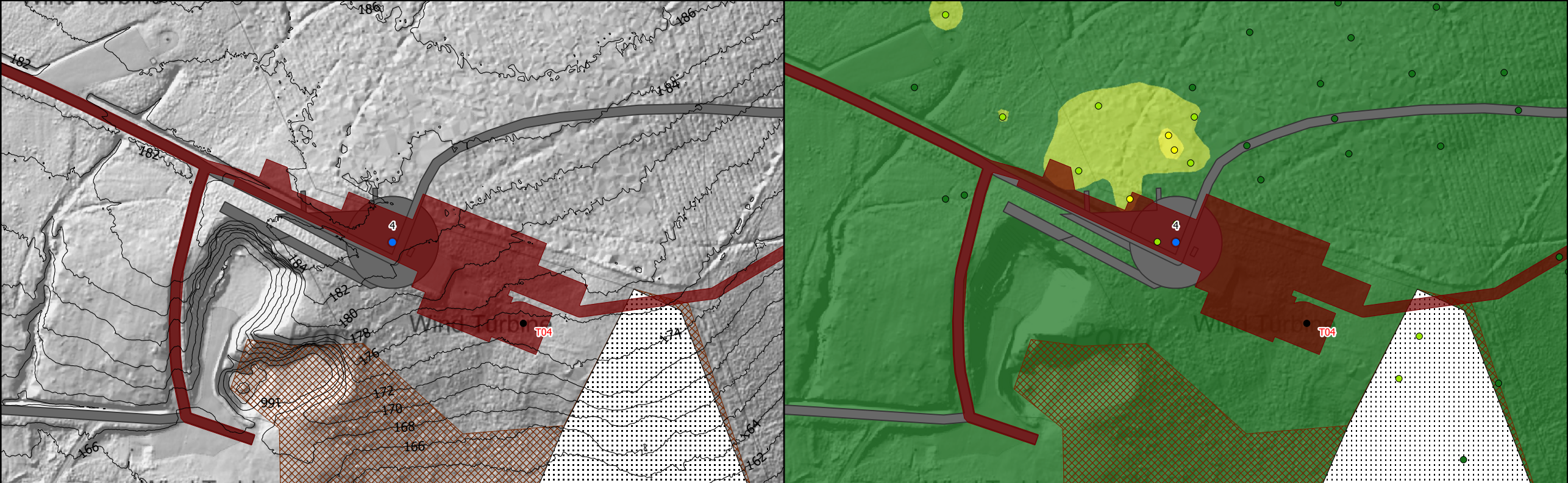
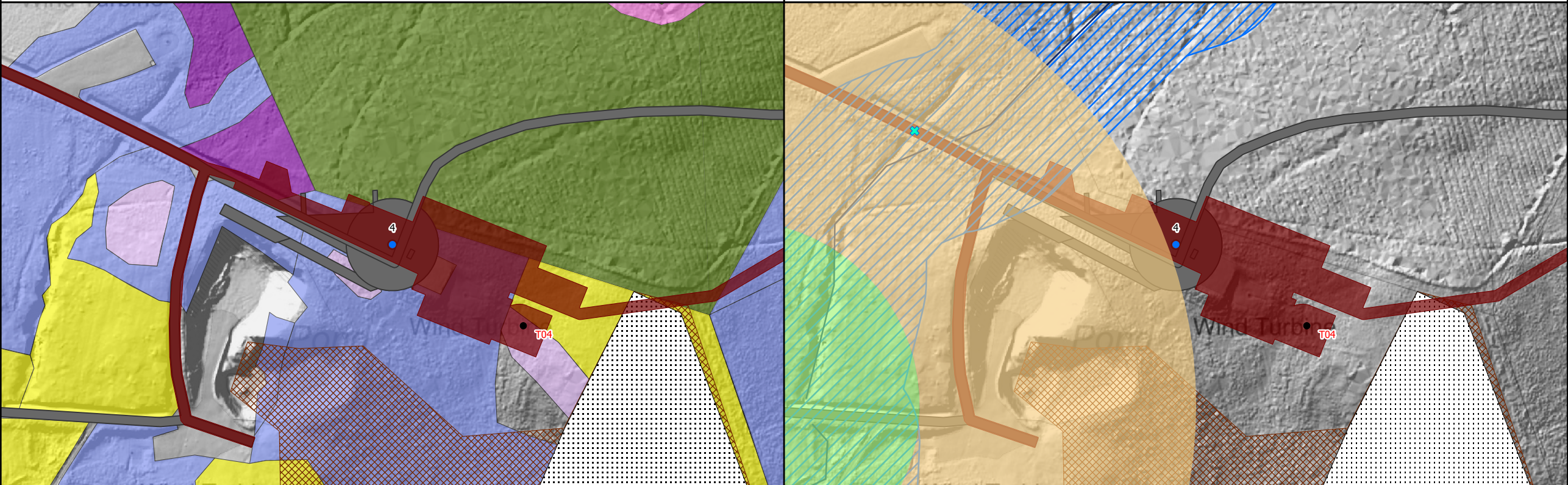


T04: Reason for Moving: The location of T04 has moved to provide a better spacing from the Private Water Supply (PWS13) that is the source of water for three properties to the south of the site and to move the turbine hardstand out side of the 50m water buffer.



Engineering: The existing track from the operational site has been used as the approach for this turbine location. This track will need upgrading to accommodate modern turbine deliveries. The plan for turbine component deliveries is to drive directly onto the hardstand in a forward direction. A small unloaded turning head will be located between T04 and T05 to allow for delivery vehicles to turn and leave the site. This turning head serves both turbines. The distance back to the main windfarm spine road it further than what would be acceptable to the delivery companies, therefore the turning head is a necessary feature for this location.

Geology Impacts: By moving the turbine location to the East, the location has the benefit of avoiding deeper pockets of peat to the West.



Ecology Impacts: The new location for the infrastructure sits within varying NVC areas as does the consented development. The infrastructure will be located in predominantly Mires, with a small portion of the hardstand sitting in U4 grassland. Turbine and hardstand within 100m of active badger sett.

Hydrology Impacts: As noted above the infrastructure has been moved away from the water buffers as much as possible. The move pushes the deeper excavations of the turbine foundation (approximately 4m to 5m) outside of the 250m buffer that limits works to 1m.

- Legend**
- Site Boundary
 - Consented Turbines
 - Revised Turbine Locations
 - Consented Permanent Met Mast Location
 - Revised Permanent Met Mast Locations
 - Consented Operations Building
 - Consented Construction Compound
 - Consented Layout
 - Proposed Varied Layout
 - Borrow Pit Search Area
 - Borrow Pit Working Area

Engineering

2m Contours

- Geology**
- Peat Depth (m)

 - 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - >4

Peat Depth (m)

 - 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - >4

- Ecology**
- NVC

 - Coniferous Woodland
 - M15
 - M16
 - M19
 - M23
 - M25
 - U4

- Hydrology**
- Water Crossing
 - Watercourse (OS Vector)
 - Watercourse 50m Buffer

Groundwater Supply Source Buffer (as per LUPS31)

 - 100m
 - 250m

Scale 1:2,500 @ A3

0 80 m

N

Figure 2.12d
Infrastructure Design Review
- Turbine 04