Planning Policy
Enfield Borough Council

By email: localplan@enfield.gov.uk

01189 520502

9th September 2021

Enfield New Local Plan - Main issues and preferred approaches June 2021

Dear Sir/Madam,

I refer to the above consultation. Thames Water are the statutory water and sewerage undertaker for the borough and is therefore a "specific consultation body" in accordance with the Town & Country Planning (Local Development) Regulations 2012. We have the following comments on the consultation document in relation to water and wastewater infrastructure:

4. Sustainable Enfield – POLICY OMMISSION relating to Water Supply and Wastewater/Sewerage Infrastructure

Thames Water seeks to co-operate and maintain a good working relationship with local planning authorities in its area and to provide the support they need with regards to the provision of water supply and sewerage/wastewater treatment infrastructure.

Water and wastewater infrastructure is essential to any development. Failure to ensure that any required upgrades to the infrastructure network are delivered alongside development could result in adverse impacts in the form of internal and external sewer flooding and pollution of land and water courses and/or low water pressure.

A key sustainability objective for the preparation of Local Plans and Neighbourhood Plans should be for new development to be co-ordinated with the infrastructure it demands and to take into account the capacity of existing infrastructure. Paragraph 20 of the revised National Planning Policy Framework (NPPF), 2021, states: "Strategic policies should set out an overall strategy for the pattern, scale and quality of development, and make sufficient provision for… infrastructure for waste management, water supply, wastewater…"

Paragraph 11 states: "Plans and decisions should apply a presumption in favour of sustainable development. For plan-making this means that:
a) All plans should promote a sustainable pattern of development that seeks to: meet the development needs of their area; align growth and infrastructure; improve the environment; mitigate climate change (including by making effective use of land in urban areas) and adapt to its effects"

Paragraph 28 relates to non-strategic policies and states: “Non-strategic policies should be used by local planning authorities and communities to set out more detailed policies for specific areas, neighbourhoods or types of development. This can include allocating sites, the provision of infrastructure…”

Paragraph 26 of the revised NPPF goes on to state: “Effective and on-going joint working between strategic policy-making authorities and relevant bodies is integral to the production of a positively prepared and justified strategy. In particular, joint working should help to determine where additional infrastructure is necessary….”

The web based National Planning Practice Guidance (NPPG) includes a section on ‘water supply, wastewater and water quality’ and sets out that Local Plans should be the focus for ensuring that investment plans of water and sewerage/wastewater companies align with development needs. The introduction to this section also sets out that “*Adequate water and wastewater infrastructure is needed to support sustainable development*” (Paragraph: 001, Reference ID: 34-001-20140306).

Policy SI5 of the new London Plan relates to water and wastewater infrastructure and supports the provision of such infrastructure to service development.

It is important to consider the net increase in water and wastewater demand to serve the development and also any impact that developments may have off site, further down the network. The new Local Plan should therefore seek to ensure that there is adequate water and wastewater infrastructure to serve all new developments. Thames Water will work with developers and local authorities to ensure that any necessary infrastructure reinforcement is delivered ahead of the occupation of development. Where there are infrastructure constraints, it is important not to under estimate the time required to deliver necessary infrastructure. For example: local network upgrades take around 18 months and Sewage Treatment & Water Treatment Works upgrades can take 3-5 years.

The provision of water treatment (both wastewater treatment and water supply) is met by Thames Water’s asset plans and from the 1st April 2018 network improvements will be from infrastructure charges per new dwelling.

As from 1st April 2018, the way Thames Water and all other water and wastewater companies charge for new connections has changed. The changes mean that more of Thames Water’s charges will be fixed and published, rather than provided on application, enabling you to estimate your costs without needing to contact us. The services affected include new water connections, lateral drain connections, water mains and sewers (requisitions), traffic management costs, income offsetting and infrastructure charges.

Information on how off site network reinforcement is funded can be found here https://developers.thameswater.co.uk/New-connection-charging

Thames Water therefore recommends that developers engage with them at the earliest opportunity (in line with paragraph 26 of the revised NPPF) to establish the following:

- The developments demand for water supply and network infrastructure both on and off site;
- The developments demand for Sewage/Wastewater Treatment and network infrastructure both on and off site and can it be met; and
- The surface water drainage requirements and flood risk of the development both on and off site and can it be met.

Thames Water offer a free Pre-Planning service which confirms if capacity exists to serve the development or if upgrades are required for potable water, waste water and surface water requirements. Details on Thames Water's free pre planning service are available at: https://www.thameswater.co.uk/preplanning

In light of the above comments and Government guidance we consider that the New Local Plan should include a specific policy on the key issue of the provision of water and sewerage/wastewater infrastructure to service development. This is necessary because it will not be possible to identify all of the water/sewerage infrastructure required over the plan period due to the way water companies are regulated and plan in 5 year periods (Asset Management Plans or AMPs). We recommend the Local Plan include the following policy:

PROPOSED WATER SUPPLY/WASTEWATER INFRASTRUCTURE POLICY TEXT:

"Where appropriate, planning permission for developments which result in the need for off-site upgrades, will be subject to conditions to ensure the occupation is aligned with the delivery of necessary infrastructure upgrades."

"The Local Planning Authority will seek to ensure that there is adequate water and wastewater infrastructure to serve all new developments. Developers are encouraged to contact the water/waste water company as early as possible to discuss their development proposals and intended delivery programme to assist with identifying any potential water and wastewater network reinforcement requirements. Where there is a capacity constraint the Local Planning Authority will, where appropriate, apply phasing conditions to any approval to ensure that any necessary infrastructure upgrades are delivered ahead of the occupation of the relevant phase of development."

Local Authorities should also consider both the requirements of the utilities for land to enable them to meet the demands that will be placed upon them. This is necessary because it will not be possible to identify all the water and wastewater/sewerage infrastructure required over the plan period due to the way water companies are regulated and plan in 5 year periods (AMPs). Thames Water are currently in AMP7 which covers the period from 1st April 2020 to 31st March 2025. AMP8 will cover the period from 1st April 2025 to 31st March 2030. The Price Review, whereby the water companies' AMP8 Business Plan will be agreed with Ofwat during 2024.

We therefore request that the new Local Plan include the following policy/supporting text:

"*The development or expansion of water supply or waste water facilities will normally be permitted, either where needed to serve existing or proposed development in accordance with the provisions of the Development Plan, or in the interests of long term water supply and waste water management, provided that the need for such facilities outweighs any adverse land use or environmental impact that any such adverse impact is minimised."*

Comments in relation to Water Efficiency/Climate Change:

The Environment Agency has designated the Thames Water region to be "seriously water stressed" which reflects the extent to which available water resources are used. Future pressures on water resources will continue to increase and key factors are population growth and climate change.

Water conservation and climate change is a vitally important issue to the water industry. Not only is it expected to have an impact on the availability of raw water for treatment but also the demand from customers for potable (drinking) water. Therefore, Thames Water support the mains water consumption target of 110 litres per head per day (105 litres per head per day plus

an allowance of 5 litres per head per day for gardens) as set out in the NPPG (Paragraph: 014 Reference ID: 56-014-20150327) and support the inclusion of this requirement in the Policy.

Thames Water promote water efficiency and have a number of water efficiency campaigns which aim to encourage their customers to save water at local levels. Further details are available on the our website via the following link:
https://www.thameswater.co.uk/Be-water-smart

It is our understanding that the water efficiency standards of 105 litres per person per day is only applied through the building regulations where there is a planning condition requiring this standard (as set out at paragraph 2.8 of Part G2 of the Building Regulations). As the Thames Water area is defined as water stressed it is considered that such a condition should be attached as standard to all planning approvals for new residential development in order to help ensure that the standard is effectively delivered through the building regulations.

Proposed policy text:
*"**Development must be designed to be water efficient and reduce water consumption. Refurbishments and other non-domestic development will be expected to meet BREEAM water-efficiency credits. Residential development must not exceed a maximum water use of 105 litres per head per day (excluding the allowance of up to 5 litres for external water consumption). Planning conditions will be applied to new residential development to ensure that the water efficiency standards are met**."*

Deephams Sewage Treatment Works (STW)

Deephams STW is located within the south eastern part of the Borough and is Thames Water's fourth largest STW and is of strategic importance to London's infrastructure. as such there is a specific section and Policy EL18 on Deephams STW in the Edmonton Leeside AAP and it is considered that there should be a similar section in the new Local Plan to replace this.

Development within the vicinity of Deephams Sewage Treatment Work

Where development is being proposed within 800m of a sewage treatment works, the developer or local authority should liaise with Thames Water to consider whether an odour impact assessment is required as part of the promotion of the site and potential planning application submission. The odour impact assessment would determine whether the proposed development would result in adverse amenity impact for new occupiers, as those new occupiers would be located in closer proximity to a sewage treatment works.

Where development is being proposed within 15m of a sewage pumping station, the developer or local authority should liaise with Thames Water to consider whether an odour and / or noise and / or vibration impact assessment is required as part of the promotion of the site and potential planning application submission. Any impact assessment would determine whether the proposed development would result in adverse amenity impact for new occupiers, as those new occupiers would be located in closer proximity to a pumping station.

Paragraph 174 of the NPPF, February 2021, sets out that: "*Planning policies and decisions should contribute to and enhance the natural and local environment by: ….e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as*

air and water quality, taking into account relevant information such as river basin management plans…"

Paragraph 185 goes on to state: "*Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development*…."

The online PPG states at Paragraph: 005 Reference ID: 34-005-20140306 that: "*Plan-making may need to consider: ….whether new development is appropriate near to sites used (or proposed) for water and wastewater infrastructure (for example, odour may be a concern)..*"

The odour impact study would establish whether new resident's amenity will be adversely affected by the sewage works and it would set the evidence to establish an appropriate amenity buffer. On this basis, text similar to the following should be incorporated into the Neighbourhood Plan: "When considering sensitive development, such as residential uses, close to the Sewage Treatment Works, a technical assessment should be undertaken by the developer or by the Council. The technical assessment should be undertaken in consultation with Thames Water. The technical assessment should confirm that either: (a) there is no adverse amenity impact on future occupiers of the proposed development or; (b) the development can be conditioned and mitigated to ensure that any potential for adverse amenity impact is avoided."

Policy DN SE8 – Managing Flood Risk

In relation to flood risk, the National Planning Practice Guidance (NPPG) states that a sequential approach should be used by local planning authorities in areas known to be at risk from forms of flooding other than from river and sea, which includes "Flooding from Sewers".

When reviewing development and flood risk it is important to recognise that water and/or sewerage infrastructure may be required to be developed in flood risk areas. By their very nature water and sewage treatment works are located close or adjacent to rivers (to abstract water for treatment and supply or to discharge treated effluent). It is likely that these existing works will need to be upgraded or extended to provide the increase in treatment capacity required to service new development. Flood risk sustainability objectives should therefore accept that water and sewerage infrastructure development may be necessary in flood risk areas.

Flood risk policies should also make reference to 'sewer flooding' and an acceptance that flooding can occur away from the flood plain as a result of development where off site sewerage infrastructure and capacity is not in place ahead of development.

With regard to surface water drainage it is the responsibility of the developer to make proper provision for drainage to ground, watercourses or surface water sewer. It is important to reduce the quantity of surface water entering the sewerage system in order to maximise the capacity for foul sewage to reduce the risk of sewer flooding.

Limiting the opportunity for surface water entering the foul and combined sewer networks is of critical importance to Thames Water. Thames Water have advocated an approach to SuDS that limits as far as possible the volume of and rate at which surface water enters the public sewer system. By doing this, SuDS have the potential to play an important role in helping to ensure the sewerage network has the capacity to cater for population growth and the effects of climate change.

SuDS not only help to mitigate flooding, they can also help to: improve water quality; provide opportunities for water efficiency; provide enhanced landscape and visual features; support wildlife; and provide amenity and recreational benefits.

With regard to surface water drainage, Thames Water request that the following paragraph should be included in the new Local Plan: **"*It is the responsibility of a developer to make proper provision for surface water drainage to ground, water courses or surface water sewer. It must not be allowed to drain to the foul sewer, as this is the major contributor to sewer flooding*."**

Basements – Sewage flooding

Thames Water's main concerns with regard to subterranean development are:

1) The scale of urbanisation throughout London is impacting on the ability of rainwater to soak into the ground resulting in more rainfall in Thames Water's sewerage network when it rains heavily. New development needs to be controlled to prevent an increase in surface water discharges into the sewerage network.

2) By virtue of their low lying nature basements are vulnerable to many types of flooding and in particular sewer flooding. This can be from surcharging of larger trunk sewers but can also result from operational issues with smaller sewers such as blockages. Basements are generally below the level of the sewerage network and therefore the gravity system normally used to discharge waste above ground does not work. During periods of prolonged high rainfall or short duration very intense storms, the main sewers are unable to cope with the storm flows.

The policy should therefore require all new basements to be protected from sewer flooding through the installation of a suitable (positively) pumped device. Clearly this criterion of the policy will only apply when there is a waste outlet from the basement i.e. a basement that includes toilets, bathrooms, utility rooms etc. Applicants should show the location of the device on the drawings submitted with the planning application.

Allocations

The information contained within the new Local Plan will be of significant value to Thames Water as we prepare for the provision of future water supply/wastewater infrastructure.

The attached table provides Thames Water's site specific comments from desktop assessments on water, sewerage/waste water network and waste water treatment infrastructure in relation to the proposed development sites, but more detailed modelling may be required to refine the requirements.

Process

We use the information in local plans to estimate when upgrades will be required. It is therefore important that the local authority keep us informed of any changes to local plan numbers and how well they are delivering homes against those objectives. Where this doesn't happen it could lead to delays in the delivery of vital infrastructure

Network

Where offsite upgrades are required to serve development they will be delivered and funded by Thames Water using infrastructure charges more info here
https://www.thameswater.co.uk/developers/charges

The time to deliver upgrades shouldn't be underestimated it can take 18months – 3 years from the time of certainty and in some cases it may be appropriate for a suitably worded planning condition to be attached to ensure development doesn't outpace the upgrades. Developers are encouraged to engage at the earliest opportunity to discuss their development needs via Thames waters pre planning service https://www.thameswater.co.uk/developers/larger-scale-developments/planning-your-development/water-and-wastewater-capacity

We recommend developers attach the information we provide to their planning applications so that the Council and the wider public are assured water and waste matters for the development are being addressed. Please also refer to detailed comments above in relation to the infrastructure section.

Where developers do not engage with Thames Water prior to submitting their application, this will more likely lead to the recommendation that a Grampian condition is attached to any planning permission to resolve any infrastructure issues.

We trust the above is satisfactory, but please do not hesitate to contact David Wilson on the above number if you have any queries.

Yours faithfully,

Thames Water Utilities Limited