
Marine Estate Management Strategy

Ensuring sustainable fishing and aquaculture



NSW FarmDecisionTECH

Estuary Reports

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DPIRD Climate & Natural Resources

May 2026

marine.nsw.gov.au



The NSW Marine Estate Management Strategy acknowledges the Traditional Owners and Custodians of the land on which we live and work, and pays respect to Elders past, present and emerging.

Aboriginal people hold deep cultural and spiritual connections to the sea. They have cared for Sea Country for thousands of years, passing on their knowledge and tradition to each new generation. We seek to work collaboratively with Aboriginal people to maintain their social, cultural, economic and spiritual connections to the marine estate, now and into

NSW Marine Estate Management Strategy

Sustainable fishing and aquaculture

Strategy background



The **FarmDecisionTECH Estuary Reports** portal is funded by the **NSW Government's Marine Estate Management Strategy (MEMS)**

The **MEMS Strategy** provides a long-term framework for conserving, protecting and enhancing the estuaries, coastline and waters that make up the NSW marine estate.

The strategy is delivered by a range of NSW Government Agencies through nine management Initiatives - including the **SUSTAINABLE FISHING & AQUACULTURE INITIATIVE** - to improve the ecological sustainability and economic viability of fishing and seafood harvesting and production in the marine estate.

NSW FarmDecisionTECH

Estuary Reports

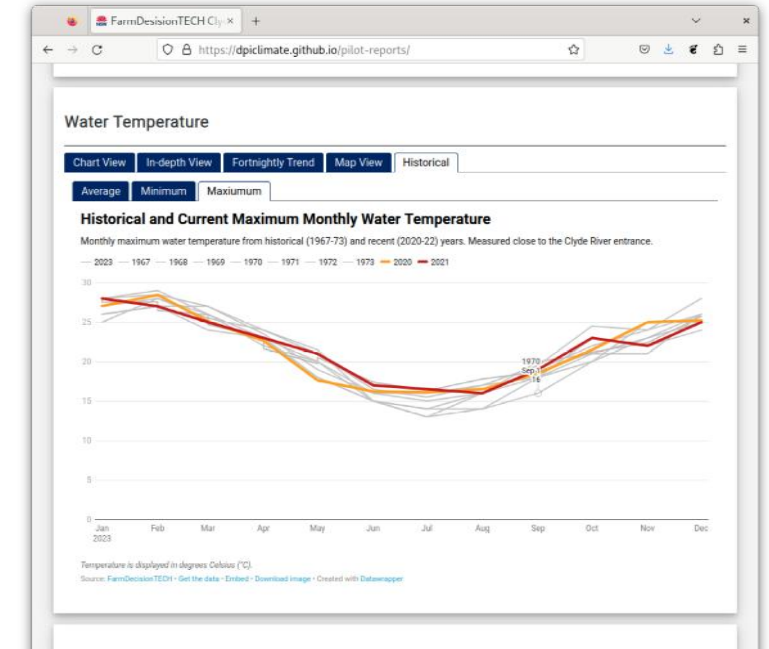
A step-by-step guide : How to access and use the data portal

The first release of the data portal in 2022 was developed with the oyster growers on the Clyde River.

It showed a range of data, highlighting current conditions, recent trends, and comparing data going back to 1970's.

The Estuary Report was a website and a weekly PDF report that could be downloaded from the site.

It was later extended to Port Stephens, Wallis Lake and Manning River.

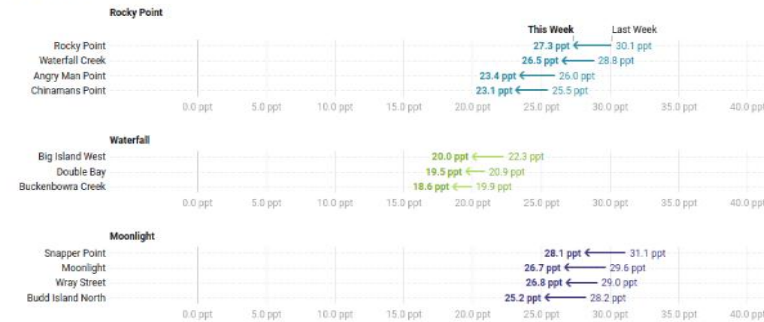


Salinity

Chart View In-depth View Fortnightly Trend Map View

Fortnightly Average Salinity Trend

Comparison between this weeks average salinity and the average salinity last week. Left pointing arrow means salinity is decreasing, right pointing means salinity is increasing.



Units represent parts per thousand (ppt). This is equivalent to both g/kg and g/L.
Source: FarmDecisionTECH - Get the data - Embed - Download image - Created with Datawrapper

What is the 'new'

NSW FarmDecisionTECH
Estuary Reports


- 14 estuaries
- current water conditions
- Harvest status
- historical data

Please note:


This is still being developed,
so there are some things that
are not working perfectly.

The final will be released in
the next few weeks.

A NSW Government website




FarmDecisionTECH™



Big Island West

Waterfall · Clyde River



Leaflet | © OpenStreetMap contributors

Latest water metrics

Big Island West

Last seen: 7 minutes ago

Water Temperature		Water Salinity	
Min (24h)	23.3 °C	Min (24h)	17.5 ppt
Max (24h)	24.7 °C	Max (24h)	23.1 ppt
	24.0 °C ↑		20.8 ppt ↓

Food Authority – Closed
Last updated: 7 days 1 hour ago

Next tides:
High: 8:20 pm 1.29 m

Accessing the
FarmDecisionTECH
Estuary Reports

Use your phone to capture
this image and go to the data
portal.



Accessing the FarmDecisionTECH Estuary Reports



The front page tells you a little
about the site.

You'll only see this the first
time you visit
(or if there have been
significant updates).

Click 'Continue' to enter the
site.

Please read the notice at the
bottom of every page (it is
the same).


A NSW Government website

 **FarmDecisionTECH™**
Estuary Reports 

NSW Estuary Reports

This dashboard provides access to real-time and historical data from sensors in NSW estuaries. The data is not actively viewed, and accordingly, DPIRD does not certify the accuracy of the data and information or warrant that it is free from error or omission. The data is provided for general information only and any reliance placed on the data or information shall be at the sole risk of the user.

This dashboard was funded by the NSW Government under the Marine Estate Management Strategy. The ten-year Strategy was developed by the NSW Marine Estate Management Authority to coordinate the management of the marine estate.



This data system has been built by the [NSW DPIRD Climate Digital Engineering](#) team.

[Continue](#)



This data system has been built by the [NSW DPIRD Climate Digital Engineering](#) team.

[Continue](#)

This water quality dashboard contains live data and information that is not actively reviewed. Accordingly, DPIRD does not certify the accuracy of the data and information or warrant that it is free from error or omission. The data and information is provided for general information purposes only and should not be construed as professional, specialist or technical advice. Any reliance placed on the data and information shall be at the sole risk of the user and the accuracy of the data and information should be verified prior to using it.

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At the bottom of every page.
Please read.

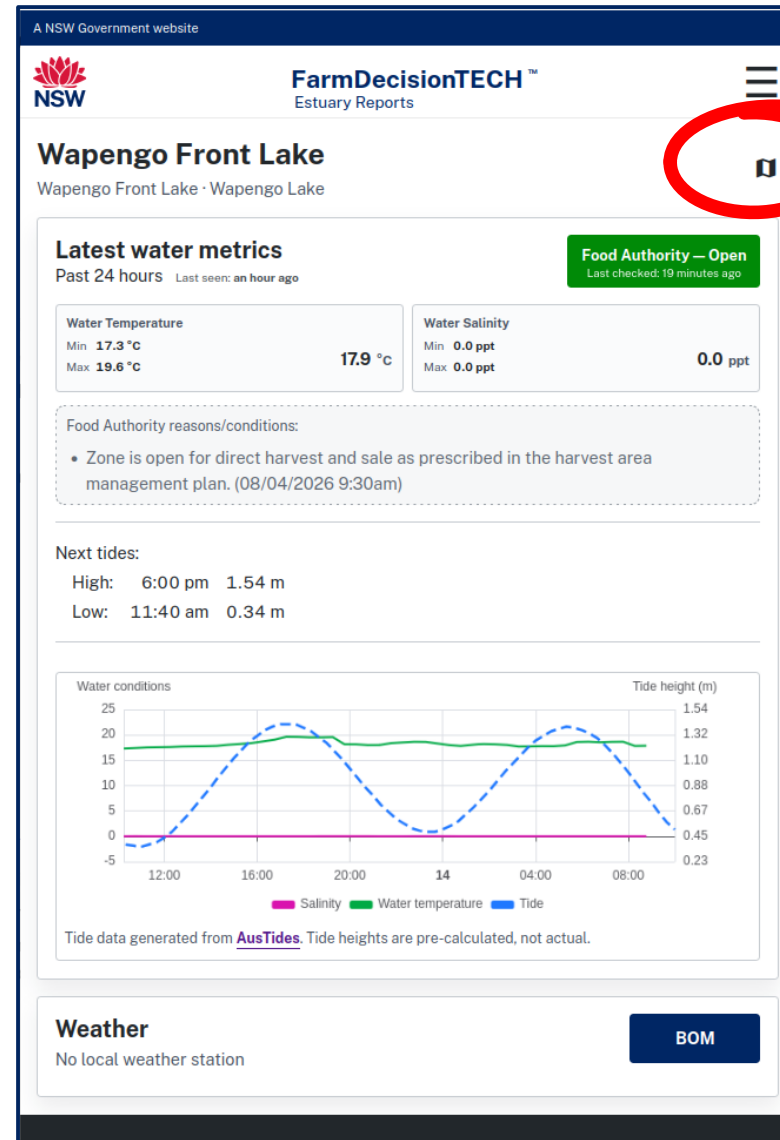
Current Water Conditions

This is the first page where you'll see data.

Next time you visit you'll return to where you left off.

We'll go through each part of this over the next few slides.

Firstly, if you click on the little map icon it will open a map view. Click again to close it.



A NSW Government website

NSW FarmDecisionTECH™ Estuary Reports

Wapengo Front Lake

Wapengo Front Lake · Wapengo Lake

Latest water metrics
Past 24 hours Last seen: an hour ago Food Authority — Open
Last checked: 19 minutes ago

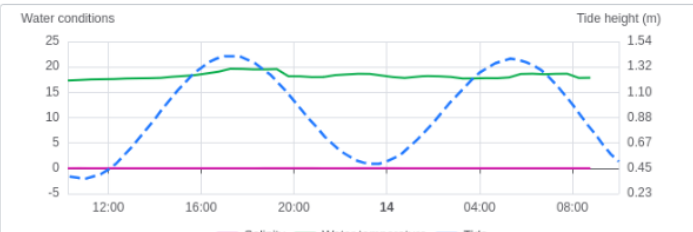
Water Temperature	Water Salinity
Min 17.3 °C Max 19.6 °C 17.9 °C	Min 0.0 ppt Max 0.0 ppt 0.0 ppt

Food Authority reasons/conditions:

- Zone is open for direct harvest and sale as prescribed in the harvest area management plan. (08/04/2026 9:30am)

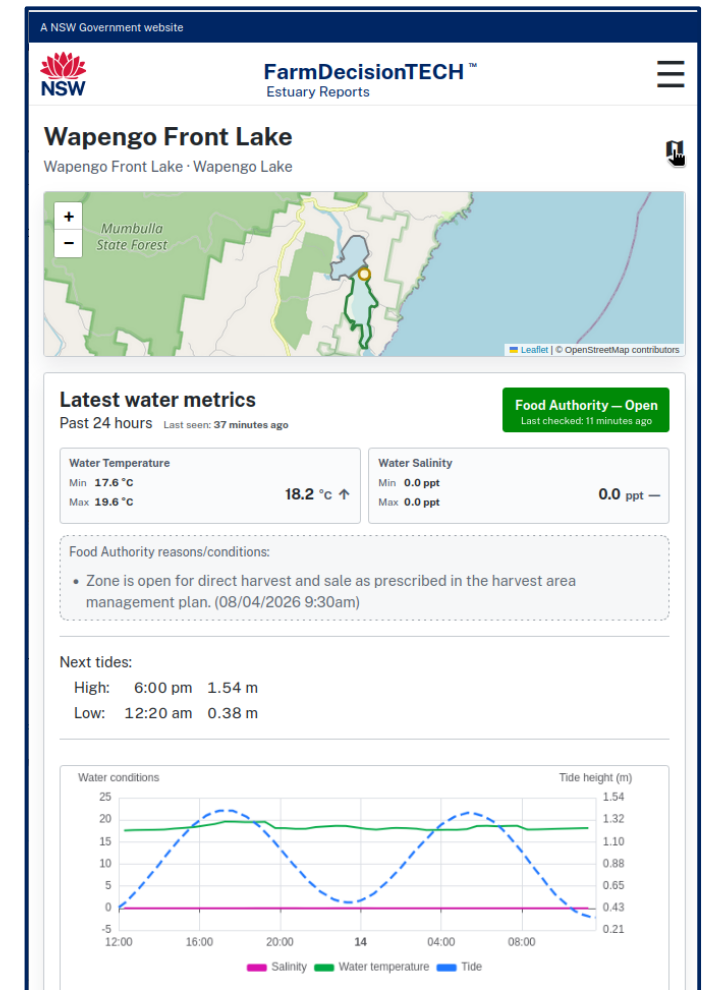
Next tides:
High: 6:00 pm 1.54 m
Low: 11:40 am 0.34 m

Water conditions



Tide data generated from [AusTides](#). Tide heights are pre-calculated, not actual.

Weather BOM
No local weather station

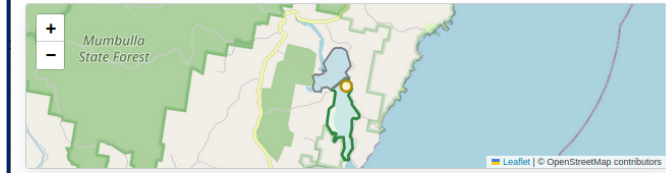


A NSW Government website

NSW FarmDecisionTECH™ Estuary Reports

Wapengo Front Lake

Wapengo Front Lake · Wapengo Lake



Latest water metrics
Past 24 hours Last seen: 37 minutes ago Food Authority — Open
Last checked: 11 minutes ago

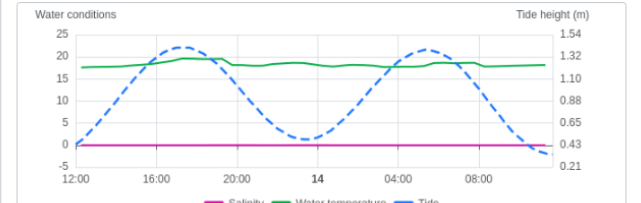
Water Temperature	Water Salinity
Min 17.6 °C Max 19.6 °C 18.2 °C ↑	Min 0.0 ppt Max 0.0 ppt 0.0 ppt —

Food Authority reasons/conditions:

- Zone is open for direct harvest and sale as prescribed in the harvest area management plan. (08/04/2026 9:30am)

Next tides:
High: 6:00 pm 1.54 m
Low: 12:20 am 0.38 m

Water conditions



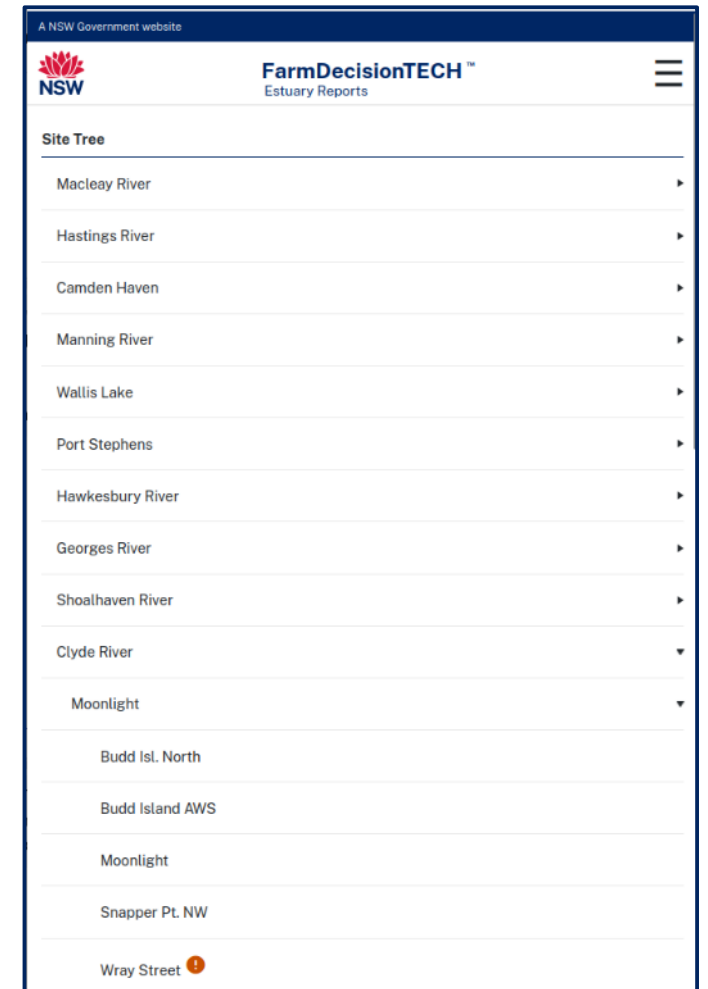
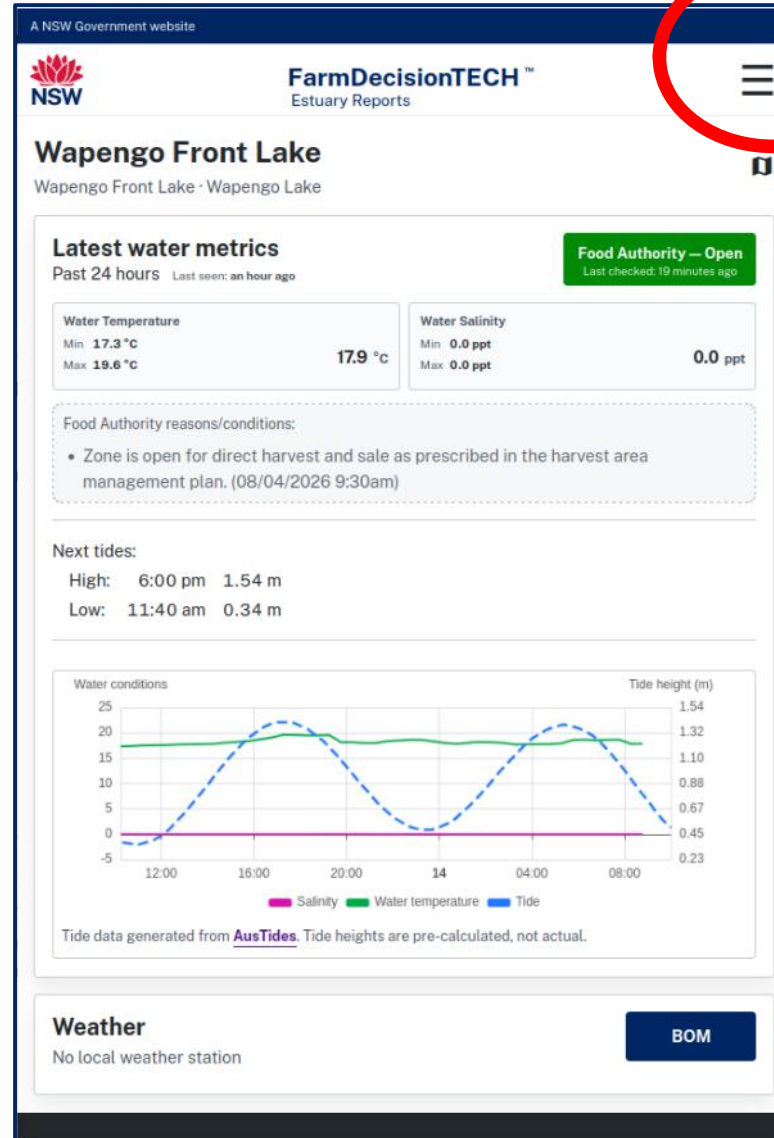
Tide data generated from [AusTides](#). Tide heights are pre-calculated, not actual.

Select your estuary

Click on the hamburger menu
(three bars)

Find your estuary

Click on the sensor location.

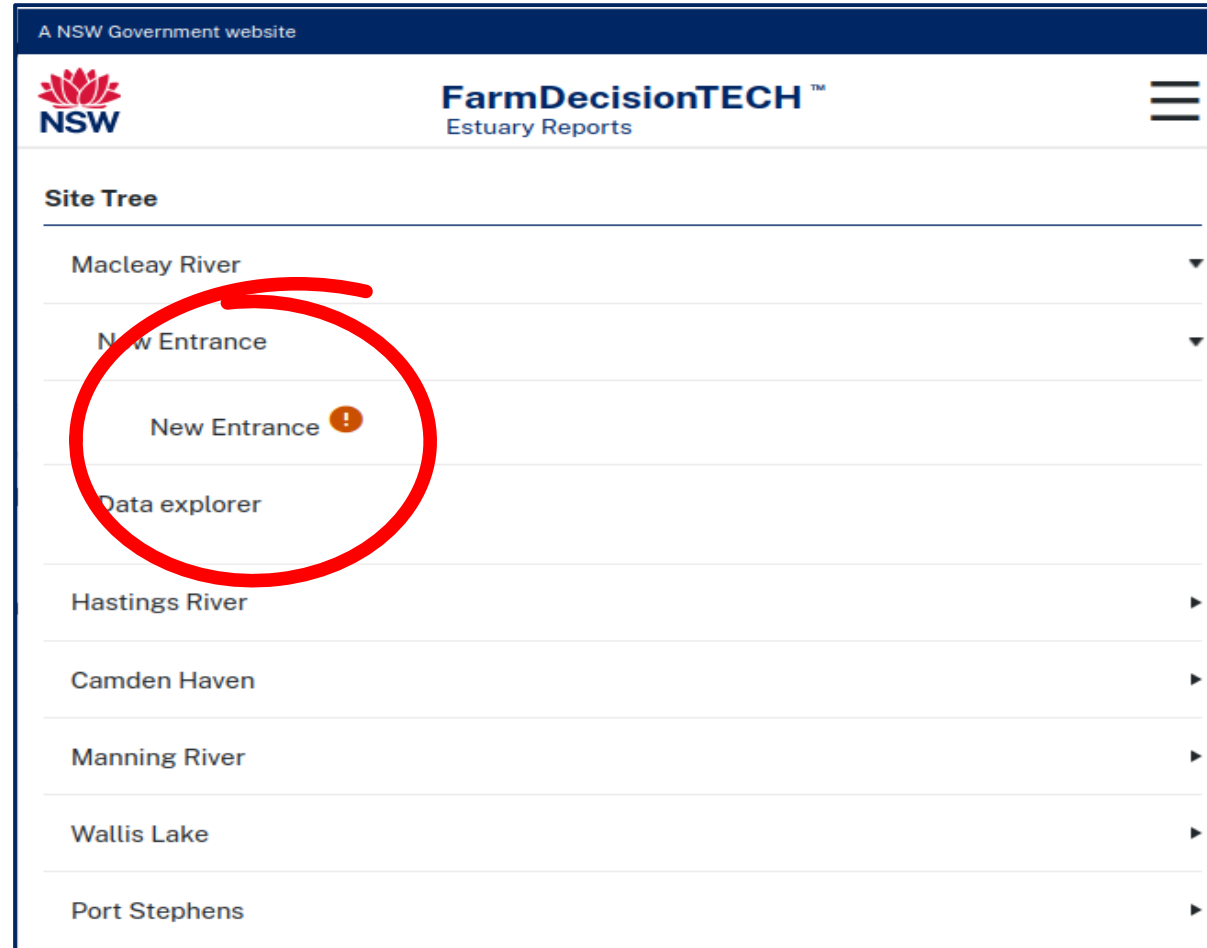


Some sites have a warning.

There are some quality issues
or missing data on these
sensors.

Use with caution.

We are working on repairing
or replacing these, and will
advise the industry when
completed.



A screenshot of the FarmDecisionTECH Estuary Reports website. The page header includes the NSW Government logo and the text 'A NSW Government website' and 'FarmDecisionTECH™ Estuary Reports'. The main content area is titled 'Site Tree' and lists several estuary sites: Macleay River, New Entrance, New Entrance (with a warning icon), Data explorer, Hastings River, Camden Haven, Manning River, Wallis Lake, and Port Stephens. A red circle highlights the 'New Entrance' entry with the warning icon.

Current Water Conditions

Food Authority Harvest Status

More details in the box below.

Or click the FA button to go to the Food Authority page.

On your phone, click the back button to return to the water conditions page.

A NSW Government website

FarmDecisionTECH™
Estuary Reports

Wapengo Front Lake

Wapengo Front Lake · Wapengo Lake

Latest water metrics
Past 24 hours Last seen: an hour ago

Water Temperature
Min 17.3 °C
Max 19.6 °C
17.9 °C

Water Salinity
Min 0.0 ppt
Max 0.0 ppt
0.0 ppt

Food Authority — Open
Last checked: 19 minutes ago

Food Authority reasons/conditions:

- Zone is open for direct harvest and sale as prescribed in the harvest area management plan. (08/04/2026 9:30am)

Next tides:
High: 6:00 pm 1.54 m
Low: 11:40 am 0.34 m

Water conditions

Tide data generated from AusTides. Tide heights are pre-calculated, not actual.

Weather
No local weather station

BOM

NSW Food Authority

Harvest area status

The information below was last updated on 14 May 2026-10:42am

Before harvesting shellfish for human consumption, farmers should confirm the status of the relevant harvest area, NSW Shellfish Program harvest areas can be viewed in the [Fisheries NSW Spatial Data Portal](#)

The harvest area status list may not always reflect the most recent closures or opening restrictions. It is not intended to be legally binding. Events leading to harvest area closures have an unpredictable nature and may occur at any time. System outages may also delay updates to the harvest area status list.

Subject to the above qualifications, the Food Authority regularly updates the current status of harvest areas. The date and time of the most recent update appears above.

Search by any keyword

Wapengo Lake SP / Wapengo Lake		
Wapengo Back Lake	Reference: 21954	
Conditionally Approved	Open	14/04/2026-10:00am
Reasons/Conditions:		
		• Zone is open for direct harvest and sale as prescribed in the harvest area management plan. (14/04/2026 10:00am)
Wapengo Lake SP / Wapengo Lake		
Wapengo Front Lake	Reference: 21946	

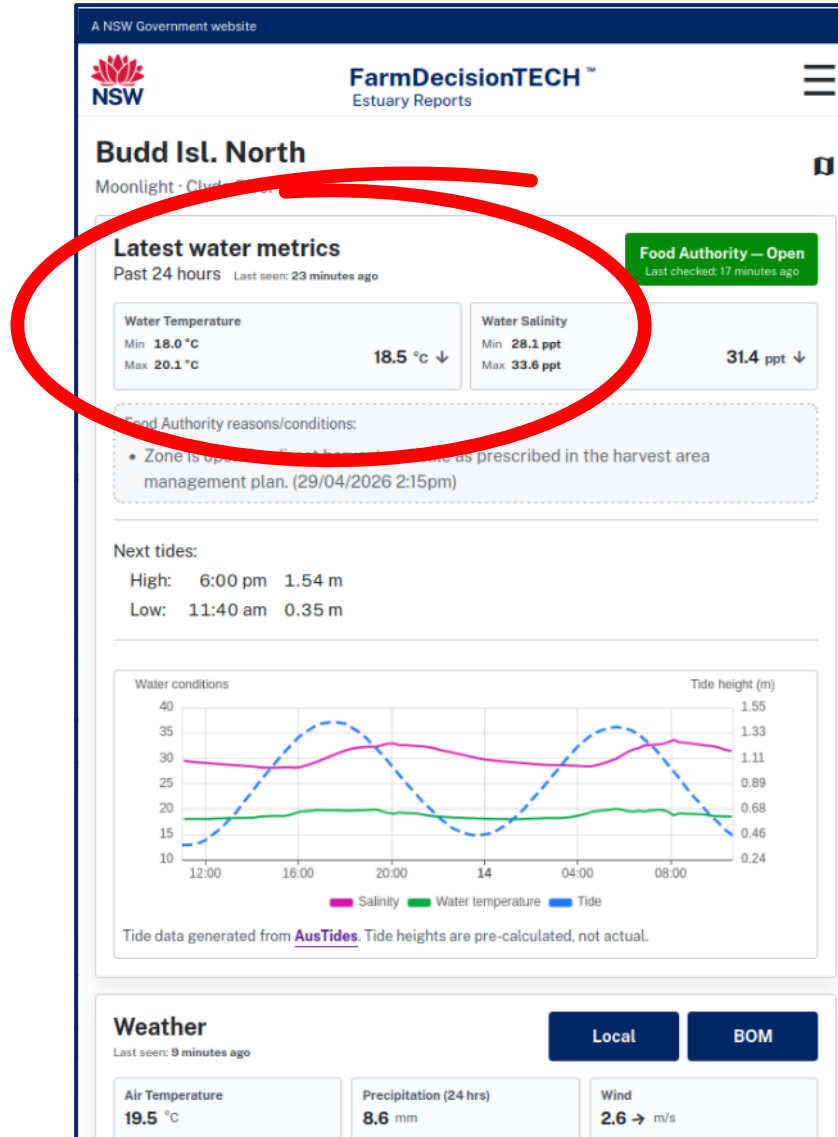
Latest water metrics Past 24 hours

Water temperature

- current = 18.5°C
- trend
- Min over past 24 hours
- Max over past 24 hours

Water salinity

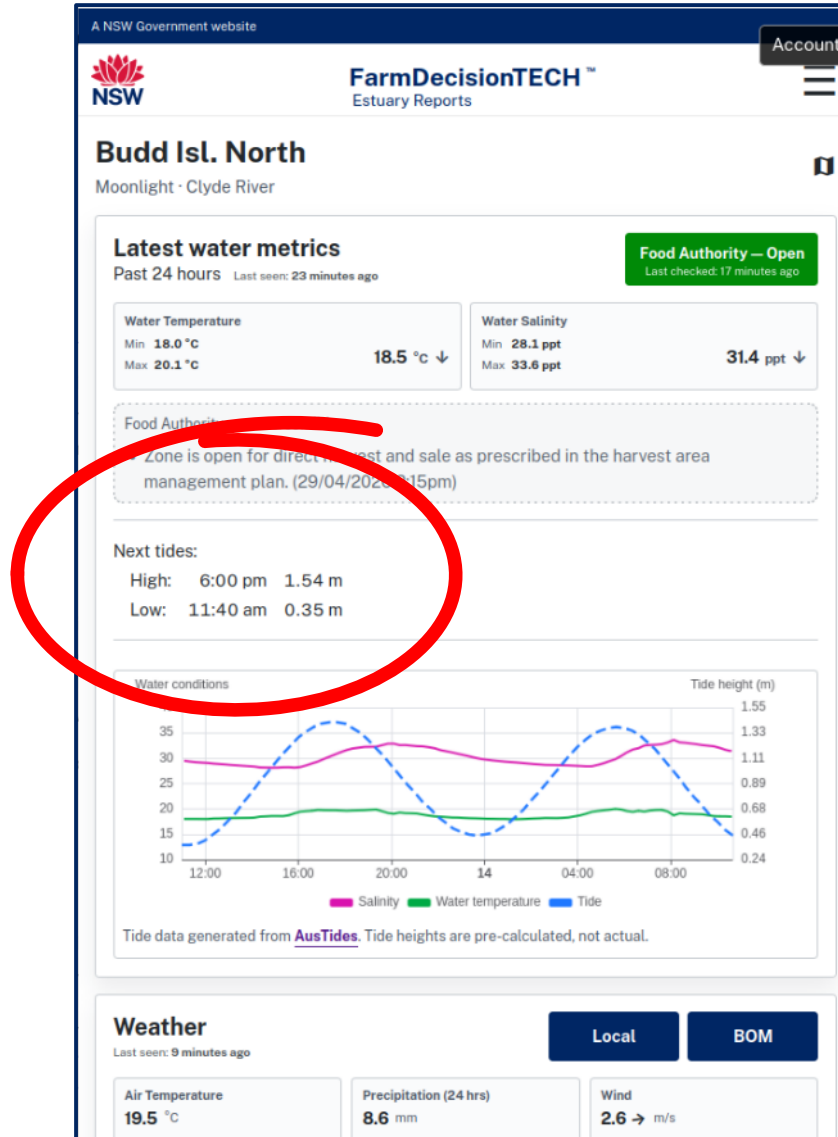
- 31.4 ppt
- trend
- Min
- Max



Moving down the page, the next box shows the two next tides.

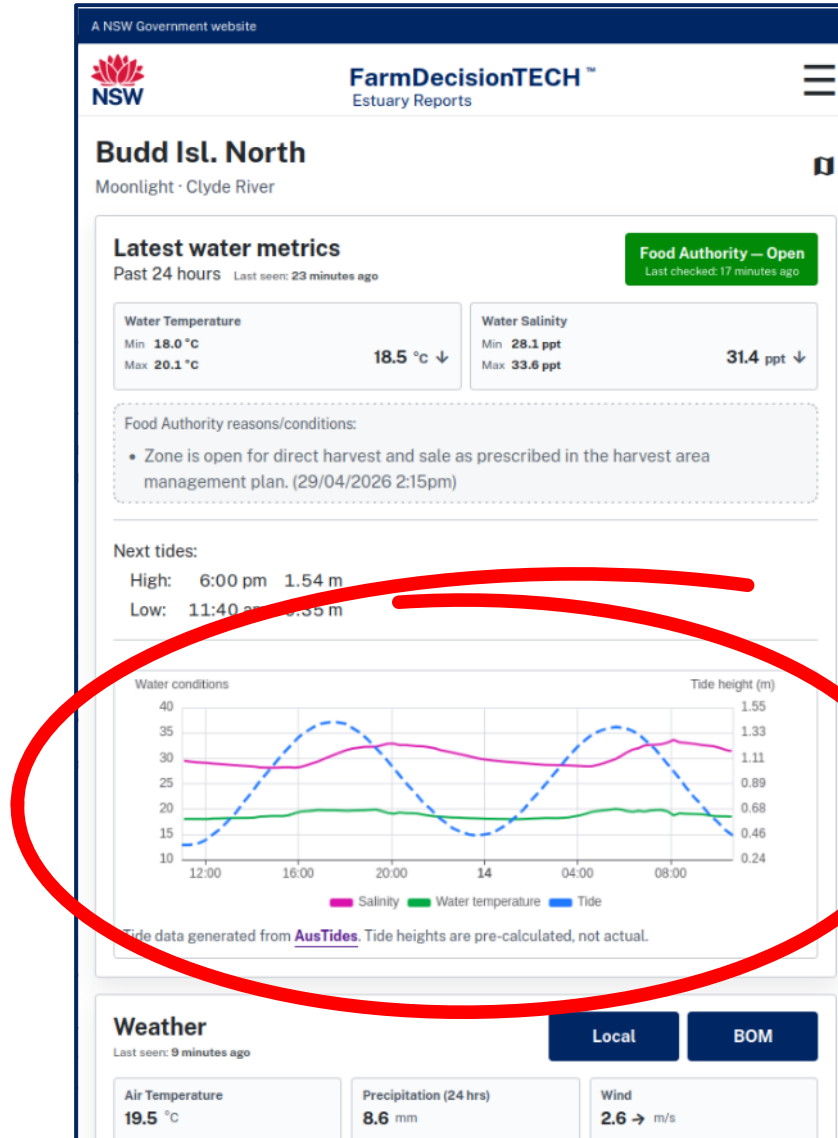
We're working on adding the location for the tide calculations.

Be aware this is the calculated or forecast tide, so the actual may vary.



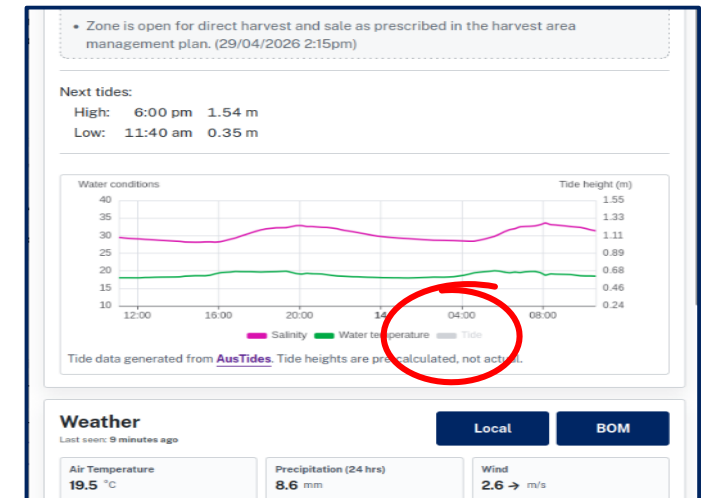
24 hour graph, showing available data.

- Tides (again, calculation)
- Salinity
- Water temperature



You can turn off the data in the graph by clicking on the legend item.

In the example below, if you click on “Tide” that data is removed. Click again to put it back.



Marine Estate Management Strategy

Ensuring sustainable fishing and aquaculture

Atmospheric conditions

- Air temperature
- Precipitation (24 hours)
- Wind speed & Direction

The data is local where there is a local weather station.

If no local station available, it is from the BoM.

Click through for more data if available.

And there's that disclaimer again!

Max 20.1 °C Max 33.6 ppt

Food Authority reasons/conditions:

- Zone is open for direct harvest and sale as prescribed in the harvest area management plan. (29/04/2026 2:15pm)

Next tides:

High: 6:00 pm 1.54 m
Low: 11:40 am 0.35 m

Water conditions

Tide height (m)

40 35 30 25 20 15 10

1.55 1.33 1.11 0.89 0.68 0.46 0.24

12:00 16:00 20:00 14 04:00 08:00

Salinity Water temperature Tide

Tide data generated from AusTides. Tide heights are pre-calculated, not actual.

Weather

Last seen: 9 minutes ago

Air Temperature 19.6 °C Precipitation (24 hrs) 8.3 mm Wind 3.8 m/s

Local BOM

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NSW FarmDecisionTECH™ Estuary Reports

Budd Island AWS

Moonlight - Clyde River

Weather

Last seen: 9 minutes ago

Air Temperature 19.6 °C Precipitation (24 hrs) 8.3 mm Wind 3.8 m/s

Recent weather charts

These charts display the past 7 days for this device.

Air Temperature

°C

24.00 21.00 18.00 15.00 12.00 9.00 7.00

8 9 10

Precipitation

mm

1.80 1.50 1.20 0.90 0.60 0.30 0.00

8 9 10

We use cookies on our site - see our [privacy policy](#) for details

Ok

The Bureau

South Coast

Batemans Bay

No warnings for this location

Today Days ahead Past

18.1°

Feels like 17.2°

21° 10°

Max Overnight min

0-4mm

Rain

Shower or two.

Rain radar and weather map

Show more about today

Hourly forecast

[Text only table](#)

Temperature and rain Wind Humidity, UV and cloud Show all

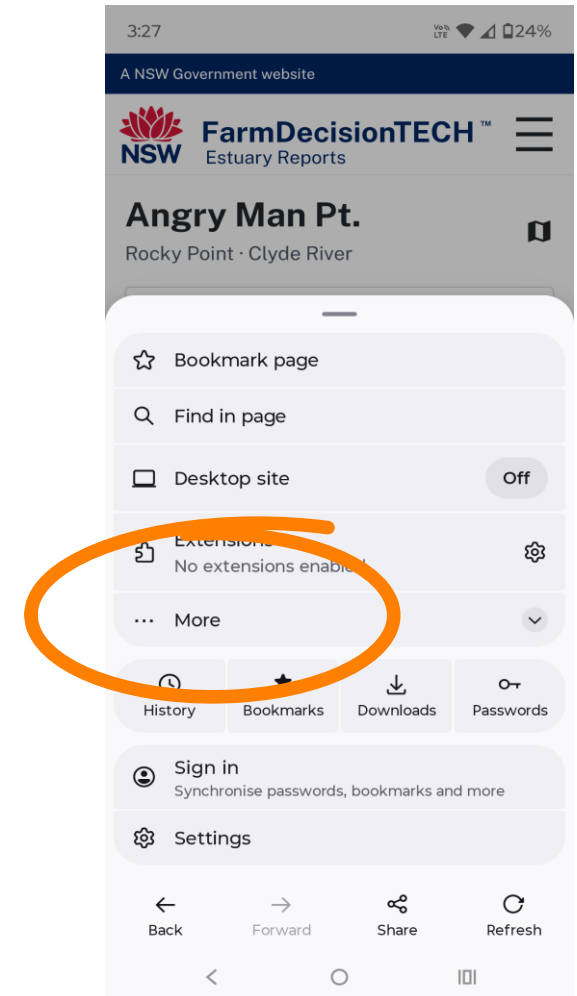
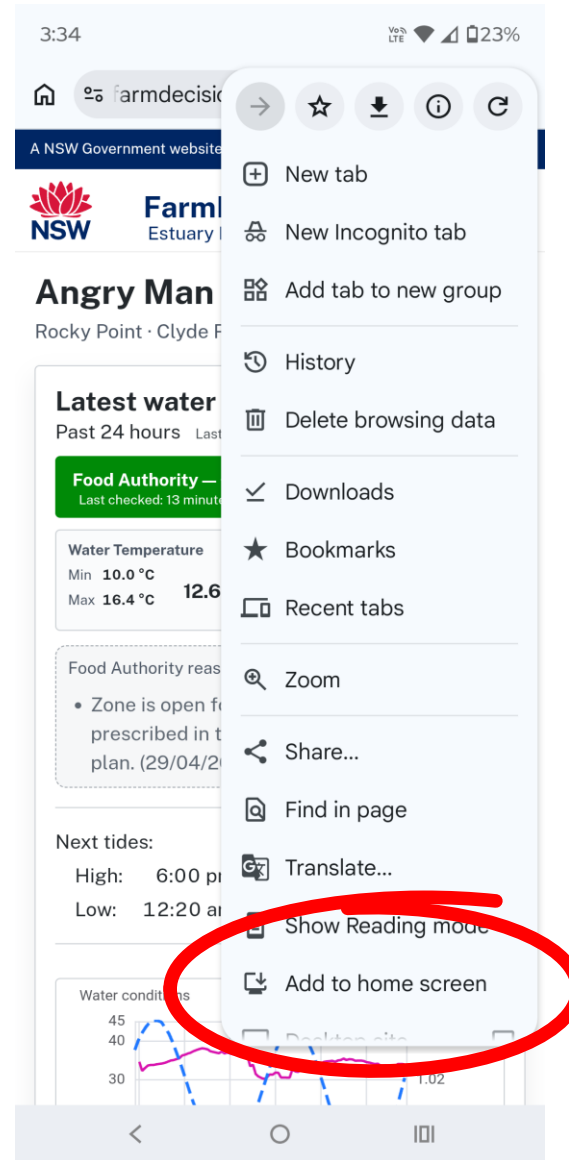


Now, if this all looks good you can go ahead and add it to your phone as an icon.

On the page you need to go into the '3 dots' menu where you should find an option to

"Add to home screen."

In some browsers, you may have to click on 'More' to find the option.



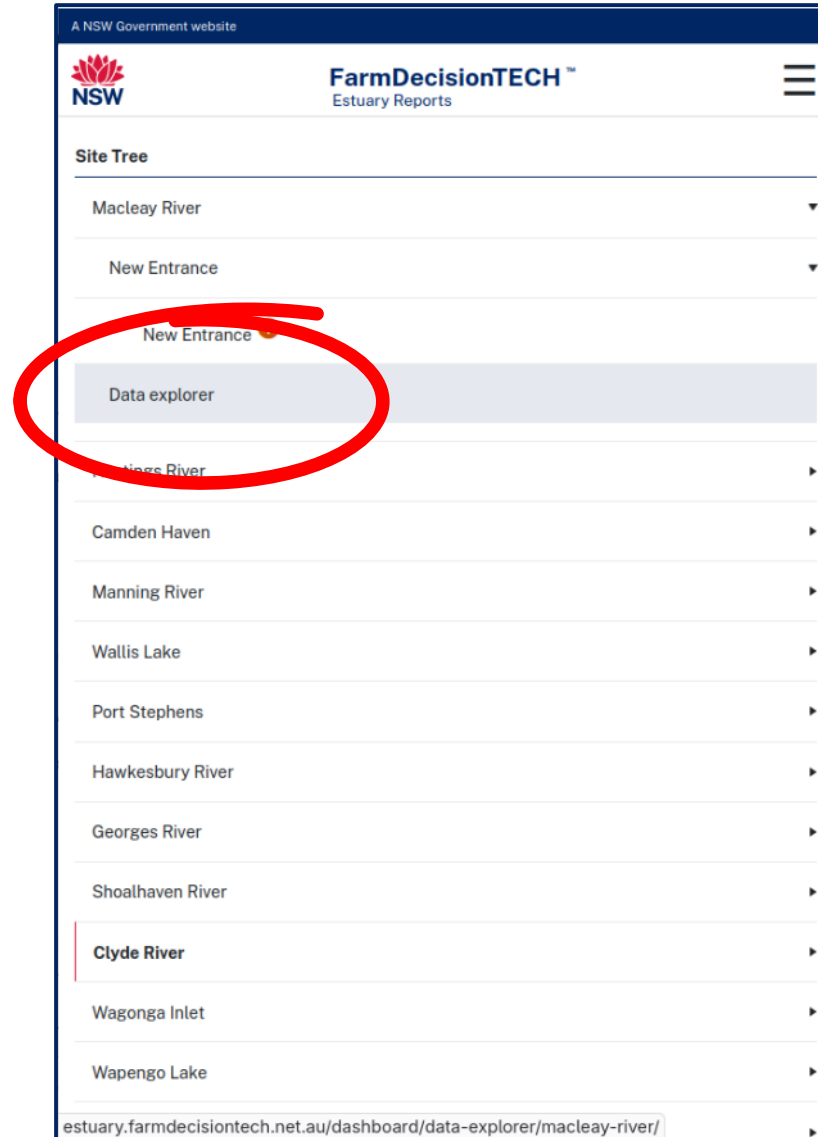
For longer term data you'll want to use the Data Explorer.

For each estuary you'll see "Data Explorer" in the site menu.

This gives you a chance to look at longer term data, or all sites at one location.

There's also other data such as water inflows.

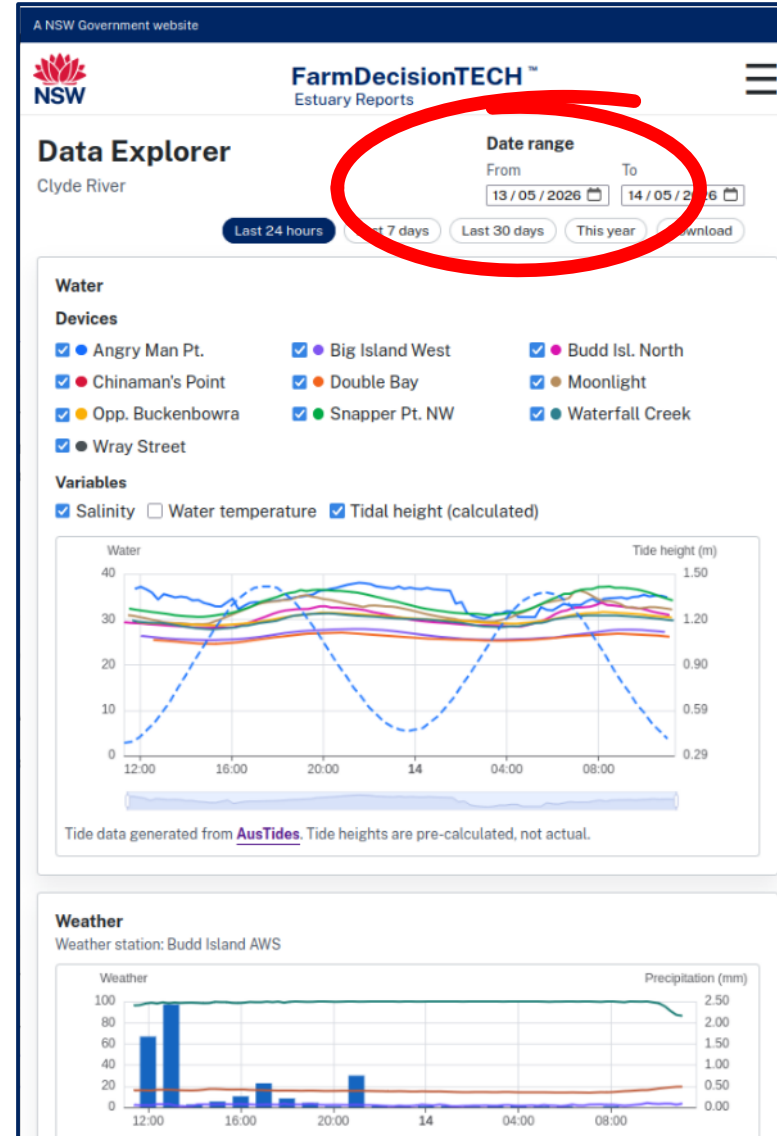
The data available is site dependent – not all sites have the data shown here.



This is probably better viewed
on you desktop or laptop.

Date Range

- enter the start/end date
- or select a preset.

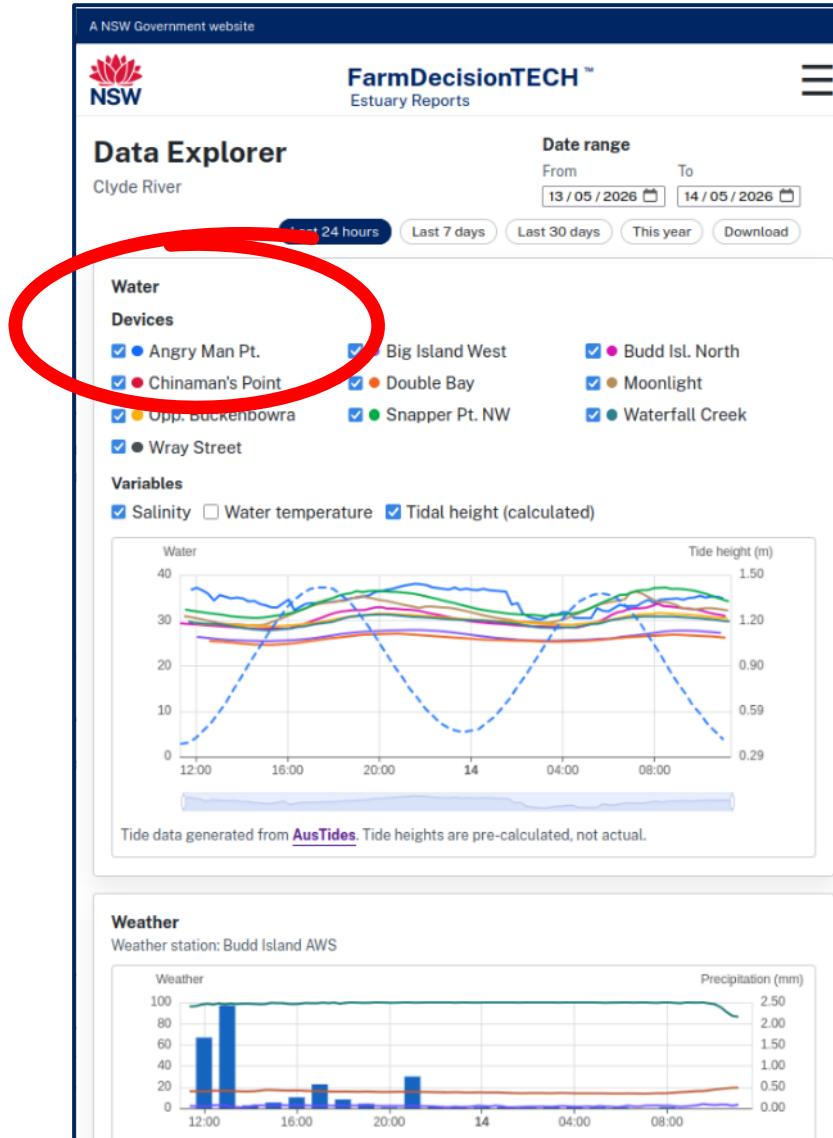


Select the devices you want to see.

If a device is ticked, it is in the graph.

You can also select the data to show – salinity, water temperature, and calculated tide height.

If you hover your cursor over the graph you can see all data point values.



You may want to look more closely at an event.

The graph has sliders at the bottom that allow you to zoom in on the data.

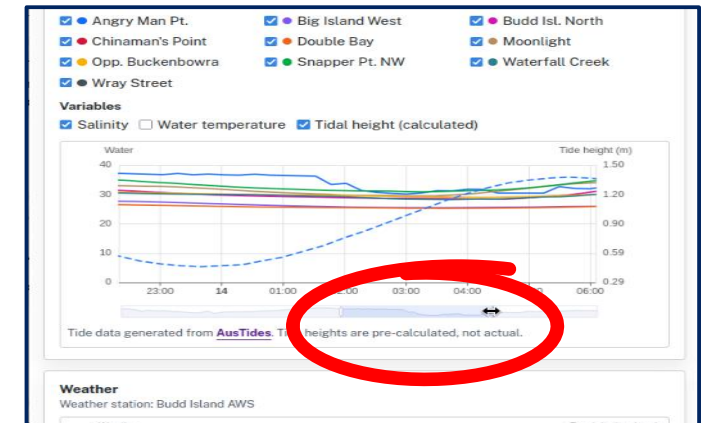
There's one on the left, and one on the right.

Slide those to get a shorter time period.



Here, we've zoomed in on the low-high tide around midnight on the 14th May.

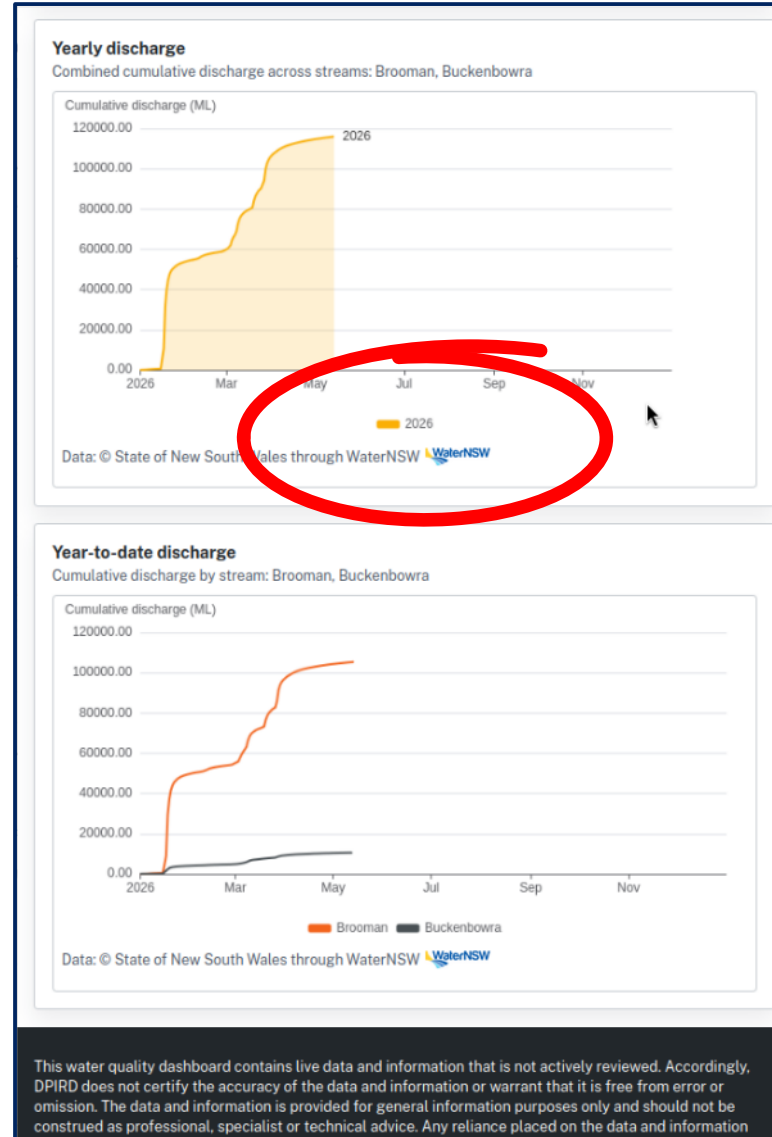
Drag the sliders back to show the whole time period.



Or click again on the time preset at the top of the page.

We also show some data from WaterNSW.

Inflows from streams are shown individually or cumulatively for the year.

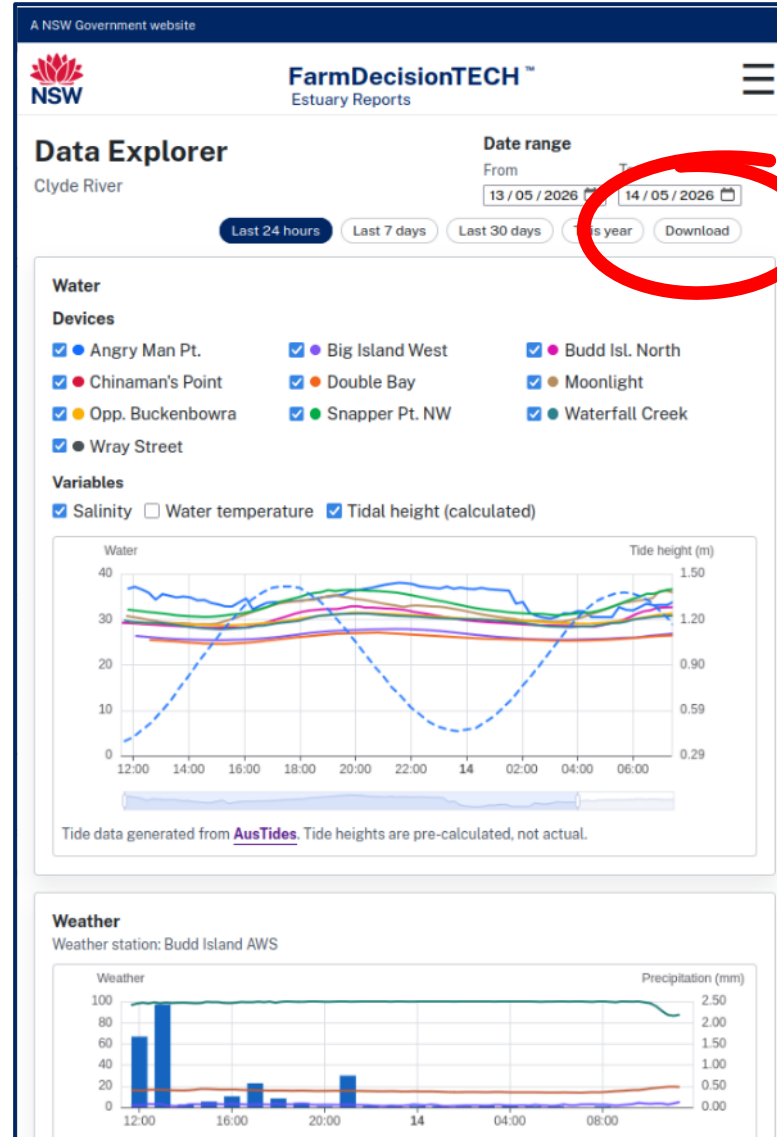


The data shown in the display is raw data where less than 2 days is shown.

If more than 2 days is shown it falls back to an 'average' over a time period.

Clyde River has data available for download. You will always get raw data when you download.

We're working with the data administrators at other sites and hope to make them available soon.



When you download data you'll get a zip file for the time period you've selected.

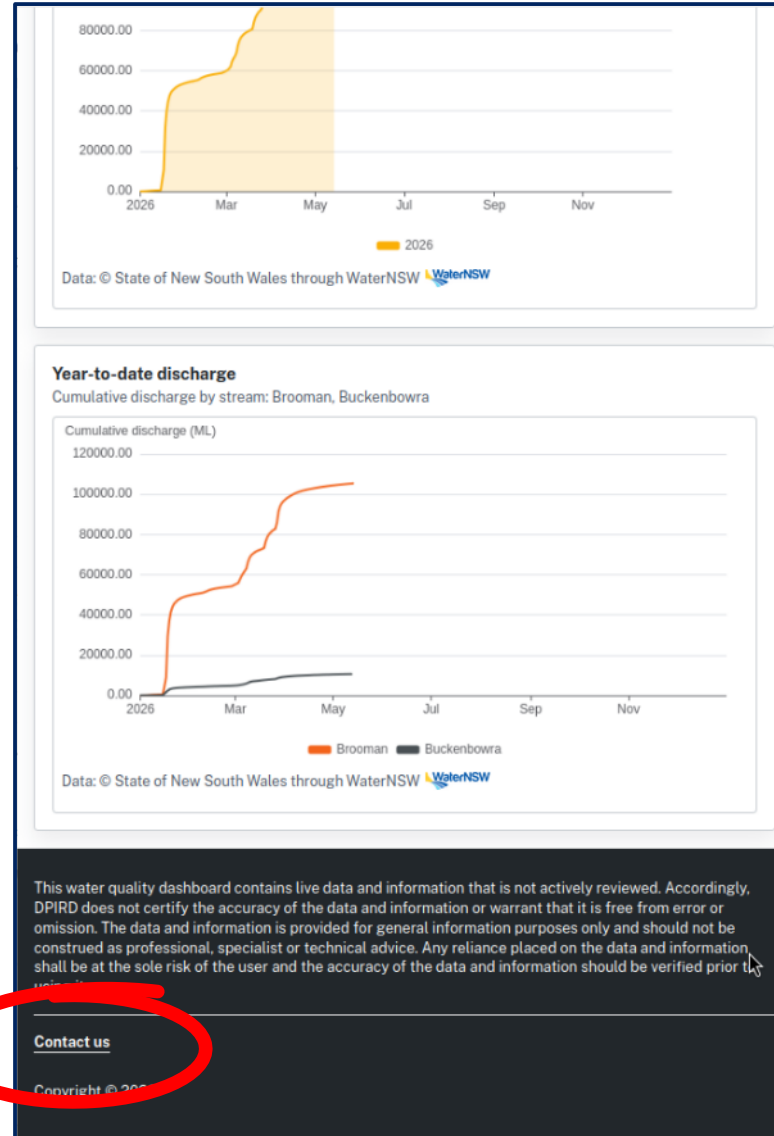
Where to get help?

Let us know your ideas.

New features, data.

On each page there is a
“Contact us” link where you
can send us an email.

Any questions?



Want to talk with us?

We're in the trade hall after this session.

Or send us an email
farmdecisiontech@dpiird.nsw.gov.au

Or you can contact the project lead

Allen Benter
0418 716 688