

Flood Gauge Installation

New flood warning stations, from site selection to handover.

We design, build and commission complete flood warning stations for Queensland councils and the Bureau of Meteorology's flood warning network. One team looks after the site work, the electronics and the paperwork, so the station reports correctly from the day it goes live.

End-to-end

Site selection through to handover

ALERT + 4G

Telemetry proven on site before we build

AHD

Surveyed levels at every station

What we deliver

- Site selection and access checks with council and landholders
- Radio path modelling and field testing for ALERT and cellular links
- Civil works: excavation, reinforced foundations, conduit and orifice runs
- Towers, enclosures, solar and lithium (LiFePO4) power systems
- Water level (bubbler or pressure), rain gauge, logger and telemetry
- AHD survey of sensor zero and permanent survey marks
- Site acceptance testing, calibration certificates and as-built records

Built right, tested properly

Every station is tested end-to-end before we leave site: sensor, logger, radio and base station. Level sensors are checked across their full range with a traceable pressure calibrator, rain gauges are field-calibrated, and power and telemetry are load-tested. You get a commissioning report with the results, calibration certificates, survey data and a map of as-built services.

Queensland councils: we're a Local Buy pre-qualified supplier (LB312), so you can engage us directly without running a full tender.

Project snapshot

New flood warning station, South East Queensland (2025)

Delivered for a South East Queensland council as part of the Queensland flood warning infrastructure (FWIN) upgrade program. The nominated location proved unsuitable once we walked it (swampy access, private land and overhead powerlines), so we assessed alternatives with council staff and confirmed a better site. Radio path modelling and field testing proved a reliable ALERT link before any concrete was poured.

Structure	4.5 m tower on a reinforced concrete foundation
Power	160 W solar, 50 Ah LiFePO4 battery
Water level	Bubbler with 21 m pressure sensor
Rainfall	0.2 mm tipping-bucket gauge, factory calibrated
Telemetry	ALERT radio, 151.5 MHz
Survey	Tower survey mark levelled to AHD
Handover	Commissioning report, certificates, as-built map



Foundation cage set out and checked before the pour



Conduit run from the station to the orifice

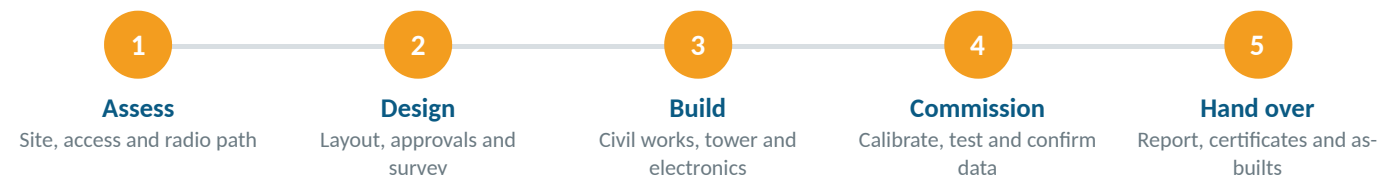


Tower head craned into place



Finished slab, ready for the tower

How we work



Talk to us about your network

Call 0408 255 779
Email admin@integratedrm.com.au
Web integratedrm.com.au



Local Buy pre-qualified supplier (LB312)
 Floodplain Management Australia member
 Australian Hydrographers Association member
 Operating since 2018