



# Cambourne North, Cambridgeshire

## Utilities Assessment

### TECHNICAL NOTE

<b>DATE</b>	<b>03 October 2019</b>	<b>CONFIDENTIALITY</b>	<b>Public</b>
<b>SUBJECT</b>	Assessment of Utilities to Service a Northward Extension of Cambourne		
<b>Project no.</b>	<b>Prepared by</b>	<b>Checked by</b>	<b>Authorised by</b>
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#### 1.1. UTILITY SERVICES

This technical note provides an interim update on a previous assessment of the availability of services provision to supply a new northward extension to the settlement of Cambourne, west of Cambridge for between 3,500 - 8,000 homes.

The Statutory Utility Undertakers were contacted to determine if the northward extension of Cambourne can be serviced from existing utility networks in the vicinity of the site or if any reinforcement or upgrading works will be required. Further discussion with the statutory undertakes is being undertaken to provide a current update. In summary, all utilities are available, albeit with some re-inforcement to the networks that would be expected on a proposal of this scale.

#### 1.2. ELECTRICITY SUPPLY

UK Power Networks (UKPN) maintain and operate the existing electricity network in the vicinity of the site. UKPN confirmed that an electricity supply to the site is available and a new site substation and associated cables would need to be provided to serve the site.

The strategic power supply for the Cambourne area currently comes from the Primary Sub-station located between Bourn and the southern fringes of Cambourne.

#### 1.3. WATER SUPPLY

Correspondence with Cambridge Water confirmed that potable water supply to the site can be provided from the existing Cambridge Water network. Due to the size of the proposed development, network alterations, water storage and booster will be required, which would include some or all of the following:-

- Upgrading the Coton 'B' booster
- New Storage reservoir at Bourn
- New booster station adjacent to or on the development site
- Local mains alteration works at the existing reservoir site at Bourne

In addition to the off-site mains alteration and reinforcement works there would also be a requirement for the on-site mains distribution infrastructure.

#### 1.4. GAS SUPPLY

Discussions with GTC confirmed that gas can be supplied to the site. The existing network of medium pressure and low pressure gas mains at Cambourne is fed from the strategic supply main at Papworth Everard. It is understood that this local network is currently at capacity having been originally sized to cater for the existing development at Cambourne only. The network is currently planned for upgrades.

### **1.5. TELEPHONE SERVICES**

BT confirmed that they are unable to provide exact details of how the site can be served with telecommunications until detailed site layouts are available, however they have said that they will be able to service the site.

The existing British Telecom fibre optic network which extends through Cambourne and along the A1198 could be extended into the site.

### **1.6. FOUL DRAINAGE**

Enquiries were made to Anglian Water planning and operations regarding points of discharge to the site. The proposed point of outfall for the Cambourne North site will be Uttons Drove sewage treatment works.

As well as the works to improve conveyance of flows, Anglian Water is understood to have implemented major improvements to the Uttons Drove Treatment Works. The phased upgrading works will be capable of treating all the currently projected development discharges within the catchment up to year 2031, this projection being based on housing numbers not particular development sites.