

**METROLINK**

Integrated Transport. Integrated Life.

**A19.4**

**Groundwater  
Datalogger  
Hydrographs  
(period 2019–2020)**

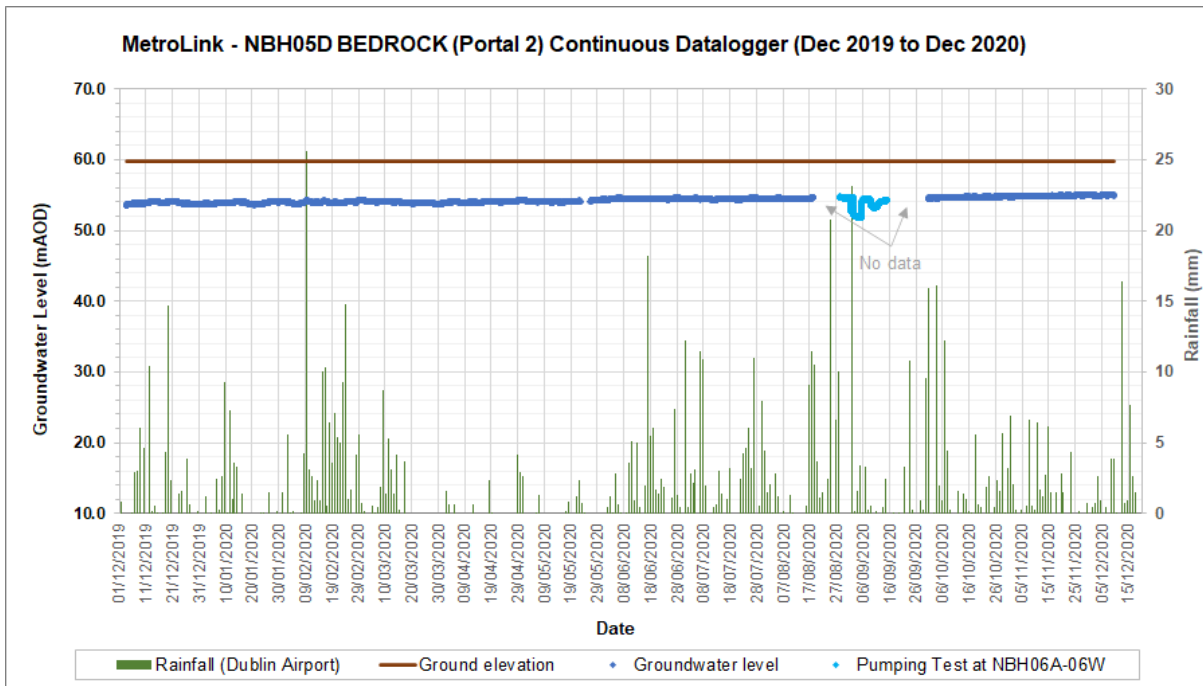
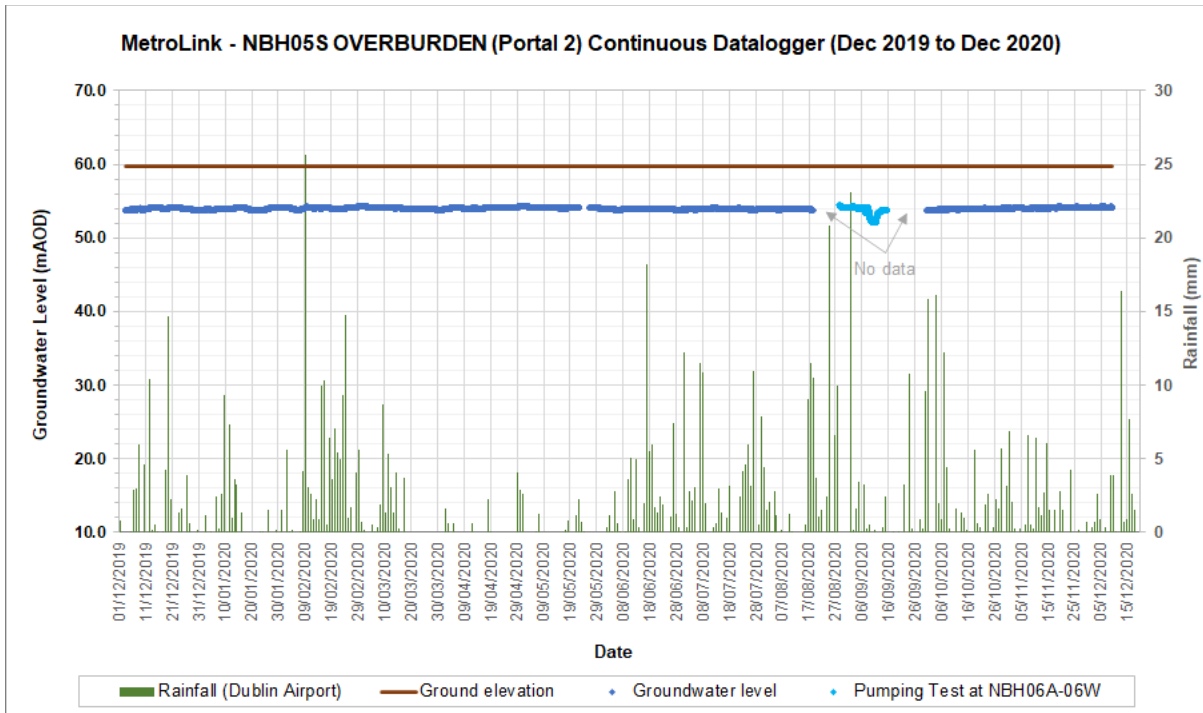
**Appendix A19.4****Metrolink – Groundwater Hydrographs 2019-2021**

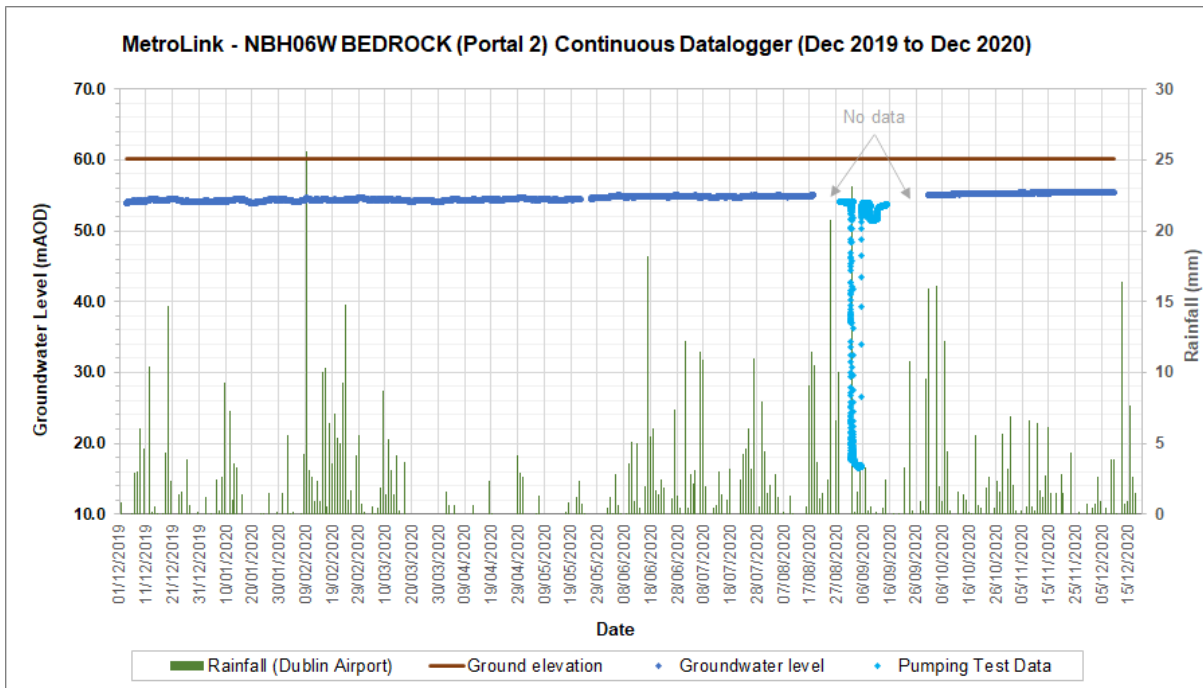
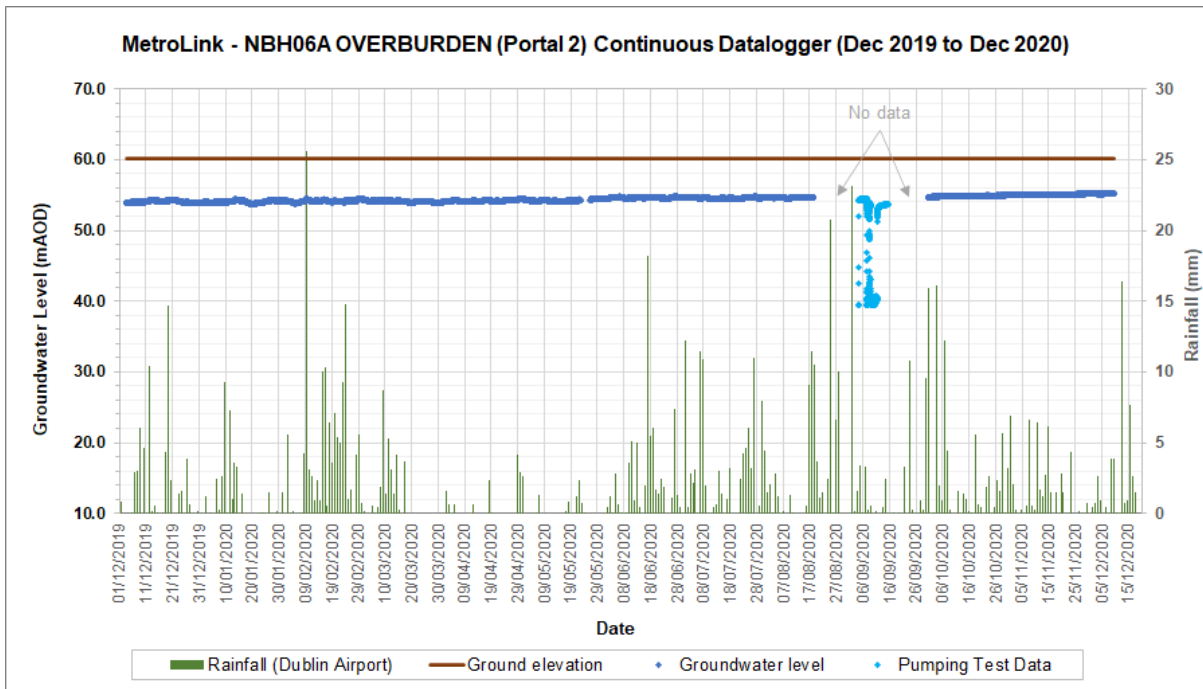
*(Based on Ground Investigation Boreholes completed as Phase 1 To 4)*

**Notes to Hydrographs**

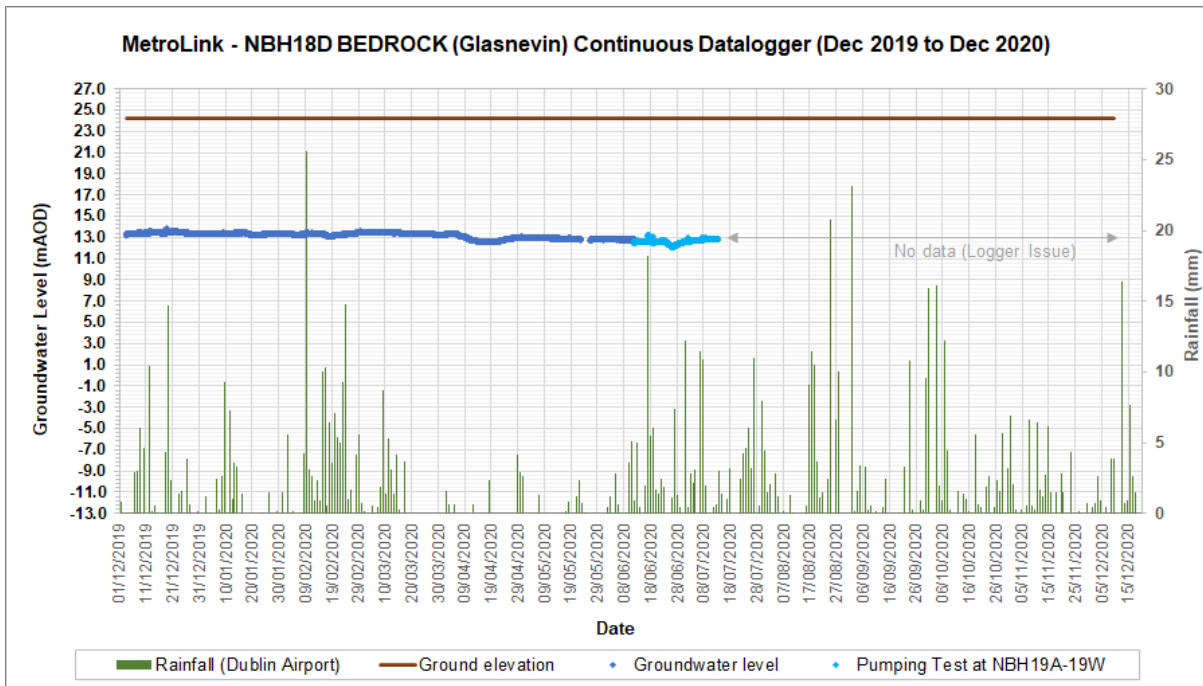
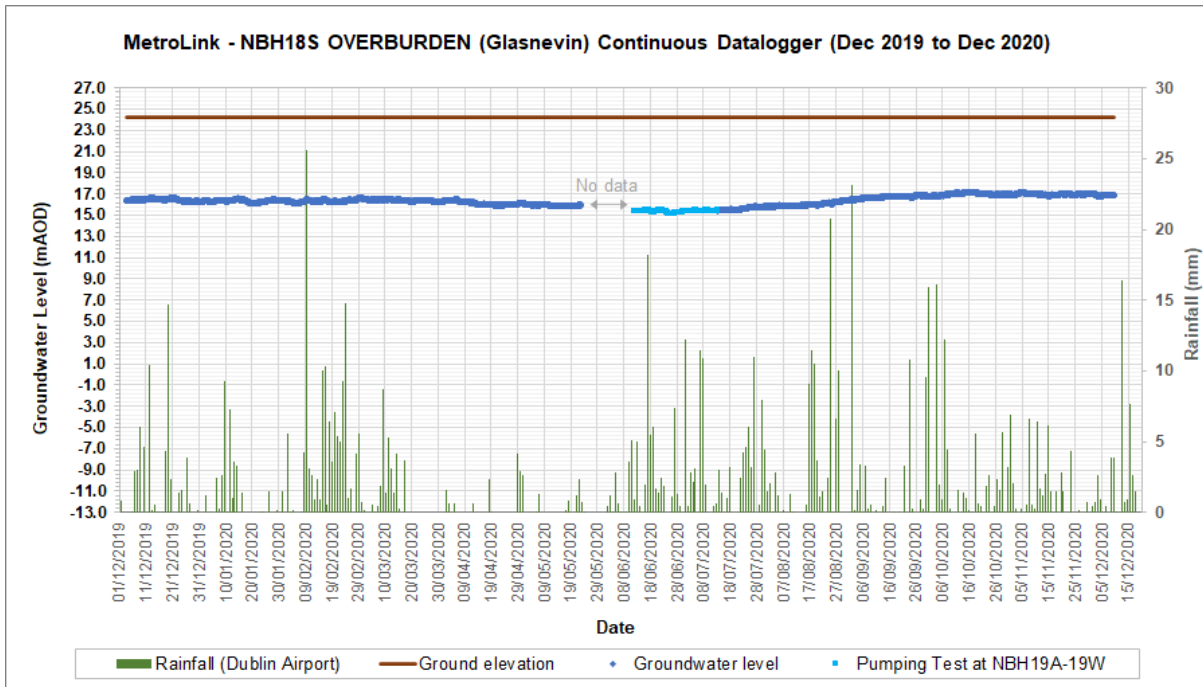
- Dataloggers downloaded periodically with aim of resetting at same unit suspension depth.
- Dataloggers compensated for barometric pressure.
- Datalogger initial value set using manual measurement of static water level (SWL) at that borehole and using a consistent reference level.
- All levels converted to metres above Ordnance Datum (Malin Head) following download.
- In the event of obvious data gaps these are highlighted as 'No Data' unless indicated otherwise.
- Where there is obvious drawdown in the groundwater elevation profile, which is not related to the effects of pumping test works, then a decline in water levels may reflect monitoring well purging prior to groundwater sampling at that borehole, a decrease in rainfall recharge (leading to groundwater recession for example) and so on.
- Rainfall data (mm, precipitation) is presented on the majority of hydrographs, secondary axis, as good practice.
- The meteoric station used for rainfall is the [live] Dublin Airport station with notable historical records and on-going record keeping. It must be noted that, given the urban setting for the majority of monitoring boreholes presented, and hardstanding ground cover, then the effects of rainfall in the wider area are not necessarily immediately impacting on the groundwater levels recorded -regional recharge must therefore be considered and moreso where thick Clay sequences prevail.

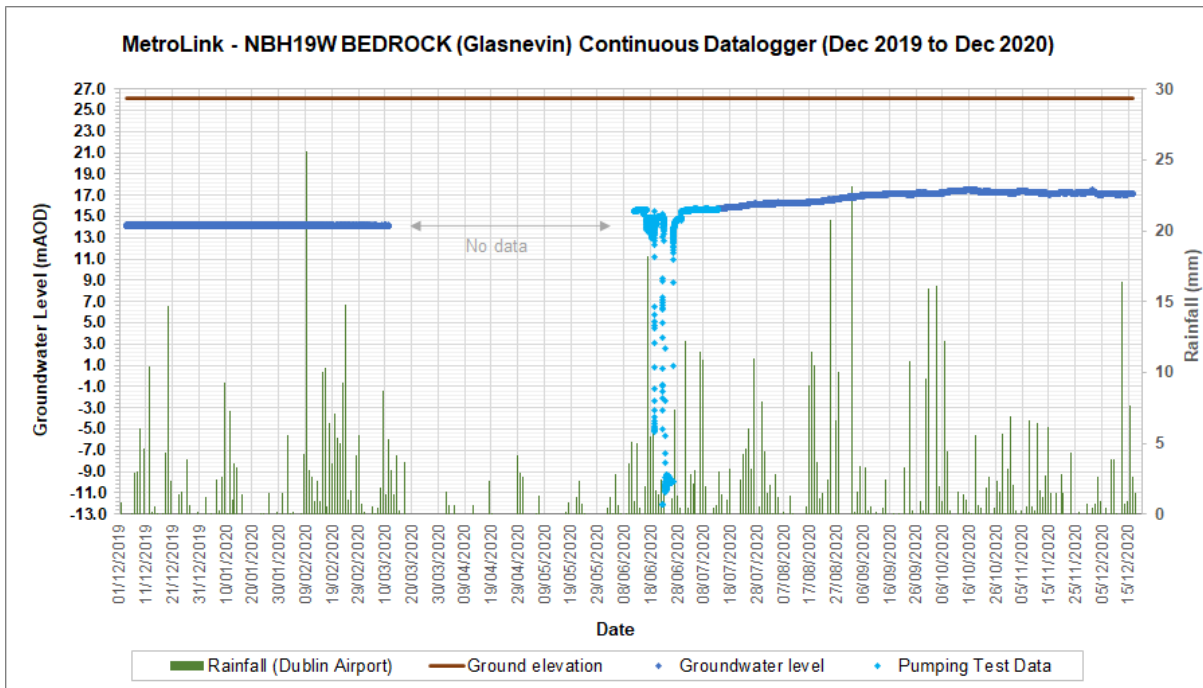
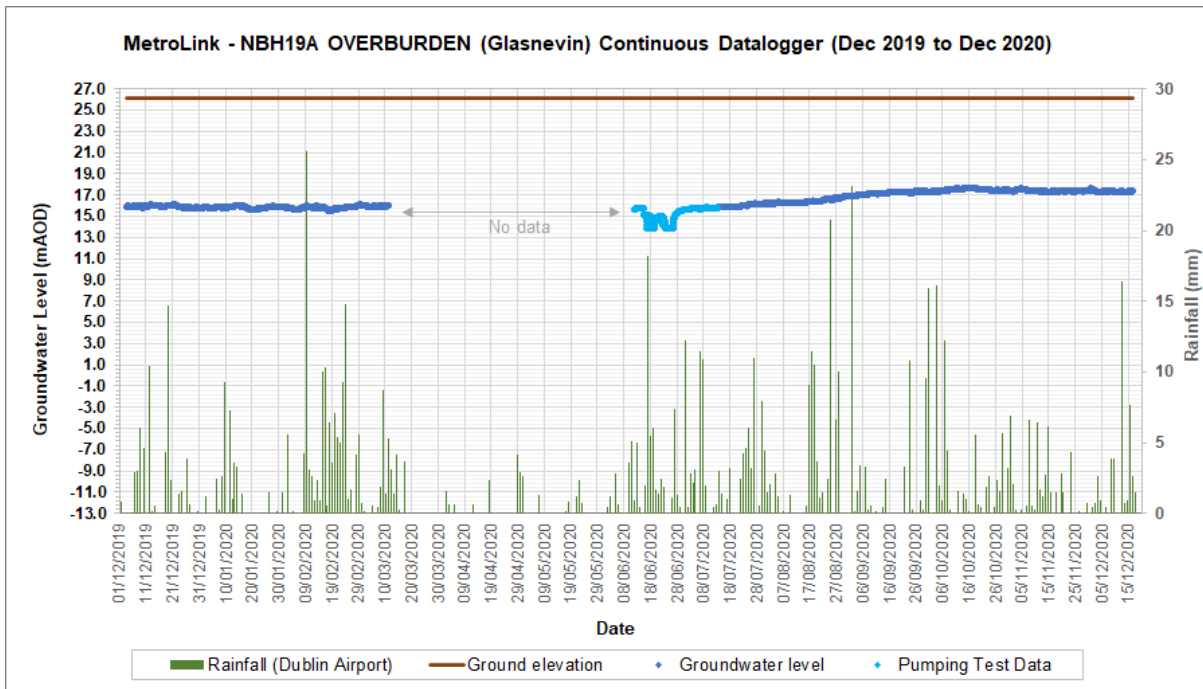
### PHASE 1 – Portal 2 Area



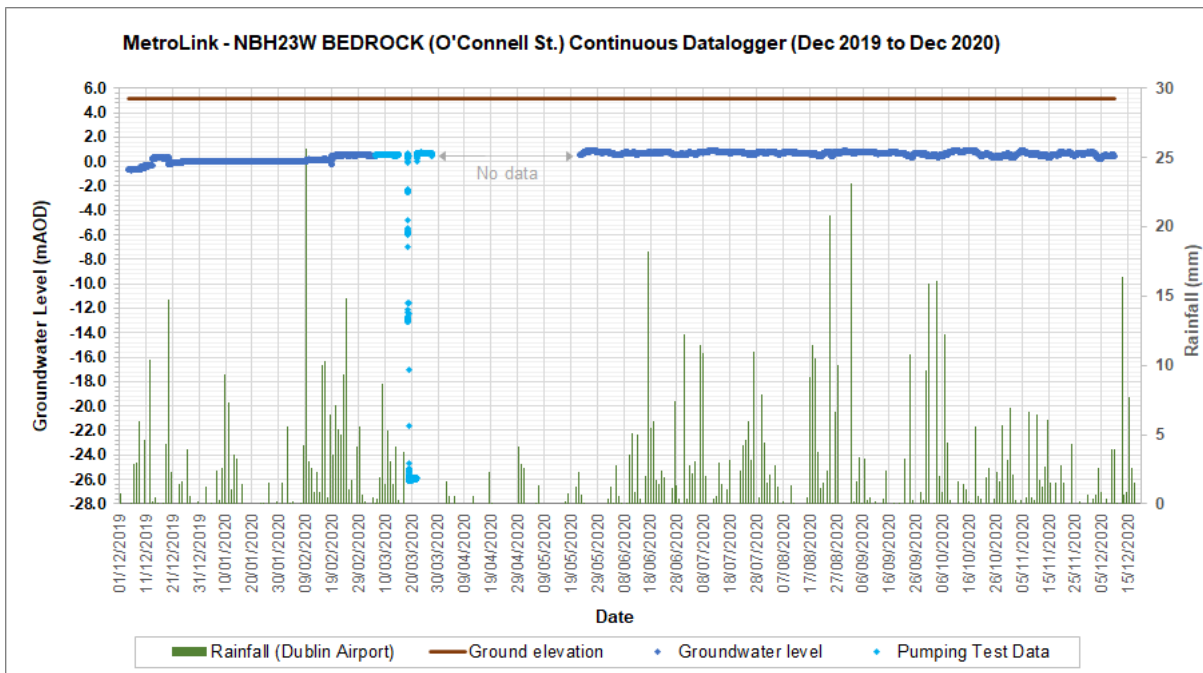
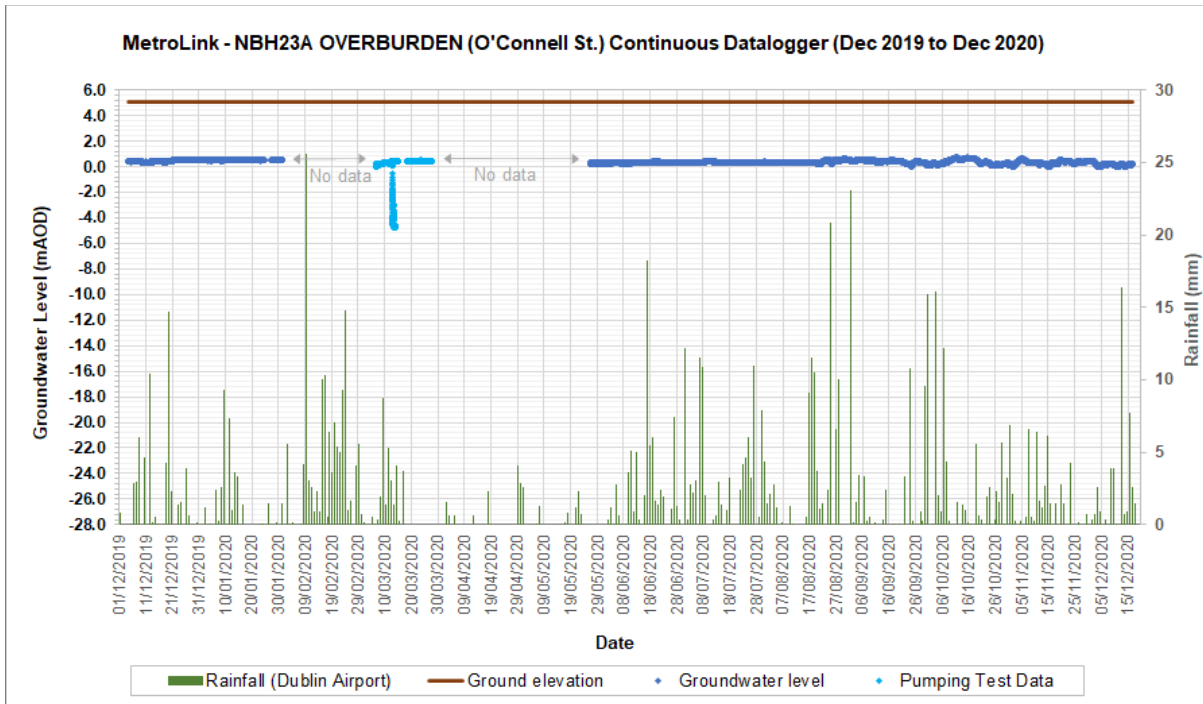


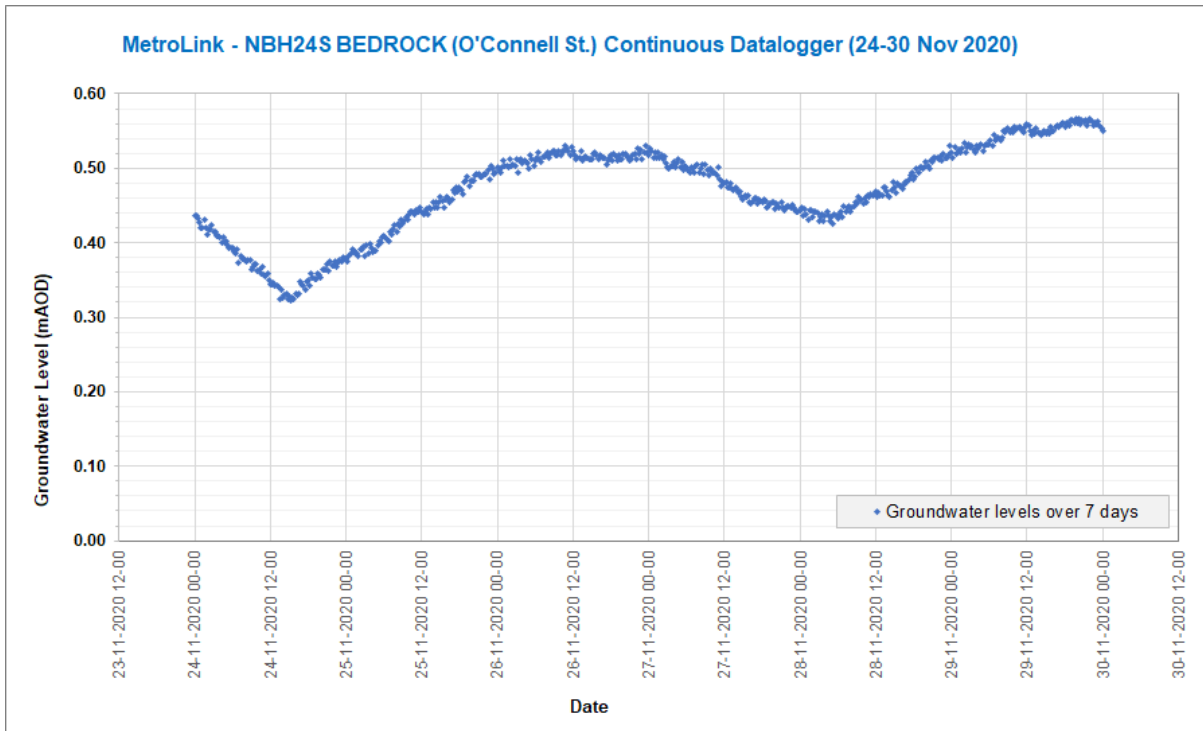
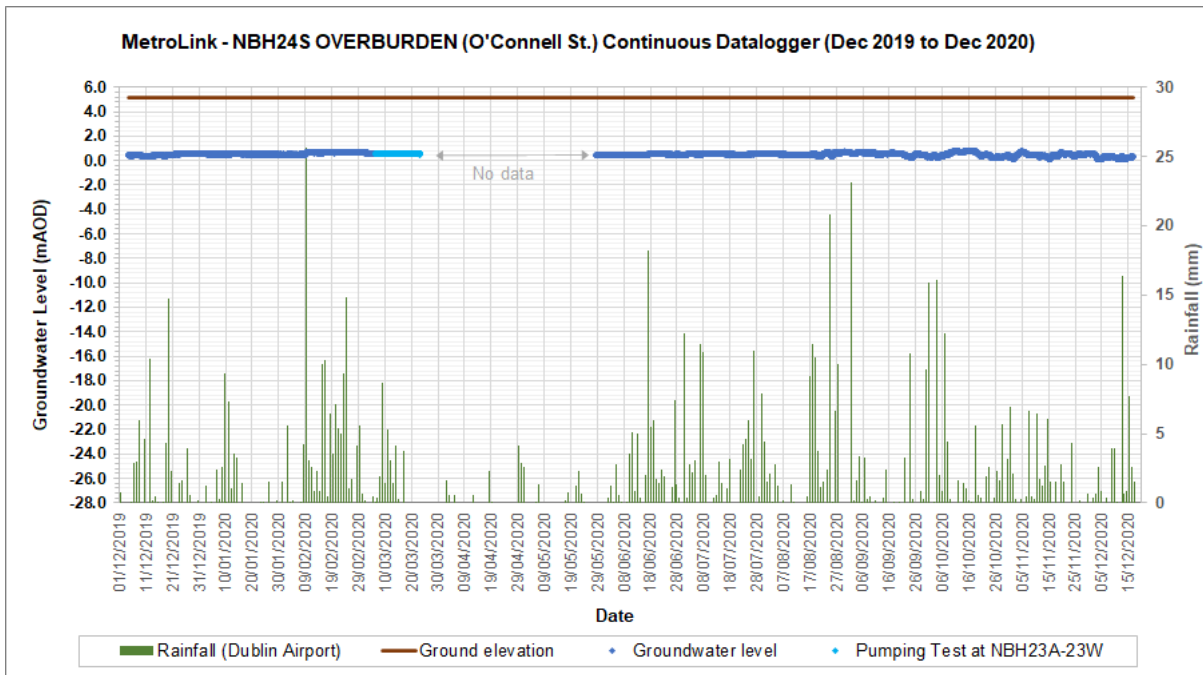
### PHASE 1 – Glasnevin Area





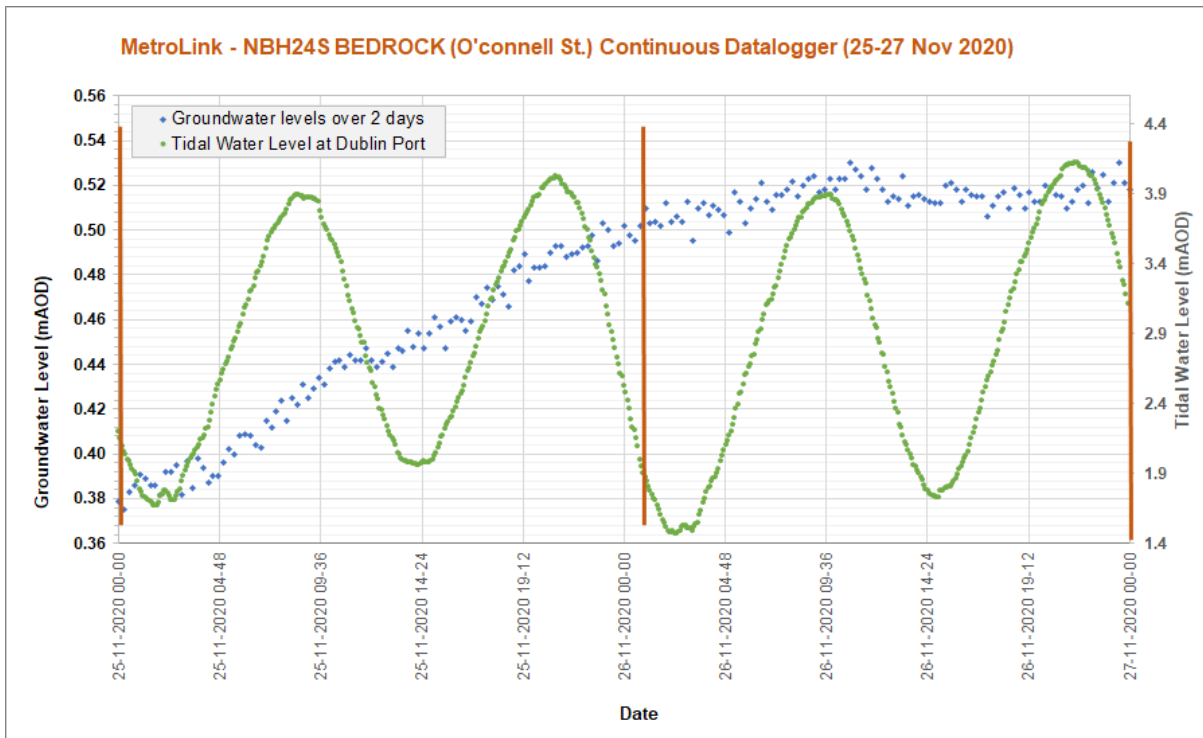
### PHASE 1 – O’Connell Street Area



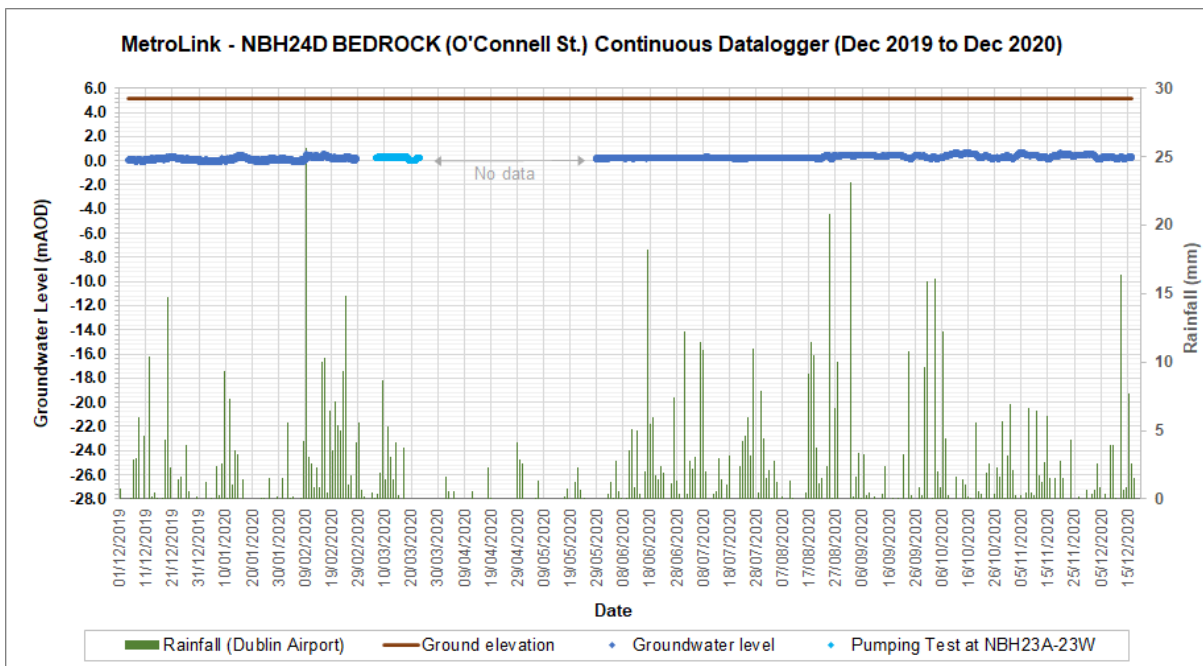


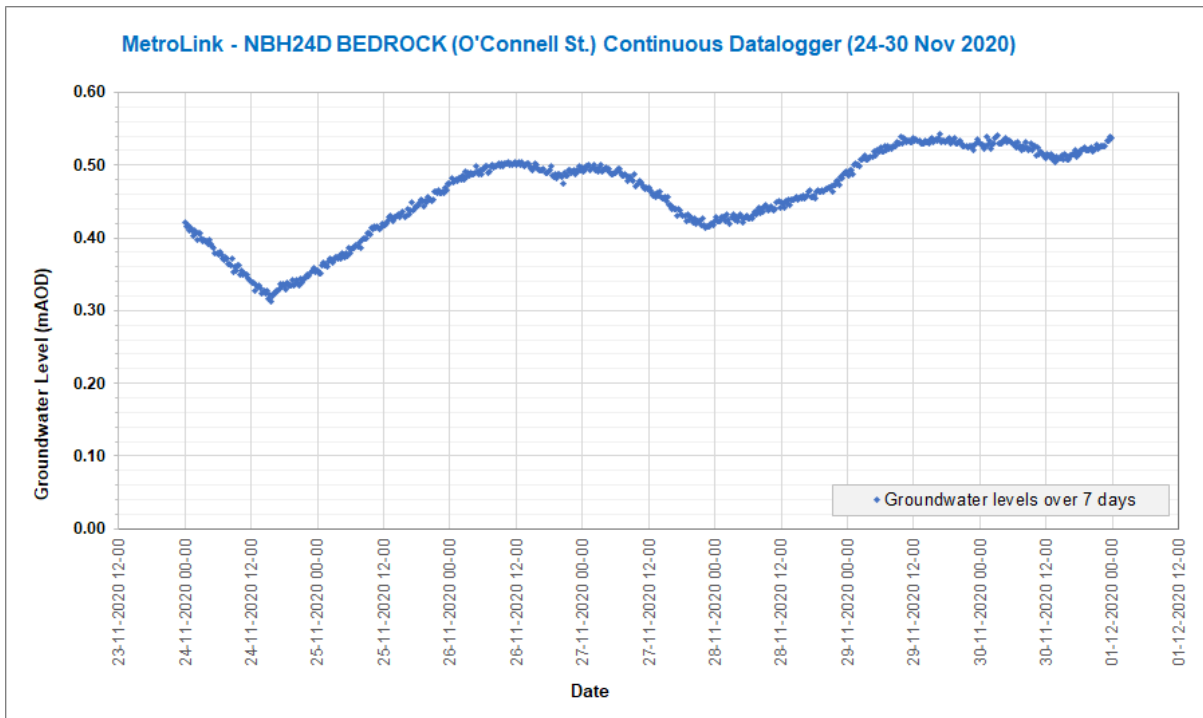
**NBH24S Tidal Check – Graph 1**



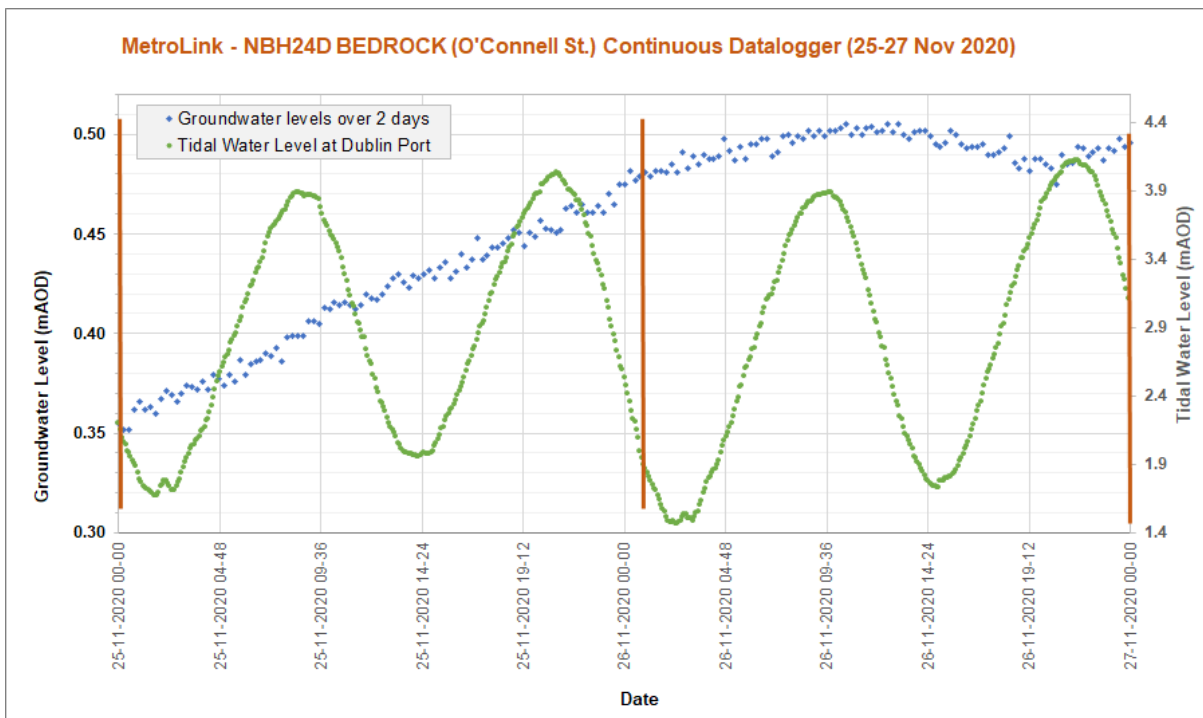


**NBH24S Tidal Check – Graph 2**



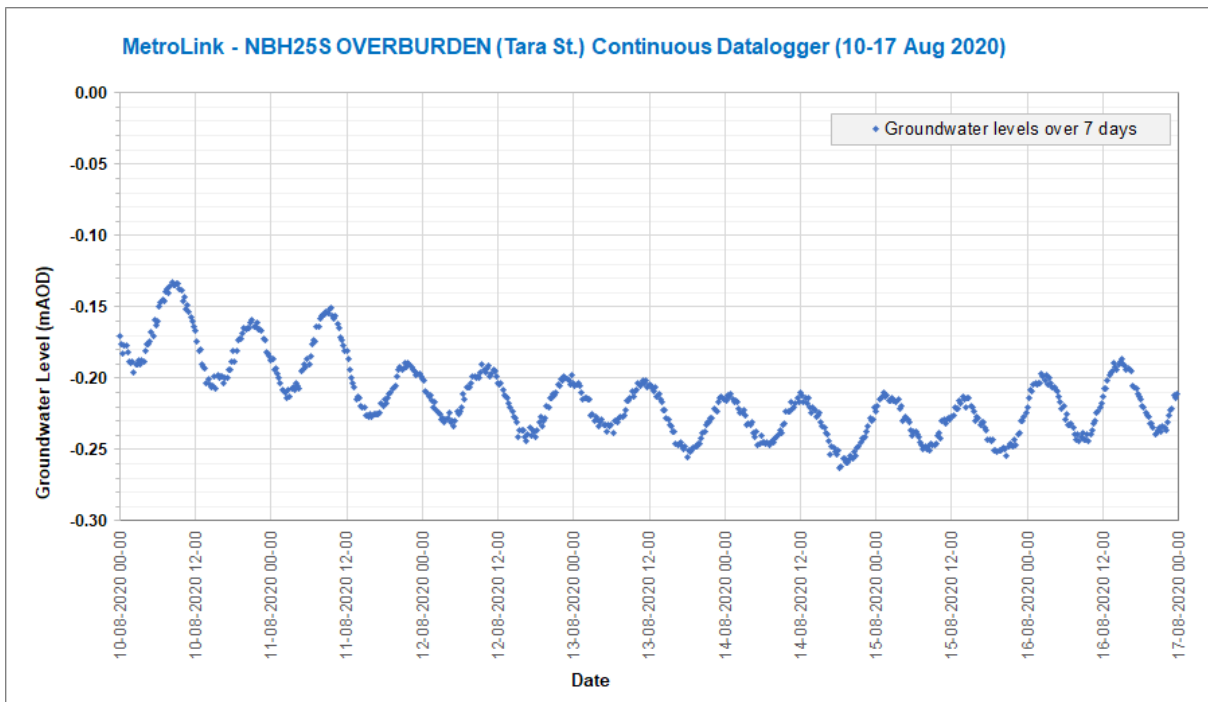
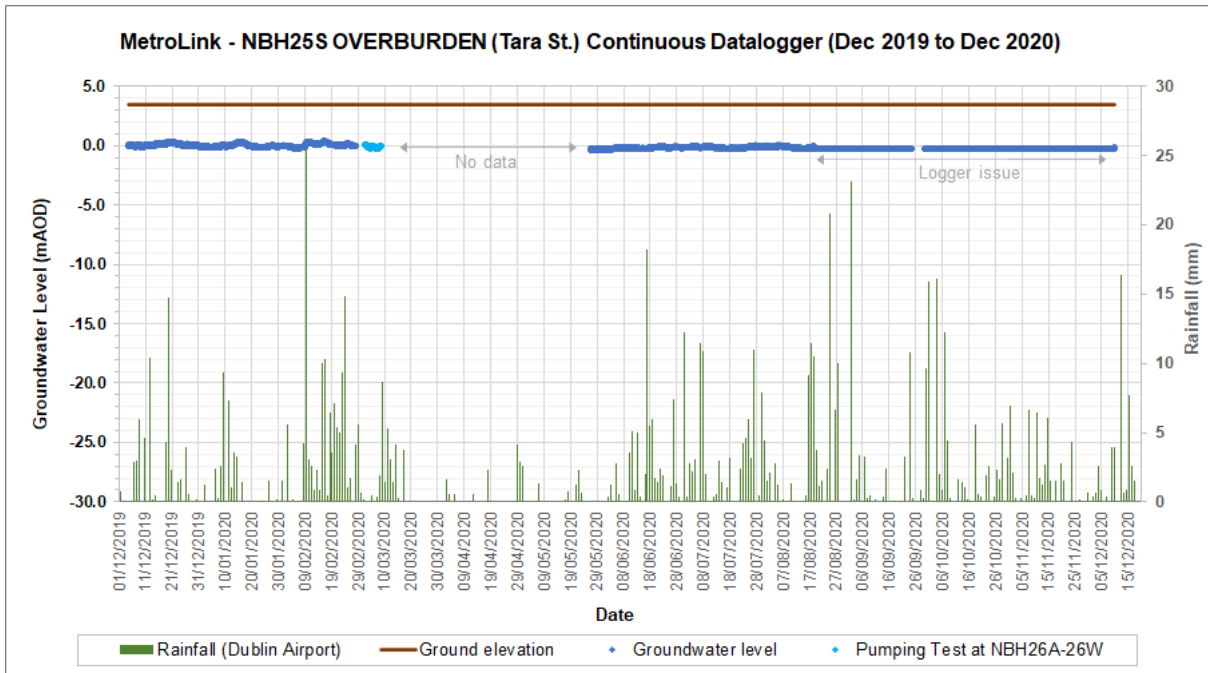


NBH24D Tidal Check – Graph 1

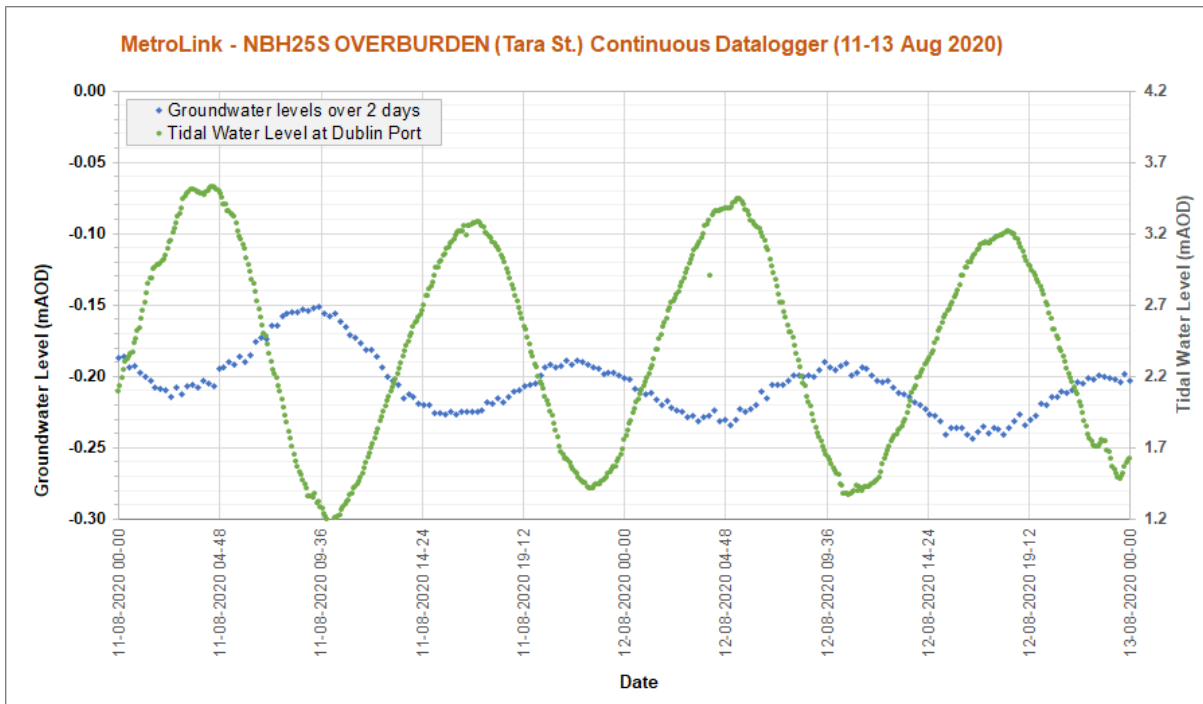


NBH24D Tidal Check – Graph 2

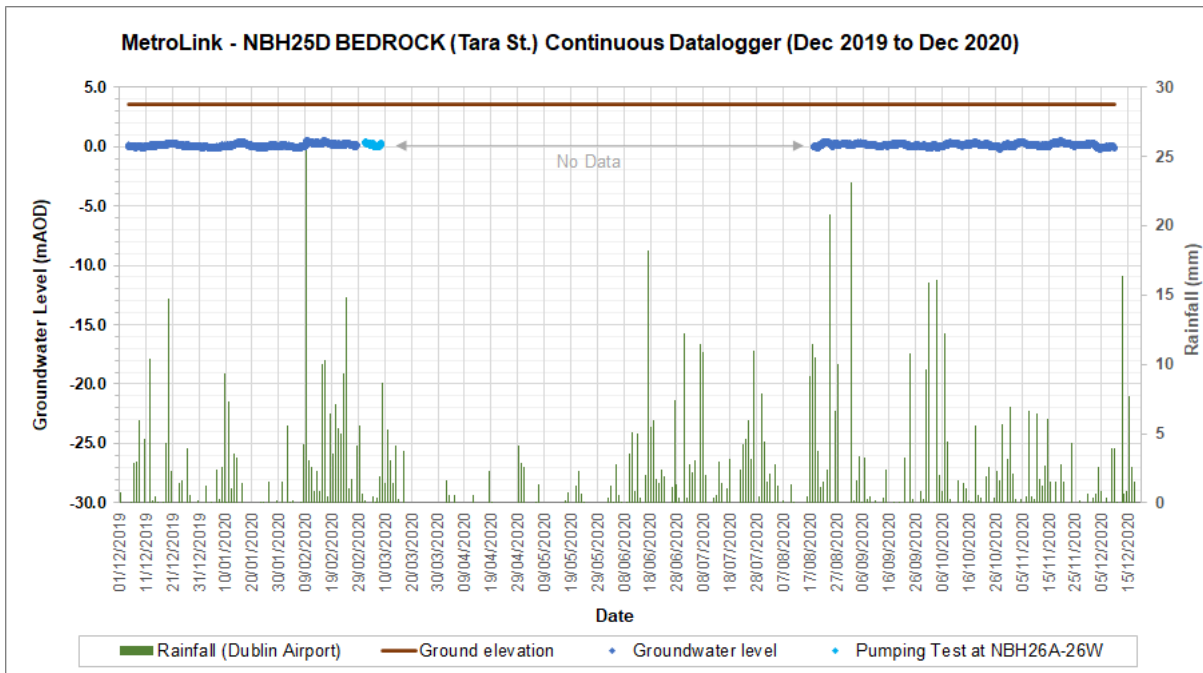
### PHASE 1 – Tara Street Area

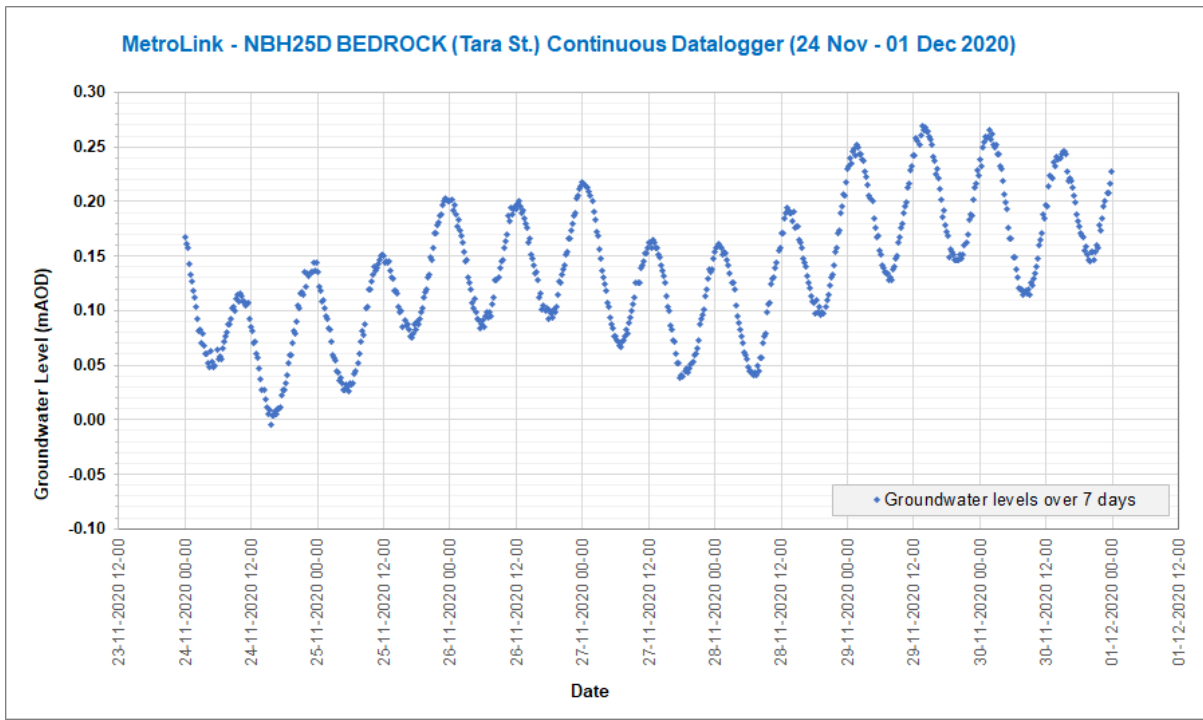


**NBH25S Tidal Check – Graph 1**

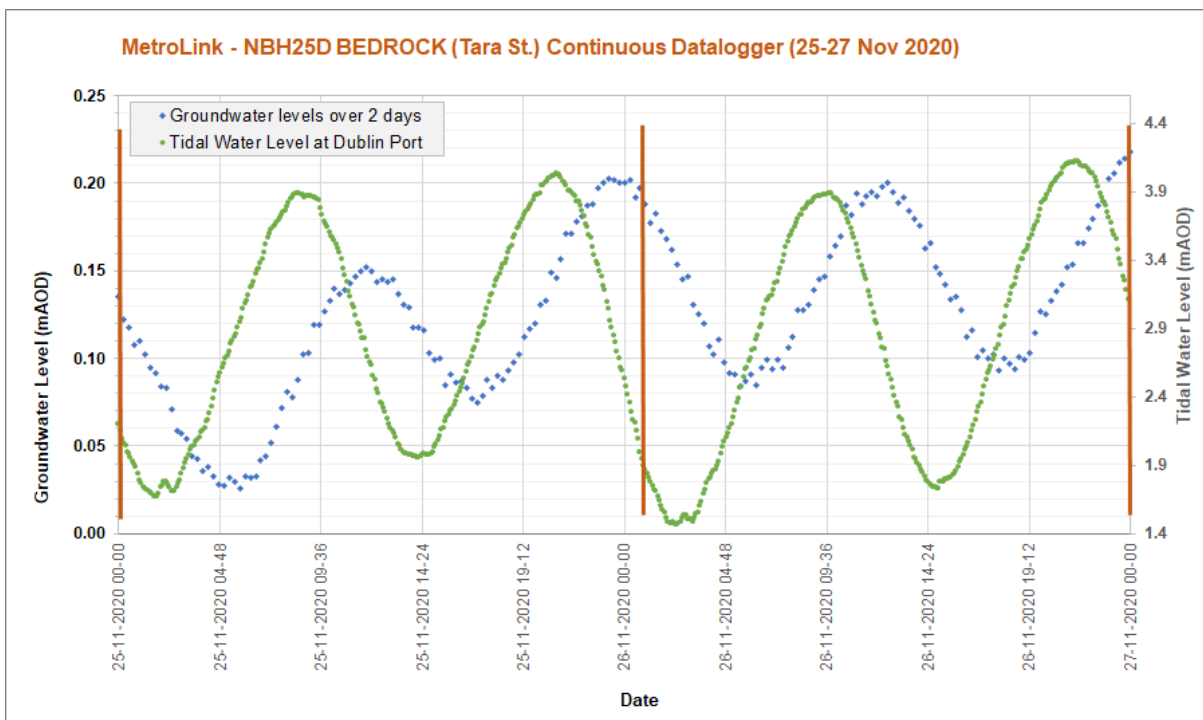


**NBH25S Tidal Check – Graph 2**

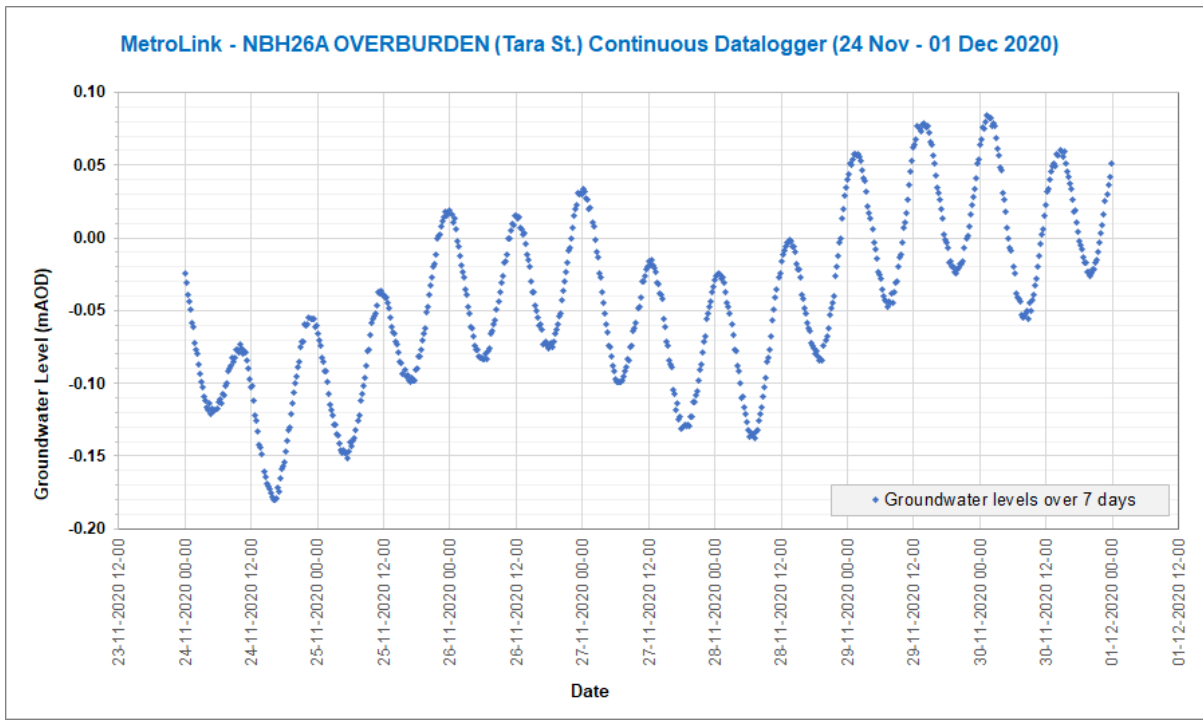
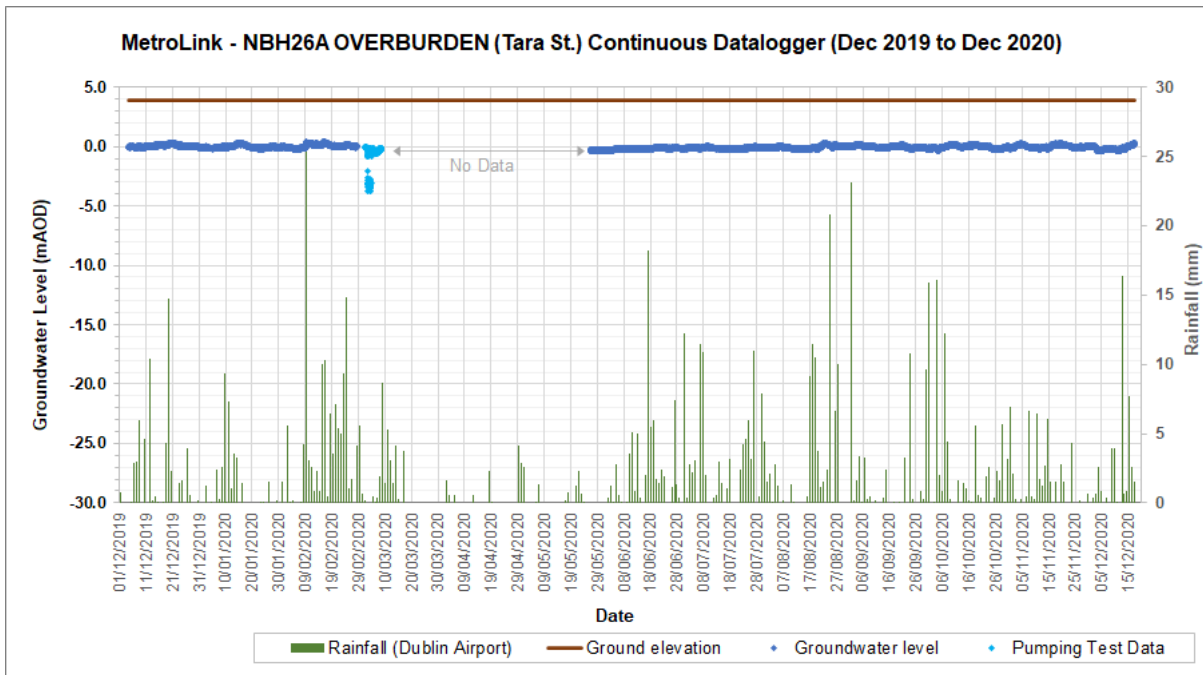




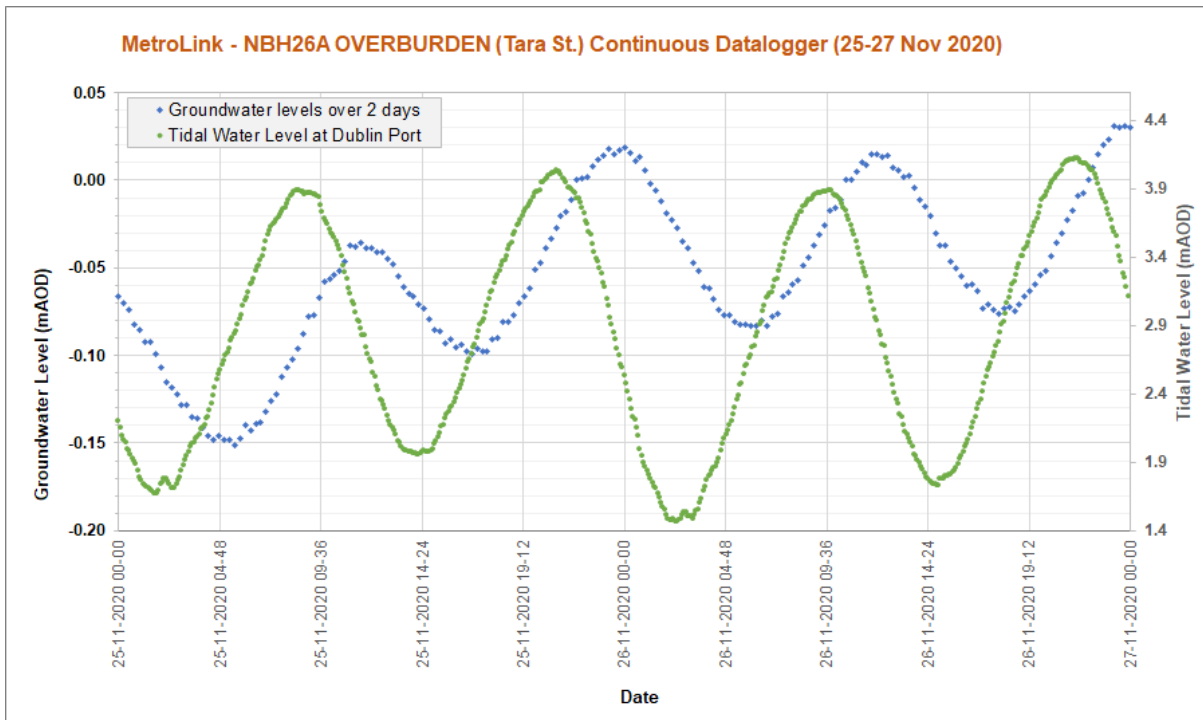
**NBH25D Tidal Check – Graph 1**



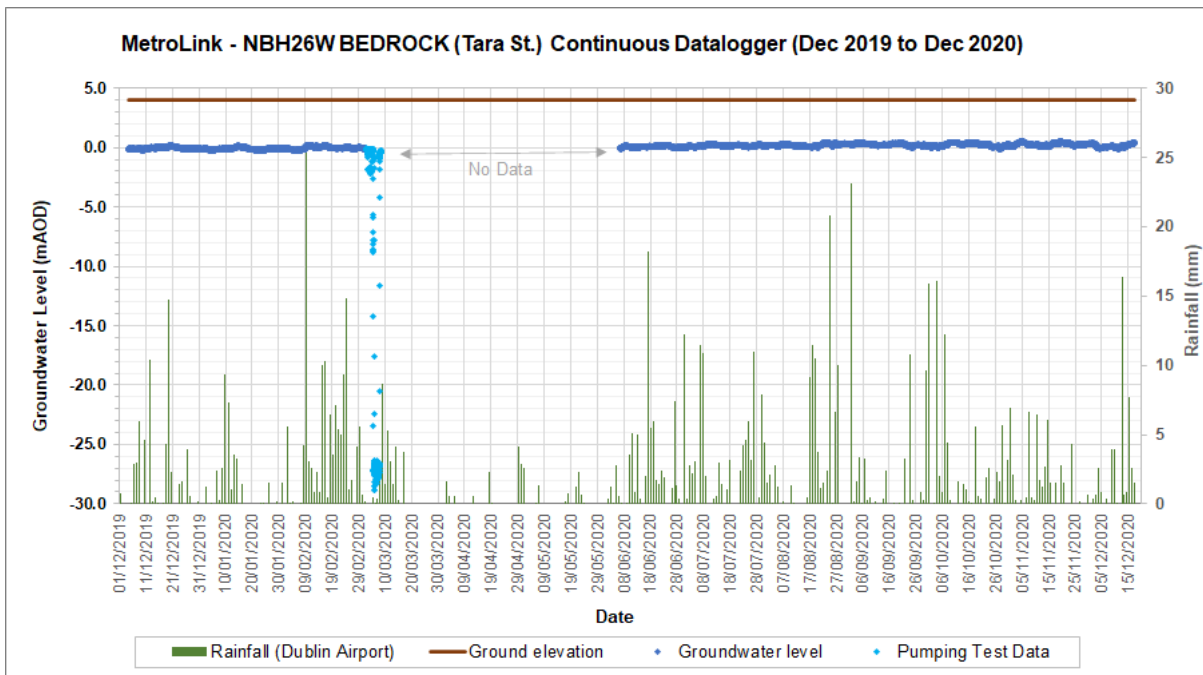
**NBH25D Tidal Check – Graph 2**

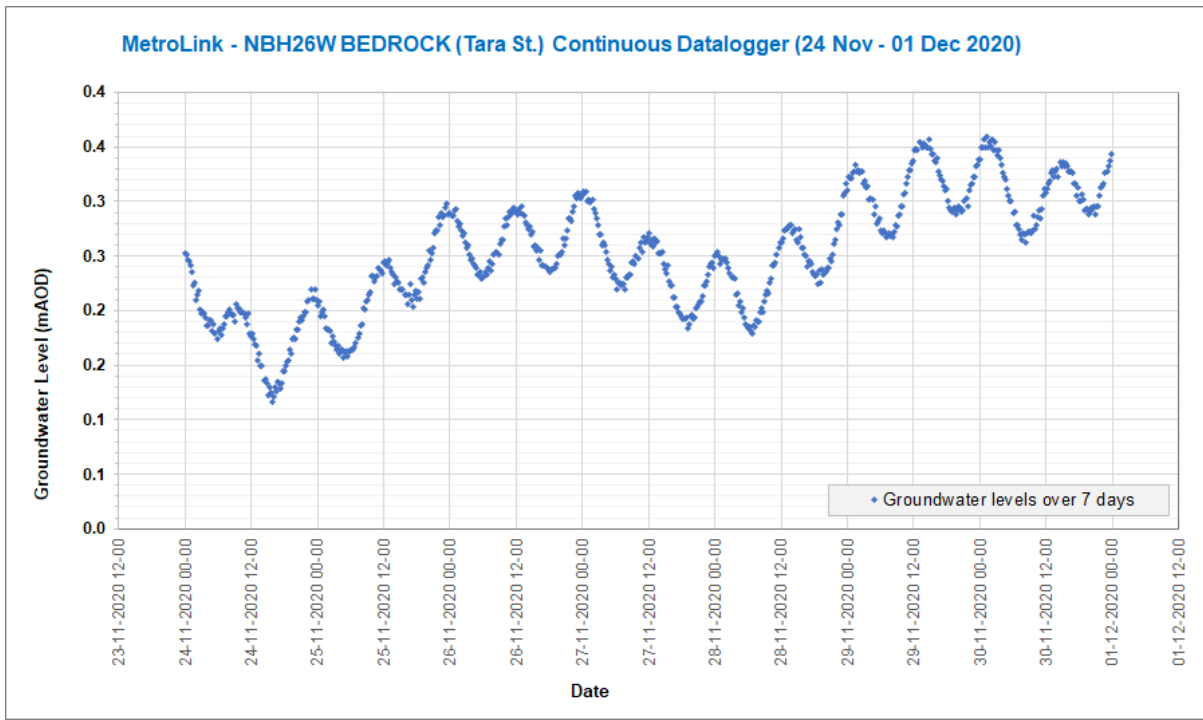


**NBH26A Tidal Check – Graph 1**

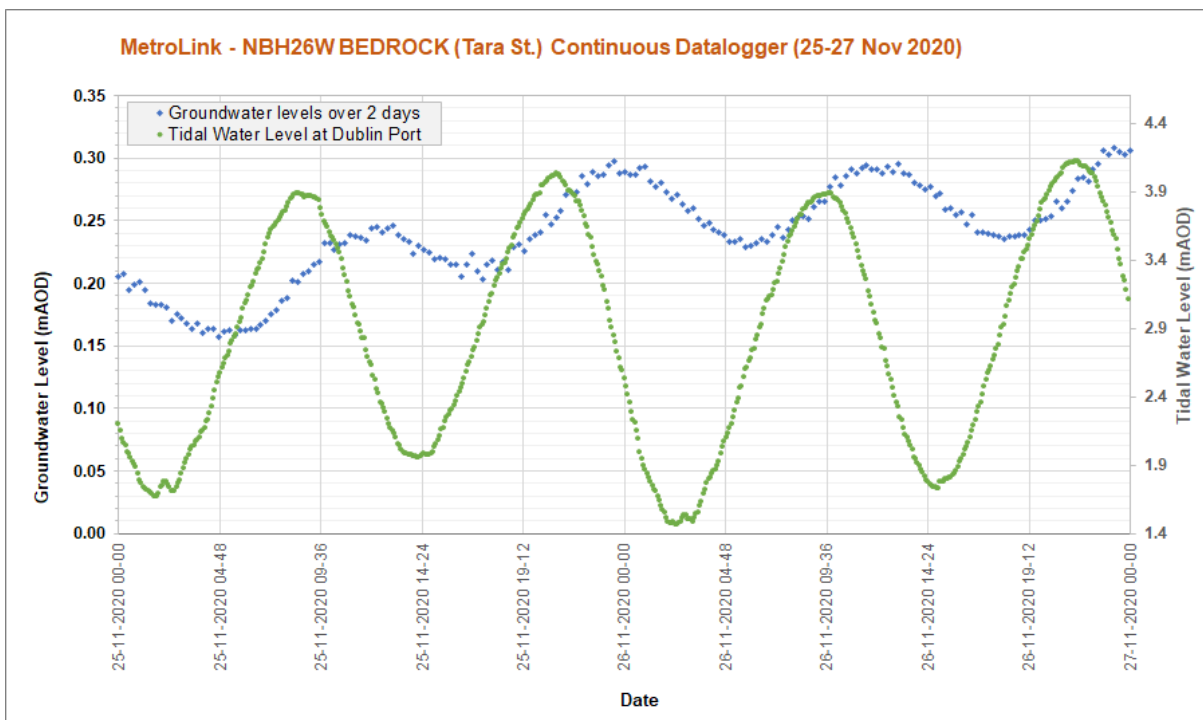


**NBH26A Tidal Check – Graph 2**





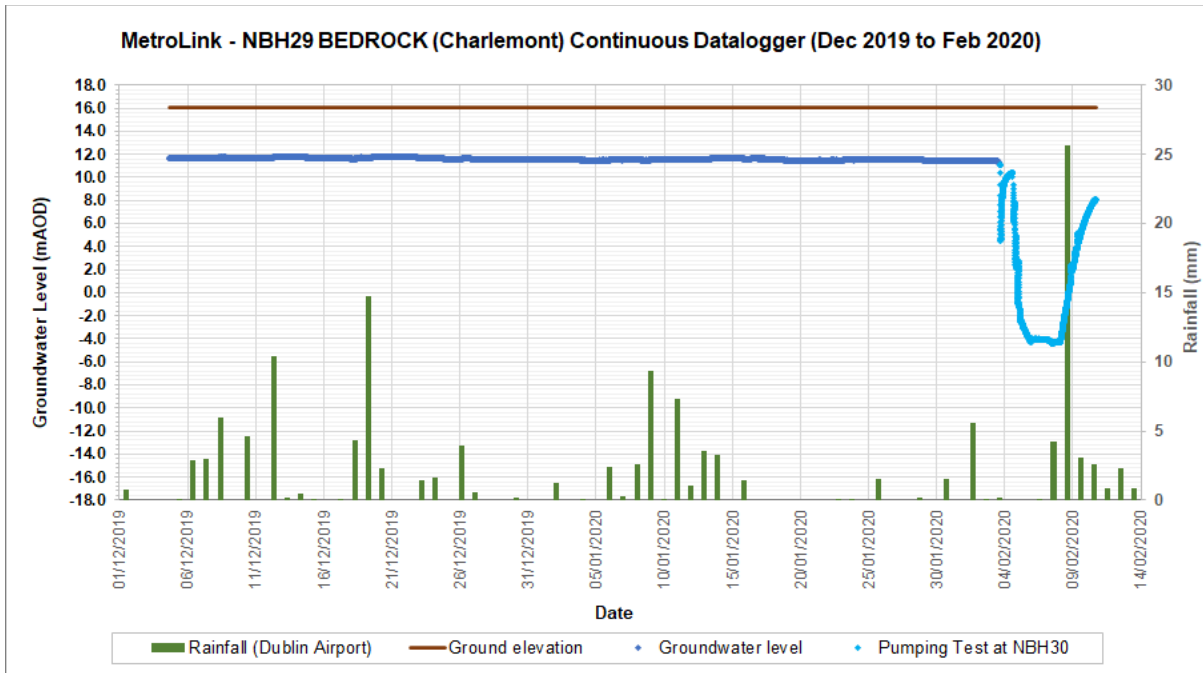
NBH26W Tidal Check – Graph 1



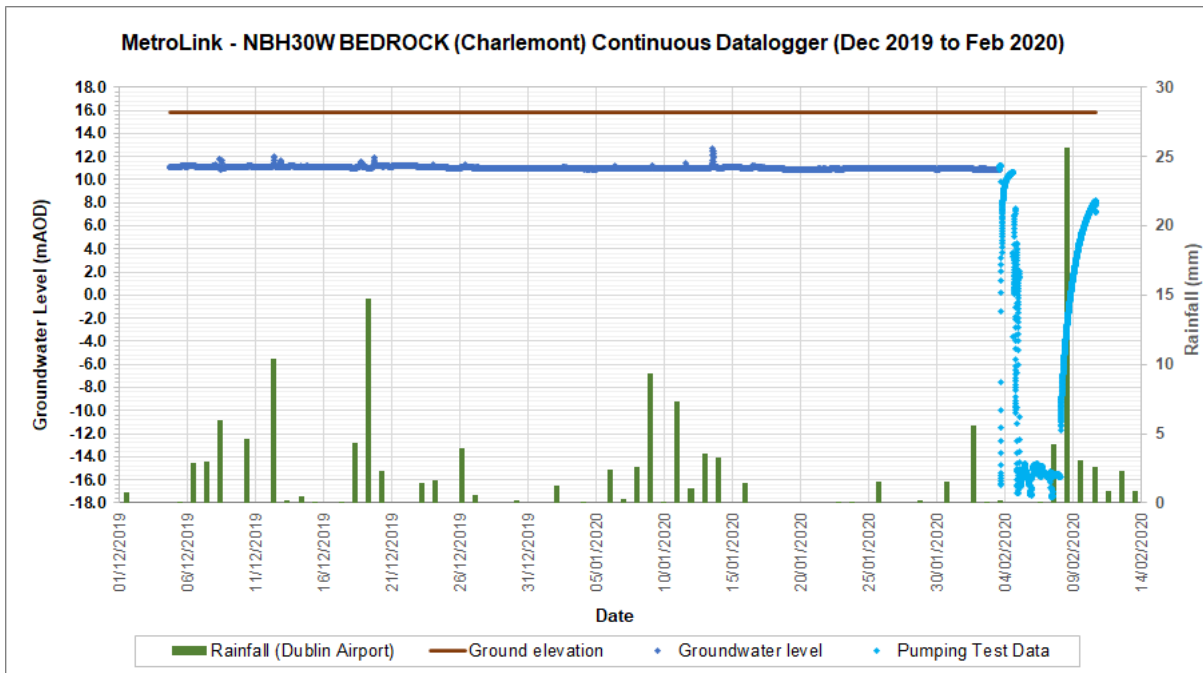
NBH26W Tidal Check – Graph 2



**PHASE 1 – Charlemont Area**

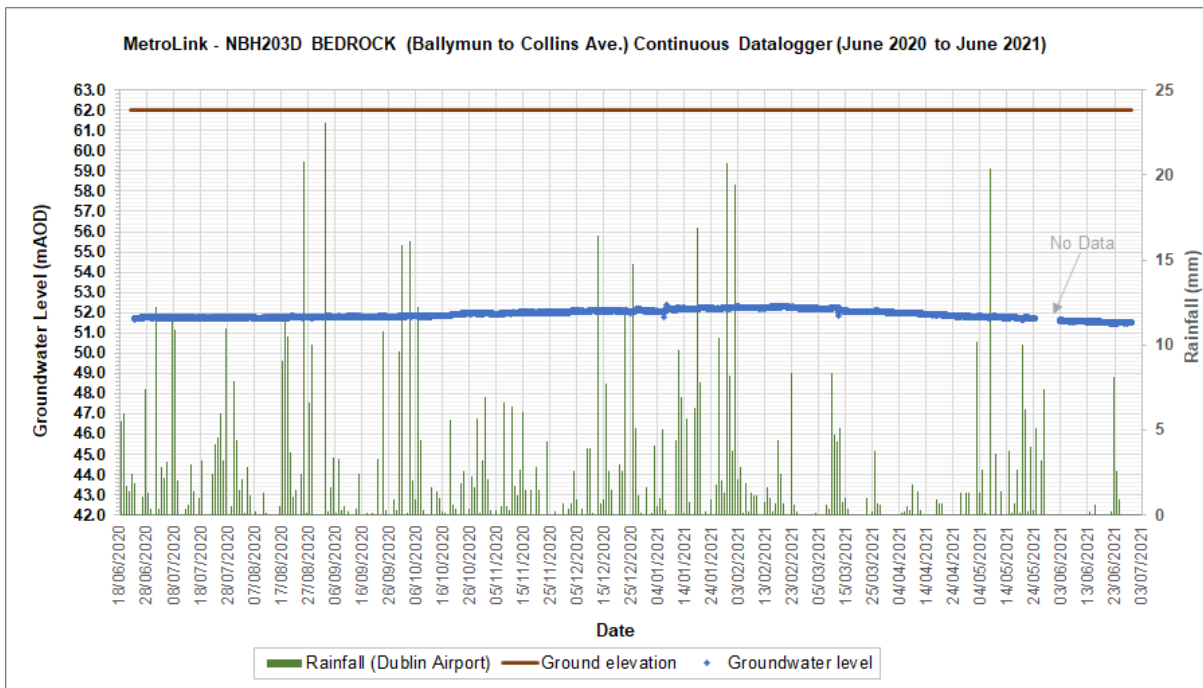
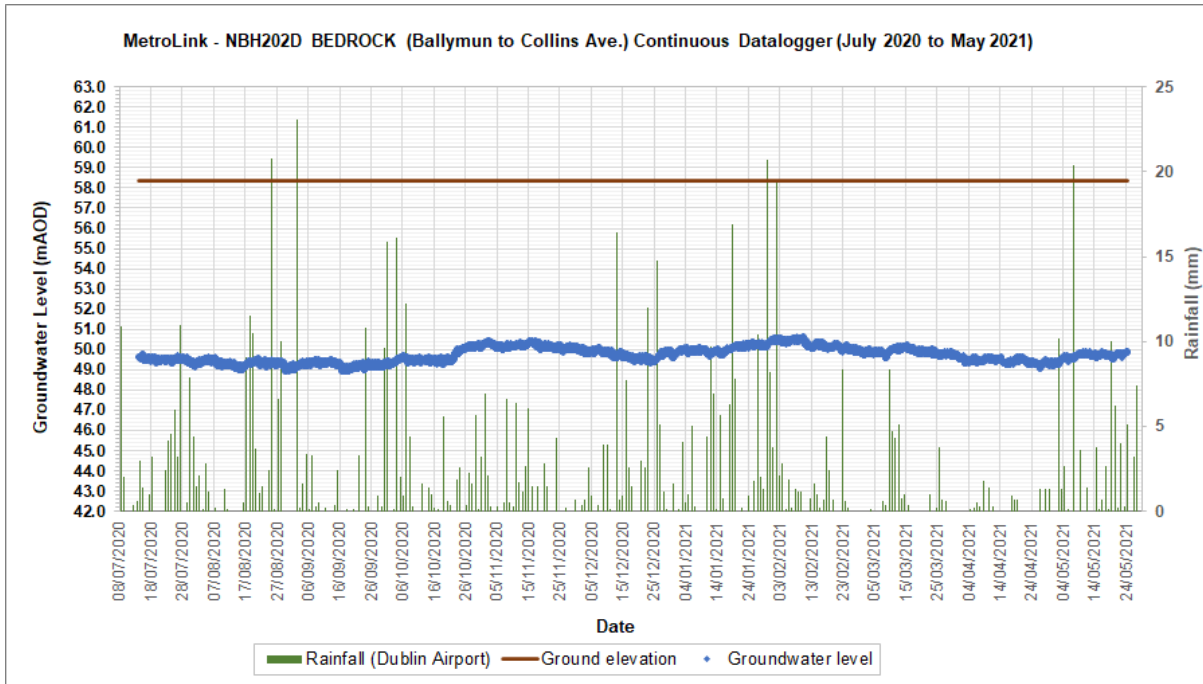


Note: Live construction site; datalogger subsequently removed from borehole NBH29

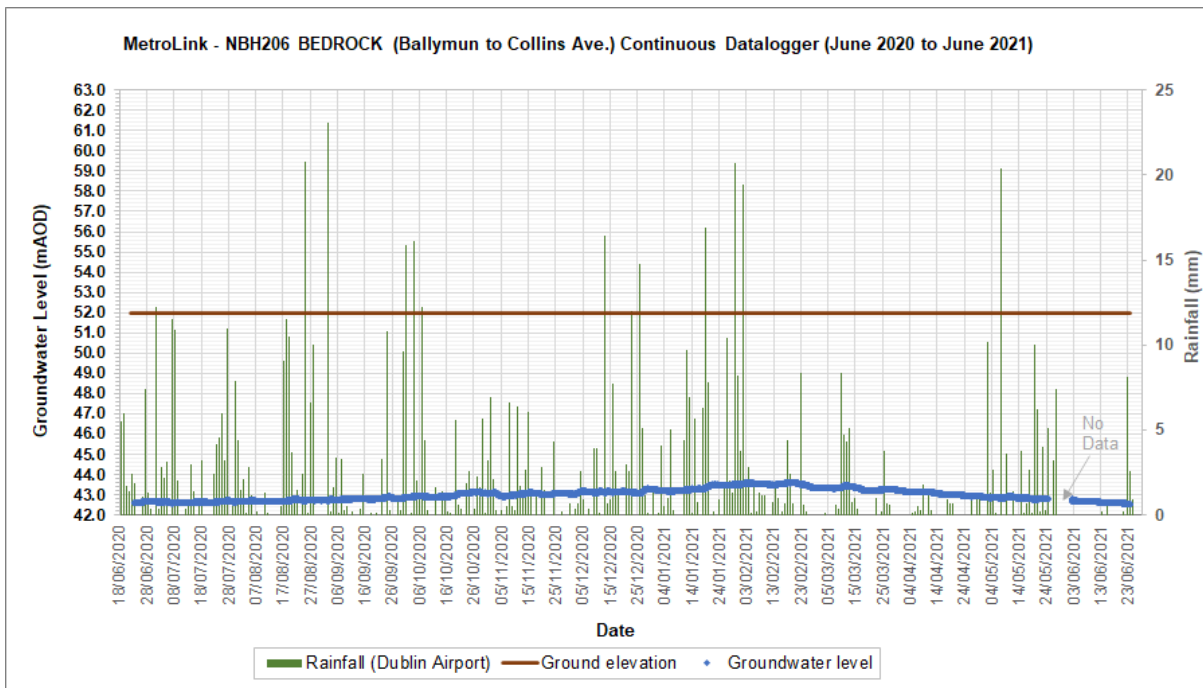
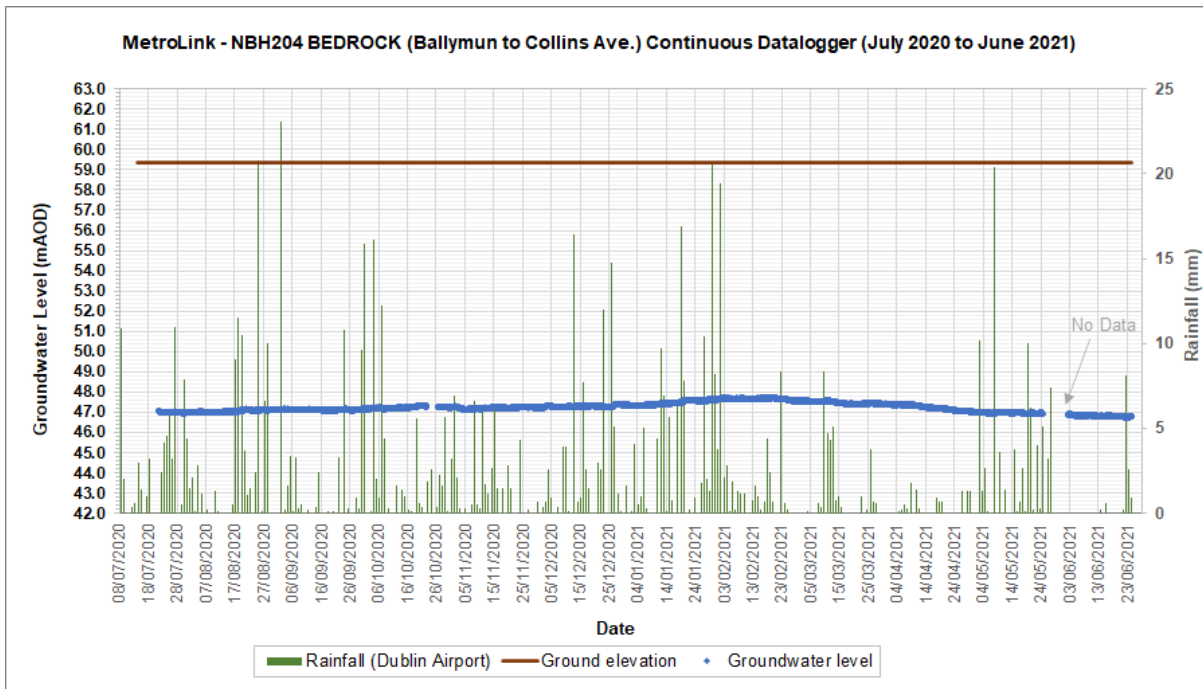


Note: Live construction site; datalogger subsequently removed from borehole NBH30W

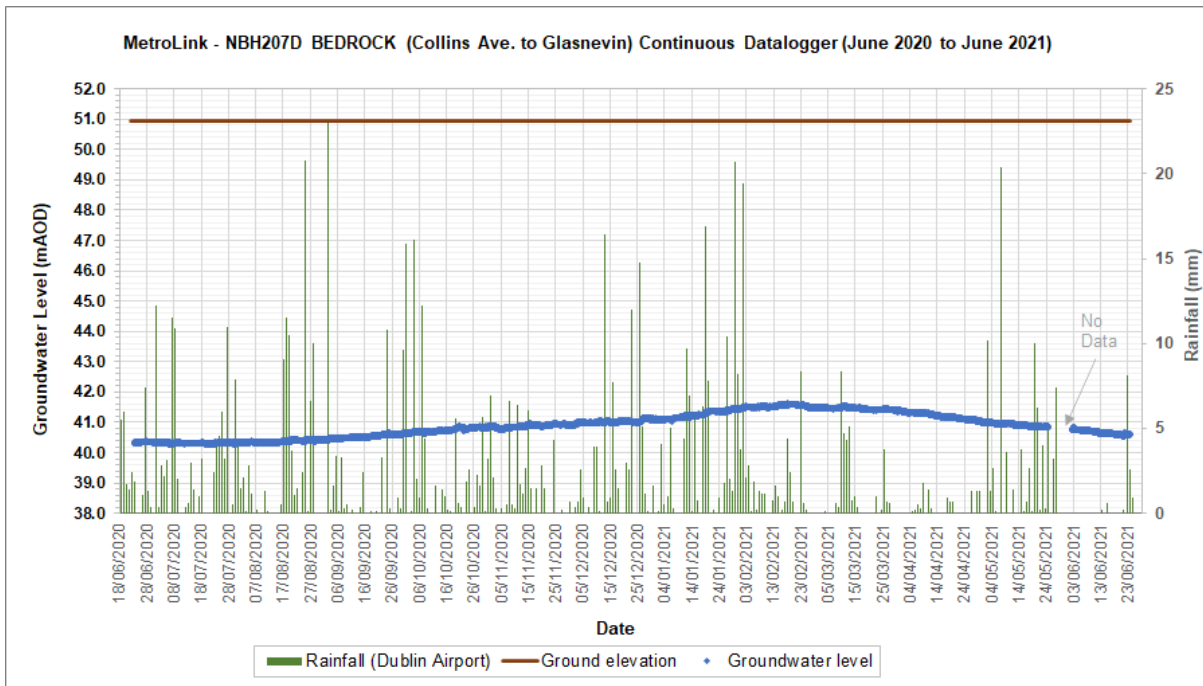
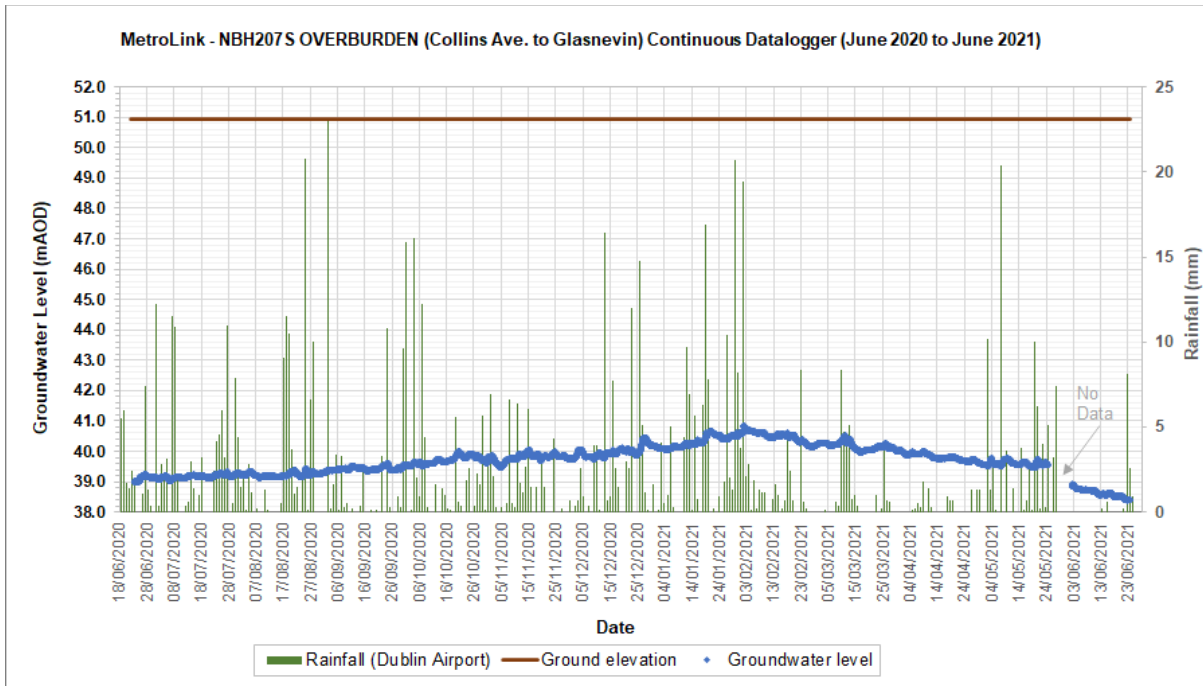
### PHASE 2 – Ballymun to Collins Avenue Area



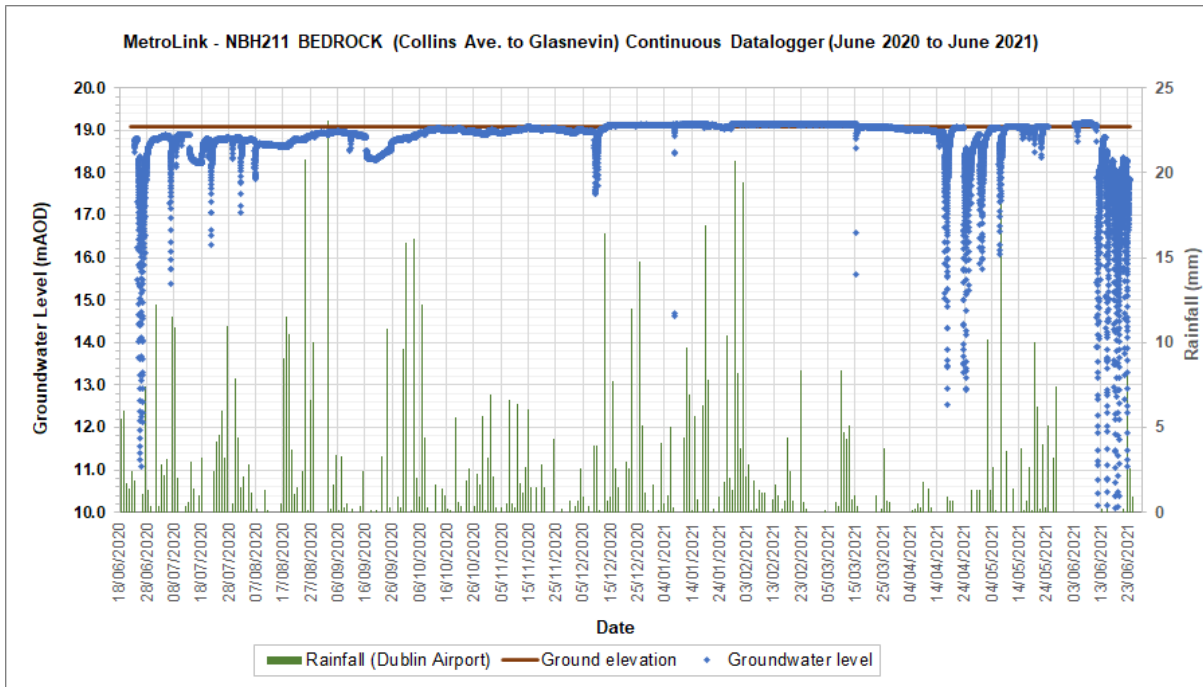
Note: Drop in water level shown for January 2021 and March 2021 are related to groundwater sampling.



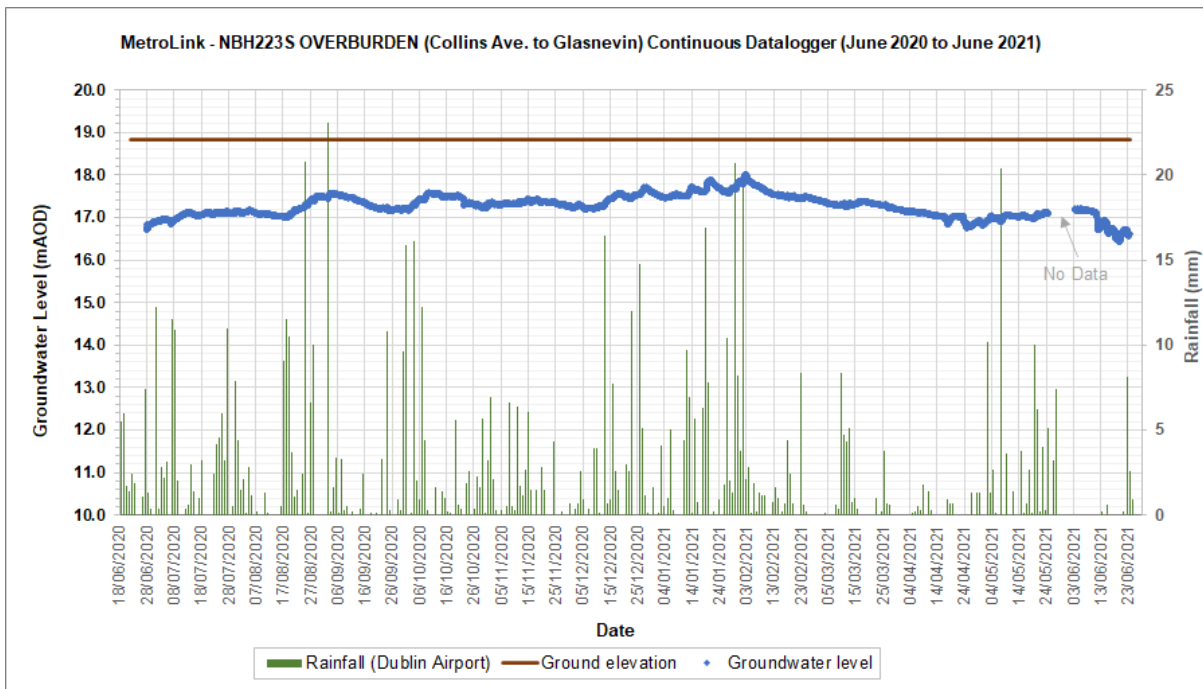
### PHASE 2 – Collins Avenue to Glasnevin Area (Albert College/ DCU)

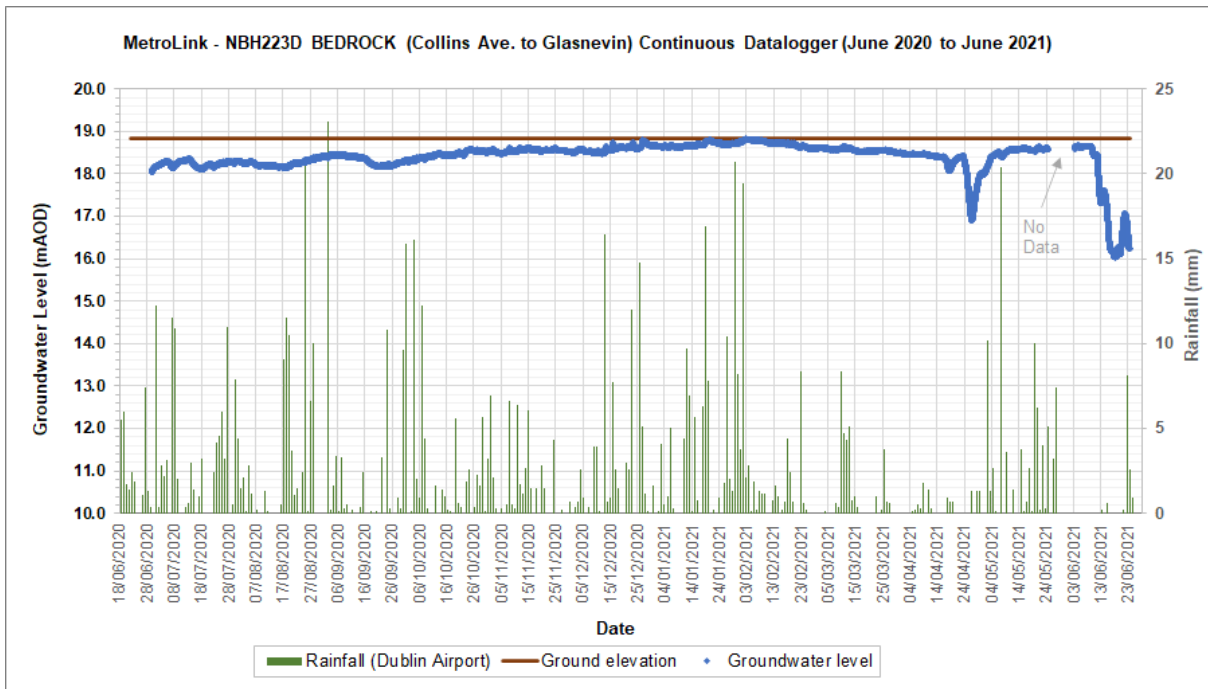


**PHASE 2 – Collins Avenue to Glasnevin Area (Griffith Avenue)**

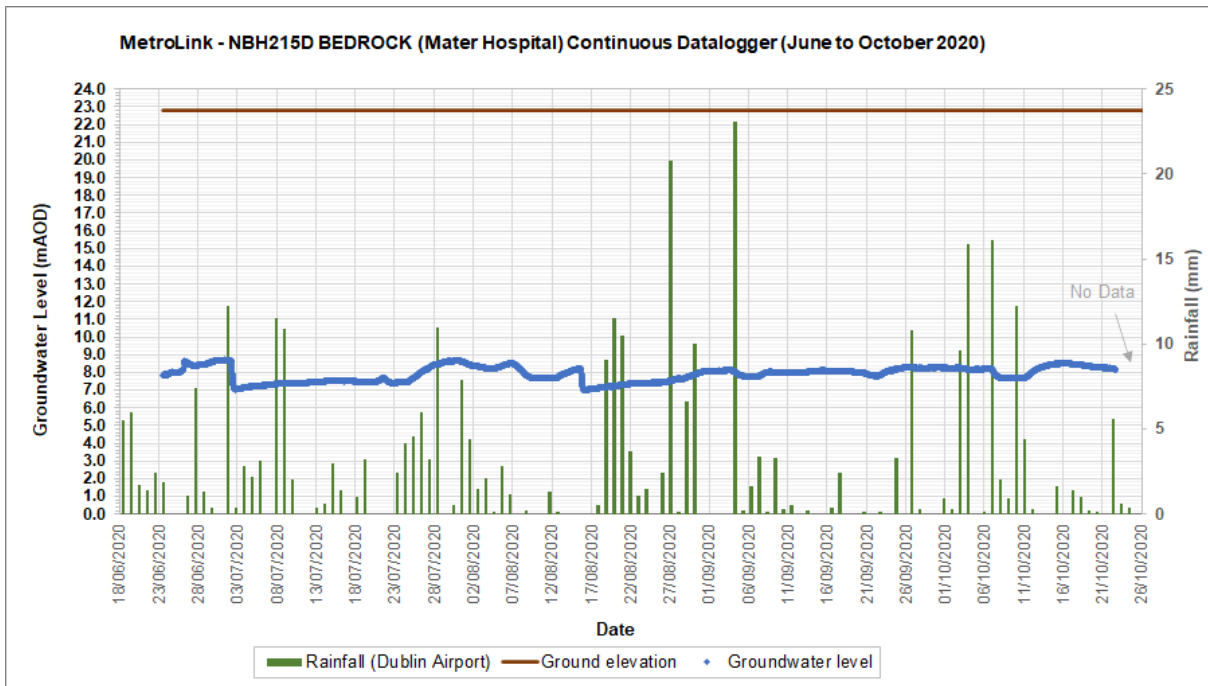
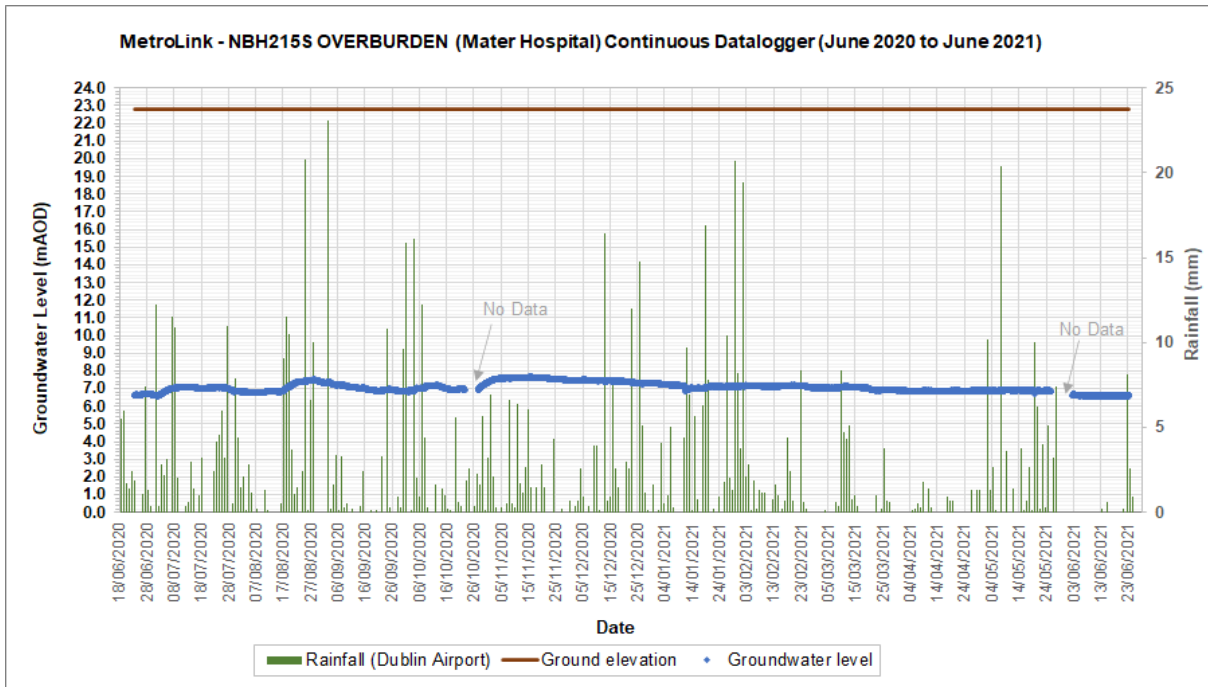


*Note: Pumping nearby monitoring well NBH211 by landowners for irrigation of football pitches presents an obvious connection here. The well is also subject to temporal ‘artesian’ flow when not pumped.*

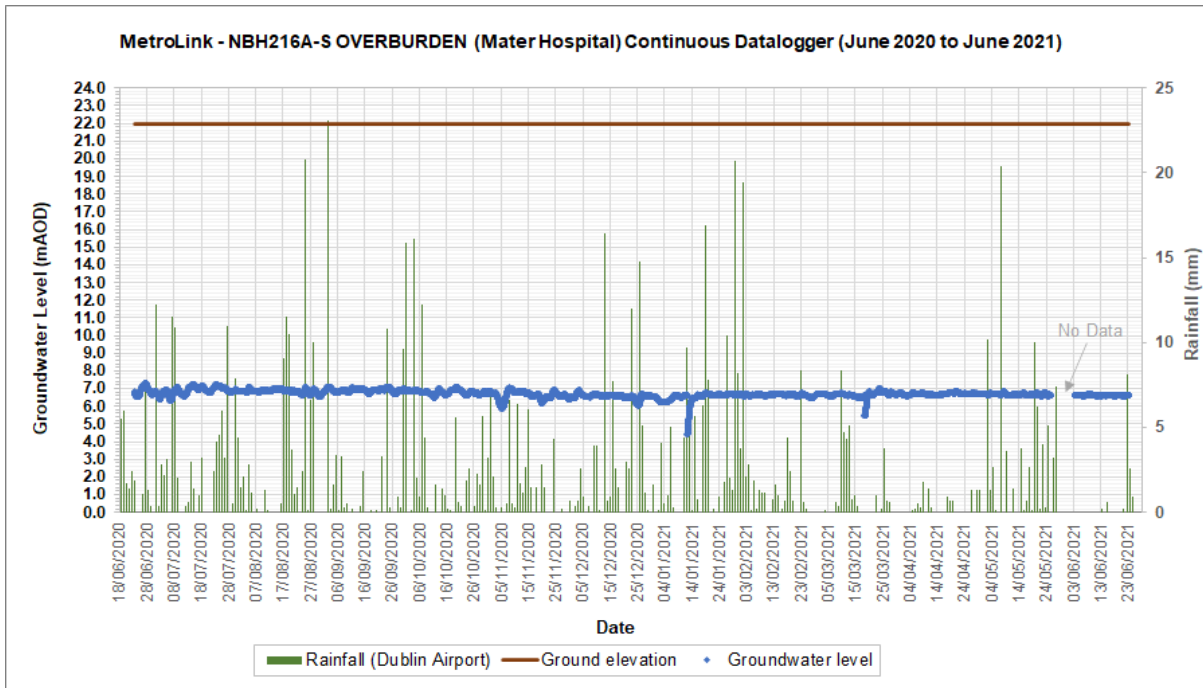




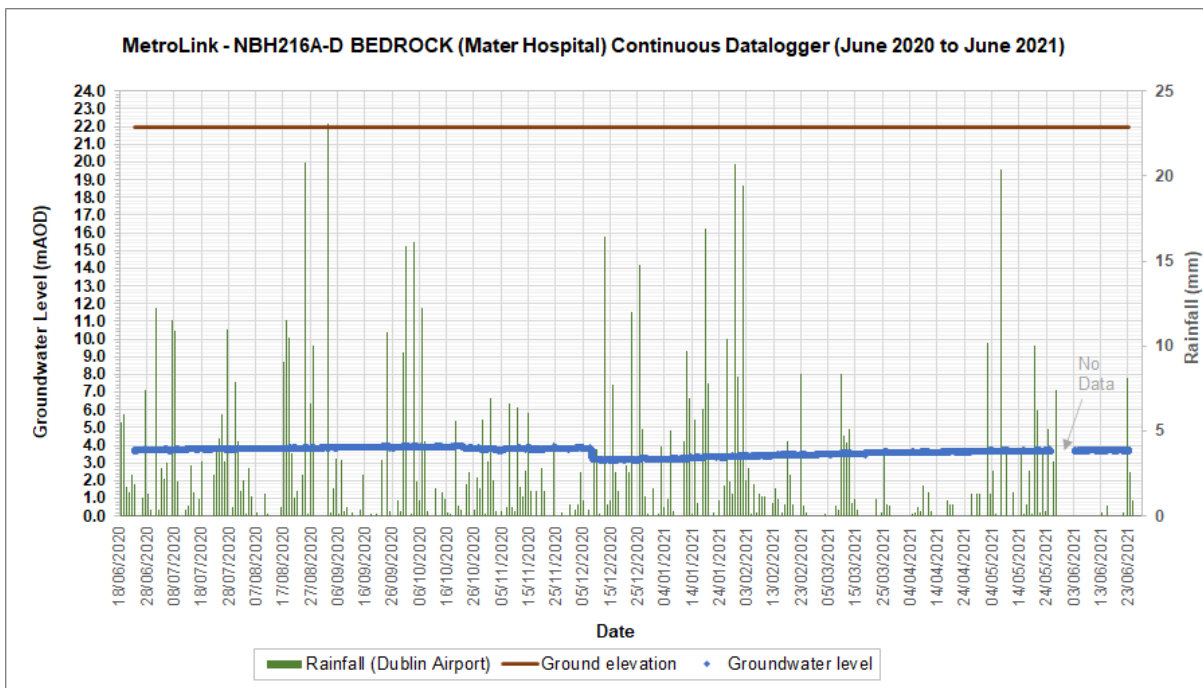
### PHASE 2 – Mater Hospital Area







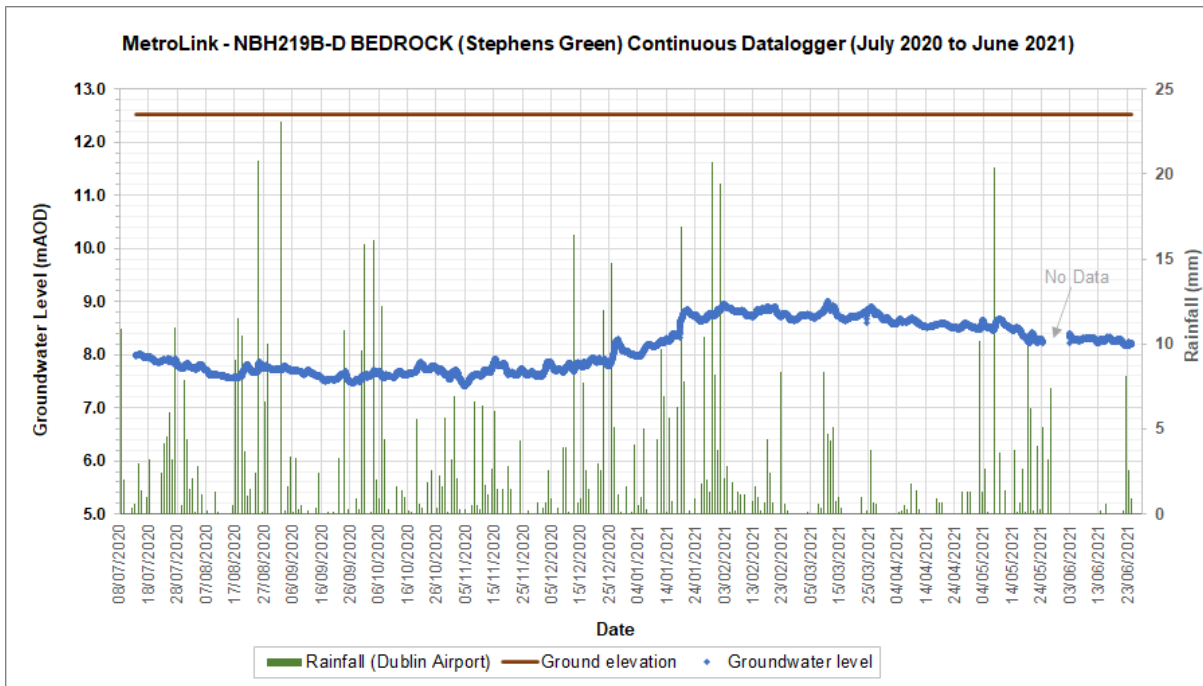
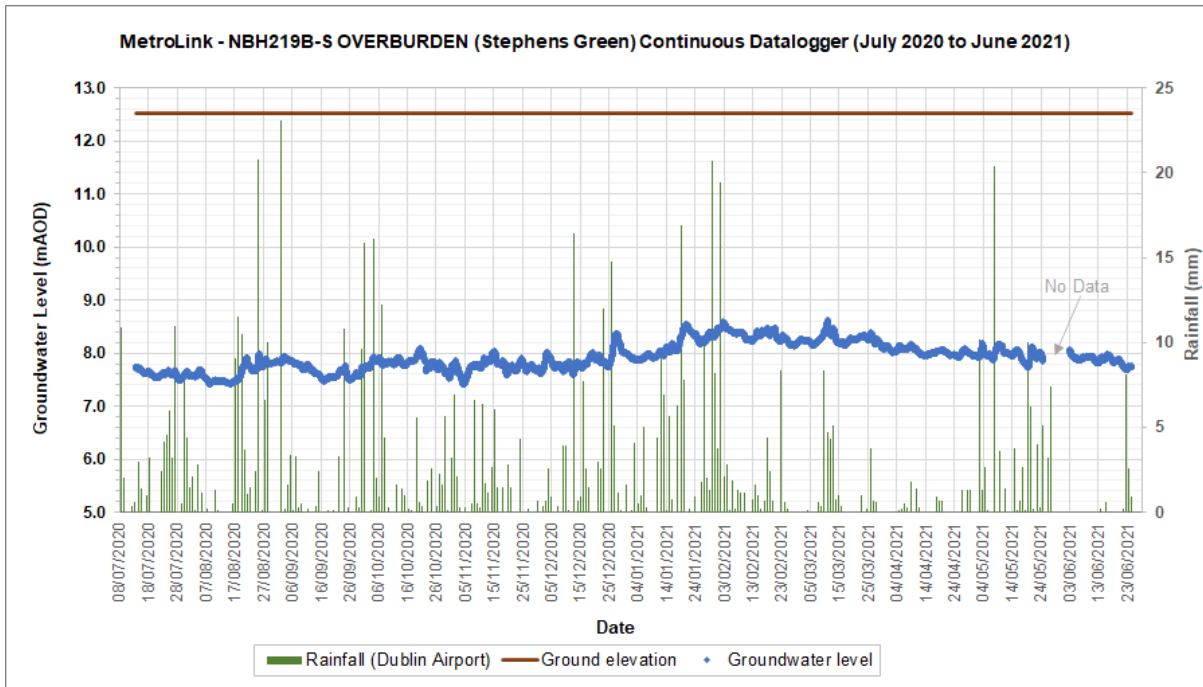
Note: Drop in water level shown for January 2021 and March 2021 are related to groundwater sampling.

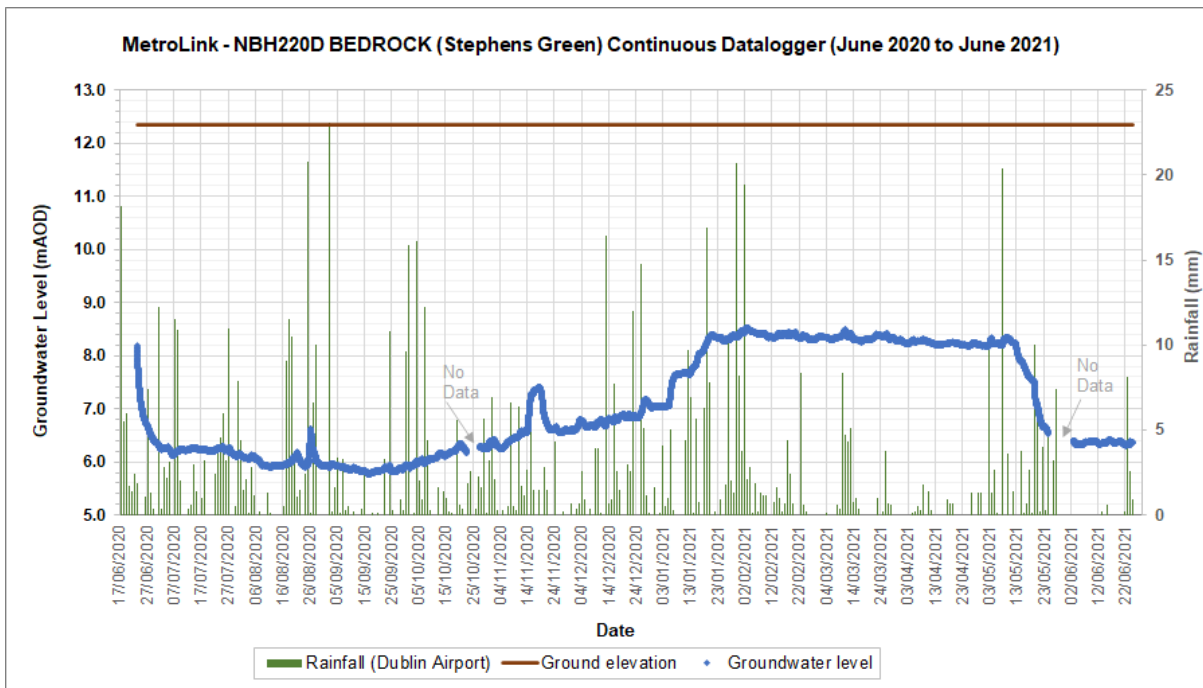
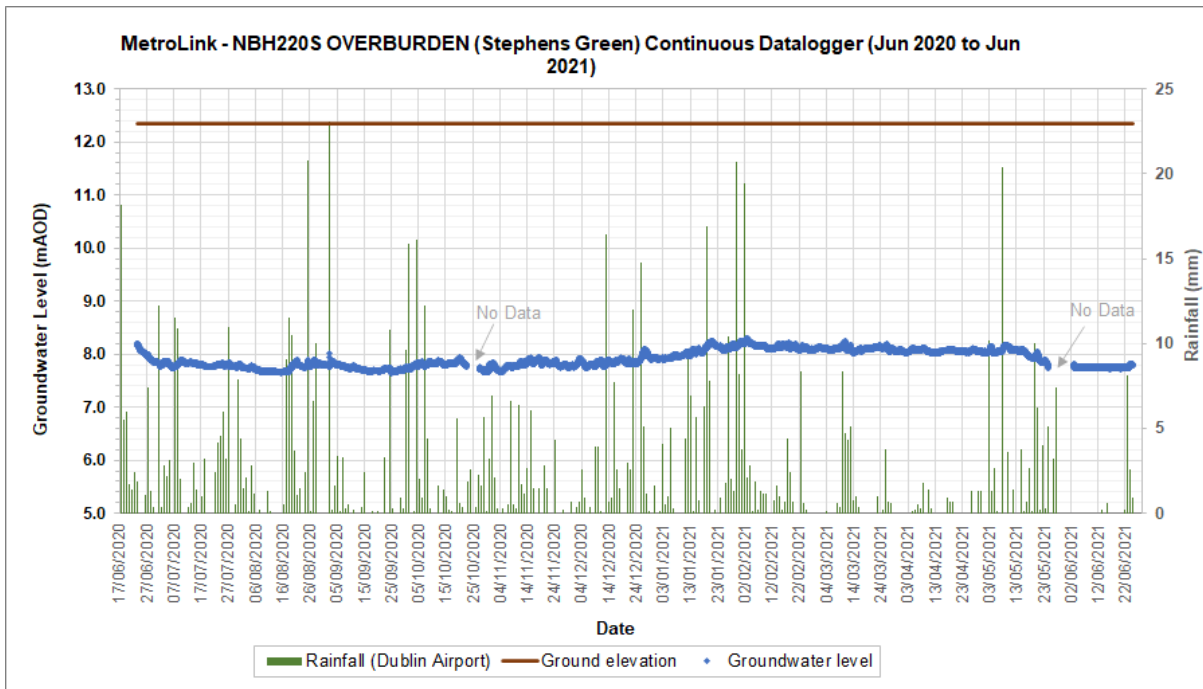


Note: Drop in water level shown for December 2020 does not correspond to a groundwater sampling event.

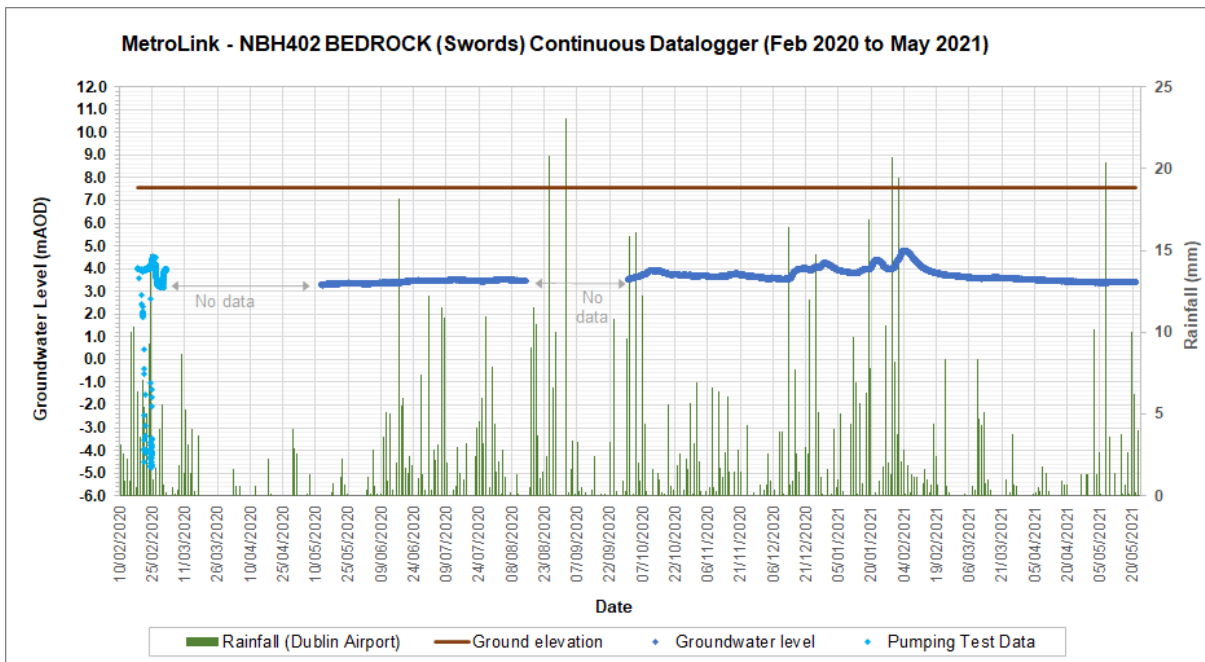
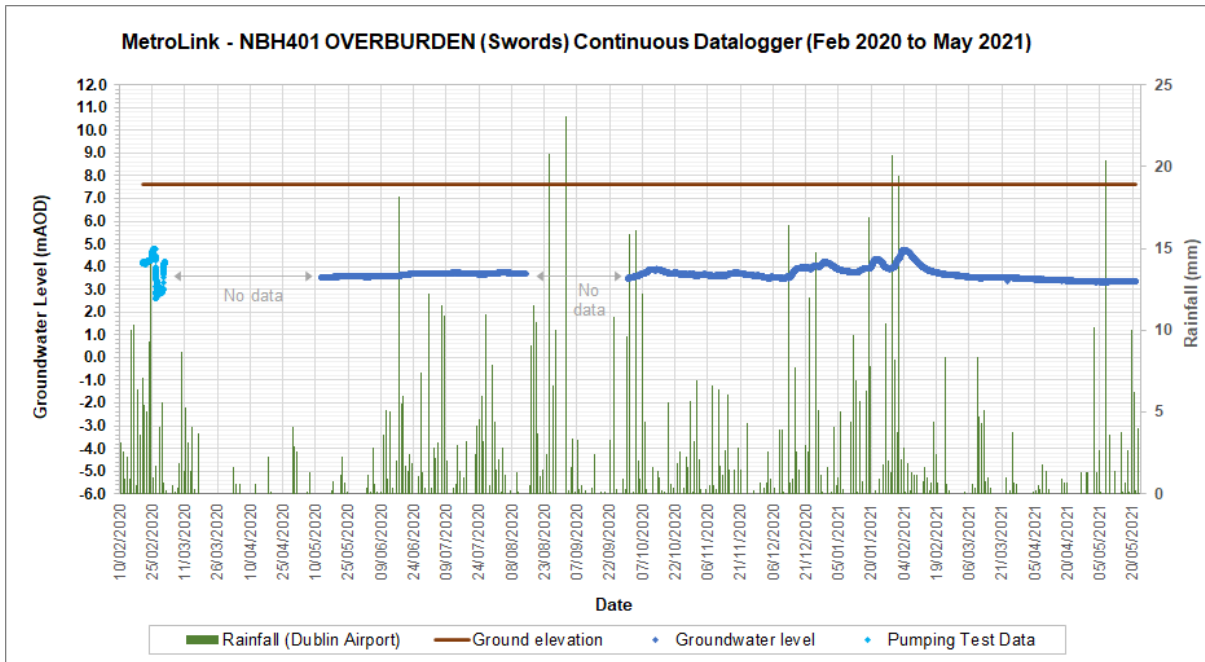


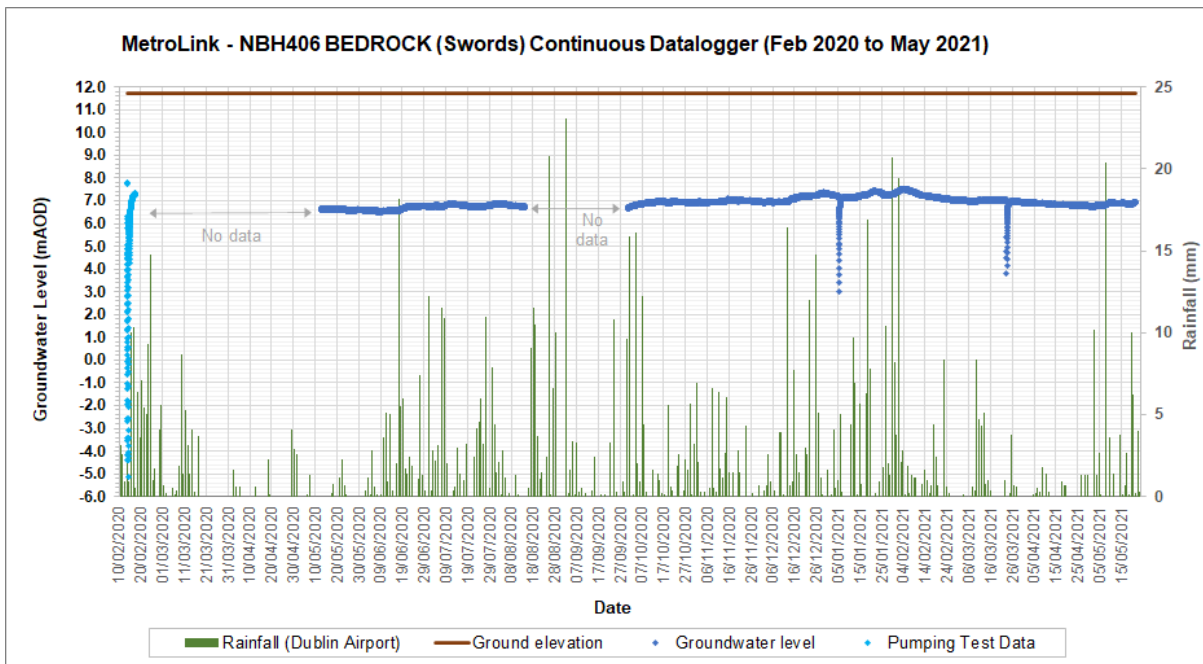
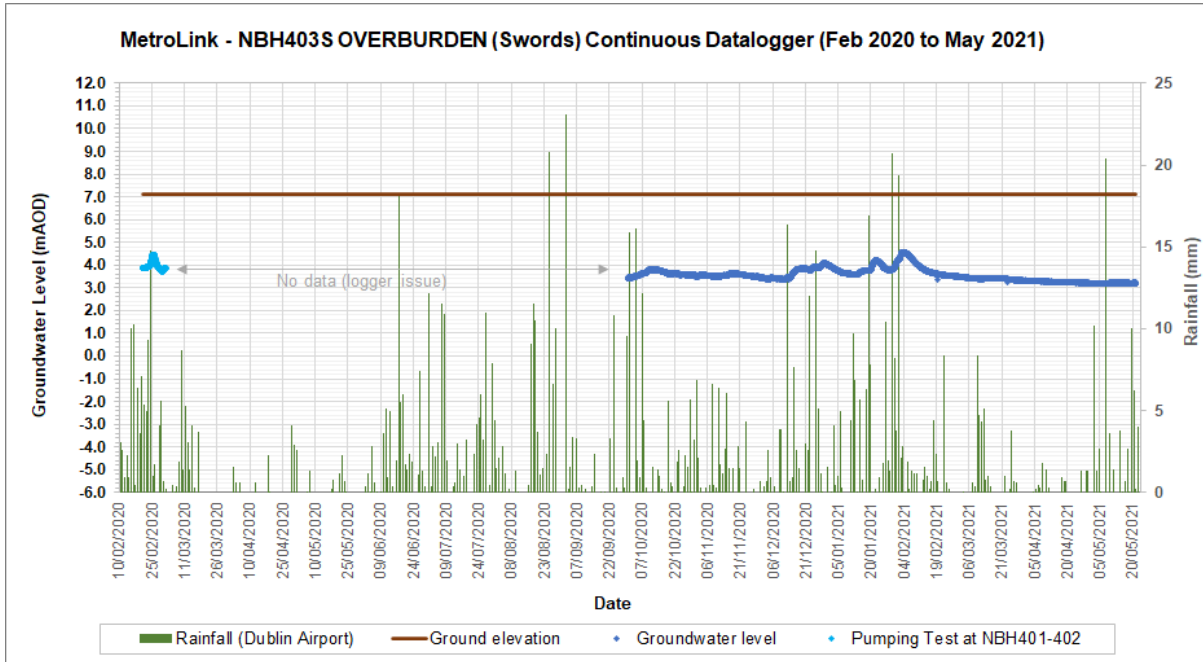
### PHASE 2 – Stephens Green Area



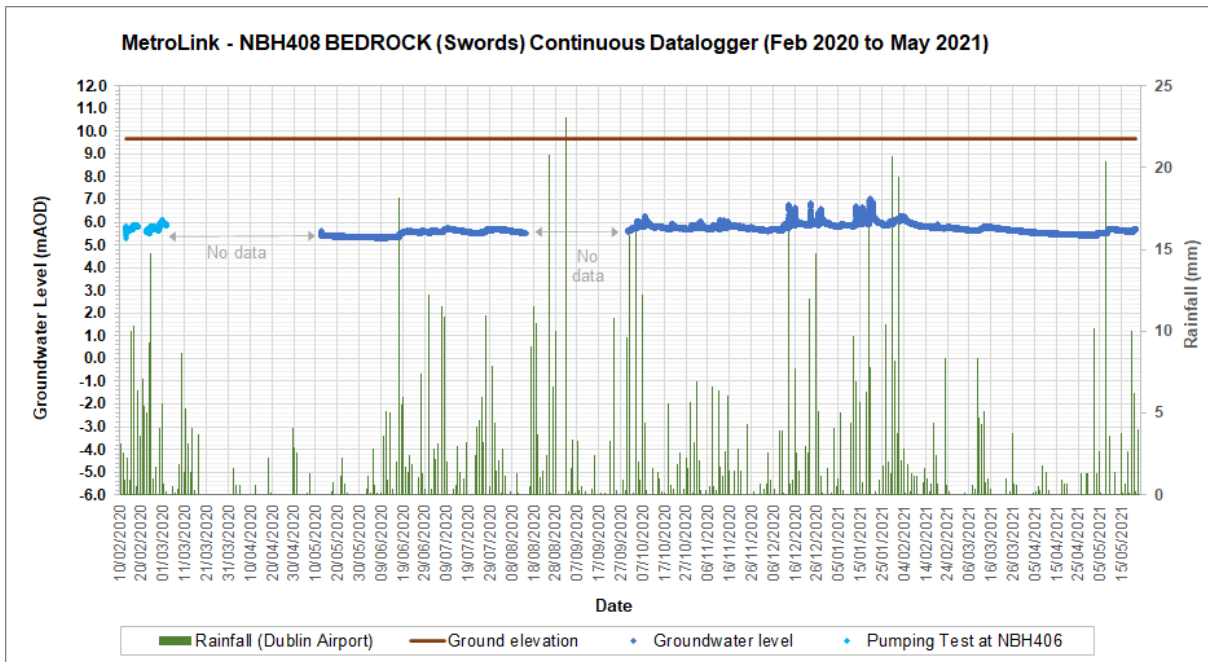


### PHASE 3 – Swords Area





Note: Drop in water level shown for January 2021 and March 2021 are related to groundwater sampling.



### PHASE 4 – Glasnevin Area

