

## Fact Sheet: The AGL Water Portal.

AGL Gloucester Gas Project  
January 2015

### A new way to monitor water resources.

AGL is producing and exploring for natural gas from coal seams in Gloucester, the Hunter Valley, and the Camden area south-west of Sydney, and maintains a network of around 100 water monitoring points across our project areas to ensure that local water resources are protected. While we routinely publish data from our water monitoring programs, we have recently launched a new water portal.

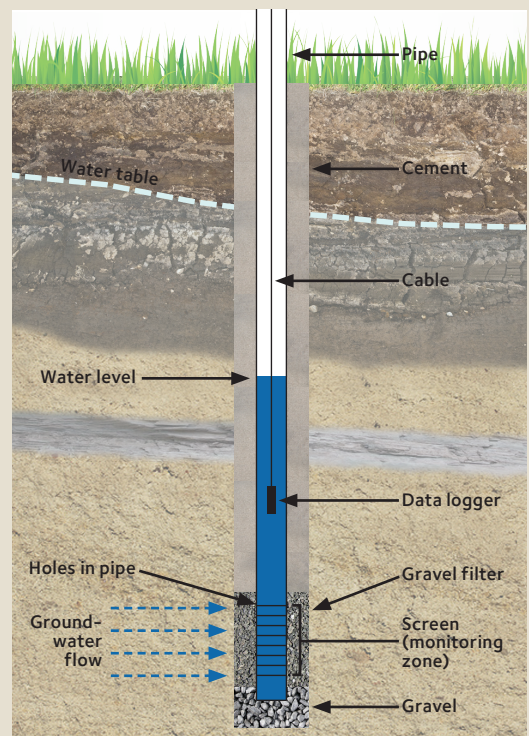
The AGL Water Portal is designed to be a one-stop shop for information from water monitoring points across our project areas. Depending on the type of monitoring point, you can check water level and/or electrical conductivity (a key measure of salinity) as well as recent water quality information. Many of our monitoring bores have live data which is updated daily on the water portal.

### How it works.

The water portal works by compiling data from our water monitoring sites which are collected, depending on the site and type of data, by our hydrogeologists and technicians in the field or transmitted regularly from automatic monitoring devices to a central server via 3G technology.

The Gloucester and Hunter areas also have information from AGL's weather stations, which provides an added layer of information for users.

Parsons Brinckerhoff water technicians collecting groundwater samples at Gloucester.



### How a monitoring bore works.

Similar to a drinking straw, a monitoring bore lets us find out what is happening with groundwater. We drill a hole into the ground and install a sealed pipe that has tiny holes at the bottom to let groundwater enter the pipe. The groundwater rises up the pipe to a water level that reflects the water pressure in that aquifer where the bore is installed.

We often put several monitoring bores next to each other, installed to various depths, to monitor groundwater in different aquifers or groundwater systems. We can then measure the water level and water quality in each of the bores to see how they relate to each other and how they change over time.



## How to use it.

The water portal is designed to be easy to use and makes use of familiar Google Maps technology.

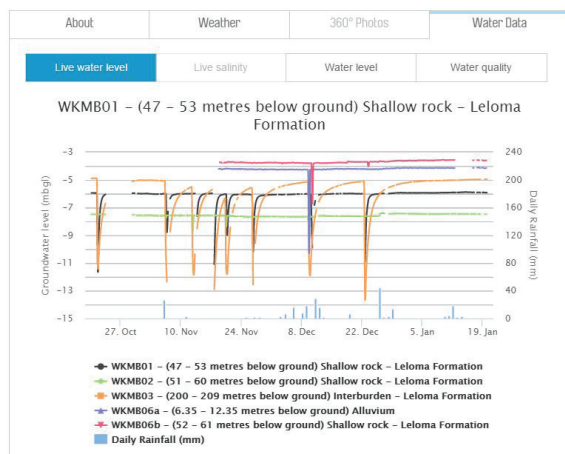
Visitors to the home page, [www.agl.com.au/waterportal](http://www.agl.com.au/waterportal), will see a map which will allow them to click on any of our NSW project areas, either by clicking on it or using the “change location” feature above the map.

From there, users can click on water monitoring sites and, where available, weather stations and 360°-degree photos which show areas around our monitoring sites. A legend at the bottom of the map describes which sites are which, and whether they provide near-real time “live” monitoring, as well as showing the boundaries of our exploration licences and production leases.

Clicking on a monitoring point gives information about what information is available, and clicking the “View Data” button opens up the available measurements, as well as, in the case of live sites, measurements from available nearby monitoring sites for comparison purposes.

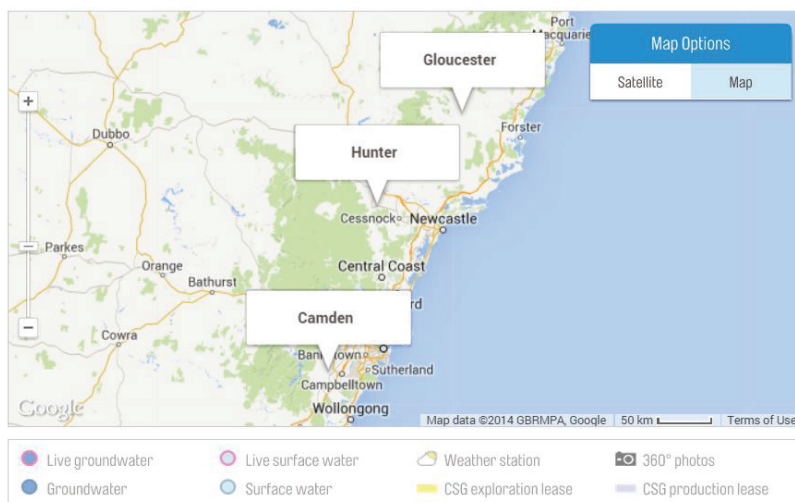
## What it tells us.

The water portal contains a number of features which make it unique, including the frequency of updates (daily for the “live” water monitoring sites, hourly for weather stations) as well as water chemistry data, including information on major ions such as calcium, magnesium, chloride and dissolved metals. This data can assist users to monitor water level and quality and see how it changes over time.



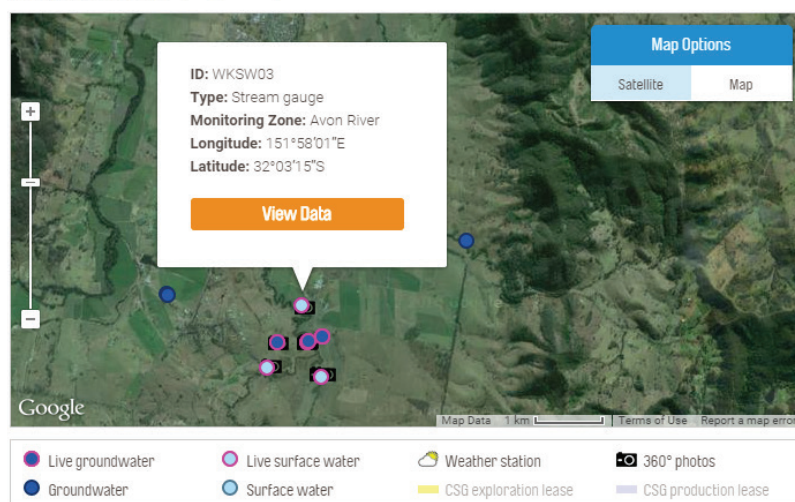
Choose a Location | [\(change location\)](#)

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Location | Gloucester | [\(change location\)](#)

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Water monitoring site at AGL's Waukivory Pilot Program.



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