, the heading 'Surface water - data extracts' is followed by a paragraph explaining the data sets. A list of data sets is provided with their respective file sizes in CSV format.

Data Set	File Size
Surface water - Active sites	[csv] 169kB
Surface water - All sites	[csv] 317kB
Surface water - Time Series data discovery	[csv] 65kB
Surface water - Water Quality data discovery	[csv] 58kB

4. The site files are suitable for conversion to spatial layers.

Surface water - Active sites [csv] 169kB  
 Surface water - All sites [csv] 317kB

5. The two discovery files show number of days of record for Time Series data, and number of records for Water Quality, for each of the variables at each site.

Surface water - Time Series data discovery [csv] 65kB  
 Surface water - Water Quality data discovery [csv] 58kB

## 7. How to – Groundwater

### 7.1 Discover groundwater information

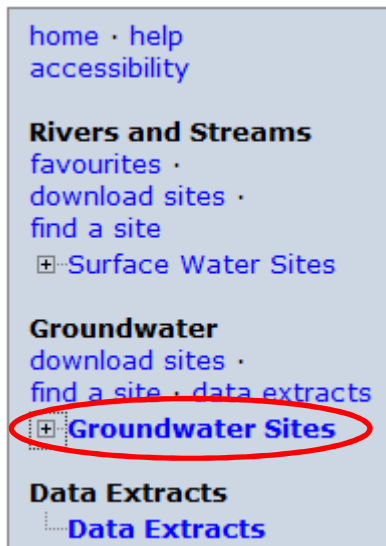
#### Overview

Individual sites containing groundwater data can be found using

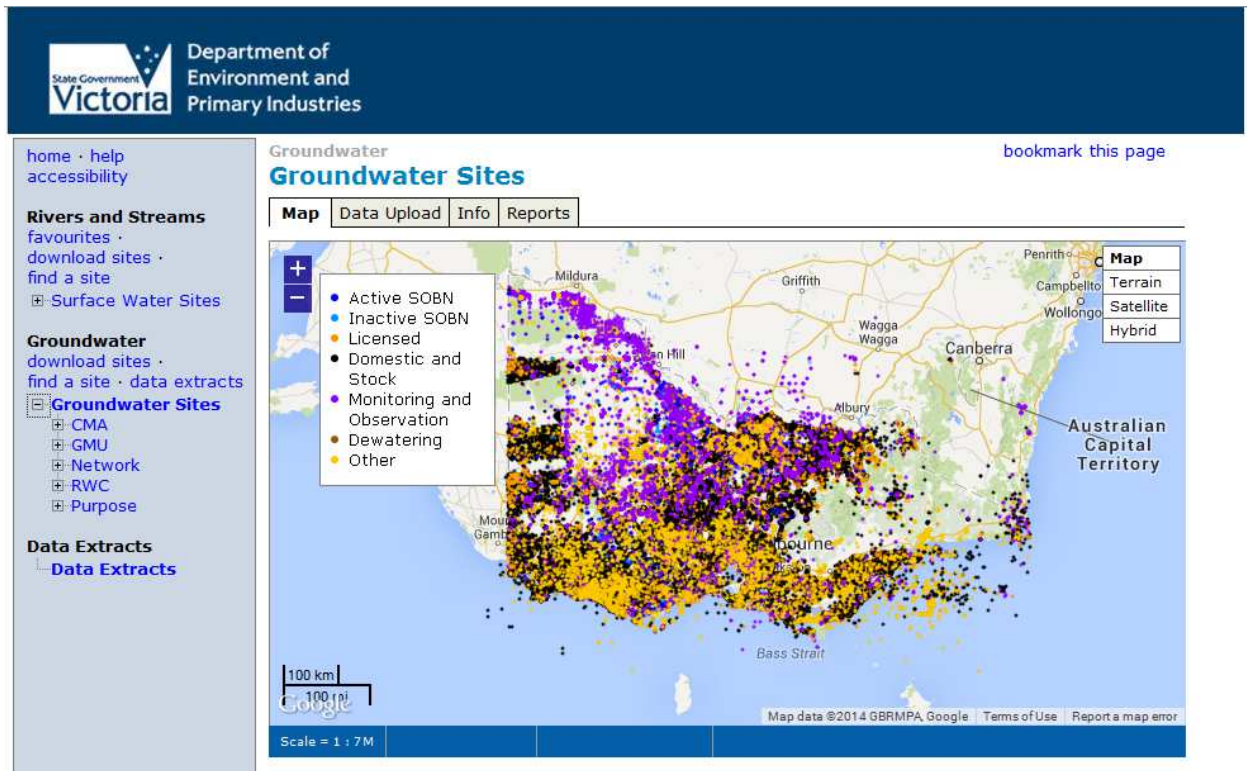
- the interactive map
- navigation menus on the web portal to browse for a single site
- ‘find a site’ tool to view a single site

#### Procedure – Navigation menus

1. From the WMIS web portal select the “Groundwater Sites” menu:



- 2.



3. You can browse for sites based on:
  - a. Catchment Management Authority
  - b. Groundwater Management Unit
  - c. Network (ie. SOBN)
  - d. Rural Water Corporation

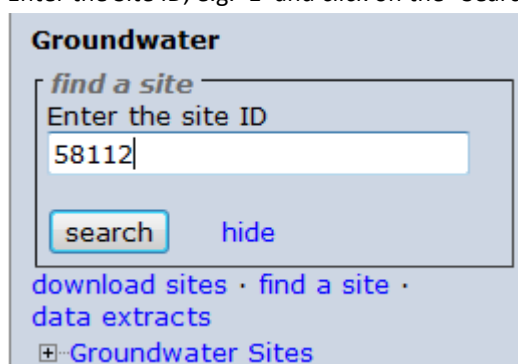
## e. Purpose

**Procedure – Find a single site**

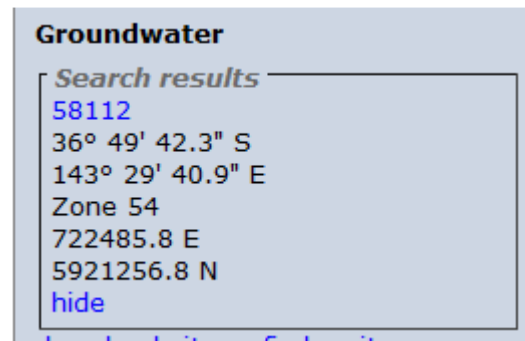
4. If you know the site id you can search for it from the WMIS web portal by selecting the “find a site” link from the “Groundwater Sites” menu:



5. Enter the Site ID, e.g. '1' and click on the “Search” button



6. Click on the Site ID to be directed to the site information.





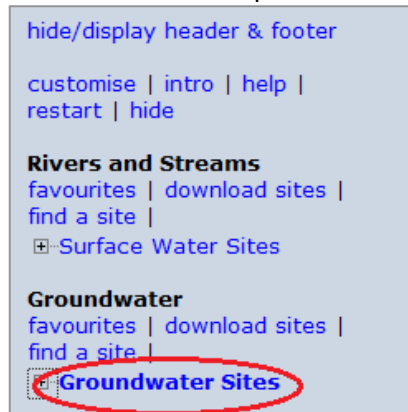
## 7.2 View latest values

### Overview

Latest values are available for an individual site on the Latest Values tab of the web portal.

### Procedure

1. From the WMIS web portal select the “Groundwater Sites” menu



2. Find a site of interest by following any of the steps in 6.1 above.
3. Latest values for all variables recorded at the site are displayed in the Latest Values tab, along with a summary header:

State Government Victoria Department of Environment and Primary Industries

home · help · login · accessibility

**Rivers and Streams**

[favourites](#) · [download sites](#) · [find a site](#) | [Surface Water Sites](#)

**Groundwater**

[Search results](#)

**58112**

36° 49' 42.3" S  
143° 29' 40.9" E  
Zone 54  
722485.8 E  
5921256.8 N  
[hide](#)

[download sites](#) · [find a site](#) · [data extracts](#) | [Groundwater Sites](#)

**Data Extracts**

[Data Extracts](#)

Groundwater > **58112** [bookmark this page](#)

**Latest Values** | [Bore Details](#) | [Documents](#) | [Data](#)

Site no. 58112 GMU (Not-set) SOBN Yes The quantity of data available for each bore varies with its purpose  
Purpose OBSERVATION, STATE OBSERVATION NETWORK Aquifer Calivil Formation Active Yes

**Latest values**

Bore WL (m)DT7	<b>4.260</b>	15:40 06/05/2013	↔
Bore WLBNS	<b>3.640</b>	15:40 06/05/2013	↔
Bore Water Level AHD	<b>189.870</b>	15:40 06/05/2013	↔
Field pH	<b>8.300</b>	00:00 13/10/1987	↔
µS/cm @ 25°C	<b>13000.000</b>	00:00 13/10/1987	↔

Plot of all available data(1) Plot of all available data(2)

State Forest

Google

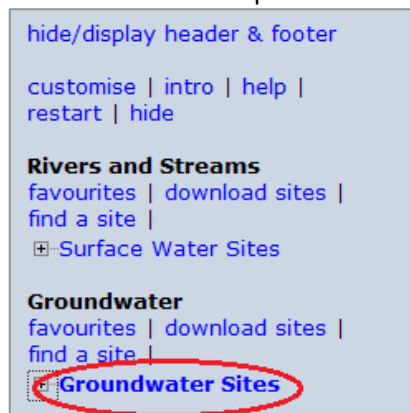
## 7.3 View bore details

### Overview

Lithology, period of record and construction details for a bore are available in the Bore Details tab for an individual site.

#### Test Procedure

- From the WMIS web portal select the “Groundwater Sites” menu:



- Find a site of interest by following any of the steps in 6.1. Switch to the Bore Details tab to view the lithology, period of record and construction details for the site.

**84288**

Latest Values	Bore Details	Documents	Data
Site no. 84288	GMU PAARATTE (GMU)	SOBN Yes	The quantity of data available for each bore varies with it's purpose
Purpose GROUNDWATER INVESTIGATION, OBSERVATION, STATE OBSERVATION NETWORK	Aquifer Unknown	Active No	

#### Period of record

Variable	Start date	End date	Days	Data type	Max value	Max date	Min value	Min date
110.00 Bore WL (m)DT7	08/05/1985	12/08/2009	8862	Instantaneous value	0 -		0 -	
113.00 Bore WLBNS	08/05/1985	12/08/2009	8862	Instantaneous value	0 -		0 -	
115.00 Bore Water Level AHD	08/05/1985	12/08/2009	8862	Instantaneous value	0 -		0 -	
210.00 Field pH	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
2012.00 µS/cm @ 25°C	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9520.00 ALK	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9524.00 CA	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9527.00 CL	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9536.00 HARD	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9537.00 HCO3	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9539.00 K	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9540.00 NA	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9544.00 NOX	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9553.00 SI	28/04/1984	01/05/1984	3	Instantaneous value	0 -		0 -	
9557.00 SO4	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9664.00 FE	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9670.00 MG	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	
9768.00 TDS	27/04/1984	01/05/1984	4	Instantaneous value	0 -		0 -	

#### Construction

Component	Material	From (m)	To (m)	OD (mm)	ID (mm)	Comments
Hole	Hole	0	1049.1	0		ROTARY
Casing	MILD STEEL	0	580.2	102	102	The outside diameter was not defined so the inside diameter has been used
Screen	MILD STEEL	580.2	595.02	102	102	The inside diameter was not defined so the outside diameter has been used
Casing	MILD STEEL	595.02	818.58	102	102	The outside diameter was not defined so the inside diameter has been used
Screen	MILD STEEL	792.5	807.5	102	102	The inside diameter was not defined so the outside diameter has been used

## 7.4 View site documents

### Overview

Static documents and pre-computed outputs are available in the Documents Tab for an individual site.

### Test Procedure

1. From the WMIS web portal select the “Groundwater Sites” menu:
2. Find a site of interest by following any of the steps in 6.1 above.
3. Photos are displayed in the Latest Values Tab:

hide/display header & footer ^

[customise](#) | [intro](#) | [help](#) | [restart](#) | [hide](#)

**Rivers and Streams**  
[favourites](#) | [site selection](#) | [find a site](#) | [open](#)  
 ☒ [Surface Water Sites](#)

**Groundwater**  
 Search results  
 1  
 36° 17' 29.3" S  
 145° 0' 36.6" E  
 321313.3 E  
 5981884.3 N  
[show groups](#)  
[hide](#)  
[favourites](#) | [site selection](#) | [find a site](#) | [open](#)  
 ☒ [Groundwater Sites](#)  
 bandwidth ☒ high ☐ low

Groundwater > Groundwater Sites > CMA > Goulburn C

**1**

Latest Values	Bore Details	Documents	Data
Site no. 1		GMU	SPRING HI (GMU)
Purpose	GROUNDWATER INVESTIGATION,OBSERVATION		Aquifer Unknown

**Latest instantaneous values**

Bore WL (m)DT7	<b>0.940</b>	00:00 23/02/1989	↔
Bore WLBNS	<b>0.720</b>	00:00 23/02/1989	↔
Bore Water Level AHD	<b>110.660</b>	00:00 23/02/1989	↔

Three small photographs showing the site: a borehole, a borehole with a cap, and a view of the site area.

4. All documents are listed in the Documents Tab:

hide/display header & footer ^

[customise](#) | [intro](#) | [help](#) | [restart](#) | [hide](#)

**Rivers and Streams**  
[favourites](#) | [site selection](#) | [find a site](#) | [open](#)  
 ☒ [Surface Water Sites](#)

**Groundwater**  
 Search results  
 1  
 36° 17' 29.3" S  
 145° 0' 36.6" E  
 321313.3 E  
 5981884.3 N  
[show groups](#)  
[hide](#)  
[favourites](#) | [site selection](#) | [find a site](#) | [open](#)

Groundwater > Groundwater Sites > CMA > Goulbur

**1**

Latest Values	Bore Details	Documents	Data
Site no. 1		GMU	SPF (GM)
Purpose	GROUNDWATER INVESTIGATION,OBSERVATION		Aquifer Unk

**Documents**

photo 1_20051122_cbf	[JPG]	65kB
photo 1_20051122_cub	[JPG]	58kB
photo 1_20051122_wav	[JPG]	66kB

**Applications**

[Groundwater Summary Report](#)  
[Site Details Summary](#)



## 7.5 View and/or download individual site data

### Overview

The Data Tab for an individual site provides options for displaying all variables in a table or downloading the data.

### Procedure

1. From the WMIS web portal select the “Groundwater Sites” menu:
2. Find a site of interest by following any of the steps in 6.1 above.
3. Water level data can be plotted or extracted in a table through the Data tab.
4. Select the data, the time Period, type of Output.

**Please note** – for all groundwater sites the Data interval will always be set to “All points” unless there is Time Series data available for the site.

Groundwater > bool

**58112**

Latest Values	Bore Details	Documents	Data
Site no. Purpose	58112 OBSERVATION, STATE OBSERVATION NETWORK	GMU Aquifer	(Not set) Calivil Formation
		SOBN Active	Yes Yes
		The quantity of data available for with its purpose	

**Laboratory and Spot Field Data**

<input checked="" type="checkbox"/>	Bore Water Level from MP Data Trans7(m)	11/09/1979 to 06/05/2013	(198 readings)
<input type="checkbox"/>	Bore WL Below Natural Surface DT7	11/09/1979 to 06/05/2013	(198 readings)
<input type="checkbox"/>	Bore Water Level AHD (m)	11/09/1979 to 06/05/2013	(198 readings)
<input type="checkbox"/>	Acidity/Alkalinity (pH)	28/04/1978 to 13/10/1987	(8 readings)
<input type="checkbox"/>	Conductivity (µS/cm)	28/04/1978 to 13/10/1987	(8 readings)

**Period** All data **Output** Table **Data Interval** All points

**Get Output**

5. Selecting the “Get Output” button will display your data on screen.
6. Select the “go back” button to return to the Data tab.

hide/display header & footer **go back**

[customise](#) | [intro](#) | [help](#) | [restart](#) | [hide](#)

**Rivers and Streams**

[favourites](#) | [download sites](#) | [find a site](#) | [Surface Water Sites](#)

**Groundwater**

Search results

46917

35° 39' 31.1" S

143° 46' 13.5" E

All points data

**Bore Water Level from MP Data Trans7(m) [110.00]**

Quality Codes (QC)

43 DSE GW - SOBN verified data

Site 46917 Lat:-35.65862844 Long:-35.65862844 Elev:0

Datetime	Bore WL MP (m)DT7 Point	QC
07/08/1986 00:00:00	7.366	43
09/09/1986 00:00:00	7.416	43

7. You can then download a zip file of your data or view the output on screen again by clicking on the “go back” button at the top of the table and selecting either of the hyperlinks.

**Period**  
 All data

**Output**  
 Table

**Data Interval**  
 Annual

Get Output

display the table data again  
click here to download annual data zip file

8. If you don't want to view the data before you download it, select the Period, in Output select "Download" and your Data Interval to produce a zip file containing your data.

**Period**  
 All data

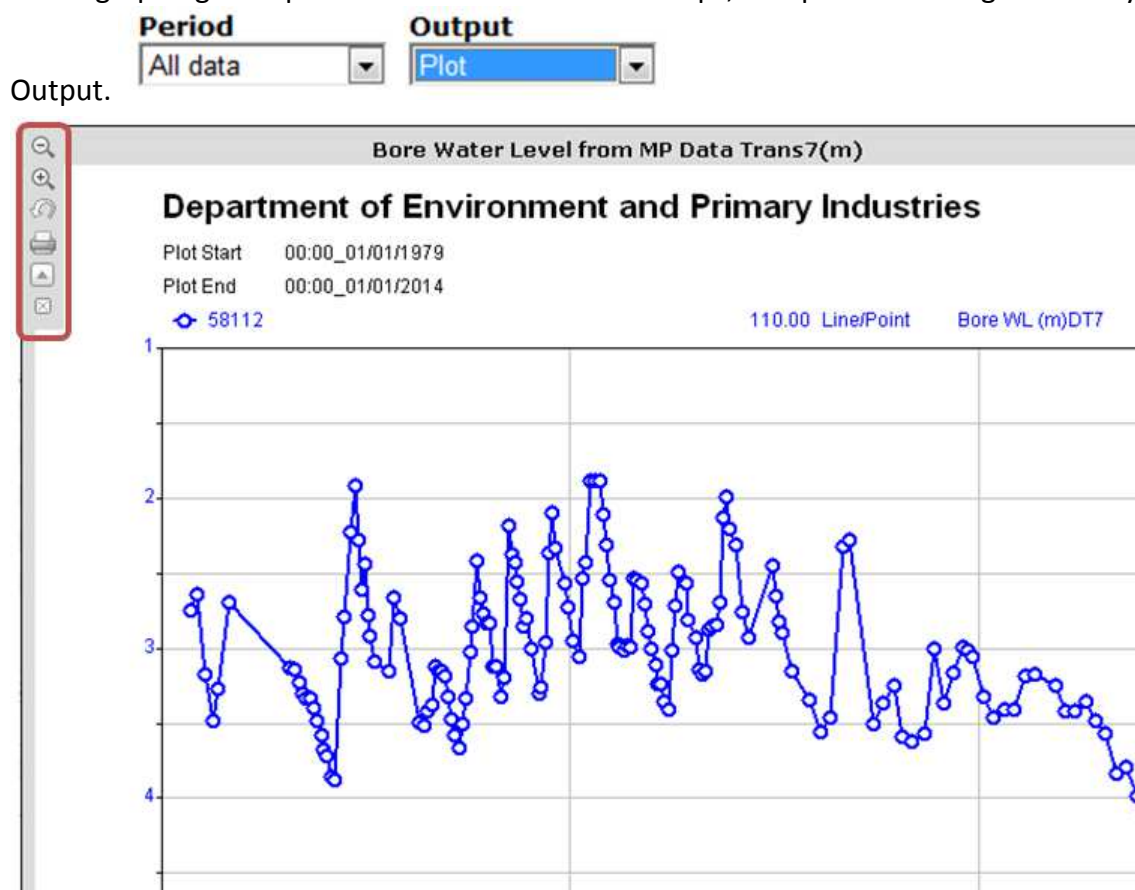
**Output**  
 Download

**Data Interval**  
 All points

Get Output

click here to download all points data zip file

9. When graphing bore parameters follow the same steps, except for selecting "Plot" as your



10. There are buttons located at the top left hand corner of the plot which will allow you to:

- |                               |                            |
|-------------------------------|----------------------------|
| a. Zoom Out                   | d. Print                   |
| b. Zoom In                    | e. Open Plot in New Window |
| c. Reset the Size of the plot | f. Close the Plot          |

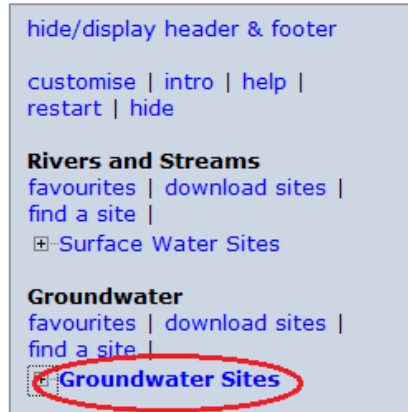
## 7.6 Upload groundwater data into WMIS

### Overview

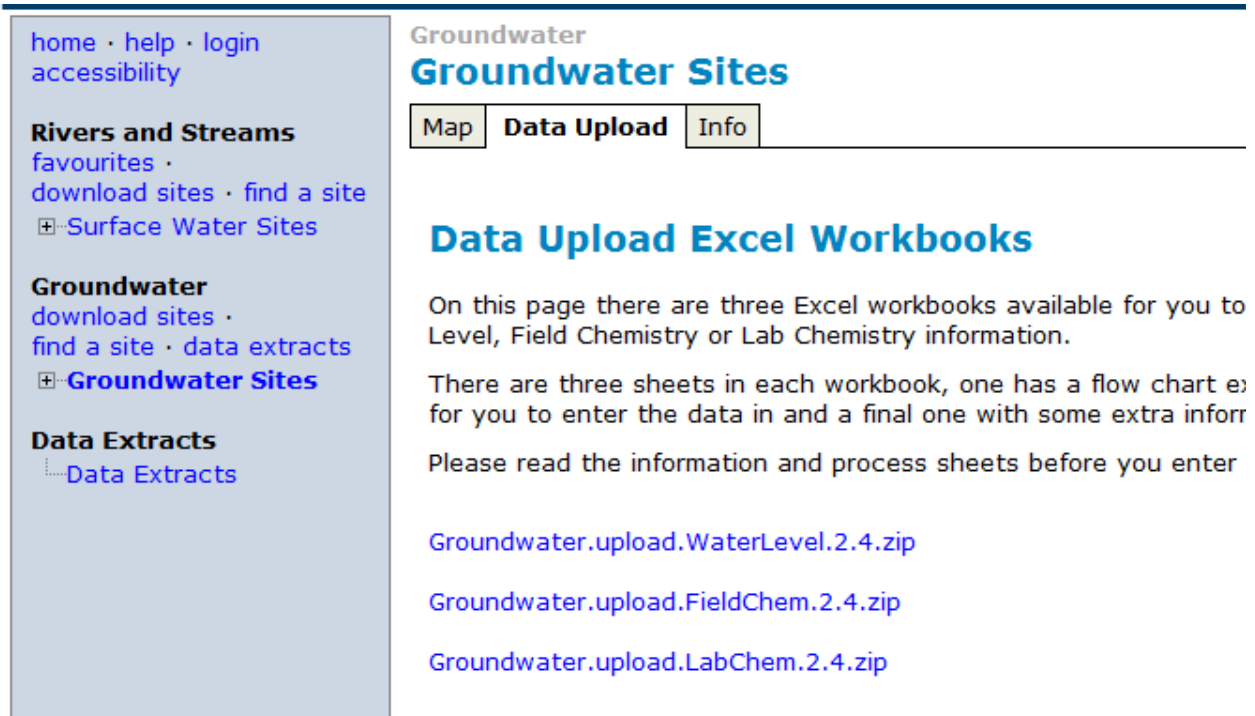
Users can send data into DEPI to be uploaded into WMIS. Template spreadsheets have been provided as the following guide explains. However, if you have big bulk uploads and would like to discuss different ways of uploading the data please contact DEPI on [water.data@dse.vic.gov.au](mailto:water.data@dse.vic.gov.au).

### Procedure

1. From the WMIS web portal select the “Groundwater Sites” menu:



2. Select the “Data Upload” tab, where you can download the three spreadsheet templates by selecting the zip link:

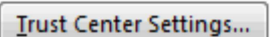


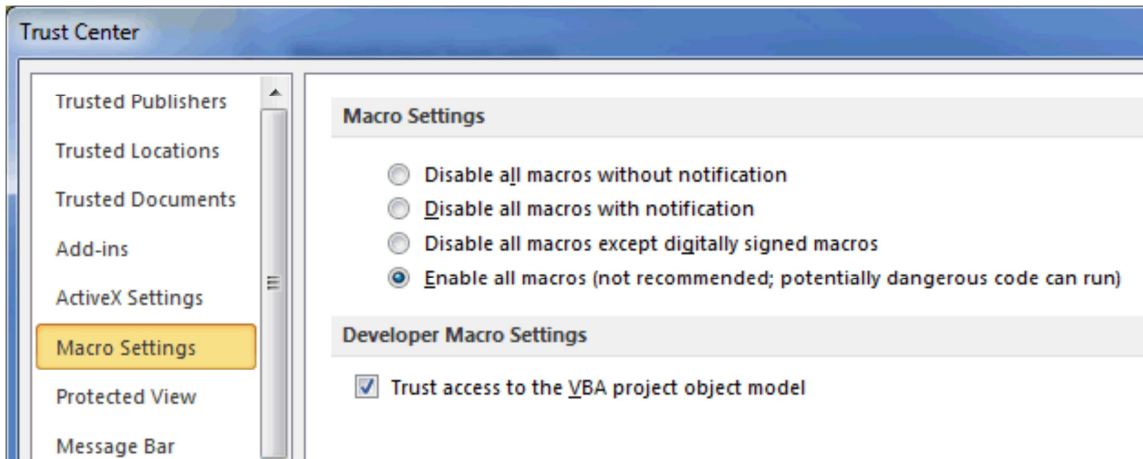
3. Open the relevant spreadsheet and save with a relevant name.
4. You may need to check that your Macros have been Enabled - either
  - a. on the Message Bar, click Enable Content



OR

- b. Go to File > Options > Trust Centre > "Trust Centre Setting..." button > Macro Settings > Select the "Enable all macros..." radio button





5. Enter your data into the Second tab, ending in \_UL. EG.

- a. WATER LEVEL\_UL
- b. FIELD CHEM\_UL
- c. LAB CHEM\_UL

**\*\* - Mandatory field**

6. Fill in all mandatory fields for each record/row

- a. Email
- b. Organisation
- c. Bore ID
- d. Date

7. If you would like to search for a lab parameter you can find the relevant code and parameter group in the last tab called "LOOK\_UP\_CODES".

8. When you have finished entering your data press the "Validate Data" button.

9. **Please note:** your bore ID will not be validated until it is entered into the system. If it does not exist in the system your data will not be imported.

10. Once finalised send your data to DEPI:

- a. [water.data@depi.vic.gov.au](mailto:water.data@depi.vic.gov.au)

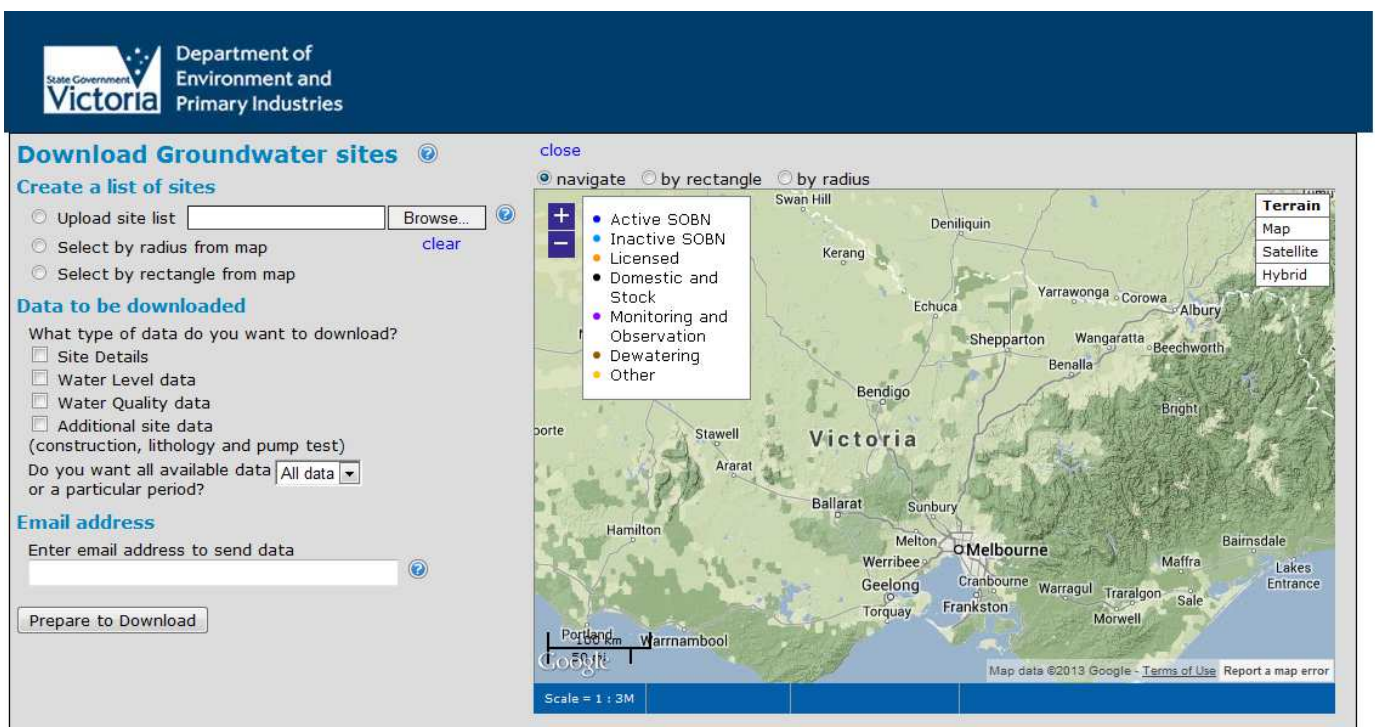
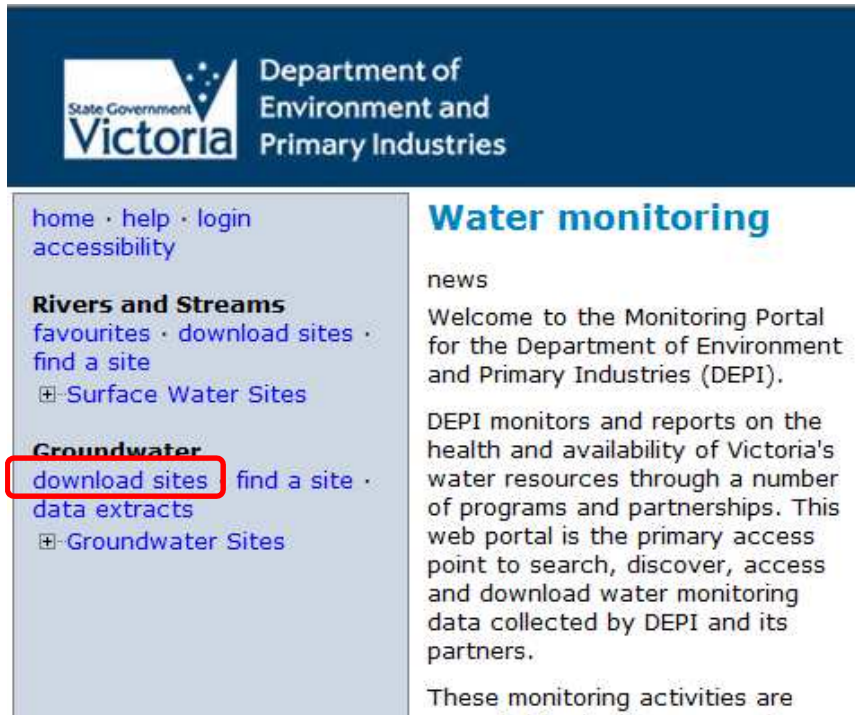
## 7.7 Download data for groups of sites

### Overview

Through the Download Sites user interface a user can select a group of sites and download data associated with the selected sites.

### Procedure

1. In the left hand navigation menu select the “download sites” hyperlink underneath the Groundwater heading to access the group selection and download interface.



2. The user interface provides three methods for selecting a list of sites:
  - a. uploading of a .csv or .txt file of sites. Select “Browse...” to navigate to your txt or csv file.





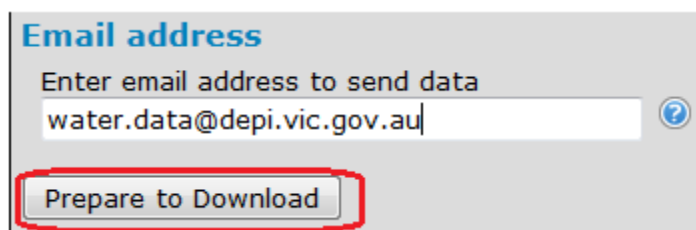
- b. selection of sites by defining a radius on the map.
  - ☐ Select by radius from map
- c. selection of sites by defining a rectangle on the map.
  - ☐ Select by rectangle from map

3. There are four different types of data to choose for download:

- a. ☐ Site Details
- b. ☐ Water Level data
- c. ☐ Water Quality data
- d. ☐ Additional site data  
(construction, lithology and pump test)

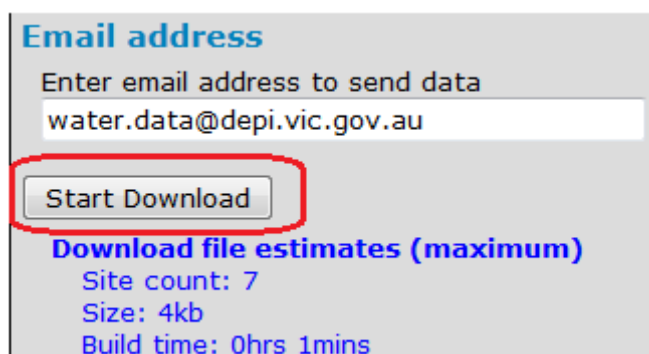
4. Users can then select the amount of data (“All data”) or a custom time period for the data (“Custom”)

5. Once the data has been selected the user must enter an email address into the space provided and select the “Prepare Download” button.

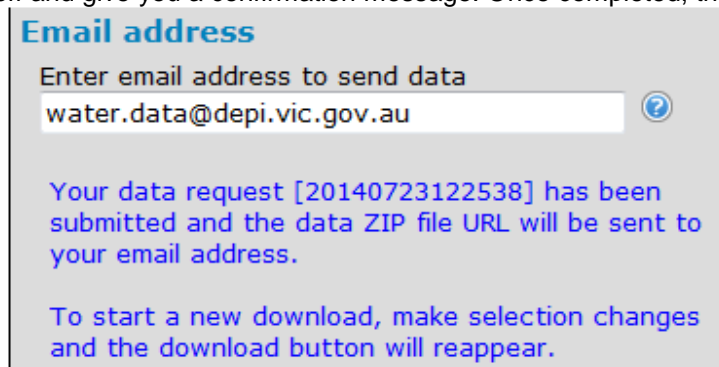


6. The user will be presented with a disclaimer that they must accept to continue with their download.

7. When the disclaimer has been accepted the interface will then give you a rough estimate of the time it will take to download the data and provide statistics for you to consider.



8. You can then start your download by selecting the “Start Download” button and it will send the request off and give you a confirmation message. Once completed, the data will be sent to your email address.



9. Keep your request number (eg. [20140723122538]) as a reference.

If you change any of your options in the list creation, type of data to download or the email address the system will recalculate your download statistics.

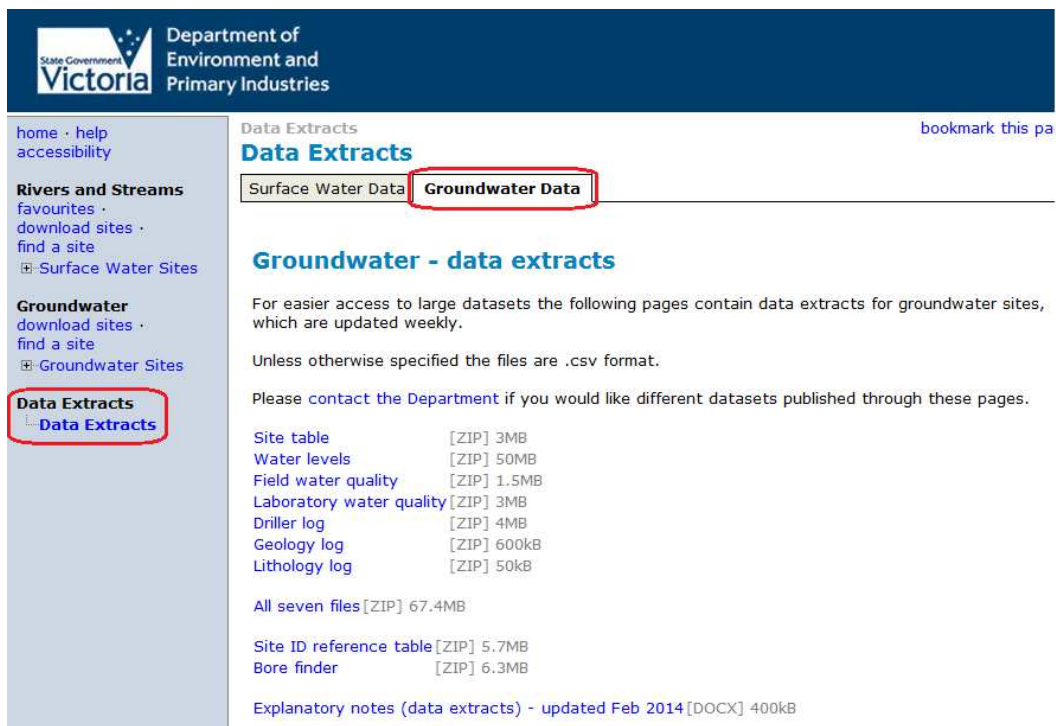
10. If at any time you wish to return to the home page you can select the “close” hyperlink located next to the “Download Groundwater sites” heading at the top of the interface.



**Please note:** system constraints require there to be a limit to the number of sites that can be downloaded through this function. If you need to access more data you can either split your list up to usable sizes (< 200 sites) or access the **Data Extracts** menu from the main page.

### 7.7.1 Pre-prepared Groundwater Data Extracts

11. From the Data Extracts heading on the navigation pane, go to the Groundwater Data tab



12. These links contain large csv datasets:

<a href="#">Site table</a>	[ZIP] 3.3MB
<a href="#">Water levels</a>	[ZIP] 52.1MB
<a href="#">Field water quality</a>	[ZIP] 382kB
<a href="#">Laboratory water quality</a>	[ZIP] 5.1MB
<a href="#">Driller log</a>	[ZIP] 4.4MB
<a href="#">Geology log</a>	[ZIP] 667kB
<a href="#">Lithology log</a>	[ZIP] 45kB

13. All seven files – this contains all seven dataset files as mentioned above:

[All seven files \[ZIP\] 67.4MB](#)

14. The Site ID reference table is a list of all the Current bore IDs in WMIS and associated alias IDs

[Site ID reference table](#) [ZIP] 5.7MB

15. The Bore finder is a spreadsheet with a customised search box to assist users in finding a bore ID. Having difficulty finding a bore ID? See **Section 5.0 above** on how to use **Bore Finder**.

[Bore finder](#) [ZIP] 6.3MB

16. The Explanatory notes provides greater detail on the prepared outputs.

[Explanatory notes \(data extracts\)](#) [DOC] 300kB

17. Click on any of these files to Save or Open in Excel.



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