

Mackay City Substation Upgrade - Project Update



Part of Energy Queensland

December 2021

The recovery of redundant underground cable for Tennyson Street substation commences in December

Stage 2 of cable recovery work commences

Following the hydrovac excavation works in November, where we confirmed how the old cables were installed, we have now planned our approach to the recovery of redundant cables to the old Tennyson Street substation.

Some of the old cables have been installed in conduit, while others have been direct buried into the ground, so different approaches are needed.

Stage 2 of our recovery work will be to recover the cables installed in conduit, which is the simpler and least disruptive process. This work will be done in two phases: the first is to excavate at the conduit ends to create safe access areas in preparation for our crews, who will then come in and recover the cables.

The contractors will excavate small areas in the footpath and roads to provide access to the cable ends and then establish temporary fencing for safety until the crew can come in and remove the cables – see areas indicated in red in Figure 1 for excavation sites.

These civil works will take place between 6 and 15 December.

The cables installed in conduit can be recovered with minimal disruption, so they have been prioritised and our specialist underground crews will do this work on 16 and 17 December.

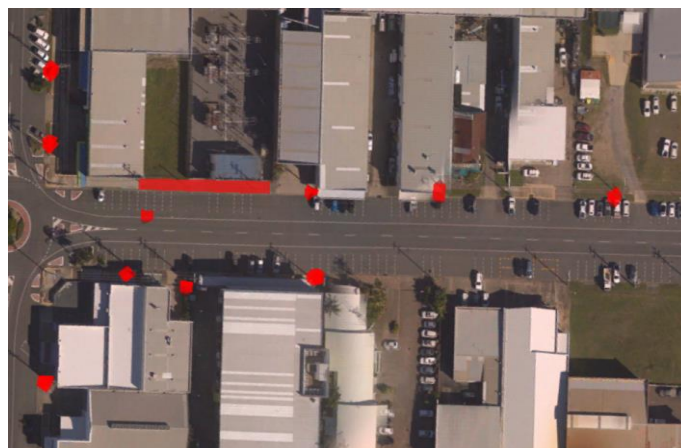


Fig 1 – Excavation sites to expose conduit ends.

In December we will also remove sections of direct buried cable that run from the distribution pole to the kerb. Removing these small sections of cable in the footpath now will allow us to separate the footpath and road reinstatement works, so that all footpaths disturbed during our works can be reinstated early in the new year.

Cables that have been direct buried in the ground and under roadways will require more extensive civil works and will be left until the new year, to limit disruption to business in the lead up to Christmas.

The following sections show where the work to recover the redundant cables installed in conduit will take place.

Removal of old Centrepont Feeder

The access point for the old Centrepont feeder will be at the pole adjacent to the rear access to the Aboriginal and Torres Strait Islander Community Health Service on Tennyson Street – see the green highlighted area in Figure 2.



Fig 2 – The first location for civil works excavation to access the old Centrepoint cable.

Full access to the driveway will be available between excavation and the cable recovery works later in December, just not while the contractors are excavating and when the crews are removing the cable.

The underground crew will remove the cable on 17 December. To recover the cable from the conduits, crews will need to haul out the old cable using a vehicle equipped with cable recovery gear. They will attach the old cable to the hauling equipment and roll it onto a cable drum positioned on the back of a truck.

Positioning of the vehicles for cable recovery will impede access to a section of the footpath and some carparks on Tennyson Street, as well as the rear driveway of the Medical Centre, while the cable is being recovered on 17 December – see Figure 3.



Fig 3 – Carparks and footpath area will be unavailable.

We are planning to start this section of work early so that works are completed before the medical centre opens for business. If this can't be achieved, a temporary driveway access will be established to allow ambulance vehicles to access the clinic should a medical emergency arise.

Old River Street Feeder Recovery

The next site along Tennyson Street to be prepared by the contractors will be for the old River Street feeder. The

access point for this cable is the pole on the boundary of Complete Doors and Universal Signs in Tennyson Street – see Figure 4.



Fig 4 – Access point for old River Street cable.

Cable recovery for the old River Street feeder is also scheduled for 17 December.

Crews will position their vehicles and recovery gear in front of Complete Doors, impeding access to a portion of the footpath and adjacent carparks, while the work is underway – see the green highlighted area in Figure 5. Access to driveways should remain available during the cable recovery.

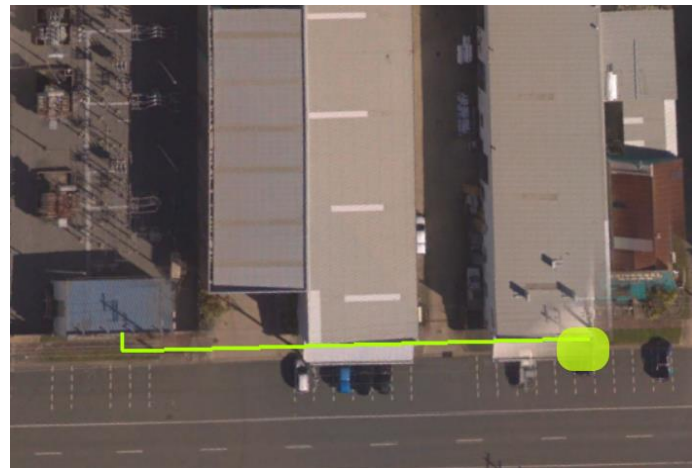


Fig 5 – Location of excavation site 2 near Complete Doors on Tennyson Street to provide access to old River Street cable.

Removal of cables from Tennyson Street substation

One of the most significant sections of work in Stage 2 is the removal of all the exit cables from the old Tennyson Street substation and some within the substation yard.

Because of the number of cables entering the old substation, the area of excavation will be larger than in other sections of Stage 2 works – see Figure 6.

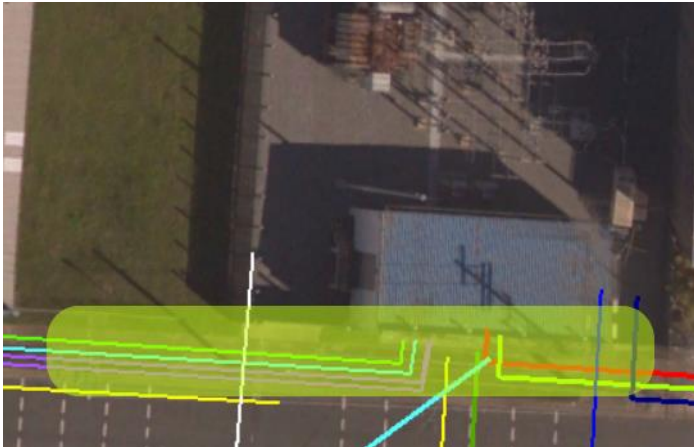


Fig 6 – Open trench excavation planned in front of new Mackay City substation and the old Tennyson Street substation.

Recovery of the redundant cable in front of the old substation is scheduled for 6 to 7 December. Vehicles and recovery equipment will be positioned along the western side of Tennyson Street in front of the substation and may impact the carparks adjacent to Flooring Xtra and the substation.

Traffic control and pedestrian detours will be in place to ensure public safety. Access to Porter’s commercial deliveries area on Tennyson Street will remain open during civil and recovery works.

Redundant Alfred Street Cable Recovery

Recovery of the old Alfred Street cable is scheduled for 16 December.

The access point for this cable is located in front of the new Mackay City Substation on Tennyson Street – see the green highlighted area in Figure 7.

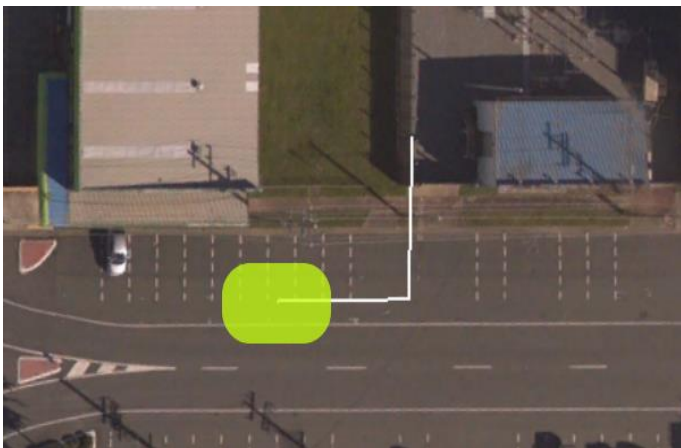


Fig 7 – Location of excavation for recovery of the old Alfred Street cable.

Gordon Street and Post Office Cables

The access point for crews to remove the old Gordon Street and Post Office cables is located on the footpath in

front of Flooring Xtra in Gordon Street. This area is highlighted in green in Figure 8.



Fig 8 – Location of excavation to access Gordon Street & Post Office cables

Juliet Street Cable Recovery

Recovery of the old Juliet Street cable is scheduled for between 6 to 17 December and will require small excavations at two locations on the eastern side of Tennyson street at the poles either side of Ergon’s site office at 13 Tennyson Street – see Figure 9.



Fig 9 – Excavation sites for crews to access the old Juliet Street feeder.

Removal of cable ends from poles to kerb

The remaining excavation sites will allow us to access the ends of cables which have been direct buried in the footpath. These excavation works are also scheduled to be completed between 6 and 15 December and are outlined below.

Removal of a small section of the Victoria Street cable from the pole to the kerb in front of Techserve – see Figure 10.



Fig 10 – Location of excavation to access Victoria Street cable in footpath

Similarly, a small area will be excavated at the base of the pole to the roadside at the pole on the boundary of Inner Labyrinth on Gordon Street for removal of the Goldsmith Street cable end – see Figure 11.

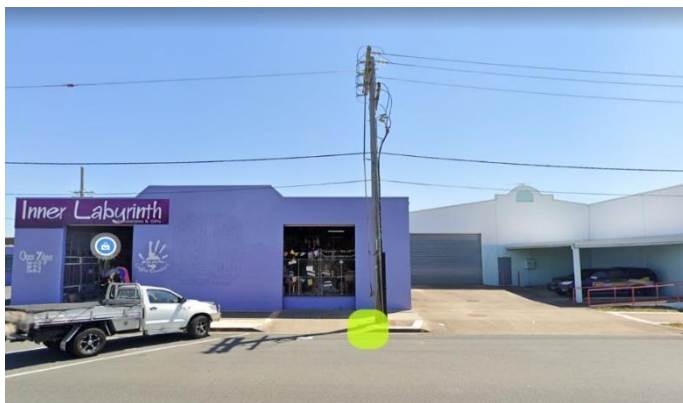


Fig 11 – Excavation site to access Goldsmith Street cable

Finally, the Brisbane Street cable end will be removed from the footpath between the pole and roadside at the pole adjacent to the garden bed in Gordon Street next to the Exhaust and Brake Centre – see Figure 12.



Fig 12 – Location of excavation to access Brisbane Street cable in footpath

All sites will be barricaded for safety and while excavation and cable recovery works are underway, alternate pedestrian access and, where necessary traffic control, will be established to maintain public safety.

Because it will take some time to complete all of the recovery works, we will temporarily reinstate the footpath and road areas that we disturb with a 'hot mix solution' to limit the chance of trip hazards and erosion during the wet season.

We will be back in the New Year with more information about the remaining stages of cable recovery and our plans to finalise the reinstatement of affected footpaths and roadways.

Getting in touch with us

As always, we thank you for your patience while these works are underway and encourage you, if you have any questions about the Mackay City Substation Project, to contact Kate Austin - Senior Community Engagement Advisor - on 1300 653 055 or email us at:

NetworkProjectEngagement@energyq.com.au

You can also keep up to date on the project by visiting our project website: <https://www.ergon.com.au/network/network-management/network-infrastructure/major-projects/regions/central/tennyson-street-substation-refurbishment>



During storm season, fallen powerlines are the lines that matter most.

So look out for them, stay clear and call 000 or Ergon Energy on 13 16 70 if powerlines are down.