

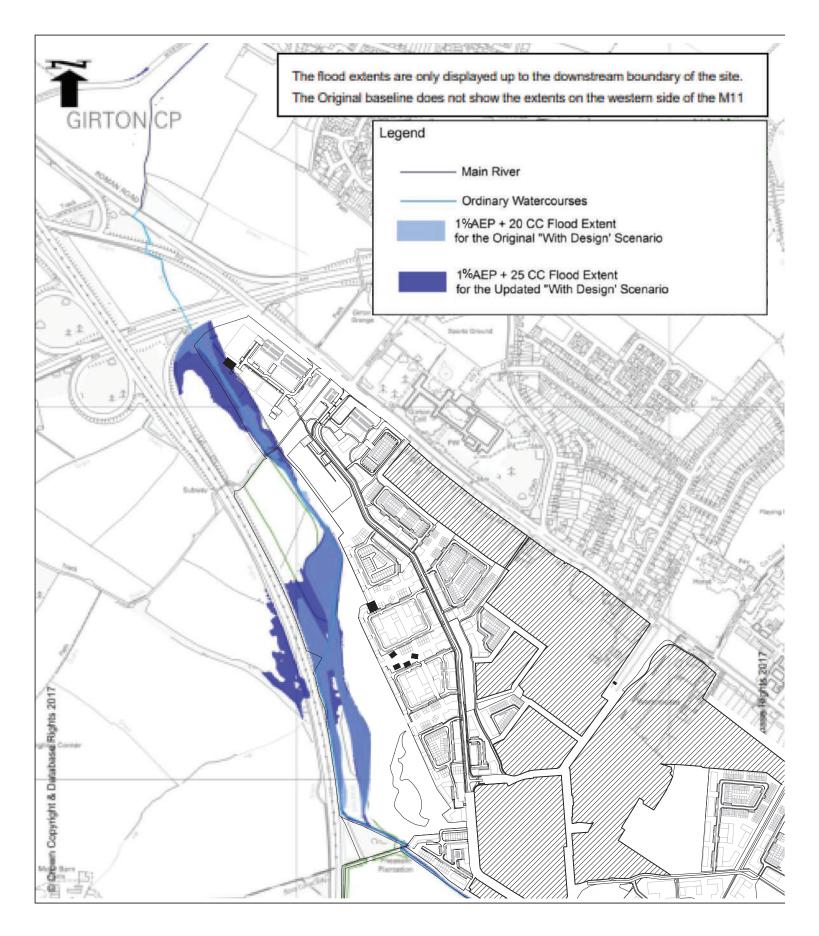
Flood Risk Assessment and Surface Water Drainage Strategy

Project number: 60732815

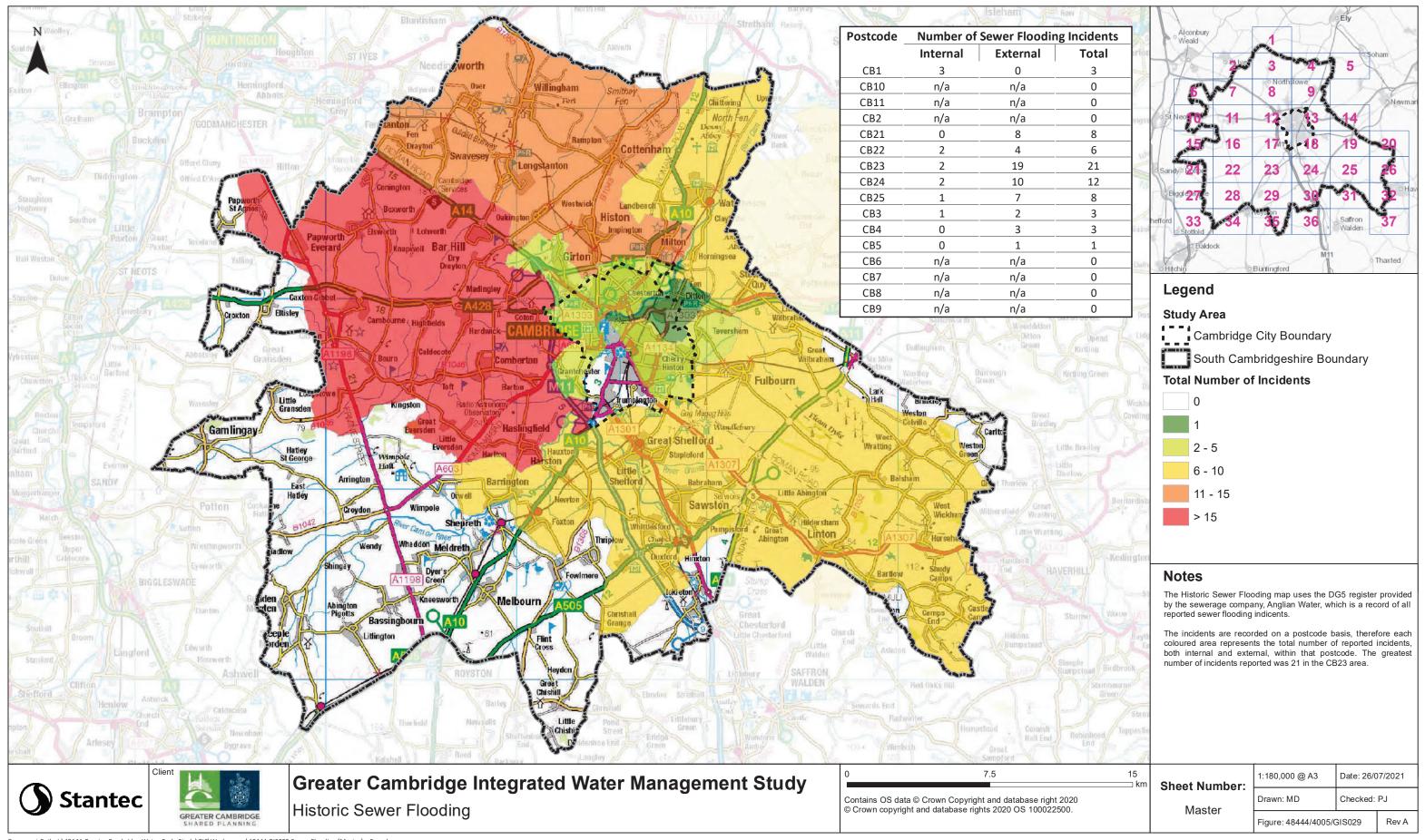
Appendix E Flood Alleviation Scheme

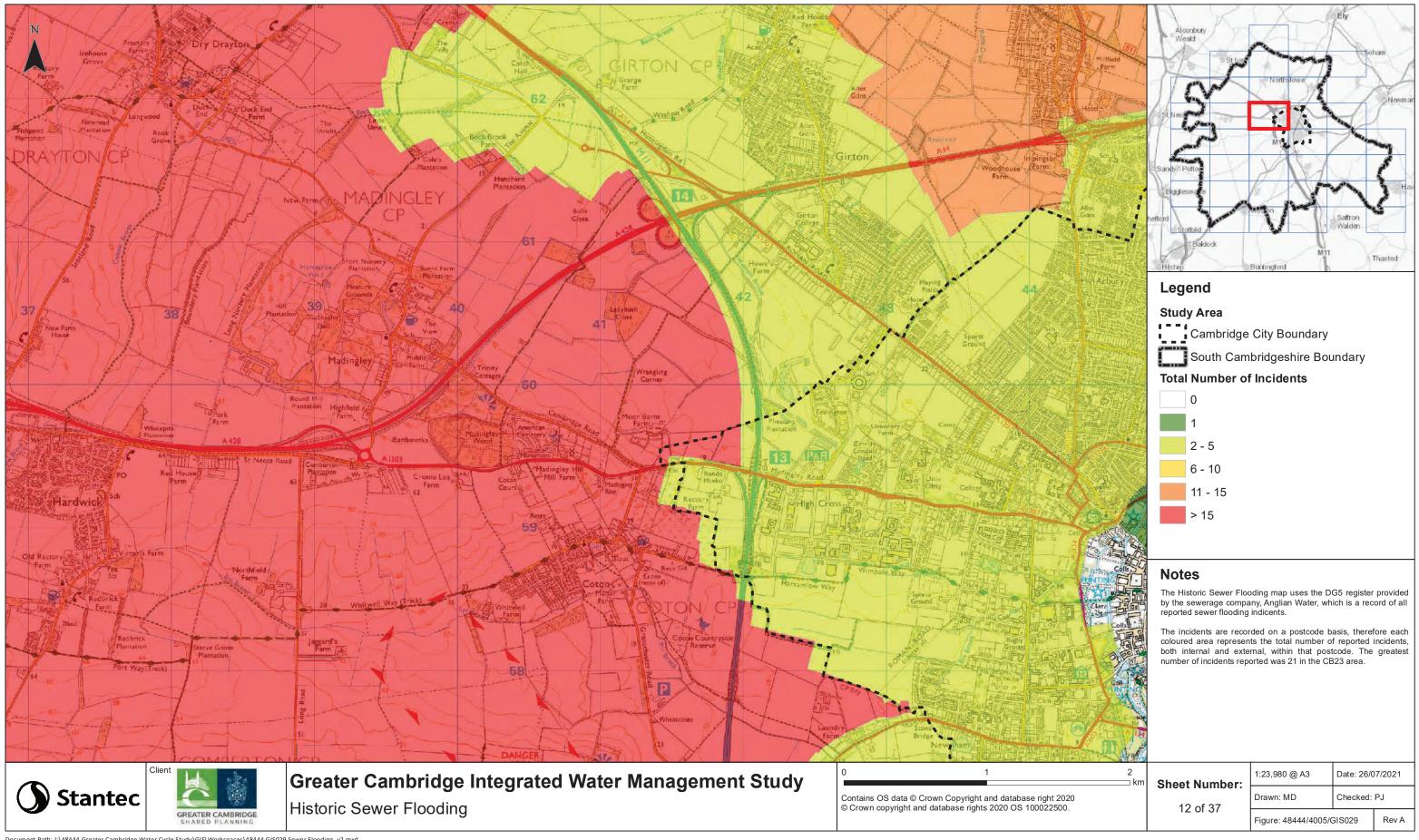
Prepared for: The University of Cambridge

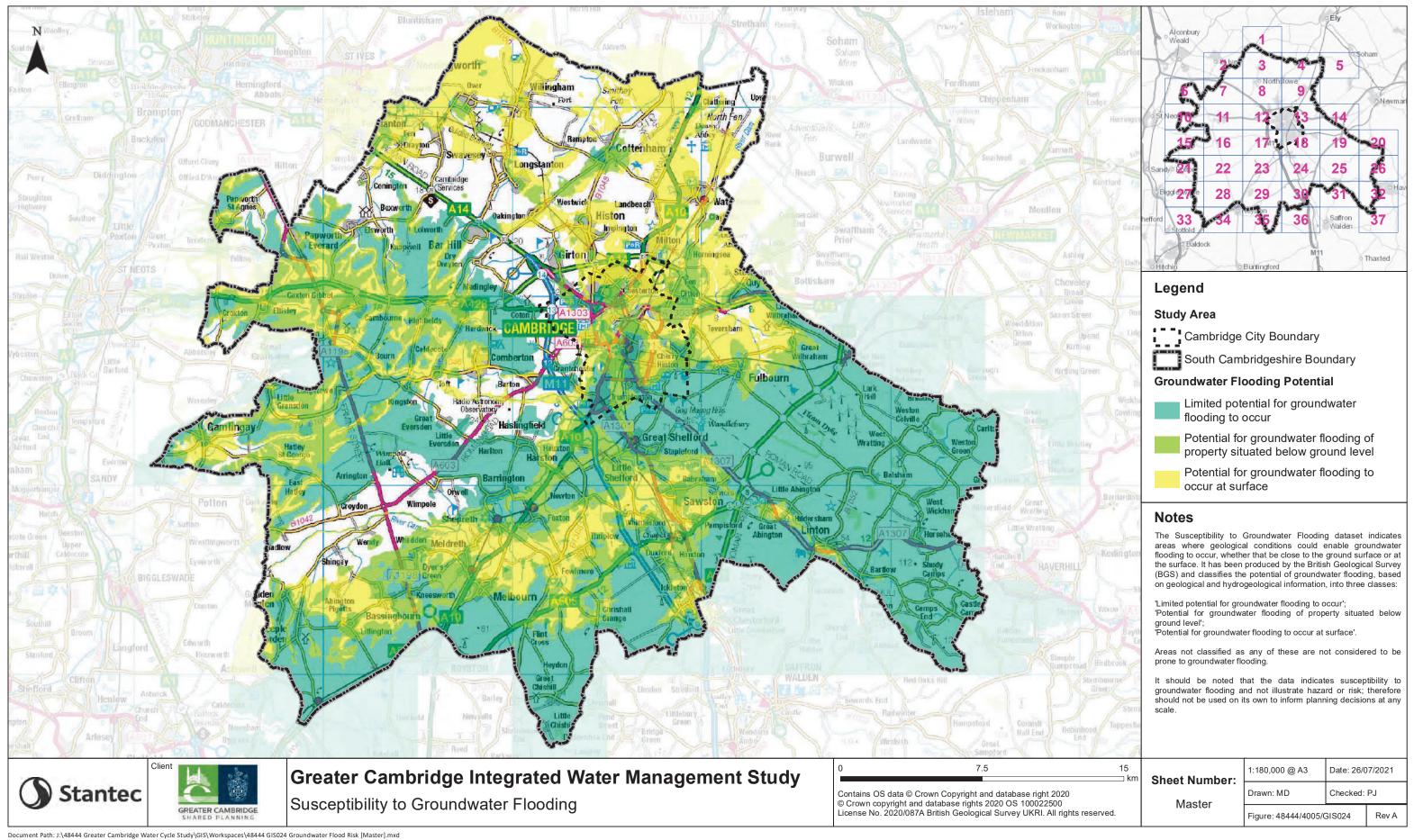
AECOM 32

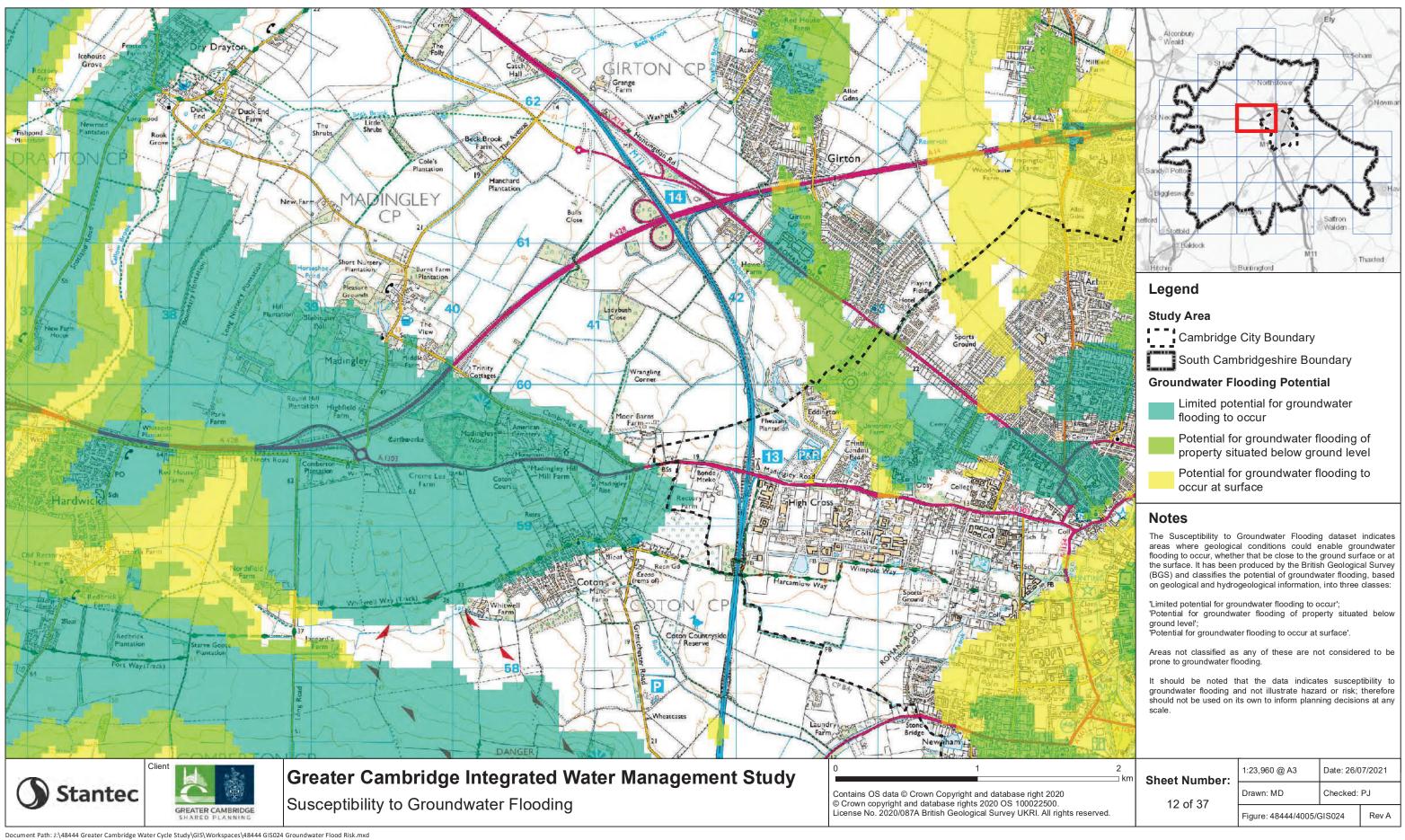


Appendix F SFRA Maps









Appendix G PREPLANNING ENQUIRY ANGLIAN WATER





Pre-Planning Assessment Report

North West Cambridge

InFlow Reference: PPE-0217160

Assessment Type: Used Water

Report published: 13/12/2024



Thank you for submitting a pre-planning enquiry.

This has been produced for AECOM Ltd.

Your reference number is PPE-0217160.

This report can be submitted as a drainage strategy for the development should it seek planning permission.

If you have any questions upon receipt of this report, you can submit a further question via InFlow. Alternatively, please contact the Planning & Capacity team on **07929 786 955** or email planningliaison@anglianwater.co.uk

Section 1 - Proposed development

The response within this report has been based on the following information which was submitted as part of your application:

List of planned developments									
Type of development	No. Of units								
Dwellings	6000								

The anticipated residential build rate is:

Year	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12
Build rate	50	50	50	50	50	50	50	50	50	50	50	5450

Development type:GreenfieldPlanning application status:UnknownSite grid reference number:TL4268060293

The comments contained within this report relate to the public water mains and sewers indicated on our records.

Your attention is drawn to the disclaimer in the useful information section of this report.

Section 2 - Assets affected

Our records indicate that we have the following types of assets within or overlapping the boundary of your development site as listed in the table below.

Additionally, it is highly recommended that you carry out a thorough investigation of your proposed working area to establish whether any unmapped public or private sewers and lateral drains are in existence. We are unable to permit development either over or within the easement strip without our prior consent. The extent of the easement is provided in the table below. Please be aware that the existing water mains/public sewers should be located in highway or open space and not in private gardens. This is to ensure available access for any future maintenance and repair and this should be taken into consideration when planning your site layout.

Water and Used water easement information										
Asset type	Pipe size (mm)	Total easement required (m)								
Sewer mains	150	3.00 m either side of the centre line								
Sewer mains	225	3.00 m either side of the centre line								
Sewer mains	300	3.00 m either side of the centre line								
Sewer mains	375	3.00 m either side of the centre line								
Sewer mains	450	3.50 m either side of the centre line								

If it is not possible to avoid our assets then these may need to be diverted in accordance with Section 185 of the Water Industry Act (1991). You will need to make a formal application if you would like a diversion to be considered.

Pumping Station

The development site is within 15 metres of a sewage pumping station. This asset requires access for maintenance and will have sewerage infrastructure leading to it. For practical reasons therefore it cannot be easily relocated. Anglian Water consider that dwellings located within 15 metres of the pumping station would place them at risk of nuisance in the form of noise, odour or the general disruption from maintenance work caused by the normal operation of the pumping station. The site layout should take this into account and accommodate this infrastructure type through a necessary cordon sanitaire, through public space or highway infrastructure to ensure that no development within 15 metres from the boundary of a sewage pumping station if the development is potentially sensitive to noise or other disturbance or to ensure future amenity issues are not created.

Due to the private sewer transfer in October 2011 many newly adopted public used water assets and their history are not indicated on our records. You also need to be aware that your development site may contain private water mains, drains or other assets not shown on our records. These are private assets and not the responsibility of Anglian Water but that of the landowner.

Section 3 - Water recycling services

In examining the used water system we assess the ability for your site to connect to the public sewerage network without causing a detriment to the operation of the system. We also assess the receiving water recycling centre and determine whether the water recycling centre can cope with the increased flow and effluent quality arising from your development.

Water recycling centre

The foul drainage from this development is in the catchment of Cambridge Water Recycling Centre which currently does not have capacity to treat the flows from the development site. Anglian Water has applied to the Environment Agency for an interim new permit to address exceedance. Please note that it is Anglian Water responsibility to take the necessary steps to ensure there is capacity to accommodate the domestic flows from the proposed development.

Our long-term plans for Cambridge WRC are linked to the Cambridge relocation project and the Development Consent Order. The new Cambridge WRC will take all existing domestic flows from current Cambridge WRC and all flows from the future growth within the WRC catchment.

We are working with Greater Cambridgeshire to understand the long-term growth figures, using the emerging local plan allocations and planning permissions. This allows us to design and deliver a new Cambridge WRC which can meet future demand.

Used water network

Our assessment has been based on development flows connecting to the nearest foul water sewer of the same size or greater pipe diameter to that required to drain the site. The infrastructure to convey foul water flows to the receiving sewerage network is assumed to be the responsibility of the developer. Conveyance to the connection point is considered as Onsite Work and includes all work carried out upstream from of the point of connection, including making the connection to our existing network.

This connection point has been determined in reference to the calculated discharge flow and on this basis, a 750mm internal diameter pipe is required to drain the development site. We have assessed your preferred connection point which is to the 1200mm sewer located in Madingley Road at National Grid reference (NGR) TL 43650 59105. Anglian Water has assessed the impact of a pumped conveyance from the planned development to the public foul sewerage network and we can confirm that this connection is acceptable as the foul sewerage system, at present, has available capacity for your site. In line with Sewers for Adoption, the pumped discharge will need to connect via an intermediate manhole and at least 5 metres of an appropriately sized gravity sewer. The pump rate and configuration of the connection will be determined with your detailed design. You should submit this detail with your Section 106 new connection application.

Due to the size of this site, we would like to understand your onsite drainage design in greater detail. Therefore, we would like to arrange a meeting to examine the available options and establish an effective strategy. Please advise our team of your availability for a meeting via Planningliaison@anglianwater.co.uk.

Please note that Anglian Water will request a suitably worded condition at planning application stage to ensure this strategy is implemented to mitigate the risk of flooding.

It is assumed that the developer will provide the necessary infrastructure to convey flows from the site to the network. Consequently, this report does not include any costs for the conveyance of flows.

Surface water disposal

You indicated on the Pre-Planning Application form that a connection to the public surface water sewer network is not required. Therefore a capacity assessment has not been made on the public surface water network.

As you may be aware, Anglian Water will consider the adoption of SuDs provided that they meet the criteria outline in our SuDs adoption manual. This can be found on our website. We will adopt features located in public open space that are designed and constructed, in conjunction with the Local Authority and Lead Local Flood Authority (LLFA), to the criteria within our SuDs adoption manual. Specifically, developers must be able to demonstrate:

- 1. Effective upstream source control,
- 2. Effective exceedance design, and
- 3. Effective maintenance schedule demonstrating than the assets can be maintained both now and in the future with adequate access.

If you wish to look at the adoption of any SuDs then an expression of interest form can be found on our website

As the proposed method of surface water disposal is not relevant to Anglian Water; we suggest that you contact the relevant Local Authority, Lead Local Flood Authority, the Environment Agency or the Internal Drainage Board, as appropriate.

Trade Effluent

We note that you do not have any trade effluent requirements. Should this be required in the future you will need our written formal consent. This is in accordance with Section 118 of the Water Industry Act (1991).

Used Water Budget Costs

Your development site will be required to pay an Infrastructure charge for each new property connecting to the public water and sewerage network that benefits from Full planning permission. The infrastructure charge replaces the zonal charge as previously identified.

You will be required to pay an infrastructure charge upon connection for each new plot on your development site. The infrastructure charge are types of charges set out in Section 146(2) of the Water Industry Act 1991.

The charge should be paid by anyone who wishes to build or develop a property and is payable upon request of connection.

• The Infrastructure Charge is based on the cost of any reinforcement and upgrades to our existing network ("Network Reinforcements"), whether designed to address strategic or local capacity issues. For more information on our Infrastructure Charge, please see the 'Useful Information' section of this report.

Infrastructure charges are raised on a standard basis of one charge per new connection (one for water and one for sewerage).

The Water Recycling Infrastructure charge for your dwellings is:

Infrastructure charge	Number of units	Total
£ 403	6000	£2,418,000.00

Please note that you should also budget for infrastructure charges on non-household premises where applicable and these will be calculated according to the number and type of water fittings in the premises. This is called the "relevant multiplier" method of calculating the charge and the relevant multiplier will be applied to the figures set out in our 2024-25 Developer Charging Arrangements to arrive at the amount payable. Details of the relevant multiplier for each fitting can be found on our website.

Section 4 – Map of connection point



Figure 1: Showing your connection point for foul water

Appendix B Site Layout



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No implied licence exists. This drawing should not be used to calculate areas for the purposes of valuation. Do not scale this drawing. All dimensions to be checked on the site by the contractor and such dimensions to be their responsibility. All work must comply with relevant British Standards and Building Regulations requirements. Drawing errors and omissions to be reported to the architect. To be read in conjunction with Architect's specification and other consultant information.

Status codes:

S1 - Suitable for Coordination
S2 - Suitable for Information
S3 - Suitable for Review & Comment
S4 - Suitable for Review & Authorization
S5 - Suitable for Review & Acceptance

An - Approved & Accepted as Stage complete

Rev	Description	Date
P00	Issued for planning	01.09.

Hawkins\ Brown

North West Cambridge Masterplan Eddington, North West Cambridge, CB3 1AF

Drawing

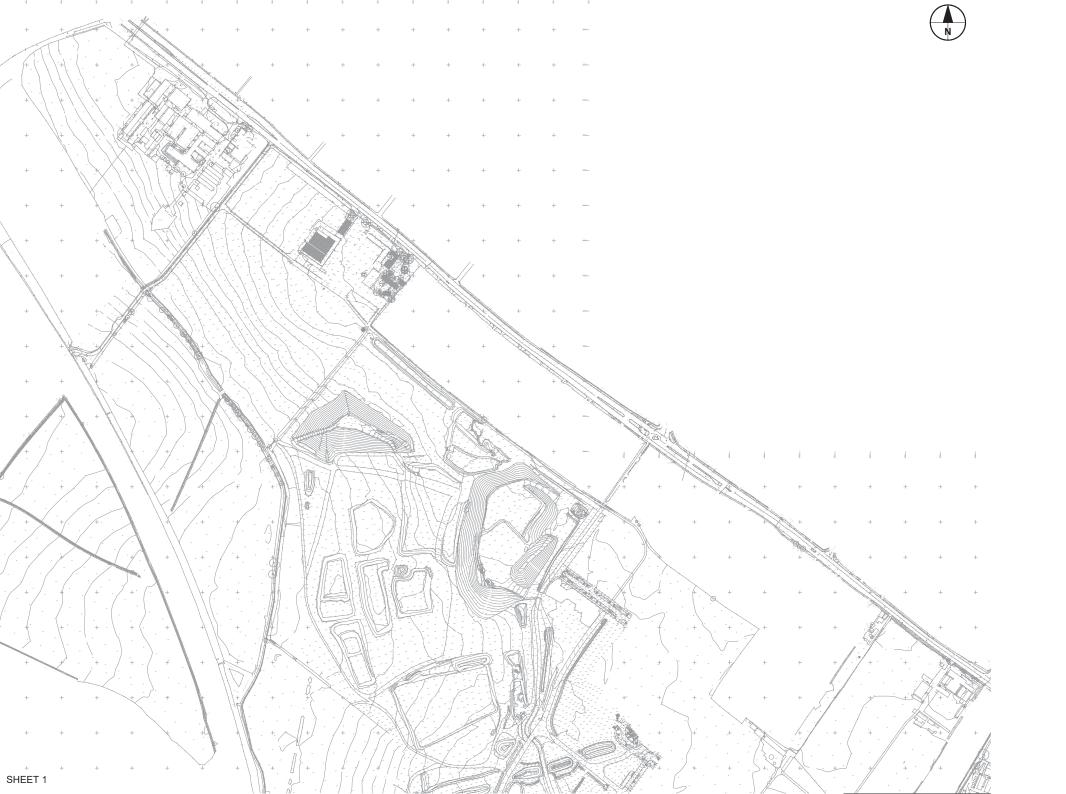
Illustrative Masterplan

Scale @ A1 1:5000	Date 01/09/25
Drawn By	Checked E

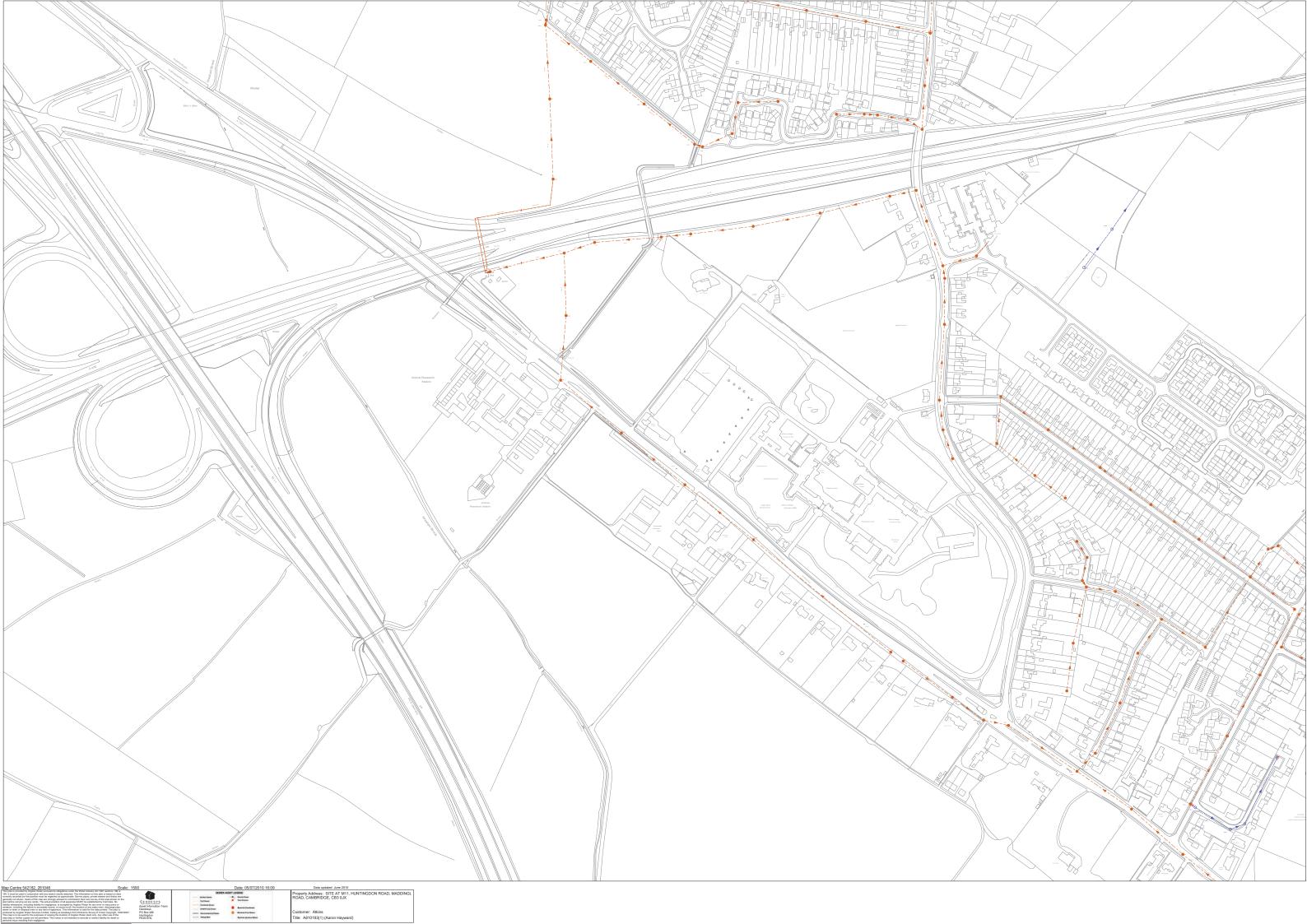
Job Number Status Purpose of Issue For information

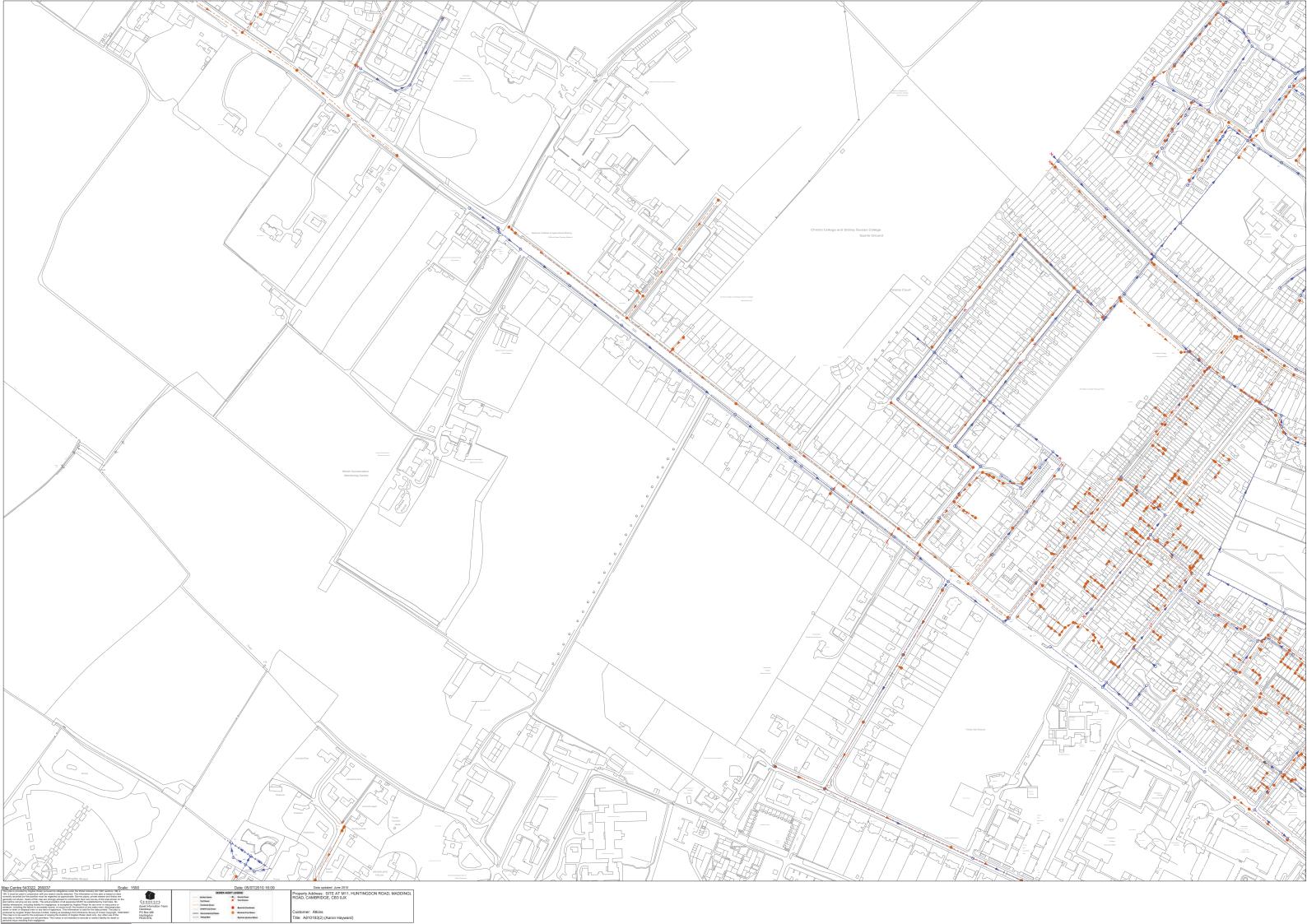
Drawing No.

Appendix C Anglian Water Sewer Records











Appendix: Water Resource, Flood Risk and Drainage

Annex 1: Legislation, Planning Policy and Other Relevant Standard and Guidance

Annex 2: Foul Drainage Sketches

Annex 3: Anglian Water Correspondences

Annex 4: Flood Risk Assessment and Surface Water Drainage Strategy

Annex 5: Cambridge Water Correspondence



Guarniere, Stuart

From: Sent:

20 March 2025 11:46

To:

Subject: RE: North West Cambridge Eddington - Potable Water Capacity

This Message Is From an External Sender

This message came from outside your organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Report Suspicious

Hi

On the strength of your responses John our Network Engineer who prepared the original supply proposal has assessed what will be needed assuming the densification goes ahead as follows:-

Upgrade potable booster.

Upgrade non-potable treatment works and booster.

Lay approx. 300 metres of 315 mm main in Eddington Avenue/Turing Way.

It may also be necessary to reinforce the mains in Five Acres, depending on how many additional properties are built in the eastern parcels H1,H2 and H3.

Clearly this is high level at this stage but if you feel a meeting either virtual or in person would be useful, please come back to me

Kind regards



See our useful guides below:

Services connections user guide

Developer services charging arrangements 2024/25

E1 8FA, United King

Some people who received this message don't often get email from

EXTERNAL EMAIL1

If you <u>do not know</u> this sender and believe this is a <u>Phishing E-Mail</u>, please click the "<u>Phish Alert</u>" button in the top-right of this e-mail to report it.

DO NOT CLICK any links or attachments within the e-mail!

If you cannot see the "Phish Alert" button, please raise a separate ticket to: itservicedesk@south-staffordshire.com



No problems - appreciate you getting back to me.

Please find attached a copy of the emerging masterplan proposals. Can I stress that this is for your eyes only as this has not been formally submitted for planning as yet so needs to be treated commercial in confidence, and not shared further.

To answer your specific questions:

What proportion of the original 3000 units is now occupied? Approximately 1,800 units are either constructed or under construction. Approximately 1,500 are currently occupied

Will the water usage for the balance of the original 3000 units be similar in nature to the units already occupied? Yes, we will be limiting potable water usage to a maximum of 80l/pp/pd with non-potable water supplementation.

Will the water usage for the proposed densification units be similar in nature to the units already occupied? Yes, if not lower per unit as a significant proportion of the additional units are apartments rather than houses Are any significant large users expected (e.g., laboratories, hotels etc.)? None expected at present. There is commercial space zoned but as yet this is undefined. For the purposes of these discussions we need to assume that there are no heavy users of water proposed.

Hope that helps but more than happy to have a call if that would assist.

Many thanks



AECOM

Aldgate Tower 2 Leman Street London E1 8FA, United Kingdom

2

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Subject: RE: North West Cambridge Eddington - Potable Water Capacity



Apologies for the delayed response however I have now received feedback from the various interested parties at this end but I am afraid before I can give you a definitive answer, I need some further information I appreciate at this stage that might be difficult but your latest thoughts would be helpful:-

What proportion of the original 3000 units is now occupied?

Will the water usage for the balance of the original 3000 units be similar in nature to the units already occupied?

Will the water usage for the proposed densification units be similar in nature to the units already occupied?

Are any significant large users expected (e.g., laboratories, hotels etc.)?

Indicative locations are needed to assess adequacy of mains.

Also, from a water resources point of view we have now been given approval to publish our final WRMP by Defra. The growth forecasts for new housing in the plan are based on existing LA adopted plans, with some sensitivity/headroom within the demand forecasts associated with these that would allow for the numbers of new properties in the LA emerging plan. We cannot say that the final WRMP allows for the water supply requirements of development specific increases in growth/housing numbers above the emerging plan.

Kind regards



See our useful guides below:

Services connections user guide

Developer services charging arrangements 2024/25

4

From:

Subject: [EXTERNAL]North West Cambridge Eddington - Potable Water Capacity

Some people who received this message don't often get email from stuart.guarniere@aecom.com. Learn why this is important

EXTERNAL EMAIL1

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DO NOT CLICK any links or attachments within the e-mail!

If you cannot see the "Phish Alert" button, please raise a separate ticket to: itservicedesk@south-staffordshire.com

Good morning

Hope all is well with you.

We're getting close to our design freeze and production of documents for the NWC planning application and I have a clarification I need with respect to the potable water discussions we had late last year.

At our meeting of 12th November we discussed potable water capacity. You confirmed that the capacity had been reserved for the 3,000 units in the original planning application, but could not confirm whether there was sufficient capacity within your network to supply the additional 1,500-3,000 units being proposed as part of the scheme densification being submitted for planning.

Can you confirm how we would go about determining whether there is capacity for the additional units or whether network reinforcement is required? Is this something we can get some confidence on before we submit our application in a few months' time?

If you would like a discussion around this please let me know, but any guidance would be greatly appreciated.

Many thanks

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5



Appendix: Climate Change and Greenhouse Gases

Annex 1: Climate Change Risk Assessment (CCRA)



Appendix: Climate Change and Greenhouse Gases

Annex 1: Climate Change Risk Assessment (CCRA)



3. Climate change risk assessment

3. Climate chang	RISK ASSESSMENT									ADAPTATION MEASURES												
Risk Climate	Risk statement	Direct or Indirect, In-	Components impacted	Impact type	Planned Controls		ıl risk rat		Initial risk ra			l risk rating		Adaptation Measures	Responsibility	Residual ris			dual risk rat		sidual risk	
ID variable	NISK Statement	combination	Components impacted	impact type		RCP8.5	5 (2020 -	2049)	RCP8.5 (2050	- 2079)	RCP8.5	(2070 - 20	99) Justilication		Responsibility	RCP8.5 (202	20 - 2049) RCP8	.5 (2050 - 20	79) RCF	8.5 (2070 -	2099)
CONSTRUCTION	Description of impacts		Construction Workforce & Equipment Foundations Drainage Utilities Concrete / Pavements Roads / Access Paths Building Occupants Roofing Structure		e.g. controls planned within the current design that mitigate the identified risk	Likelihood	Consequence	Risk Rating	Likelihood Consequence	Risk Rating	Likelihood	Consequence		e.g. additional design or operational measures that can be implemented to further reduce the climate risk		Likelihood	Consequence	Risk Rating Likelihood	Consequence	Risk Rating	Likelinood	Risk Rating
1 Storm events	Storm events (high winds and hail) make	Direct		Asset Damage,	The Contractor will monitor weather	П					Т			1	Contractor							
(wind, hail)	work environments and the use of construction equipment and machinery unsafe for workers. Debris can blow onto the construction site which could result in safety hazards and/or damage to equipment. Areas of the construction site located at a height and those more exposed to winds will be particularly hazardous environments.	Biros.	•	Financial	forecasts and plan works accordingly, protecting workers and resources from any extreme weather conditions.	Unlikely	Insignificant	Том					The UKCP18 model suggest a small contribution from storm surges, however it is unclear if the frequency and severity of future storm surges is going to change.	-Consider developing register of vulnerable construction assets - If applicable undertake regular monitoring of trees and vegetation in the area, pruning as necessary to avoid damage to the construction site or blocking access roads, in the event of a storm with high wind speed.	SOMEON	Unlikely Insignificant	Том					
2 Extreme heat events	Extreme heat events can cause unsuitable conditions for workers and building activity, delaying construction and damaging building equipment.	Direct	•	Health & Safety, Financial	The Contractor will monitor weather forecasts and plan works accordingly, protecting workers and resources from any extreme weather conditions. To be included in the CEMP.	Unlikely	Minor	ТОМ					Temperatures are unlikely to increase significantly during the construction phase. Planned controls sufficient to manage potential risk.	-Cease outdoor and non-essential work if working conditions are too dangerous, and could result in injury to workers and damage to equipment -Consider inspection of vulnerable construction assets afte a hot day	r	Unlikely Minor	ТОМ					
3 Extreme heat	Increased frequency, duration and intensity of extreme heat events may cause an increase in dust and particulate generation during construction. This can increase water requirements for spaying, degrade construction materials and equipment, and threaten the health and safety of construction workers.	Direct	•	Health and safety (air quality, decreased visibility), asset damage (erosion)	Contractors to minimise height of dropped materials, stockpiles treated with wastewater, avoiding dust generating activities during the day, provide sufficient PPE, minimise vehicle speed on site, coverage of materials stockpile and minimise storage time of materials	Unlikely	Minor	Том					Occurrence of extreme heat events unlikely to change considerably during construction phase	None - Sufficient dust suppression measures have been so out in the NWC.14 Construction Environmental Management Plan ('CEMP').	t	Unlikely Minor	МОТ					
4 Extreme Rainfall	Extreme rainfall resulting from storm events can restrict working hours and prevent access to construction sites, delaying the build process and damaging building equipment	Direct	•	Health & Safety, Financial	Contractor to select suitable storage locations for construction materials, monitor weather forecasts and schedule work accordingly, Laydown and welfare areas to be laid with permeable membranes to protect from flooding events. Full measures should be included in the CEMP.	Unlikely	Minor	Low					Winter rainfall to increase by up to 5% during the construction phase. This is unlikely to have a significant impact on the construction of the Proposed Development.	Cease outdoor and non-essential work if working condition are too dangerous, and could result in injury to workers and damage to equipment		Unlikely Minor	Том					
5 Extreme rainfall	Extreme rainfall causing damage to building foundations due to increased soil moisture			Health & Safety, Financial	Piling depths to be sufficient for flood resistance purposes.	Rare	Moderate	Medium					Winter rainfall to increase by 19% over the design life of the proposed development.	Design the drainage system on a 1:100 year rainfall event. Additionally, adding stabilising agents to the soil to reduce its susceptibility to moisture changes.		Unlikely Minor	мот					
6 Flooding	Flooding can prevent site access and create unsafe working conditions, delaying construction		•	Health & Safety, Financial	Contractor to select suitable storage locations for construction materials, monitor weather forecasts and schedule work accordingly, Laydown and welfare areas to be laid with permeable membranes to protect from flooding events. Full measures should be included in the CEMP.	Unlikely	Minor	Том					Based on the flood risk area maps available on data.gov.uk, the proposed development is very close to a flood risk area. While unlikely to have a significant impact on construction, it could delay construction.	Ensure sufficient drainage in operation during construction		Unlikely Minor	тот					

		RISK IDENTIFICAT	ION									RISK	ASSESS	SMENT					ADAPTATIO	N MEASU	JRES						
Risk Climate ID variable	Risk statement	Direct or Indirect, In-	Compo	onents impa	cted		Impact type	Planned Controls		ial risk rat .5 (2020 -			risk ratin (2050 - 20		Initial risl			Adaptation Measures	Responsibility		ual risk ra			al risk rati (2050 - 20		esidual risk CP8.5 (2070	
OPERATION 7 Extreme He.	Description of impacts at Prolonged extreme heat event can have	Construction Workforce & Equipment Foundations	Drainage Utilities	Concrete / Pavements Roads / Access Paths	Building Occupants Roofing	Structure Natural Spaces	e.g. Asset damage / engineering / operational, Health and safety, Environmental, Social, Financial, Reputation, Cultural	e.g. controls planned within the current design that mitigate the identified risk Significant landscaping around the	Likelihood	Consequence	Risk Rating	Likelihood	Consequence	Risk Rating	Likelihood	Consequence	ठा प्रमुख अ अ Rationale for likelihood and consequences	e.g. additional design or operational measures that can be implemented to further reduce the climate risk		Likelihood	Consequence	Risk Rating	Likelihood	Consequence	Risk Rating	Likelihood	Risk Rating
	a negative impact on building inhabitants and an increase in energy use for air conditioning		•		•		operations, financial	development. Openable façade elements, lower g-value of glass, mechanical ventilation with heat recovery, maximised floor to ceiling height, implementation of active cooling systems.	Ra	Minor	Low	Unlikely	Minor	Low	Minor	Modius	Summer maximum temperatures expected to increase significantly by end of century.	Address risk at detailed design stage and incorporate passive measures such as overhangs from balconies and use of trees to provide shading of facades Additionally, as set out in the Sustainability Strategy, Overheating requirements will comply with Building Regulations Part O.		Rare	Insignificant	Low	Unlikely	Insignificant	Low	Insignificant	Low
	at Heat damage, deformation, cracking and thermal expansion of pavement surfaces and walls			•			Asset Damage	Construction best practice material choices	Rare	Minor	Low	Rare	Minor	Low	Minor	_	In line with best practice, materials will be selected with sufficient thermal resistance to projected changes in average temperatures	No further adaptation measures required		Rare	Insignificant	тот	Rare	Insignificant	Low	Insignificant	тот
9 Extreme He	at Increasing mean temperature, and frequency and severity of extreme heat events resulting in energy infrastructure failure and impacting reliability of energy supply and overall costs.		•		•		Asset Damage, Financia	d .	Rare	Minor	Low	Unlikely	Minor	Low	Minor	Modine	Mean summer temperatures can increase up to 27 degrees by the end of the century.	National Grid's Climate Resilience Strategy will ensure the risk from extreme heat will be reduce as outlined in their strategy under 5.2.3.		Rare	Insignificant	Low	Unlikely	Insignificant	Low	Insignificant	Low
	ty Lack of water available to sustain vegetation					•	Environmental		Rare	Minor	Low	Unlikely	Minor	Low	Minor	Model	Precipitation during summer months expected to reduce significantly by the end of the century	Landscaping to be drought resistant or have low crop coefficient. Water efficient irrigation i.e. drip irrigation.		Rare	Insignificant	Low	Unlikely	Insignificant	Low	Insignificant	Low
11 Water scarc	ty Reduced water supply for building users.				•		Health & safety		Unlikely	Minor	Low	Unlikely	Minor	Low	Minor	Modius	Precipitation during summer months expected to reduce significantly by the end of the century	South Staff's Water (Incorporating Cambridge Water) Resilience Action Plan outlines measures to ensure a secure and reliable supply of water for the long term. This can be found in their Reliance Plan under 4.3 Operational Resilience. Water efficient fittings and fixtures in dwellings and non- domestic buildings.		Unlikely	Insignificant	ТОМ	Unlikely	Minor	Low	Insignificant	Том
12 Extreme Wii	d Extreme wind events may cause damage to building structures and occupants				•	•	Asset Damage, Health & Safety	Best practice construction standards	Rare	Minor	Low	Unlikely	Minor	Low	Minor	-	Annual average wind speed is not expected to change significantly for the design period.	Undertake regular monitoring of trees and large bushes in the area, pruning as necessary to avoid damage to buildings in the event of a storm with high wind speeds.		Rare	Insignificant	Том	Unlikely	Insignificant	Low	Insignificant	Том
13 Flooding	Increased winter rainfall resulting in an increased likelihood of fluvial flooding		•				Asset Damage, Health & Safety, Operations		Unlikely	Minor	Гом	Unlikely	Minor	Low	Minor		Winter rainfall to increase by 19% over the design life of the proposed development.	The proposed drainage strategy to be designed to accommodate a 40% increase in precipitation due to climate change, exceeding the likely projected changes in an extreme (RCP8.5) climate change scenario. Monitor extent to which flooding is occurring. If risk is recurring, when current drainage system reaches end of design life, consider incorporating more outlets, steeper gradients or increase eaves gutter catchment to increase flow capacity. Consider introducing a drainage maintenance/operation plan so that the drainage system is monitored and kept blockage free.		Unlikely	Insignificant	ТОМ	Unlikely	Insignificant	Low	Insignificant	тот
	Increased summer temperatures combined with reduced rainfall increases the susceptibility of the site to wildfires				•	•	Environmental, Asset Damage		Rare	Minor	Low	Rare	Minor	Low	Minor	-	Due to site location, wildfires unlikely to pose significant risk	No further adaptation measures required		Rare	Insignifica nt	Том	Rare	Insignifica	Low	Insignifica	Том
15 Extreme rair	fall Extreme rainfall events leading to high volumes of water captured on roofs, resulting in damage to roof and drainage systems. This can result in internal flooding		•		•		Asset Damage, Health & Safety	Incorporation of Sustainable Drainage Systems (SuDS) such as swales and rair gardens.	Unlikely	Moderate	Medium	Unlikely	Moderate	Medium	Moderate	4	Winter rainfall to increase by 19% over the design life of the proposed development.	The proposed drainage strategy to be designed to accommodate a 40% increase in precipitation due to climate change, exceeding the likely projected changes in an extreme (RCP8.5) climate change scenario.		Unlikely	Minor	Гом	Unlikely	Minor	Low	Minor	Medium

