

# Article 161- Self Service Portal

## Required documents

### Drainage Approval

**Site Location Plan** - 1:1250 / 1:2500 Map showing the site boundary outlined in red, any other land owned by the Developer outlined in blue and any public right of way outlined in green.

**Greenland Map** - 1:1250 / 1:2500 Map showing the area of land owned by the Developer, where drainage will be laid, outlined in green.

**Stat Charges Map** - 1:1250 / 1:2500 Map showing the area of land served by the drainage constructed by the Developer (inclusive of third party lands) outlined in red.

**Land Registry Map** - to be dated within 3 months prior to date of application for the Article 161.

**Land Registry Folio** - to be dated within 3 months prior to date of application for the Article 161.

**Drainage Layout** - proposed drainage layout, with drainage being offered for consideration colour coded as per the Sewers for Adoption NI current edition.

**Drainage Long Sections** - Levels to Ordnance Datum (Belfast).

**Flow Control Manhole Detail** - where applicable.

**Hydraulic Calculations** - In Causeway Flow (.pfd) or Microdrainage (.mdx) format and in accordance with NIW Sewers for Adoption (NI) current edition. No other format will be accepted.

**Drainage Area Catchment Plan** - to indicate contributing areas for each leg of storm sewer.

**Geocellular Tank Design** - where applicable. (see Appendix B below for checklist).

**Pumping Station Design** - where applicable. Including Layout, Sections, Panel Drawing and Pump Selection in accordance with the current Pumping Station Specification.

**Treatment Works Design** - where applicable. In accordance with the current Wastewater Treatment Works Specification.

**Consent to Discharge** - where applicable, if it is proposed to discharge the storm drainage to the sea or a lough. Consent is required from the associated governing body.

**Schedule 6 Discharge Consent** - where applicable, if the proposed storm drainage is proposed to discharge to a watercourse. Consent is required from DfI Rivers.

**Streetworks License** - where applicable. Consent is required from DfI Roads.

**NIEA Water Order Consent** - where applicable, for proposed Wastewater Pumping Stations or Wastewater Treatment Works.

**Building Control Approval** - where applicable, if the storm runoff from individual properties are proposed to discharge to individual / private soakaways.

### Drainage Adoption

**As Constructed Drainage layout** - to include the drainage covered under the Article 161 Agreement and Manhole schedule, with Cover levels and invert levels to Ordnance Datum (Belfast).

**As Constructed Wastewater Pumping Station or Wastewater Treatment Works WPS / WWTW Site layout** - where applicable, to include the Operations & Maintenance Manual.

**ACE Map** - required for a Wastewater Pumping Station or Wastewater Treatment Works, indicating the boundary which will form part of land transfer procedures, with the land to be transferred to be outlined in red and right of way outlined in yellow.

**Asset Records Return (BUDI Return)** - where applicable, for a Wastewater Pumping Station or Wastewater Treatment Works, to be completed by the M&E provider prior to final adoption.

**CCTV Survey & Report** - a link to a recent, relevant CCTV survey and associated report, by a Northern Ireland Water approved CCTV provider must be included within the application, after it has been checked for completeness and that there are no defects.

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## Required documents - Appendix B

### NI Water - Geocellular Attenuation Storage Check List

CHECK ITEM	YES	NO
Is the proposed Geocellular Attenuation Tank to be constructed within 3m depth below finished ground levels at any point?		
Is the proposed Geocellular Attenuation Tank to be constructed below non-trafficked area?		
Is the ground water table minimum 1m below invert level of the tank?		
Has proposed Geocellular Attenuation Tank a rectangular shape?		
Is the proposed system designed as on-line or off-line parallel format?		
Is the proposed Geocellular Attenuation Tank to be constructed more than $h^* + 2m$ away from foundation or trafficked/loaded pavements?		
Is the proposed Geocellular Attenuation Tank to be constructed more than $h^* + 10m$ away from sloping ground or stockpiles?		
Is the proposed Geocellular Attenuation Tank to be constructed more than $h^* + 5D^{**}$ away from piles supporting vertical loadings and $h^* + 8D^{**}$ for piles supporting horizontal loadings?		
Is the proposed Geocellular Attenuation Tank to be constructed more than $h^* + 2.14H^{***}$ away from the front of any retaining walls?		
Is the appropriate ventilation provided to the Geocellular Attenuation Tank? (Typically 110mm dia vent per 7500m <sup>2</sup> catchment area)		
Is the proposed system provided with maintenance provisions allowing for inspection and cleaning at minimum 15m intervals?		
Is the proposed system equipped with silt interception sized to allow for loadings described by Table 8.1 CIRIA C737?		
Are inlet and outlet pipework arrangements constructed with minimum 150mm dia pipes and providing unrestricted flow?		
Is the system provided with an appropriately sized overflow protecting the site from potential flooding in case the control device is blocked?		
Is the proposed Geocellular Attenuation Tank and all connections sealed with the hot-jointed impermeable heavy duty geo-membrane minimum 1mm thickness installed by certified contractor (UKCAS Certificate Scheme for Welding and Inspection Personnel)?		
Is the proposed Geocellular Attenuation Tank protected by geotextile fleece (minimum 300g/mm <sup>2</sup> ) and minimum 100mm protective layer of sand or non-angular gravel?		

- $h^*$  is depth of tank installation  
 $D^{**}$  is pile diameter  
 $H^{***}$  is the depth of the retaining wall