

# SunWater Flood Warning Communications About Dam Outflows

Please note that this information is complementary to the Goondiwindi Regional Council (GRC) and the Local Disaster Management Group's (LDMG) multi-channel notifications and warnings.

| Example Situation  | SunWater actions  | Where you can find information from SunWater  | Typical messages from SunWater  |
|--|---|---|---|
| <b>PREPAREDNESS</b><br>• High rainfall event possible, no certainty but possibility of dam outflow.              | • Regular updated dam levels available on website<br>• Notify GRC of current dam level<br>• Provide general community update regarding dam levels   | • Sunwater Facebook Page<br>• Twitter @SunWaterLimited<br>• SunWater Website<br>• SunWater App  | • To GRC:<br>- current dam level<br>• To general community:<br>- reference to BOM forecast<br>- current dam level   |
| <b>DAM OUTFLOWS UNDERWAY &amp; POSSIBLE FLOODING</b><br>Due to high rainfall underway across catchment.          | • Notify LDMG & Police<br>• Notify registered EAP downstream residents (near dam) of gate operation & that outflows have commenced<br>• Issue general community update                                  | • SMS (registered EAP downstream residents near dam)<br>• Sunwater Facebook page<br>• Twitter @SunWaterLimited<br>• SunWater website<br>• SunWater App<br>• Radio Stations<br>(SunWater will provide information to the following stations)<br>- ABC (747 AM)<br>- ABC (104.9 FM)<br>- Triple M (864 AM)<br>- 4WK (91.5 FM) | • To GRC, LDMG & Police:<br>- current dam level<br>- dam outflows have commenced<br>• To general community and registered EAP downstream residents (near dam):<br>- dam outflows have commenced<br>- review/enact your emergency plan/know when to evacuate   |
| <b>FLOODING OCCURRING OR LIKELY NEAR DAM</b><br>In blue, yellow &/or red flood zone. (Refer map on centre page). | • Notify LDMG & Police<br>• Notify registered EAP downstream residents (near dam) of gate operation & flooding is expected in blue, yellow &/or red zone or greater<br>• Issue general community update | (SunWater will provide information to the following stations)<br>- ABC (747 AM)<br>- ABC (104.9 FM)<br>- Triple M (864 AM)<br>- 4WK (91.5 FM)   | • To GRC, LDMG & Police:<br>- dam outflows are occurring (including rate)<br>- downstream flooding in blue, yellow &/or red zone or greater is expected<br>• To general community and registered EAP downstream residents (near dam):<br>- dam outflows are occurring<br>- flooding in blue, yellow &/or red zone or greater is expected<br>- recommended action required |
| <b>OTHER DAM INCIDENTS</b><br>E.g. major earthquake.   | • Liaise with State Disaster Coordination Centre to issue community-wide advice via state's emergency alert system  |   | • Description of situation at dam<br>• Enact your emergency plan/move to higher ground  |
| <b>DAM GATES CLOSED</b><br>Flooding may still be underway downstream & across the catchment.                     | • Notify registered EAP downstream residents (near dam) of closure of gates<br>• Issue general community update as required   |   | • To GRC, LDMG & Police:<br>- current dam level<br>- monitor dam levels on SunWater website<br>• To general community and registered EAP downstream residents (near dam):<br>- dam gates are closed and outflows have ceased<br>- further updates will be provided if gates are likely to reopen  |

| Other sources of information               |  |
|--|--|
| Goondiwindi Regional Council website       | <a href="http://www.grc.qld.gov.au/disaster-management">www.grc.qld.gov.au/disaster-management</a> |
| Goondiwindi Regional Council Facebook page | <a href="http://www.facebook.com/grcqlld">www.facebook.com/grcqlld</a>                             |
| Bureau of Meteorology                      | <a href="http://www.bom.gov.au">www.bom.gov.au</a>   |
| ABC  | <a href="http://www.abc.net.au/local">www.abc.net.au/local</a>                                     |
| State Emergency Service (SES)              | <a href="http://www.ses.qld.gov.au">www.ses.qld.gov.au</a>   |
| Queensland Fire & Emergency Services       | <a href="http://www.qfes.qld.gov.au">www.qfes.qld.gov.au</a>                                       |
| Get Ready Queensland                       | <a href="http://www.getready.qld.gov.au">www.getready.qld.gov.au</a>                               |
| Ergon Energy                               | <a href="http://www.ergonenergy.com.au">www.ergonenergy.com.au</a>                                 |
| Queensland Government Disasters & Alerts   | <a href="http://www.qldalert.com">www.qldalert.com</a>   |



## Contact Details

To enquire about Coolmunda Dam, please phone 13 15 89 or email us via the website: [www.sunwater.com.au/home/contactus](http://www.sunwater.com.au/home/contactus)  
 To view Coolmunda Dam storage levels via the website: [www.sunwater.com.au/home/water-storage-levels/coolmunda-dam](http://www.sunwater.com.au/home/water-storage-levels/coolmunda-dam)

 **Download our App**  
[www.sunwater.com.au/sunwater/app](http://www.sunwater.com.au/sunwater/app)  
 **Find us on Facebook**  
[facebook.com/sunwater](http://facebook.com/sunwater)  
 **Follow us on Twitter**  
[@SunWaterLimited](https://twitter.com/SunWaterLimited)



# Coolmunda Dam

## Fact Sheet

### Coolmunda Dam Facts

- Coolmunda Dam was built in 1968 and is the major water storage for the Macintyre Brook Water Supply Scheme, located 13km east of Inglewood (halfway between Warwick and Goondiwindi).
- Coolmunda Dam is a water supply dam for the township of Inglewood, stock intensive industries and irrigation to farming areas along the lower reach of the Macintyre Brook, and to regulate flow in both the Macintyre Brook and the Dumaresq Rivers.
- Coolmunda Dam was not designed as a flood mitigation dam and does not include a flood mitigation compartment, however, it does provide some flood attenuation benefit.
- Macintyre Brook is only half the catchment to Inglewood where Canning Creek joins the Brook. Downstream of the dam, the flows go past Goondiwindi and eventually into New South Wales.

### What types of flows can be expected from Coolmunda Dam?

- SunWater regularly makes water releases through the dam's outlet valve based on:
  - Downstream demand for end users, and
  - Necessity to recharge underground water supplies.
- When the dam is full, further inflows to the dam are passed through the spillway gates to protect the integrity of the dam structure.
- The Bureau of Meteorology provides flood warnings for the town of Inglewood.

## DAM DETAILS

**WATERCOURSE**  
Macintyre Brook

**DAM CATCHMENT AREA**  
1,735 km<sup>2</sup>

**NEAREST TOWN**  
Inglewood

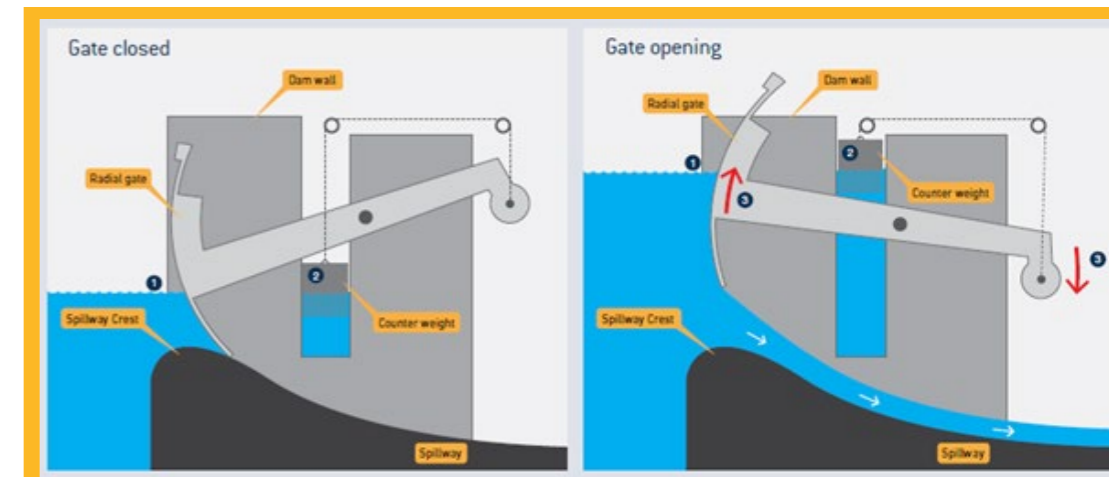
**STORAGE CAPACITY & LEVEL AT 100%**  
69,090ML, 314.07m AHD

**AUTOMATIC GATE OPERATIONS LEVEL**  
314.19m AHD (gate 4 opens first)

**OUTLET VALVE CAPACITY**  
370ML

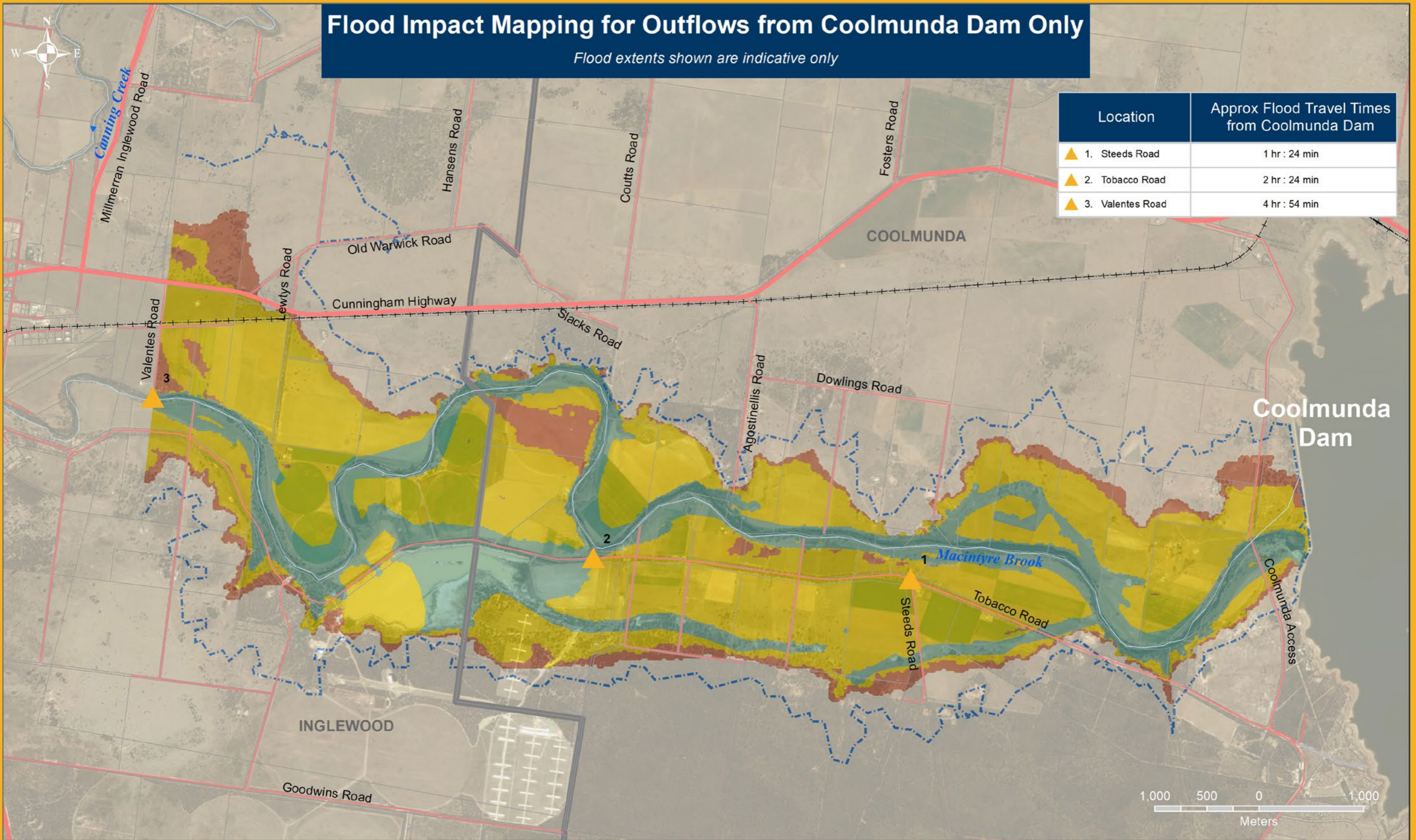
### How do the gates work?

- The Coolmunda Dam spillway gates are designed to open automatically using a counter weight system when the water level reaches 314.07m AHD. There is no decision making about how much water to release during events.
- The gates continue to open as the storage level continues to rise. They lower as the storage level reduces.
- The system is designed to pass flows from upstream through the dam and does not rely on any computer or electrical control equipment to function.



# Flood Impact Mapping for Outflows from Coolmunda Dam Only

Flood extents shown are indicative only



| Location             | Approx Flood Travel Times from Coolmunda Dam |
|----------------------|--|
| ▲ 1. Steeds Road     | 1 hr : 24 min                                |
| ▲ 2. Tobacco Road    | 2 hr : 24 min                                |
| ▲ 3. Valentines Road | 4 hr : 54 min                                |

**Note:**

- A. Flood Mapping for areas further downstream is not shown here as these areas will become more impacted by other creek and catchment inflows (not just dam outflows).
- B. Flood travel times are indicative for flow to reach the locations shown following releases from the dam. Travel times may vary with larger floods and may be significantly less than shown.
- C. Flood impacts may be experienced beyond the extent of the 'red' zone up to the Probable Maximum Flood extent (indicated on the legend).

**LEGEND**

- ▲ 1 Flood depth and travel time location
- Highway
- - - Track
- + + + Railway
- Property Boundary
- ▭ Suburb Boundary

**Outflow Rate**

- Blue Flood extent for 600m<sup>3</sup>/s dam outflow
- Yellow Flood extent for 1,500m<sup>3</sup>/s dam outflow
- Red Flood extent for 3,000m<sup>3</sup>/s dam outflow
- Probable maximum flood extent

