

Cambridge Waste Water Treatment Plant Relocation Project
Anglian Water Services Limited

Environmental Statement

Appendix 2.6:

Mitigation Tracker

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1 Introduction

1.1 Anglian Water Services Limited

- 1.1.1 Anglian Water Services Limited (the 'Applicant') is the largest regulated water and water recycling company in England and Wales by geographic area, supplying water and water recycling services to almost seven million people in the East of England and Hartlepool.
- 1.1.2 The Applicant is committed to bringing environmental and social prosperity to the region they serve, through their commitment to Love Every Drop. As a purpose-led business, The Applicant seeks to contribute to the environmental and social wellbeing of the communities within which they operate. As one of the largest energy users in the East of England, they are also committed to reaching net zero carbon emissions by 2030.

1.2 Introduction to the relocation project

- 1.2.1 Anglian Water's Cambridge Waste Water Treatment Plant Relocation project (CWWTPRP) ("the Proposed Development") is funded by Homes England, the Government's housing accelerator which seeks to improve neighbourhoods and grow communities by releasing land for development.
- 1.2.2 The Proposed Development involves the relocation of the existing Cambridge Waste Water Treatment Plant (WWTP) currently operating at Cowley Road, Cambridge, to a new site between Horningsea, Fen Ditton and Stow cum Quy, adjacent to the A14 in Cambridgeshire.
- 1.2.3 The relocation would make the site of the existing WWTP available to form part of the development of a new low-carbon city district, known as North East Cambridge. The site at Cowley Road, is Cambridge's last major brownfield site, and the wider North East Cambridge district proposals envisage creating around 8,350 homes and 15,000 jobs over the next 20 years.
- 1.2.4 North East Cambridge is a highly sustainable location for housing. In addition to the Homes England funding, the area has benefitted from Transport Infrastructure Fund (TIF) funding for Park & Ride, the completion of Cambridge Guided Bus public transport infrastructure, the delivery of the Cambridge North rail station and the Chisholm Trail.
- 1.2.5 North East Cambridge is one of three key strategic sites which will form "*central building blocks of any future strategy for development*" in the proposed Greater Cambridge Local Plan being jointly prepared by Cambridge City Council and South Cambridgeshire District Council that will be subject to public consultation in Autumn 2023. The North East Cambridge Area Action Plan (AAP), currently in "Proposed Submission" form, will be the planning

policy framework which ultimately guides the development of North East Cambridge city district.

- 1.2.6 The importance of the Proposed Development, both regionally and nationally, was recognised by the Secretary of State for Environment, Food and Rural Affairs (DEFRA) in January 2021, who directed that the Proposed Development is nationally significant and is to be treated as a development for which a Development Consent Order (DCO) is required (see Appendix 1-3 of the Planning Statement, App Doc Ref 7.5).
- 1.2.7 The policy context of the Proposed Development is described in more detail in the Planning Statement (Application Document Reference 7.5)

1.3 The relocation site

- 1.3.1 The relocation site was selected following comprehensive study and public consultation. The site selection process and consideration of alternatives is described in more detail in Chapter 3: Alternatives of the Environmental Statement (App Doc Ref 5.2.3).
- 1.3.2 The current environmental conditions at the existing Cambridge WWTP site and at the relocation site are described in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2). The site is located to the north-east of Cambridge and 2km to the east of the existing Cambridge WWTP, as shown on the Works Plans (App Doc Ref 4.3.1). It is situated on arable farmland immediately north of the A14 and east of the B1047 Horningsea Road in the green belt between the villages of Horningsea to the north, Stow cum Quy to the east and Fen Ditton to the south west. Two overhead lines of pylons cross the northern and eastern edges of the main development site and come together with a third line at the north eastern corner of the site. The topography is fairly flat with an approximately 4m fall across the site south west to north east.

1.4 Purpose of the Proposed Development

- 1.4.1 The Proposed Development for which the DCO is being sought will deliver all the functions of the existing Cambridge WWTP at Cowley Road, treating all waste water from the Cambridge catchment and wet sludge from the wider region.
- 1.4.2 In addition, it will have an increased capacity, being intended to treat the waste water from the Waterbeach catchment and anticipated housing growth in the combined Cambridge and Waterbeach catchment area.
- 1.4.3 The infrastructure provided as part of the main works will have a design life to at least 2090, and the supporting infrastructure (i.e. the transfer tunnel, pipelines and outfall) will have a designed capacity sufficient to meet population growth projections plus an allowance for climate change into the 2080s. Furthermore, there is capability for expansion in space that has been

provided within the earth bank and by modification, enhancement and optimisation of the design to accommodate anticipated flows into the early 2100s.`

1.5 Outline description of the Proposed Development

1.5.1 The DCO application is seeking approval for the following main elements of the Proposed Development:

- an integrated waste water and sludge treatment plant.
- a shaft to intercept waste water at the existing Cambridge WWTP on Cowley Road and a tunnel/ pipeline to transfer it to the proposed WWTP and terminal pumping station. Temporary intermediate shafts to launch and recover the micro-tunnel boring machine.
- a gravity pipeline transferring treated waste water from the proposed WWTP to a discharge point on the River Cam and a pipeline for storm water overflows.
- a twin pipeline transferring waste water from Waterbeach to the existing Cambridge WWTP, with the option of a connection direct in to the proposed WWTP when the existing works is decommissioned.
- on-site buildings, including - a Gateway Building with incorporated Discovery Centre, substation building, workshop, vehicle parking including electrical vehicle charging points, fencing and lighting.
- environmental mitigation and enhancements including substantial biodiversity net gain, improved habitats for wildlife, extensive landscaping, a landscaped earth bank enclosing the proposed WWTP, climate resilient drainage system and improved recreational access and connectivity.
- renewable energy generation via anaerobic digestion which is part of the sludge treatment process that produces biogas designed to be able to feed directly into the local gas network to heat homes, or as an alternative potential future option burnt in combined heat and power engines.
- renewable energy generation via solar photovoltaic and associated battery energy storage system.
- other ancillary development such as internal site access, utilities, including gas, electricity and communications and connection to the site drainage system.
- a new vehicle access from Horningsea Road including for Heavy Goods Vehicles (HGV's) bringing sludge onto the site for treatment and other site traffic.
- Temporary construction works including compounds, temporary highway controls, accesses and signage, fencing and gates, security and safety measures, lighting, welfare facilities, communication control and telemetry infrastructure.
- Decommissioning works to the existing Cambridge WWTP to cease its existing operational function and to facilitate the surrender of its

operational permits including removal of pumps, isolation of plant, electrical connections and pipework, filling and capping of pipework, cleaning of tanks, pipes, screens and other structures, plant and machinery, works to decommission the potable water supply and works to restrict access to walkways, plant and machinery.

- 1.5.2 Additional elements, together with more information on the above features are provided in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2). Principles of Good Design have been used to inform the development of the project, which has been guided by the National Infrastructure Commission's Design Principles, advice from the Design Council and review by the Cambridgeshire Quality Panel, as described in the Design and Access Statement (App Doc Ref 7.6).
- 1.5.3 Construction activities, likely to take 3-4 years, will include the creation of a shaft to intercept waste water at the existing Cambridge WWTP and temporary intermediate shafts between the existing Cambridge WWTP and the proposed WWTP to launch and recover a micro-tunnel boring machine. The sequence and location of construction activities are also detailed in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2).
- 1.5.4 Towards the end of the construction period, commissioning of the Proposed Development will commence, lasting for between 6 months and 1 year.
- 1.5.5 The Proposed Development will also involve the decommissioning of the existing Cambridge WWTP at Cowley Road. This is secured by the Development Consent Order and the Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and involves activities necessary to take the existing plant out of operational use and to surrender its current operational permits.
- 1.5.6 Following decommissioning, the site of the existing plant will be made available in accordance with agreements already in place with Homes England and with the master developer appointed to deliver the redevelopment of North East Cambridge
- 1.5.7 Consent is not sought under the Development Consent Order for the subsequent demolition or redevelopment of the Cowley Road site, which, as described in Chapter 2: Project Description of the Environmental Statement (App Doc Ref 5.2.2) will be consented under a separate and future planning permission, by master developers, U+I and TOWN, appointed under the agreements described above.
- 1.5.8 The relationship between the Proposed Development, the scope of the proposed DCO and the future demolition and redevelopment of the site at Cowley Road is set out in figure 1.1, below

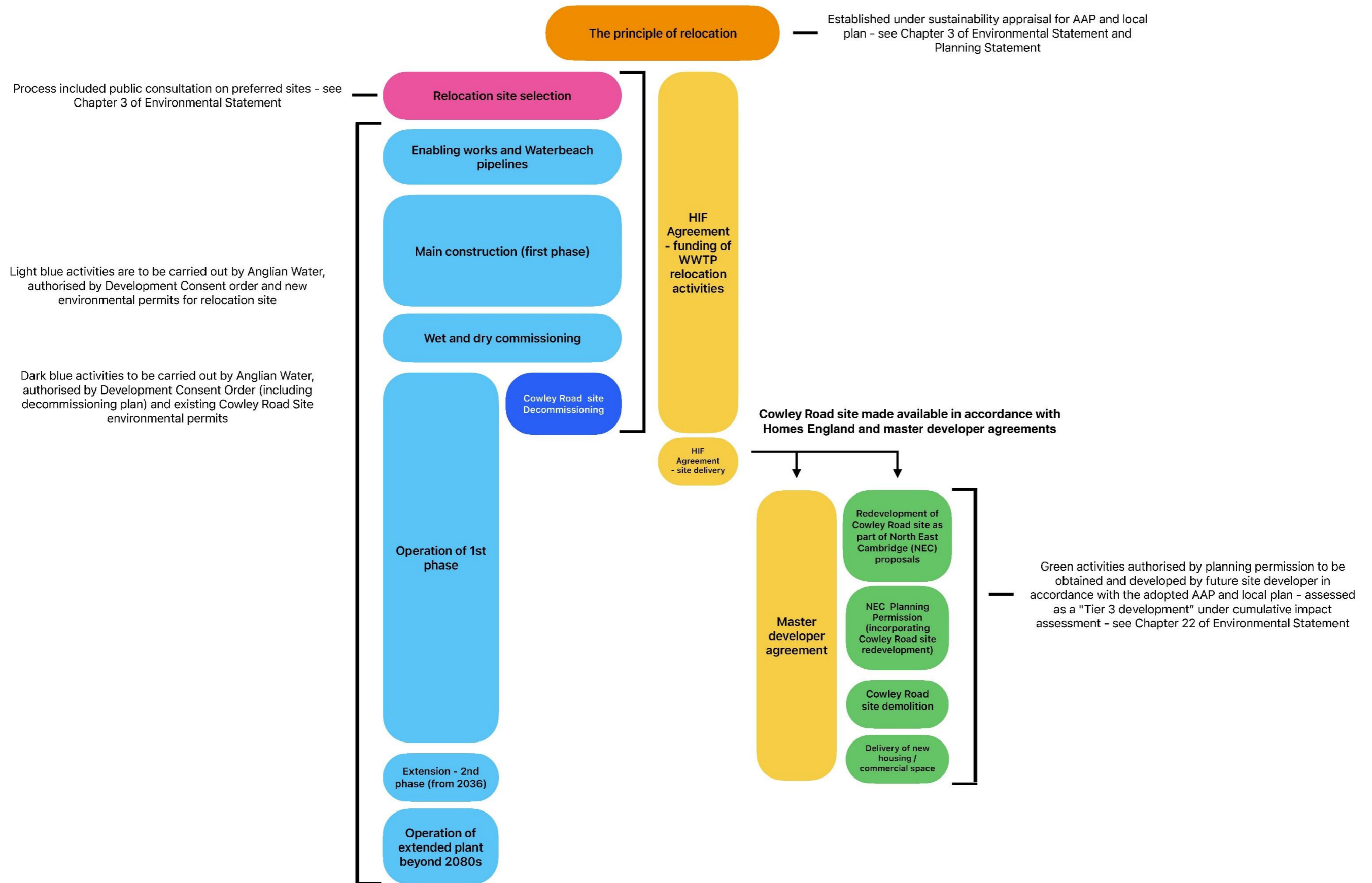


Figure 1.1: Scope of the draft DCO and the future demolition and redevelopment of the site at Cowley Road

1.6 Environmental mitigation

- 1.6.1 Through the environmental impact assessment process and community and technical stakeholder engagement the Proposed Development has incorporated comprehensive environmental mitigation, secured through the Development Consent Order.
- 1.6.2 This mitigation includes a Landscape, Ecological and Recreational Management Plan ("LERMP", Appendix 8.14, App Doc Ref 5.4.8.14) has been developed to complement regional and local initiatives, including the Wicken Fen Vision and the Cambridge Nature Network. The 22-hectare footprint of the plant is encircled by a landscaped and planted earth bank situated within the broader LERMP area of around 70-hectares.

1.7 Additional project benefits

- 1.7.1 In addition to enabling housing growth and future economic development of the Greater Cambridge area the project will also give rise to a number of additional benefits including:
- significantly reduced carbon emissions compared to the existing Cambridge WWTP, being operationally net zero and energy neutral, contributing to Anglian Water's ambition of being operationally net zero as a business by 2030.
 - greater resilience and improved storm management, meaning storm overflows and Combined Sewer Overflows (CSOs) are far less likely to occur. This means that, as Greater Cambridge continues to grow, the facility will be able to treat a greater volume of storm flows to a higher standard than would be the case at today's facility.
 - The proposed WWTP is being designed to reduce concentration in final treated effluent discharges of phosphorus, ammonia, total suspended solids and biological oxygen demand (BOD), compared to the existing Cambridge WWTP. This means that when the new facility starts to operate, water quality in the River Cam will improve.

2 Mitigation Tracker

2.1 Overview

- 2.1.1 The purpose of the Mitigation Tracker is to set out the mitigation measures presented in the Environmental Statement (Volume 5) for the Proposed Development. Table 2.1 indicates the mitigation with the DCO to be updated at the end of the examination to capture changes to requirements and s106 agreements.
- 2.1.2 The Mitigation Tracker should be read in conjunction with the Environmental Statement.
- 2.1.3 Table 2-1 provides guidance on the content of the mitigation tracker tables provided in Table 2.2 - Table 2.18 within section 2.2.

Table 2.1: Mitigation tracker guidance

Column	Explanation
Mitigation ID	Unique identification number for specific measure
Source	Identifier which is directly related to the mitigation identified within the ES or other application documentation
Measure applied to (part of the Proposed Development)	Location / project area measure applies to
Description of impact	Details of impact for which mitigation is applied to
Mitigation / commitment	Summary of the mitigation as identified within the source document.
Phase	Project phase that the measure will apply or be initiated
Reference documents	Where the mitigation measure is referenced or identified within the application documents
Securing mechanism	How the mitigation is secured such as a direct Requirement of the DCO or as s106
Related mitigation	Impacts which rely on the implementation of mitigation assigned to other impacts for example impacts to community receptors recorded in ES Chapter 11:Community are reliant on measures applied to control noise, air, odour and traffic and transport impacts.

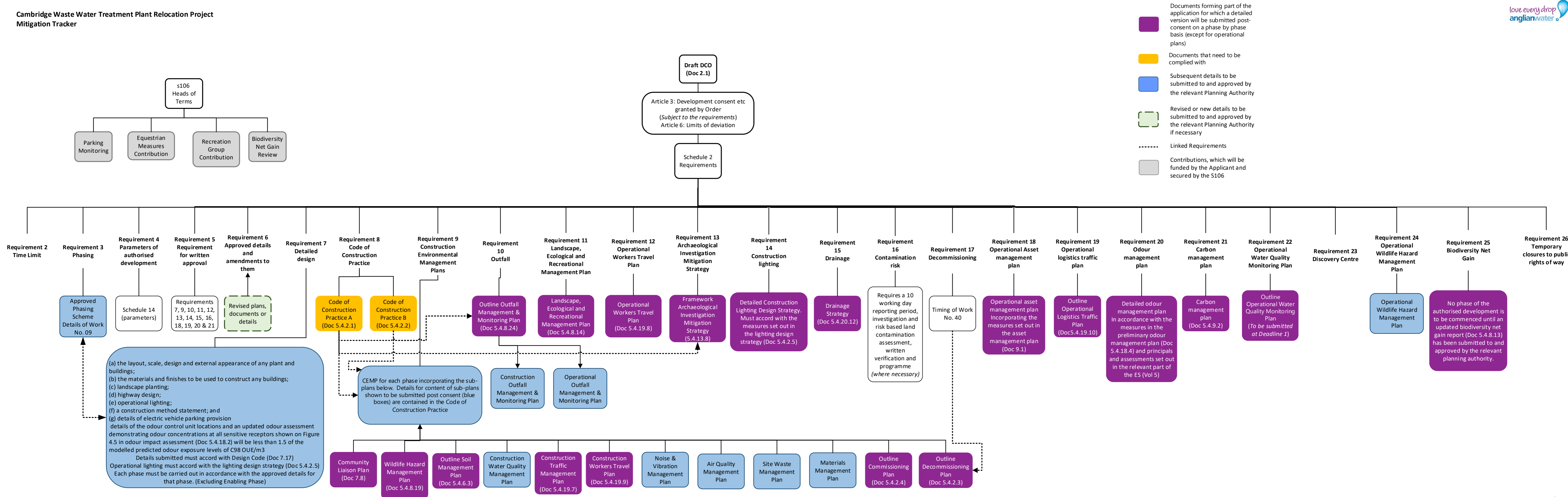


Figure 2.1: Mitigation architecture

2.2 Mitigation tracker tables

Agricultural land and soils

Table 2.2: Agricultural and soils

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-01	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Permanent loss of up to 80ha (30ha Grade 2 and 50ha Grade 3a) BMV land due to land required for the proposed WWTP, access road and landscaping proposals.	Impact reduced through the minimisation of land required.	Pre Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-02	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Permanent acquisition of land from farm businesses due to proposed WWTP impacts access to adjoining agricultural land parcels	Impact minimised through the minimisation of land required and orientation of Scheme Order Limits to avoid severance and creation of land slivers.	Pre Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-03	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Provision of land access to avoid severed land. Access for R037 and Y039 will be provided through discussion and agreement with the landowner, their tenants and or land agents. The return of land temporarily required during construction to previous use through reinstatement to original land use after construction would be in line with landowner/tenant requirements.	Construction	Section 7.4 (Land quality) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved design and work plan and agreement with landowner prior to the start of construction Approved phasing plan Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
AS-04	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Access for R037 and Y039 will be provided through discussion and agreement with the landowner, their tenants and or land agents. The return of land temporarily required during construction to previous use through reinstatement to original land use after construction would be in line with landowner/tenant requirements.	Construction	Section 7.4 (Land quality) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the	Approved design and work plan and agreement with landowner prior to the start of construction Approved phasing plan Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP)(App Doc Ref 2.1)	
AS-05	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>To reduce impacts to farm businesses the Construction Traffic Management Plan includes the details of traffic management measures such as reduced speeds, signage and haul route and access points.</p> <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and the CTMP requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access.</p>	Pre Construction Construction	<p>Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (App Doc Ref 5.4.19.7)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved design and work plan and agreement with landowner prior to the start of construction Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
AS-06	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Reduction in the quality of soil resources within the land required for the proposed WWTP due to soil compaction, run-off, water logging and contamination from leaks and spills.	Minimisation of land required by limiting construction widths and micro-siting	Pre construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-07	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Manged through soil quality and management mitigation measures within the CoCP Part A Section 7.4, Land quality (Soil management) (App Doc Ref 5.4.4.1) during construction including, but not limited to:</p> <ul style="list-style-type: none"> ● Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites; ● Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; ● Tracked/low ground pressure vehicles are used throughout stripping and haulage to 	Pre construction	Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p>	Approved phasing plan Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>reduce structural damage through compaction;</p> <ul style="list-style-type: none"> • Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and • Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows. • A detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan. The detailed SMP will include provision for management and monitoring for a period of at least 5 years following construction for areas not covered by the LERMP. 				
AS-08	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Management of excavation impact on drainage and groundwater through the requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner.	Pre construction	Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved design and work plan and agreement with landowner Approved CEMP
AS-09	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Reuse soils for planting and landscaping within the land required for the landscape masterplan, and management of these soils as part of the LERMP (App Doc Ref 5.4.8.14).</p> <p>Measures delivered during operation will be implemented through the long term application of the LERMP (App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders.</p>	Pre construction	Section 1.2 (Our approach to landscape design) of the LERMP (App Doc Ref 5.4.8.14).	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-10	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Soil management measures through the implementation of management and monitoring plan as a requirement of the LERMP	Pre construction	Section 4 (Indicative Creation, Management, and Maintenance Plan) of the LERMP (App Doc Ref 5.4.8.14).	<ul style="list-style-type: none"> As above 	Approved LERMP prior to start of construction
AS-11	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Temporary loss of up to 18ha of agricultural land (all predicted to be grade 1 and 2) from the land required for the waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Minimisation of land required and orientation of Scheme Order Limits to avoid severance and creation of land slivers.	Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-12	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.		<p>Return land temporarily required during construction to previous use through reinstatement and implementation of section 7.5 4, Land quality (Soil management), of the CoCP Part A (App Doc Ref 5.4.4.1) and application of measures within an approved a SMP based on the outline SMP (App Doc Ref 5.4.6.3):</p> <ul style="list-style-type: none"> Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites (Defra 2018); Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; Tracked/low ground pressure vehicles are used where possible throughout stripping and haulage to reduce structural damage through compaction; Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows 	Construction	Sections 4.4 (CEMP) and 5.14 (Watercourses/drainage channels) of the CoCP Part A (App Doc Ref 5.4.2.1) Section 5 Soil management measures within the Outline SMP (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-13	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Temporary requirement of land from farm businesses for construction of the waste water transfer tunnel and treated effluent transfer pipelines results in temporary disturbance from construction traffic and short-term land severance.	Impacts to farm holding Y844 are avoided through the use of trenchless technology for installation of the Waterbeach pipeline.	Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan and agreement with landowner prior to the start of construction
AS-14	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the construction of the Waste water transfer tunnel		Creation of a temporary access (CA2 on sheet 3 Access and traffic regulation order plans (App Doc Ref 4.7.3)) from the B1047 Horningsea Road to land required for the construction of the transfer tunnel and avoidance of existing farm access to Poplar Hall.	Construction	Sheet 3 Access and traffic regulation order plans (App Doc Ref 4.7.3)	<ul style="list-style-type: none"> As above 	Approved design and work plan and agreement with landowner prior to the start of construction
AS-15	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.		<p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A (Application Doc Ref: 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access.</p> <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and the CTMP requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>Minimising temporary short-term impacts to farm businesses through application of the measures required by the CTMP in particular:</p> <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian. 	Construction	<p>Section 3 (Community & Stakeholder Engagement), section 4.4 (CEMP) and section 7.6 (Traffic and transport) of the CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Sections 5.2 and 6.3 of the CTMP (App Doc Ref 5.4.19.7)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase.</p> <p>Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>Approved design and work plan prior to the start of construction</p> <p>Approved CEMP prior to the start of construction</p> <p>Approved CTMP prior to the start of construction</p> <p>Approved CLP prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-16	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Temporary requirement of agricultural land results in effect on soil resources due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills during construction of the final effluent pipeline and the waste water transfer tunnel	Impact minimised through the minimisation of construction widths of the Waterbeach pipeline corridor.	Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to start of construction
AS-17	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.		Soil quality and management mitigation measures include, but are not limited to the following: <ul style="list-style-type: none"> • Handling of site soils should always be conducted in accordance with the Construction Code of Practice for Sustainable Use of Soils on Construction Sites; • Soil handling will be limited during wet periods where soils are susceptible to structural damage when handled at high moisture content or when plastic; • Tracked/low ground pressure vehicles are used throughout stripping and haulage to reduce structural damage through compaction; • Soil stripping will be carried out in all areas subject to earthworks and will be stored and handled separately as per their type; and • Stripped soils will be stockpiled, where possible, on dry, flat ground avoiding hollows. • Where possible land drains will be avoided (Section 5.14 of CoCP Part A). • A detailed Soil Management Plan building on the outline SMP will be submitted to and approved by the LPA and will form part of a Construction Environmental Management Plan. 	Construction	Section 4.4 (CEMP) and 5.14 (Watercourses/drainage channels), Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Section 5 Soil management measures within the Outline SMP (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-18	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.		Management of excavation impact on drainage and groundwater through the requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner	Construction	Section 5.14 (Watercourses/drainage channels), Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP prior to the start of construction Approved design and work plan and agreement with landowner prior to the start of construction
AS-19	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waste water transfer tunnel and treated effluent pipelines, the outfall and habitat creation.	Effect on quality of soil resources due to temporary requirement of land for waste water transfer tunnel and treated effluent transfer pipelines	<ul style="list-style-type: none"> As for AS-17 	Construction	Sections 4.4 (CEMP), 5.14 (Watercourses/drainage channels), and 7.4 (Land quality (Soil management)) Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) (App Doc Ref 2.1). Outline SMP (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP Approved SMP required prior to the commencement of soil excavation
AS-20	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Temporary loss of up to 50 ha of agricultural land (42ha predicted to be Grades 1 and 2, deemed BMV land, with 8ha of Grade 3 land which may be BMV land depending on sub-grade) during construction of the Waterbeach pipeline	Minimising construction widths of the Waterbeach pipeline corridor.	Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to the start of construction
AS-21	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		<ul style="list-style-type: none"> As for AS-17 	Construction	Sections 4.4 (CEMP), 5.14 (Watercourses/drainage channels), and 7.4 (Land quality (Soil management)) Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Section 5 Soil management measures within the Outline SMP (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP Approved SMP required prior to the commencement of soil excavation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-22	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Temporary requirement of land from farm businesses for construction of the Waterbeach pipeline.	Design measure which creates a temporary haul route section parallel to Hatridges' Lane	Construction	Sheet 9, Access and traffic regulation order plans (App Doc Ref 4.7.3).	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to the start of construction
AS-23	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Use of trenchless techniques for the construction of the Waterbeach pipeline to avoid a land parcel between the River Cam and Fen Road in the southern extent of the Scheme Order Limits.	Construction	Works Plans (App Doc Ref 4.3)	<ul style="list-style-type: none"> As above 	Approved design and work plan prior to the start of construction
AS-24	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		<p>Minimising temporary short-term impacts to farm businesses through application of the measures required by the CTMP in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian. <p>Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A (App Doc Ref: 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of temporary changes to access.</p> <p>Minimising access disruption and disturbance through implementation of Section 7.6 of the CoCP Part A (Traffic and Transport) and CTMP including the requirement to agree temporary access through coordination with landowners, tenants and/or land agents.</p> <p>CoCP Part B section 3.4 - Final access arrangements for the following farm holdings will be agreed with the landowner as per the Land Plans (App Doc Ref 4.4), parcel numbers: 012a-</p>	Construction	<p>Section 5.2 (Temporary access points and construction road signage) and 6.3 (Adherence to Designated Routes) of the CTMP (App Doc Ref 5.4.19.7)</p> <p>Section 3 (Community & Stakeholder Engagement), 4.4 (CEMP), 7.6 (Traffic and transport) and Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Section 3.4 (Waterbeach pipeline) CoCP Part B (App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>Approved CEMP prior to the start of construction</p> <p>Approved CTMP prior to the start of construction</p> <p>Approved CLP prior to the start of construction</p> <p>Approved design and work plan and agreement with landowner prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				012m, 021a-021o, 036a-036d, 037a-037c, 039a-039c, 042a-042f, 044a-044d, 046a-046d and 055a.				
AS-25	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Temporary reduction in the quality of soil resources during the construction of the Waterbeach pipeline due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills.	<ul style="list-style-type: none"> As for AS-23 	Construction	Works Plans (App Doc Ref 4.3)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and work plan prior to the start of construction
AS-26	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		<ul style="list-style-type: none"> As for AS-17 	Construction	Sections 4.4 (CEMP), 5.14 (Watercourses/drainage channels), and 7.4 (Land quality (Soil management)) Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1) Section 5, Soil management measures, within the Outline SMP (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP prior to the start of construction Approved SMP required prior to the commencement of soil excavation
AS-27	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Management of excavation impact on drainage and groundwater through the requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner	Construction	Section 4.4 (CEMP) and 5.14 (Watercourses/drainage channels), Code of Construction Practice (CoCP) Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP prior to the start of construction Approved design and work plan and agreement with landowner prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
AS-28	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the proposed WWTP	Effect on soil resources reused within the landscape masterplan	Measures delivered during operation will be implemented through the long term application of the LERMP (App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP	Operation	Table 5.1 of the Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Detailed management and monitoring plan prepared prior to year 1 of operation
AS-29	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the Waterbeach pipeline	Permanent acquisition of land from farm businesses resulting in small areas of severance.	Management of potential impact from the location of permanent valves as set out within the CoCP Part B, Section 4.4 which requires the coordination with landowners for the final position of air valves.	Prior to start of Construction	Section 3 (Site specific measures) of the CoCP Part B (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved CEMP prior to the start of construction Approved SMP required prior to the commencement of soil excavation
AS-30	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5-2 Securing mitigation summary	Land required for the Waterbeach pipeline	Permanent acquisition of land from farm businesses due to proposed WWTP impacts access to adjoining agricultural land parcels	Management of potential impact from the location of permanent valves as set out within the CoCP Part B, Section 3.4 which requires the coordination with the land owners for the final position of air valves.	Prior to start of Construction	Section 4.4 (CEMP) of the CoCP Part B (App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approved design and work plan and agreement with landowner prior to the start of construction Approved CEMP prior to the start of construction

Air quality

Table 2.3: Air quality

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
A-01	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Land required for the proposed WWTP, and the Waterbeach pipeline, and the Existing Cambridge WWTP	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Management of construction activities to control dust risk have been determined using the recommendations set out in IAQM guidance and are described within the CoCP Part A (App Doc Ref 5.4.2.1). These measures include:</p> <ul style="list-style-type: none"> • Section 4.4 (CEMP) of CoCP Part A (App Doc Ref 5.4.2.1) which requires the Principal Contractor(s) to produce an Air Quality Management Plan(s) before works commence on site. The Plan will be appended to or incorporated into the CEMP(s). • Section 7.8 (Air Quality) of CoCP Part A (App Doc Ref 5.4.2.1) which requires the following general measures will be put in place to minimise dust including but not limited to: <ul style="list-style-type: none"> – minimising the movement of construction traffic around the working area as far as possible. – provision of adequate water supplies for effective dust/particulate matter suppression – sweeping and damping down of surfaces at regular intervals – use of enclosed chutes and conveyors and covered skips – where necessary the use of solid screens or barriers when activities will a high potential for dust generation are carried out – removal of materials which have the potential to produce dust will from site as soon as possible, unless being re-used on site. If they are being re-used on-site, they will be covered or stored in locations where there is less potential for impact – positioning of stockpiles as far as practicable from residential areas and at least 10 metres from watercourses where practical; – sealing of stockpiles by means of back blading the stockpile to help reduce 	Construction	Sections 4.4 (CEMP) and 7.8 (Air quality) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP with AQMP sub plan required prior to construction commencement (land clearance and earthworks)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				dust and to not promote areas for wildlife habitat				
A-02	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Transfer tunnel / Shaft 5		Section 3.2 (Transfer tunnel) of the CoCP Part B specifies that stockpiles associated with Shaft 5 will be back bladed with the back of the excavator bucket, to shape and compact the surface of the stockpile to control dust.	Construction	Sections 4.4 (CEMP) and 7.8 (Air quality) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.2 (Transfer Tunnel) CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved CEMP with AQMP sub plan required prior to construction commencement
A-03	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Land required for the proposed WWTP, and the Waterbeach pipeline, and the Existing Cambridge WWTP	Short term emissions from the use of construction plant results in short term reduction in local air quality	The CoCP Part A Section 7.8. (Air Quality) includes the following general measures to be in place to minimise emissions and avoid nuisance: <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible 	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.8 (Air quality) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved CEMP with AQMP sub plan required prior to construction commencement
A-04	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Local and strategic road network routes used for construction access to the proposed WWTP	Short term emissions from construction traffic using the public highway results in short term reduction in local air quality	Management of construction vehicle movements described within the CTMP (Application Document Reference 5.4.19.7) to minimise disruption on the public highway in particular: <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) of the CTMP (App Doc Ref 5.4.19.7) 	Construction	Section 6.3 (Adherence to Designated Routes) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved CTMP required prior to construction commencement
A-05	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Proposed WWTP	Operation of Whessoe Valves resulting in short term very infrequent emissions to air	Operation of the energy facility so that there is flaring of biogas prior to emergency operation of Whessoe Valves	Operation	Design Parameters of the draft DCO (App Doc Ref 2.1)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW 	Environmental permit granted prior to commission. Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							capacity and exceeds 1MW thermal input <ul style="list-style-type: none"> a permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	(and subsequent variations).
A-06	ES Chapter 07: Air quality (App Doc Ref 5.3.7) Table 5-2 Securing mitigation summary	Proposed WWTP	Operation of energy plant requiring continuous emissions of nitrogen oxides and sulphur dioxide to air resulting in reduced local air quality	Energy plant will have suitable exhaust stack height and operate in accordance with the relevant MCPD emission limit values for energy plant which will be specified within a site-specific Environmental Permit.	Operation	ES Chapter 2 (Project Description), Section 2.4 (Sludge Treatment Centre), para 2.4.3 (App Doc Ref 5.2.2). ES Chapter 7 (Air quality), Table 2-19 (App Doc Ref 5.2.7) Design Parameters of the draft DCO (App Doc Ref 2.1)	<ul style="list-style-type: none"> As above 	Environmental permit granted prior to commission. Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).

Biodiversity

Table 2.4: Biodiversity

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-01	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Temporary water quality impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging and contamination from leaks and spills.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 	Construction	Sections 7.4 (Land quality) 7.5 (Water resource and flood risk), 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction of the proposed WWTP to include appended plans including those governing water quality, emergency preparedness and response plans
BY-02	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Outfall construction extent	River Cam County Wildlife Site- Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will	Construction	Sections 4.4 (CEMP) 7.5 (Water resource and flood risk), CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)) Section 3.1 CoCP Part B (App Doc Ref 5.4.4.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase.	Approved CEMP required prior to the commencement of construction including appended plans including those governing water quality, emergency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour <p>CoCP Part B section 3.1. and requirements for site specific measures to be picked up in the OMMP including fish rescue, maintaining buffers along water bodies and pollution prevention to meet relevant permit and licence conditions.</p>			Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	preparedness and response plans
BY-03	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary			Temporary changes to water quality minimises through the temporary works design of using a cofferdam to create dry working area within the River Cam	Construction	Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2) Section 3 (Site specific measures) CoCP Part B (App Doc Ref 5.4.4.2)	<ul style="list-style-type: none"> As above 	Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval and implementation of a Outfall Management and Monitoring Plan
BY-04	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	<p>Best practice measures as detailed within CoCP parts A and B applied during construction to minimise the risk of runoff reaching ditches and watercourses</p> <p>Best practice measures as detailed within CoCP parts A and B applied for management of dewatering activities including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, 7.2 (Nature conservation and ecology), and 7.5 (Water resource and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).</p> <p>ES Chapter 2 (Project Description), para 2.12.9 (App Doc Ref 5.2.2)</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with outline OMMP (Application Document Reference 5.4.8.24)</p>	<p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).</p> <p>Approval of an Outfall Management and Monitoring Plan prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. <p>Dewatering impacts within the River Cam CWS managed through the temporary works design which specifies the use of cofferdam to create dry working area within the River Cam.</p> <p>Phasing of construction activities, Section 3.1 of the CoCP Part B, in relation to completion of in river works in summer months when water levels are expected to be lower.</p>		Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)		
BY-05	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Temporary works within the river bed during the construction of the treated effluent discharge outfall to the River Cam reduce water quality in the River Cam CWS	<ul style="list-style-type: none"> As for BY-04 	Construction	ES Chapter 2 (Project Description), para 2.12.9 (App Doc Ref 5.2.2) Sections 4.4 (CEMP) Para 4.4.4, 7.4 (Land quality), and 7.5 (Water resource and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approved CEMP prior to the start of construction. Approved Outfall Management and Monitoring Plan prior to start of construction
BY-06	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access and land required)	Construction within the land required for the proposed WWTP and landscape masterplan results in	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a	Construction	Sections 4.4 (CEMP), 7.4 (Land quality) and 7.5 (Water resources and flood risk) 7.7	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for	Approved CEMP required prior to the commencement of construction of the

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary	for landscape masterplan)	temporary impacts to the non-statutory designated site: Low Fen Drove Way Grassland and Hedges CWS due to a combination of noise, emissions to air, use of temporary lighting, land clearance and presence of people.	<p>CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to these aspects are within CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 :</p> <ul style="list-style-type: none"> prohibition of vegetation removal from the CWS routing of works access through existing pathways that cross the CWS the provision of a buffer of a minimum of 10m between works areas and extent of CWS. <p>CoCP Part A, Section 7.5, Water resources and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to:</p> <ul style="list-style-type: none"> minimising the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidents; and management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour <p>CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.</p>		(Noise and vibration) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>proposed WWTP and landscape planting</p> <p>Approved a Outfall Management and Monitoring Plan prior to start of construction</p>
BY-07	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access and land required for landscape masterplan)		Management of construction activities impacting air quality, ecology, and or resulting in increase in artificial lighting will be through further measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1):	Construction	Sections 4.4 (CEMP), 7.4 (Land quality) and 7.5 (Water resources and flood risk) and 7.7 (Noise and vibration) of the CoCP	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as	<p>Approval of a detailed construction lighting design</p> <p>Approved CEMP required prior to the</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> ● the management of air quality as set out within Section 7.8 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of ‘standard’ mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality Management Plan (AQMP) appended to/as part of the CEMP. the following general measures will be put in place to minimise emissions and avoid nuisance: <ul style="list-style-type: none"> – the engines of all vehicles and plant onsite will be turned off when not in use; – low emission vehicles and plant will be used as far as possible; and – movement of construction traffic around the working area will be minimised as far as possible ● the management of impacts to ecology as set out within Section 7.2 of the CoCP Part A, Ecology and Nature Conservation, sets out a framework for the controls to be implemented during construction, identifying a number of ‘standard’ mitigation measures which will be implemented whilst construction work takes place. These will be reflected in the CEMP(s) and other relevant sub-plans appended to/as part of the CEMP(s). This covers general measures including pre-works checks and tool-box talks and measures in relation to each of the following: <ul style="list-style-type: none"> – Nesting birds – Bats – Badger – Otter – Reptiles – Riparian and aquatic habitat – Other protected species – Invasive species – Biosecurity – Tree/hedgerow removal 		Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	<p>being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)</p>	commencement of construction of the proposed WWTP and landscape planting

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-08	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access and land required for landscape masterplan)		The management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure and deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) CoCP Part A Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to the start of construction
BY-09	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Removal of habitats in relation to temporary and permanent use of the land (such as for laydown areas, open cut trenching, HDD drilling, construction compounds, proposed WWTP and associated access) resulting in habitat loss, fragmentation and severance of wildlife corridors	Habitats removed to be replaced by planting of habitats of higher ecological value in line with landscape masterplan within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14). Management of construction activities will be through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are: <ul style="list-style-type: none"> the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. The implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 17 App Doc Ref 5.4.8.17). the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3 App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows the requirement to reinstate hedgerows 	Construction	Section 4.4 (CEMP), 7.2 (Ecology and Nature Conservation), CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) Soil Management Plan (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Approved CEMP and associated WQMP, SMP required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines the transfer tunnel the treated effluent pipelines and outfall Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approved Outfall Management and Monitoring Plan prior to commencement of works Approved SMP prior to commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-10	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Management of construction impacts to terrestrial habitats will be through further measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. in locations of retained hedgerow there shall be consideration of additional “thickening” to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. <p>Requirement within the CoCP Part B for the translocation of plants of botanical interest if and when identified by ECoW; and inclusion within the relevant CEMP safeguarding measures for trees and hedgerows.</p>	Construction	<p>Section 4.4 (CEMP), 7.2 (Ecology and Nature Conservation) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p> <p>Section 3 CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines the transfer tunnel the treated effluent pipelines and outfall
BY-11	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Temporary and permanent removal of ditch habitat during construction due to the temporary open cut ditch crossings; and permanent loss due to the landscaping and structural proposals	<p>Management of construction activities will be through measures as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to ditch habitats are:</p> <ul style="list-style-type: none"> limiting any permanent crossing of ditches to a maximum width of 6m the implementation of measures set out under section 7.2 of the CoCP Part A in respect Riparian and Aquatic Habitats specifically: <ul style="list-style-type: none"> leaving bank and any aquatic vegetation in place for as long as practicable removing the channel bed material prior to the excavation of the trench, storing the material separately and 	Construction	Sections 4.4 (CEMP), 7.2 (Ecology and Nature Conservation) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	<p>Approved CEMP and associated WQMP, SMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> replacing it once construction works are complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants – maintaining the flow downstream of the crossing point – restoration of original bank profile on completion of the pipeline crossings – where possible completing works between August and October and or during low flow conditions to protect potential fish spawning or nursery sites 				
BY-12	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Design measures to avoid or minimise loss of habitat are retaining existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	Construction	Figure 3.1 of the Landscape Masterplan and Section 4.2 (Objectives) of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved Landscape Masterplan prior to the start of construction
BY-13	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works no 32		Designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile	Construction	Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2) Section 3 (Site specific measures) CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval and implementation of a Outfall Management and Monitoring Plan
BY-14	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 39		Creation of up to 365m of new ditch habitat as described in Appendix C of the BNG Report (App Doc Ref 5.4.8.13)	Construction	BNG Report (Appendix C, App Doc Ref 5.4.8.13)	Natural England Mitigation Licence DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Approved ditch design and construction method and monitoring statement Approval and implementation of a Outfall Management and Monitoring Plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-15	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Project wide		<p>Management of impacts to ditch habitats through further measures as described within the CoCP Part A (App Doc Ref 5.4.2.1) and Part B (App Doc Ref 5.4.2.1):</p> <ul style="list-style-type: none"> • requirement within the CoCP Part B to prepare an outfall management and monitoring plan including control measures and monitoring requirements in relation to the outfall construction • requirement within the CoCP Part B for the translocation of reedbed and any species of botanical interest affected by the works to construct the outfall and the river bank protection. Any relocation activities to be included in outfall management and monitoring plan. • requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction • requirements within CoCP Part B Section 3.1 in relation to the ditch parallel to the river Cam to re-established banks by planting native locally sourced vegetation • requirements within CoCP Part B Section 3.3 in relation to the ditch with hedgerow running to the eastern side of the proposed WWTP: <ul style="list-style-type: none"> – crossings to be minimised to 2 crossings each up to 6m width. – the final crossing locations will target existing gaps in the hedge. – the crossing of the ditch (incorporating a temporary culvert not exceeding an 8m length of the ditch) will be in accordance with a permit from the Swaffham Internal Drainage Board • Design of outfall (orientation and sizing) to minimise land required; • Minimising extent of river bank protection works 	Construction	<p>Section 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) and 3.3 (Proposed WWTP) of the CoCP Part B (App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>Land Drainage Consent from IDB (where relevant)</p>	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the Waterbeach pipelines <p>Preparation of a method statement to cover works to IDB waterbodies to accord with the requirements of IDB Permit</p>
BY-16	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works no 32	Loss of river habitats due to the construction of the outfall and associated river	Design measures to avoid or minimise loss of river habitat within the River Cam are:	Construction	ES Chapter 2 (Project Description), Section	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)	Approved design with permit in place prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary		bank protection works (river bank and river bed)	<ul style="list-style-type: none"> designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river; minimising extent of river bank protection works; and design that includes embedded 'Green' engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation. 		2.12 (The Outfall) (App Doc Ref 5.2.2) 4.13 Design Plans - Outfall	Environmental Permit (Flood Risk Activities)	
BY-17	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works no 32		Implementation of final design for outfall and river protection works to include measures required by the Environment Agency secured by the Environmental Permit (flood risk activities).	Construction	Section 3 (Site specific measures) of the CoCP Part B (App Doc Ref 5.4.4.2) Outline Outfall Management & Monitoring Plan (App Doc Ref 5.4.8.14)	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Approved outfall management plan required prior to the commencement of construction activities affecting the River Cam incorporating any conditions within <ul style="list-style-type: none"> Environmental Permit (Flood Risk Activities) Environmental Permit (Discharge to surface water)
BY-18	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works no 32	Direct and indirect impacts on water vole due to construction of the outfall and chamber, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam	Implementation of final design for outfall and river protection works to include measures required by the Environment Agency secured by the Environmental Permit (flood risk activities).	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22) ES Chapter 2 (Project Description), Section 2.12 (The Outfall) (App Doc Ref 5.2.2) 4.13 Design Plans - Outfall	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Environmental Permit (Flood Risk Activities)	Approval and implementation of a OMMP incorporating requirements within Conservation Licence (Water Vole) and Environmental Permit (flood risk activities) Approved CEMP and associated sub-plans required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								landscape planting <ul style="list-style-type: none"> the Waterbeach pipelines outfall
BY-19	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		Direct impacts to water vole minimised by the following design measures: <ul style="list-style-type: none"> inclusion of embedded 'green' engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation; and minimising loss of habitat through design of ditch crossing so that ditch profile can be reinstated once outfall construction has been completed. 	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22) ES Chapter 2 (Project Description), Section 2.12 (The Outfall) (App Doc Ref 5.2.2) 4.13 Design Plans - Outfall	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Mitigation Licence	Licence in place prior to start of works Prior to start of construction (Compensatory habitat to be completed 12 month prior to start of construction) Approval and implementation of a OMMP incorporating requirements within Conservation Licence (Water Vole) and Environmental Permit (flood risk activities) Approved CEMP and associated sub-plans required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines outfall
BY-20	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39	Direct and indirect impacts on otter due to the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the River Cam	As for water vole (BY-18 – BY-19); plus Management of construction activities as described within the CoCP Part A (App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:	Construction	Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by	Approval and implementation of a OMMP incorporating requirements within Conservation Licence (Water Vole) and Environmental Permit (flood risk activities) Approved phasing plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> adopt sensitive construction methodologies to include securing of areas to prevent access by otter; and complete pre works checks for protected species by a suitably qualified ecologist; implement measures in relation to the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. 			<p>Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)</p>	<p>Approved CEMP and associated sub-plans required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting outfall
BY-21	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		Management of lighting through the Lighting Design Strategy (App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill (thereby providing a night time safe transit route for otter).	Construction	<p>Section 5.9 (Lighting) CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (App Doc Ref 5.4.2.5)</p> <p>Section 7 Secondary Mitigation, Lighting Impact Assessment (App Doc Ref 5.4.15.3)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved construction lighting design prior to start of construction
BY-22	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32 & 39	Direct and indirect impacts on bats (roosts) due to the combination of noise, use of temporary lighting, land clearance and presence of people in close proximity to known utilised habitats	<p>Direct and indirect impacts related to works to affecting bat roosts will be through application of the mitigation measures in line with agreed Natural England licence conditions (Draft Licence included App Doc Ref 5.4.8.20) which requires the following:</p> <ul style="list-style-type: none"> provision of a tool-box talk by the licenced bat ecologist; completion of pre-works checks for works areas prior to the start of the works timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost. 	Construction	<p>Draft Natural England Mitigation Licence (Appendix 8.20, App Doc Ref 5.4.8.20)</p> <p>Sections 4.4 (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended)</p> <p>Wildlife and Countryside Act 1981 (as amended)</p> <p>Natural England Mitigation Licence DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	<p>Licence in place prior to start of works</p> <p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the Waterbeach pipelines the transfer tunnel the treated effluent pipelines and outfall

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> • use of wildlife sensitive lighting design as outlined in the Natural England licence; and • minimising severance of hedgerows and reinstatement of hedgerows to provide commuting habitat and foraging opportunities. 				
BY-23	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32 & 39		<p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A (App Doc Ref 5.4.2.1). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> • Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. • In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. 	Construction	Sections 4.4 (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the Waterbeach pipelines • the transfer tunnel • the treated effluent pipelines and outfall
BY-24	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Works No 32 & 39	Direct and indirect impacts on bats (lighting and habitat related) due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity	<p>Direct and indirect impacts related to works to affecting bat habitat will be through application of the mitigation measures in line with agreed Natural England licence conditions (Draft Licence included App Doc Ref 5.4.8.20) which requires the following:</p> <ul style="list-style-type: none"> • the use of wildlife sensitive lighting design as outlined in the draft Licence (App Doc Ref 5.4.8.20 such as <2700K, directional only with no upward orientation or light spill); and • minimising severance of hedgerows and use of translocation of hedgerows to provide commuting habitat and foraging opportunities 	Construction	<p>Draft Natural England Mitigation Licence (Appendix 8.20, App Doc Ref 5.4.8.20)</p> <p>Sections 4.4. (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended)</p> <p>Wildlife and Countryside Act 1981 (as amended)</p> <p>Natural England Mitigation Licence DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	<p>Licence in place prior to start of works</p> <p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • he Waterbeach pipelines • the transfer tunnel

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								<ul style="list-style-type: none"> the treated effluent pipelines and outfall
BY-25	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary			<p>Management of construction impacts to terrestrial habitats that may affect bat population will be through further measures as described within the CoCP Part A (App Doc Ref 5.4.2.1 & 2). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. In locations of retained hedgerow there shall be consideration of additional “thickening” to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist 	Construction	Sections 4.4 (CEMP) & 7.2 (Ecology & Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1) Section 3.3 (Waterbeach pipeline) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> the proposed WWTP and landscape planting the transfer tunnel the treated effluent pipelines and outfall
BY-26	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Enhancement roost feature installation by mounting woodcrete type bat boxes suitable for a range of bat species to use, upon appropriate trees within the landscape masterplan; early planting of larger specimen trees and hedgerow plants within the landscape masterplan to provide vegetative features for commuting linkages and foraging resources as soon as possible; and thickening of hedgerows along the boundaries of the landscape masterplan area as appropriate, with native species plantings to enhance commuting linkages for bats to use.	Construction	Section 3.4 (Biodiversity) of the Landscape, Ecological and Recreational Management Plan (LERMP) (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approval and implementation of a detailed management and monitoring plan in line with Table 5.1 in the LERMP
BY-27	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes	Construction	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) Section 7 (Secondary Mitigation) of the Lighting Impact	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).		Report (App Doc Ref 5.4.15.3)		
BY-28	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan	Direct and indirect impacts on badgers due to direct interface with habitat (including closure of outlier sett) and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in close proximity to setts	<p>Direct and indirect impacts related to works to affecting badger will be through application of the mitigation measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included App Doc Ref 5.4.8.21) which requires the following:</p> <ul style="list-style-type: none"> • provision of a tool-box talk by the suitably experienced ecologist; • completion of pre-works checks; • checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals • securing of areas to prevent access by badger 	Construction	<p>Appendix 8.21 Confidential Badger Ghost Licence Method Statement (App Doc Ref 5.4.8.21)</p> <p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) within the CoCP Part A (App Doc Ref 5.4.2.1)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended)</p> <p>Wildlife and Countryside Act 1981 (as amended)</p> <p>Natural England Mitigation Licence DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the transfer tunnel • the treated effluent pipelines and outfall
BY-29	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		<p>In addition to licence requirement the management of construction activities as described within the CoCP Part A(App Doc Ref 5.4.2.1) in section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures (including to locations not covered by the licence) during construction to prevent impacts to badger including:</p> <ul style="list-style-type: none"> • completion of pre-works checks (including areas not covered by licence); • checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals • securing of areas to prevent access by badger 	Construction	<p>Sections 4.4 (CEMP), 5.9 (Lighting), and 7.2 (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.3 (Waterbeach pipeline) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	<p>Approved CEMP required prior to the commencement of construction of</p> <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the transfer tunnel • the treated effluent pipelines and outfall

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-30	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)] and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) , which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Sections 4.4 (CEMP), 5.9, (Lighting), and 7.2 (Ecology and Nature Conservation) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) Section 7 (Secondary Mitigation), Lighting Impact Report (App Doc Ref 5.4.15.3)	<ul style="list-style-type: none"> As above 	Approved CEMP required prior to the commencement of construction of <ul style="list-style-type: none"> the proposed WWTP and landscape planting the transfer tunnel the treated effluent pipelines and outfall
BY-31	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan	Direct and indirect impacts on terrestrial invertebrates due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in proximity	Design measures to minimise loss of terrestrial habitat that may support invertebrate populations includes retaining the existing ditch with hedgerow within the land required for the landscape masterplan contained with the LERMP (App Doc Ref 5.4.8.14). The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within “bee bank” bare earth patches. Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP.	Construction	Figure 3.1 and section 3.4 (Biodiversity) within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved Landscape Masterplan prior to the start of construction
BY-32	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Same further measures as related to the impact of removal of habitats as a result of the temporary and permanent use of the land (BY-10), plus the requirement to implement the LERMP in operation for a period of up to 30 years to ensure effective delivery of BNG through the landscape masterplan.	Construction	Figure 3.1 and section 3.4 (Biodiversity) within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with Table 5.1 of the LERMP prior to the start of construction
BY-33	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Land required for the Proposed WWTP, access and landscape masterplan		Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:	Construction	Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Lighting Design Strategy (Appendix	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved CEMP required prior to the commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> • the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible • the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. • the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17). • the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows <p>Further measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2. 2). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> • any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. • in locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. 		<p>2.5, App Doc Ref 5.4.2.5).</p> <p>Section 7 (Secondary Mitigation), Lighting Impact Report (App Doc Ref 5.4.15.3)</p> <p>Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)</p> <p>Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17).</p>	<p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-34	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39	Direct and indirect impacts on fish due to the combination of noise, the use of temporary lighting and works directly within and adjacent to the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	<p>Direct impacts minimised by the following design measures:</p> <ul style="list-style-type: none"> design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river and along the banks inclusion of embedded 'green' engineering features within river bank protection works that seeks to maintain hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation; minimising loss of habitat through design of ditch crossing so that ditch profile can be reinstated once outfall construction has been completed. 	Construction	<p>ES Chapter 2 Project Description, Section 2.12 The Outfall (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p>	<p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)</p> <p>Conditions set out within a Environmental Permit (Flood Risk Activities)</p>	<p>Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the outfall as secured through applicable Environmental Permit (flood risk activities).</p> <p>Approval and implementation of a OMMP incorporating requirements within and Environmental Permit (flood risk activities) including fish rescue and dewatering controls associated with Environmental Permit (Discharge to surface water)</p>
BY-35	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		<p>Management of construction activities will be through measures as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to ecological features, surface water, and impacts from the generation of noise. The best practice measures applied during construction in relation to fish are:</p> <ul style="list-style-type: none"> CoCP Part A, Section 7.2, Ecology and nature conservation, in respect Riparian and Aquatic Habitats specifically: <ul style="list-style-type: none"> leaving bank and any aquatic vegetation in place for as long as practicable removing the channel bed material prior to the excavation of the trench, storing the material separately and replacing it once construction works are complete to promote rapid colonisation of the area by aquatic invertebrates and aquatic plants maintaining the flow downstream of the crossing point 	Construction	<p>Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and 7.5 Water Resources and Flood Risk, Dewatering CoCP Part A, (App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>Approved CEMP including WQMP and NVMP required prior to the commencement of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>-where possible completing works between August and October and/or during low flow conditions to protect potential fish spawning or nursery sites</p> <ul style="list-style-type: none"> ● CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to: <ul style="list-style-type: none"> – the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. – manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour ● CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP. 				

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-36	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).	Construction	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 7 (Secondary Mitigation) Lighting Impact Report (App Doc Ref 5.4.15.3) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved CEMP required prior to the commencement of construction
BY-37	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32 & 39		Management of commissioning activities through application of management plans, Section 8 (Appendix 2.5, App Doc Ref 5.4.2.5), and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)	Approved CEMP required prior to the commencement of construction including commissioning management plan
BY-38	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan	Direct and indirect impacts on ditch macrophytes due to open cut works to cross ditches and the potential short-term change in water quality from dewatering, and run-off from nearby construction works	Direct impacts minimised by the following design measures: <ul style="list-style-type: none"> minimising loss of habitat through design of ditch crossing so that ditch profile can be reinstated once outfall construction has been completed. 	Construction	Design Plans – Outfall (App Doc Ref 4.13). CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) (Sections 4.4 CEMP, 5.7, Pollution Incident	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the	Approved CEMP and associated sub-plans Approved outfall management and monitoring plan required prior to the commencement of construction activities

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Design to incorporate bank and bed protection will be provided as part of the design. This will be in the form of rip rap bed protection and steel sheet piling to protect the banks as shown in the Design Plans – Outfall (App Doc Ref 4.13). <p>CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of best practice measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to:</p> <ul style="list-style-type: none"> the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour 		Control Plan Section. 7.2, Ecology and Nature Conservation, and 7.5 Water resources and flood risk (dewatering) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	affecting the River Cam incorporating requirements within <ul style="list-style-type: none"> Environmental Permit (flood risk activities) Environmental Permit (Discharge to surface water)
BY-39	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		<p>Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) and Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These will incorporate measures in the CoCP:</p> <ul style="list-style-type: none"> Section 7.5. (Water Resources and Flood Risk) which requires a series of general measures to be put in place to avoid and minimise impacts to surface water including but not limited to: <ul style="list-style-type: none"> best practice measures applied for management of leaks and spillages to 	Construction	Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River works), 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>prevent runoff reaching controlled waters</p> <ul style="list-style-type: none"> - limiting works to within 8 m of any watercourse or waterbody - identification of watercourses and land drains before construction works in that area commence and regularly checked for signs of silt. - checking of excavation plant prior to use at open cut watercourse crossings to ensure it is in a sound condition and free of potentially contaminating materials; - where possible, concrete lorries will return to their supplier or batching plant for wash out. Concrete wash out skips if required on site will be lined and located at least than 50 metres from a borehole or 10 metres from a watercourse or surface water drain. They will be placed on -hardstanding or on the ground with plastic and membrane containment and clearly marked to avoid cross contamination. Any wash out areas within the working areas will be inspected weekly by the Site Manager to ensure there are no leaks or overflows. The pH of the wash out water will also be monitored; - where needed the use of suitable concrete mixes in watercourses; - surface water drainage around any batching plants will be controlled. - where required adequate dewatering will be undertaken during excavation activities or construction of subsurface features and foundations (see the section on Dewatering below). Construction techniques may also be reviewed to determine whether an alternative approach is more appropriate. Following completion of in channel works, the channel will be cleared of debris/materials, the natural bed reinstated. - management of silt during construction including meeting 				

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>requirements of regulatory position statement (RPS)</p> <ul style="list-style-type: none"> – completion of works affecting watercourses and flood defences in accordance with the requirements of the relevant regulatory authority (Lead Local Flood Authority/Environment Agency/Internal Drainage Board). – requirement for all necessary consents and licences will be applied for and obtained from the relevant regulatory authority prior to the relevant works commencing on site. 				
BY-40	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32	Direct and indirect impacts on macroinvertebrates due to works directly within the river and the potential short-term change in water quality from dewatering, run-off and from testing and commissioning activities	<ul style="list-style-type: none"> • As for fish (BY-35) <p>The OMMP will include specific measures on translocation and management of macrophyte species in the vicinity of the outfall.</p>	Construction	As for 'direct and indirect impacts to fish'	As for 'direct and indirect impacts to fish'	As for 'direct and indirect impacts to fish'
BY-41	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan	Direct and indirect impacts on reptiles	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> • complete pre works checks by suitably experienced ecologist • complete clearance activities in accordance with approved methods • to translocate reptiles potentially affected by the works • to reinstatement of land temporarily used for construction 	Construction	Sections 4.4, CEMP and 7.2, Ecology and Natures Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>Approved phasing plan Approved CEMP and associated sub-plans required prior to the commencement of construction of</p> <ul style="list-style-type: none"> • the proposed WWTP and landscape planting • the transfer tunnel • the treated effluent pipelines and outfall <p>Approval and implementation of a Reptile Management Strategy</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-42	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 7.2 (Ecology and Nature Conservation) which requires the Principal Contractor(s) to produce a Reptile Mitigation Strategy before works commence on site. It is proposed that the impact upon reptiles be mitigated through a combination of:</p> <ul style="list-style-type: none"> the use of reptile fencing (around the proposed WWTP), the practice of sensitive vegetation clearance and management including hard searches as appropriate local translocation. the provision of reptile specific 'tool-box talk' to site staff prior to any work being carried out. the use of staged cuts in a directional manner, as guided by the ECoW or other suitably experienced ecologist identified by the ECoW 	Construction	<p>Sections 4.4, CEMP and 7.2, Ecology and Natures Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p> <p>Section 3 (Site specific measures) CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)</p>	<ul style="list-style-type: none"> As above 	Approved CEMP required prior to the commencement of construction
BY-43	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		Design measures to include a mosaic of suitable habitats (bare areas, grassland, scrub, seasonal ponds) along with reptile hibernacula within the land required for the landscape masterplan contained with the LERMP (App Doc Ref 5.4.8.14) to provide suitable habitat for reptiles	Construction	Figure 3.1, Section 3.4 (Biodiversity), and Table 5-1 within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	<p>Approval of a detailed landscape masterplan prior to start of construction</p> <p>Implementation of approved detailed management and monitoring plan in line with Table 5.1 of the LERMP at operation</p>
BY-44	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Final effluent and storm pipelines & outfall	Direct and indirect impacts on breeding birds (final effluent pipeline and transfer tunnel)	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out best practice measures for the prevention of impacts to birds including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> complete pre works check by suitably experienced ecologist; avoid the nesting bird season as appropriate to any species found; and 	Construction	Sections 4.4, CEMP, and 7.2, Ecology and Nature Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>Approved CEMP required prior to the commencement of construction of:</p> <ul style="list-style-type: none"> the transfer tunnel the treated effluent pipelines and outfall

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> complete clearance activities completed in accordance with approved methods 				
BY-45	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Final effluent and storm pipelines & outfall		Same further measures as related to the impact of removal of habitats as a result of the temporary and permanent use of the land, plus the requirement to implement the LERMP in operation for a period of up to 30 years to ensure effective delivery of BNG through the landscape masterplan.	Construction	LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14) DCO Schedule 2 Requirement 25 which required a biodiversity net gain report has been submitted to and approved by the relevant planning authority.	Implementation of approved detailed management and monitoring plan in line with Table 5.1 of the LERMP
BY-46	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Final effluent and storm pipelines & outfall		Best practice measures in section 7.2 to operate in compliance with the 1981 Act: <ul style="list-style-type: none"> pre works check by suitably experienced ecologist; avoidance of nesting bird season as appropriate to species found; and clearance activities completed in accordance with approved methods 	Construction	Sections 4.4, CEMP and 7.2, Ecology and Nature Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction
BY-47	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan	Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area)	Design measures to include trees and woodland, scrub, grassland and seasonal ponds within the land required for the landscape masterplan contained with the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) to provide suitable habitat for a variety of bird species. Grassland seed mixes will incorporate grass and forb species to support a range of birds, including turtle doves. A range of bird nest boxes will be installed on suitable retained trees.	Construction	LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Implementation of approved detailed management and monitoring plan in line with Table 5.1 of the LERMP
BY-48	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts to birds including best practice measures in section 7.2 applied during construction to:	Construction	Sections 4.4, CEMP and 7.2, Ecology and Nature Conservation, of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are	Approved CEMP required prior to the commencement of construction of the proposed WWTP and landscape planting

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> complete pre works check by suitably experienced ecologist; avoid the nesting bird season as appropriate to any species found; and complete clearance activities completed in accordance with approved methods 			relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	
BY-49	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce Birdstrike Hazard Management Plan before works commence on site. The plan will be appended to or incorporated into the CEMP(s). It will incorporate measures that</p> <ul style="list-style-type: none"> set out the required monitoring for changes to bird assemblages measures to prevent increase risk of attracting species of birdstrike concern 	Construction	Section 4.4 (CEMP) Para 4.4.4., 5.15 (Cambridge Airport), and 7.2 (Ecology and Nature Conservation) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management (App Doc Ref 5.4.8.18) plan relating to construction	Approved CEMP required prior to the commencement of construction of the proposed WWTP and landscape planting Approved birdstrike hazard management plan for construction
BY-50	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging, contamination from leaks and spills and air emissions.	As for impacts to Stow-cum-Quy Fen SSSI related to the construction of the proposed WWTP plus the implementation of measures to manage drilling fluid break out as defined within the CoCP Part A section 7 (Management of the environmental effects).	Construction	Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and Section 7.5 Water resources and flood risk (dewatering) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))	Approved CEMP and associated sub plans required prior to the commencement of construction of the Waterbeach pipelines
BY-51	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and 	Construction	Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), 7.5 (Water resources and flood risk), 7.7 (Noise and vibration, 7.8 (Air quality) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approved CEMP and associated sub plans required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>control of dewatering discharge rates to prevent scour.</p> <ul style="list-style-type: none"> measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained Application of measures to manage drilling fluid break out as defined within the CoCP Part A section 7.4. <p>The management of air quality as set out within Section 7.8 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality Management Plan (AQMP) appended to/as part of the CEMP. This includes the following general measures to be put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; the use of low emission vehicles and plant as far as possible; and the movement of construction traffic around the working area will be minimised as far as possible 				
BY-52	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts on water quality within the River Cam CWS during construction due to, run-off, water logging and contamination from leaks and spills.	Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s).	Construction	Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and Section 7.5 Water resources and flood risk (dewatering) of	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must	Approved phasing plan Approved CEMP and associated sub-plans required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>These plans will include best practice measures requirements including:</p> <ul style="list-style-type: none"> • minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank • management dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour. • measures applied for management of leaks and spillages • requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs which will be prepared) where spillage can be more easily contained 		the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	
BY-53	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline	As for the removal of terrestrial habitats associated with the construction of the proposed WWTP with the inclusion of a section of trenchless construction between Ch+475.0m to +972.0m (refer to App Doc Ref 4.14.11).	Construction	Sections 4.4, CEMP, 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation, and Section 7.5 Water resources and flood risk (dewatering) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-54	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Best practice measures to operate in compliance with the 1981 Act as appropriate:</p> <ul style="list-style-type: none"> pre works check by suitably experienced ecologist best practice vegetation clearance methods 	Construction	Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines
BY-55	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of construction activities will be through measures as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a CEMP. The best practice measures applied during construction in relation to minimising impacts to terrestrial habitats are:</p> <ul style="list-style-type: none"> the specification for the use of trenchless techniques used to avoid disturbance and damage to habitats wherever possible the delineation of working areas prior to the commencement of construction and until works are complete to prevent damage to the surrounding habitats. Minimising construction working width Reinstatement of areas temporarily disturbed during construction the implementation of tree/hedgerow protection measures which are shown on the Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17). the implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Tree Protection Plans within the Arboricultural Report (Appendix 8.17, App Doc Ref 5.4.8.17).</p> <p>Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines
BY-56	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing	Area of land for the Waterbeach pipeline	Direct and indirect impacts to water vole due to construction within and adjacent to ditches, and the combination of noise,	Direct and indirect impacts related to works to ditches will be through water vole displacement measures in line with agreed Natural England licence conditions (Draft Licence included Appendix	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended)	Approved phasing plan Approved CEMP required prior to the commencement of

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary		emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the River Cam	<p>8.22 App Doc Ref 5.4.8.22). These measures also include the:</p> <ul style="list-style-type: none"> • provision of a tool-box talk by the licenced water vole ecologist • completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works • application for licence amendments if deemed appropriate • habitat creation (ditches) • the inclusion of a section of trenchless construction between Ch+475.0m to +972.0m (refer to App Doc Ref 4.14.11) • Timing of works between 15 February and 15 April or as otherwise agreed by licence condition • Application for licence amendments if deemed appropriate and inclusion of additional measures within the application • Restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement 		<p>8.22 App Doc Ref 5.4.8.22)</p> <p>Sections 4.4, CEMP and 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation of 7.5 Water resources and flood risk (dewatering) the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p>	<p>Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p>	<p>construction of the Waterbeach pipeline</p> <p>The CEMP will incorporate the requirements of the Conservation Licence (Water Vole).</p>
BY-57	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> • minimise the risk of runoff reaching ditches and watercourses; and • manage dewatering to meet requirements of Environment Agency RPS including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour 	Construction	<p>Sections 4.4, CEMP and 5.7, Pollution Incident Control Plan, 7.2, Ecology and Nature Conservation of 7.5 Water resources and flood risk (dewatering) the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>Environment Agency RPS</p>	<p>Approved phasing plan</p> <p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-58	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of impacts to air quality through implementation of the CoCP Part A Section 7.8. (Air Quality) which includes the following general measures to be put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible 	Construction	<p>Section 4.4 (CEMP), and 7.6 (Air Quality) of the CoCP Part A)</p> <p>Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>Approved phasing plan Approved AQMP required prior to the commencement of construction of the Waterbeach pipeline</p> <p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline Approved lighting design</p>
BY-59	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of lighting through the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).</p>	Construction	Section 7 (Secondary Mitigation), Lighting Impact Assessment (App Doc Ref 5.4.15.3)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-60	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	<p>Direct and indirect impacts to otter due to construction within and adjacent to ditches, and the combination of noise, emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam which could affect normal behaviour patterns resulting in diminished population</p>	<p>As for water vole plus additional measures below. Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts to ecological features including best practice measures applied during construction to:</p> <ul style="list-style-type: none"> adopt sensitive construction methodologies to include securing of areas to prevent access by otter; pre works check by a suitably qualified ecologist; best practice measures in relation to the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002; and 	Construction	<p>Sections 4.4 (CEMP), 5.7, Pollution Incident Control Plan, 7.2, (Ecology and Nature Conservation), 7.5 Water resources and flood risk (dewatering) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	<p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Conservation Licence (Water Vole)</p> <p>Approved WQMP required prior to the commencement of construction of the Waterbeach pipeline</p> <p>Approved lighting design</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Provision of continued availability of otter access to suitable foraging and commuting habitats. 				
BY-61	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Direct and indirect impacts related to works to ditches will be through water vole displacement measures in line with agreed Natural England licence conditions (Draft Licence included Appendix 8.22 App Doc Ref 5.4.8.22). These measures also include the:</p> <ul style="list-style-type: none"> provision of a tool-box talk by the licenced water vole ecologist completion of pre-works checks for works within 5m of watercourse / works crossing ditches prior to the start of the works application for licence amendments if deemed appropriate habitat creation (ditches) the inclusion of a section of trenchless construction between Ch+475.0m to +972.0m (refer to App Doc Ref 4.14.11)) Timing of works between 15 February and 15 April or as otherwise agreed by licence condition Application for licence amendments if deemed appropriate and inclusion of additional measures within the application Restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement 	Construction	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22)	Natural England Licence Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended)	Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Conservation Licence (Water Vole)
BY-62	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of impacts to air quality through implementation of the CoCP Part A Section 7.8. (Air Quality) which includes the following general measures to be put in place to minimise emissions and avoid nuisance:</p> <ul style="list-style-type: none"> the engines of all vehicles and plant onsite will be turned off when not in use; low emission vehicles and plant will be used as far as possible; and movement of construction traffic around the working area will be minimised as far as possible 	Construction	Sections 4.4, CEMP, 7.2, Ecology and Nature Conservation and 7.8 (Air Quality) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Conservation Licence (Water Vole)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-63	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		Management of lighting through the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill (thereby providing a night time safe transit route for otter).	Construction	Section 6 (Lighting Design Strategy During Construction), Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) Section 7 Secondary Mitigation, Lighting Impact Report (App Doc Ref 5.4.15.3) CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-64	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to bats due to the combination of temporary construction noise, use of temporary lighting, land clearance and presence of people in close proximity which could affect normal behaviour patterns resulting in reduced fitness and potential for population decline.	<p>Direct and indirect impacts related to works to affecting bat habitat will be through application of the mitigation measures in line with agreed Natural England licence conditions (Appendix 8.20 Draft Licence included App Doc Ref 5.4.8.20) which requires the following:</p> <ul style="list-style-type: none"> • Provision of a tool-box talk by the licenced bat ecologist; • provision of a tool-box talk by the licenced bat ecologist; • completion of standard pre-works checks for works areas prior to the start of the works • timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); and • installation of suitable bat boxes for use by crevice dwelling species on appropriate retained trees prior to disturbing works commencing, to facilitate continued opportunities for bats to roost. • timing the works at identified roost locations to be outside of the hibernation period (where hibernation suitability has been discerned); • use of wildlife sensitive lighting design as outlined in the Natural England licence; and • minimising severance of hedgerows and reinstatement of hedgerows to provide 	Construction	<p>Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22)</p> <p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended)</p> <p>Wildlife and Countryside Act 1981 (as amended)</p> <p>Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline The CEMP will incorporate the requirements of the Natural England bat licence.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				commuting habitat and foraging opportunities				
BY-65	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to badger due to direct interface with habitat (including closure of outlier sett), temporary stopping up of setts and the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity which could affect normal behaviour patterns resulting in diminished population	<p>Direct and indirect impacts related to works to affecting badger will be through application of the mitigation measures in line with agreed Natural England licence conditions will be carried out (Draft Licence included App Doc Ref 5.4.8.21) which requires the following:</p> <ul style="list-style-type: none"> • Provision of a tool-box talk by the suitably experienced ecologist; • Completion of pre-works checks; • Checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals • Securing of areas to prevent access by badger • trenchless techniques applied to avoid damage to sett for a short section of the pipeline (+475.0m to +972.0m (refer to Figure 4.14.11) • Avoidance of loss of setts by refining works areas extents • Pre works checks to verify that the baseline is unchanged • to prevent disturbance of a badger sett whilst occupied, a buffer zone of at least 30m will be adopted where possible between the construction working area and the known extent of the active sett. 	Construction	<p>Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22)</p> <p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation), CoCP Part A (App Doc Ref 5.4.2.1)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines The CEMP will incorporate the requirements of the Natural England badger licence.
BY-66	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to reptiles due to the combination of land clearance and excavations which could result in direct killing or harm to individuals and the potential for population decline	As for impacts to reptiles associated with construction of the proposed WWTP	Construction	As for impacts to reptiles associated with construction of the proposed WWTP	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-67	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline	Direct and indirect impacts to breeding birds due to direct interface with habitat, clearance resulting in loss of roosts and foraging areas and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in proximity	As for impacts to birds associated with construction of the proposed WWTP	Construction	Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) As for impacts to birds associated with construction of the proposed WWTP	<ul style="list-style-type: none"> As above plus: Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5). 	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines
BY-68	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		<p>Management of construction activities impacting air quality, ecology, and or resulting in increase in artificial lighting will be through further measures as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1):</p> <ul style="list-style-type: none"> the management of air quality as set out within Section 6.9 of the CoCP Part A, Air quality, sets out a framework for the control of air quality during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an Air Quality/Dust Management Plan (AQMP) appended to/as part of the CEMP. This includes the following general measures to be will put in place to minimise emissions and avoid nuisance: the management of impacts to ecology as set out within Section 7.2 of the CoCP Part A, Ecology and Nature Conservation, sets out a framework for the controls to be implemented during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in the CEMP and other relevant sub-plans appended to/as part of the CEMP. This covers general measures including pre works checks and tool-box talks and measures in relation to each of the following: <ul style="list-style-type: none"> Nesting birds Bats Badger Otter Reptiles 	Construction	Sections 4.4, CEMP, 5.9, Lighting, 7.2, Ecology and Nature Conservation and 7.8 (Air Quality) of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipelines

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-69	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Area of land for the Waterbeach pipeline		The management of lighting through the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1 App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill).		Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) Section 7 (Secondary Mitigation), Lighting Impact Assessment (App Doc Ref 5.4.15.3)	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction
BY-70	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP	Removal of habitats - Milton Road Hedgerows City Wildlife Site (CiWS)	Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP which will include setting out measures for the prevention of impacts including best practice measures applied during construction to: <ul style="list-style-type: none"> complete pre works checks for protected species by suitably experienced ecologist; avoid the nesting bird season as appropriate to any species found; and complete clearance activities completed in accordance with approved methods. complete pre works checks to avoid habitats such as the existing species-rich hedgerow maintaining a buffer between the works and the CiWS 	Construction	Sections 4.4 CEMP, and 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved phasing plan Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP with potential to impact CiWS
BY-71	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP	Temporary disturbance of badger sett and associated habitat due to the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	Management of impacts to badger as a result of construction activities are through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a CEMP setting out measures for the prevention of impacts including to ecological features. The CEMP will include requirements to apply best practice measures during construction to prevent impacts to badger including: <ul style="list-style-type: none"> completion of pre-works checks across the Existing Cambridge WWTP (due to badgers being considered a mobile species); checking of works areas (pipe storage locations, excavations) for signs of badger / trapped animals 	Construction	DCO (App Doc Ref 2.1) Draft Confidential Badger Ghost Licence Method Statement (App Doc Ref 5.4.8.21) Sections 4.4 CEMP, and 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved licence in place prior to the start of construction Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> securing of areas to prevent access by badger 				
BY-72	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Air quality impacts on Stow-cum-Quy Fen SSSI due to emissions to air from the operation of the energy plant	The energy plant will have suitable exhaust stack height and operate in accordance with the relevant MCPD emission limit values for energy plant which will be specified within a site-specific Environmental Permit.	Operation	Schedule 2 (Design Parameters) of the draft DCO (App Doc Ref 2.1) Chapter 2 Project Description, Section 2.4 Sludge Treatment Centre, Steam rising boiler	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	Environmental Permit in place prior to the start of operation
BY-73	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Visitor impact on Stow-cum-Quy Fen SSSI due to the potential for an increase in visitors to the area	Management of visitor behaviours through design the landscape masterplan within the LERMP (App Doc Ref 5.4.8.14) to include: <ul style="list-style-type: none"> the provision of pedestrian and leisure cycling pathways within the landscape masterplan to formalise existing access within a location away from the SSSI 	Operation	Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final planting and management plans and procedures prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> exclusion of additional parking provision for users of Low Fen Drove Way or users accessing the landscape masterplan area to discourage additional visits to the local area by car users 				
BY-74	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Long-term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to users this includes the requirement to complete user survey at least twice a year to understand how people are interacting with the recreational space and accessing the wider network of PRow and permissive paths.	Operation	Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan including details of user monitoring of the landscape masterplan area and bridleway prior to start of operation
BY-75	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	CWS as a result of scour of the river bank from operation of the outfall	Direct and indirect impacts related to operation of the outfall will be minimised through the inclusion of scour protection within the design of the outfall.	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
BY-76	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		In addition to design measures the Applicant will be required to implement controls to emissions through operational phase requirements in compliance with the relevant Environmental Permits (flood risk activities and water discharge) for the outfall.	Operation	Outline Outfall Management and Monitoring Plan-(App Doc Ref 5.4.8.24).	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Approval and implementation of a OMMP Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).
BY-77	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Direct and indirect water quality impacts to River Cam CWS through normal operation of the outfall	The management of effluent quality through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to 	Operation	Environmental Permit Environmental Management System ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Water Discharge Activities)	Detailed design of proposed WWTP, as approved by the Environmental Permit prior to construction. Design of outfall and scour protection measures as per final design specified as part of the environmental

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				accommodate future emission limit changes				permit (flood risk activities)
BY-78	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		In addition to design measures emissions to the River Cam will be controlled through operational procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Environmental permit in place prior to start of operation including EMS
BY-79	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Operation of the outfall during short term infrequent storm flows direct impacts the River Cam as a result of scour of the bank and reduce water quality and indirect impacts to River Cam CWS as a result of scour releasing further particles into the water column	The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	ES Chapter 8 (Biodiversity), Table 2.10 (App Doc Ref 5.2.28) App Doc Ref 4.13 Design Plans - Outfall	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24) Environmental Permit (flood risk activities)	Detailed design of proposed WWTP, as approved prior to construction Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities) Approval and implementation of a OMMP
BY-80	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Light spill into retained habitats from operation of lighting within the proposed WWTP impacts Low Fen Drove Way Grasslands and Hedgerows CWS which will not benefit from the screening effect of established vegetation until year 15 of operation	Design measures to prevent or minimise artificial light impacts are: <ul style="list-style-type: none"> wildlife sensitive lighting design incorporated into detailed design exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting 	Operation	Section 5 Lighting Design Strategy During Operation and Maintenance, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5) Section 7 Secondary Mitigation, Lighting	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved construction lighting design prior to start of construction Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>columns of 5m within the proposed WWTP</p> <ul style="list-style-type: none"> habitat creation within the landscape masterplan that serves a screening function once mature 		<p>Impact Assessment (App Doc Ref 5.4.15.3)</p> <p>Figure 3.1, 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	<p>Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	<p>prior to start of construction</p>
BY-81	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Detailed lighting design will comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5). This includes the requirement for lighting to accord with The Institute of Lighting Professionals Advice Note- Guidance Note 1 for the Reduction of Obtrusive Light (GN01/21) (2021) or any later revisions of this document published by the Institute and Guidance Note 08/18 - Bats and Artificial Lighting.</p>	Operation	<p>Sections 4 Lighting Design Principles & Section 5 Lighting Design Strategy During Operation and Maintenance, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5)</p>	<ul style="list-style-type: none"> As above 	<p>Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1</p>
BY-82	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> inclusion of a new mosaic of habitats within in the landscape masterplan intended to link to existing habitat features of value (such as existing hedgerows and habitats as part of the CWS); implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Operation	<p>Figure 3.1, 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p> <p>Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	<ul style="list-style-type: none"> As above 	<p>Approved landscape masterplan prior to the start of construction</p> <p>Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation</p>
BY-83	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Potential surface water impacts at Allicky Farm Pond CWS due to spills and leaks within the proposed WWTP migrating beyond the site	<p>Design measures to avoid or minimise impacts to groundwater / to prevent surface water run-off from the proposed WWTP:</p> <ul style="list-style-type: none"> design of surface water drainage network to include segregated drainage system in areas of potential contamination with the proposed WWTP design of access road drainage to incorporate sustainable drainage features 	Operation	<p>Sections 4 Proposed Drainage System Philosophy for The Proposed WWTP, Section 5 Proposed Drainage Philosophy (Excluding the Proposed WWTP) & Section 6 Management and Maintenance of</p>	<p>DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).</p> <p>Consolidated Environmental Permit Environmental Permit (Water Discharges Activities)</p>	<p>Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				Operation in accordance with environmental permit for the proposed WWTP including implementation of EMS which will include materials storage controls, spill control measures, emergency response procedures		Drainage, Drainage Strategy (Appendix 20.12 App Doc Ref 5.4.20.12). Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)		
BY-84	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Management of impacts from leaks and spills in operation through the operational procedures in relation to materials storage controls, spill control measures, and emergency response procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Consolidated Environmental Permit Environmental Permit (Water Discharges Activities)	Environmental permit secured prior to start of operation supported by EMS
BY-85	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)	Direct and indirect beneficial impact to water vole due to the creation of new ditch habitat and improved treated effluent quality returned to the River Cam	Direct benefit to be realised through the continued management of the created ditch as required by application of the mitigation and monitoring measures in line with agreed Natural England licence conditions.	Operation	Draft measures set out within Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22). Appendix C BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)	Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24) DCO Schedule 2 Requirement 25 which required a biodiversity net gain report has been submitted to and approved by the relevant planning authority.	Approved ditch design through Natural England Licence Approved operational OMMP prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-86	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		<p>The management of effluent quality discharge to the river Cam through:</p> <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes 	Operation	Chapter 2 Project Description, Section 1.8 Waste water treatment overview & Section 2.15 Phasing of construction (App Doc Ref 5.2.2)	<p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)</p> <p>Environmental Permit (Water Discharge Activities)</p>	<p>Detailed design of proposed WWTP, as approved prior to construction</p> <p>Environmental permit approved prior to start of operation</p>
BY-87	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP		Measures for continuous control of emissions to the River Cam through operational procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance (App Doc Ref 5.2.2.)	Environmental Permit (Water Discharge Activities)	Environmental permit secured prior to start of operation supported by EMS
BY-88	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP	Direct and indirect beneficial impact to otter due to the creation of new ditch habitat and improved treated effluent quality returned to the River Cam	Direct benefit to be realised through the continued management of the created ditch as required by application of the mitigation and monitoring measures in line with agreed Natural England licence conditions.	Operation	<p>Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22 App Doc Ref 5.4.8.22).</p> <p>Appendix C BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)</p>	<p>Conservation of Habitats and Species Regulations 2017 (as amended)</p> <p>Wildlife and Countryside Act 1981 (as amended)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)</p> <p>DCO Schedule 2 Requirement 25 which required a biodiversity net gain report has been submitted to and approved by the relevant planning authority.</p>	<p>Approved ditch design through Natural England Licence</p> <p>Approved operational OMMP prior to start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-89	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>The management of effluent quality discharge to the river Cam through:</p> <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes 	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Water Discharge Activities)	Detailed design of proposed WWTP, as approved prior to construction Environmental permit approved prior to start of operation
BY-90	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP		Measures for continuous control of emissions to the River Cam through operational procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Environmental Permit in place prior to start of operation
BY-91	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Direct and indirect impacts to bats due to creation of new mixed habitats that will provide better foraging and commuting habitats	<p>Design measures to prevent or minimise artificial light are:</p> <ul style="list-style-type: none"> wildlife sensitive lighting design incorporated into detailed design exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP habitat creation within the landscape masterplan that serves a screening function once mature 	Operation	Sections 5 Lighting Design Strategy During Operation and Maintenance & Section 6 Lighting Design Strategy During Construction, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to start of construction
BY-92	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Detailed lighting design will comply with the Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5). This includes the requirement for lighting to accord with The Institute of Lighting Professionals Advice Note- Guidance Note 1 for the Reduction of Obtrusive Light (GN01/21) (2021) or any later revisions of this document published by the Institute and Guidance Note 08/18 - Bats and Artificial Lighting	Operation	Sections 5 Lighting Design Strategy During Operation and Maintenance & 6 Lighting Design Strategy During Construction, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5)	<ul style="list-style-type: none"> As above 	Approved lighting design prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
BY-93	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Direct and indirect impacts to badger due to creation of new mixed habitats that will provide better foraging and commuting habitats.	Design measures within the landscape masterplan within the LERMP (App Doc Ref 5.4.8.14) include the following to provide direct and indirect benefits to badger: <ul style="list-style-type: none"> Provision of a variety of habitats (woodland and tree stands, scrub and seasonal ponds) will help to support foraging and commuting badger 	Operation	Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final planting and management plans and procedures
BY-94	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32		Direct benefit to be realised through the mitigation and monitoring measures in line with agreed Natural England licence conditions.	Operation	Water Vole Natural England Ghost Licence Method Statement (App Doc Ref 5.4.8.22).	Natural England Licence Conservation of Habitats and Species Regulations 2017 (as amended) Wildlife and Countryside Act 1981 (as amended)	Approved licence in place prior to start of construction Preparation of OMMP that integrates licence requirements
BY-95	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Further measures delivered during operation will be implemented through the long term application of the LERMP (App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders.	Operation	Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
BY-96	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Direct and indirect impacts to terrestrial invertebrates due to creation of preferred habitat and creation of conditions that may provide new and or better foraging areas	Design measures to avoid or minimise impacts to terrestrial invertebrates: <ul style="list-style-type: none"> measures within the landscape masterplan within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) include including inclusion of elm, bare earth areas and seasonal ponds to provide direct and indirect benefits to terrestrial invertebrates; and the use of wildlife sensitive lighting design incorporated into detailed design for the proposed WWTP. 	Operation	Table 5.1 within the LERMP (App Doc Ref 5.4.8.14) Sections 5 Lighting Design Strategy During Operation and Maintenance & Section 6 Lighting Design Strategy During Construction, Lighting Design Strategy (Appendix 2.5 App Doc Ref 5.4.2.5)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
BY-97	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Further measures delivered during operation will be implemented through the long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to invertebrate habitat this includes the specific requirement to: <ul style="list-style-type: none"> install approximately 41 discrete deadwood and brash piles across the areas outside the earth bank within woodland 	Operation	Table 5.1 within the LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				planting areas using locally sourced material (preferably as arises from the proposed vegetation removal works). <ul style="list-style-type: none"> • monitor use of bee banks • monitoring stability of brash piles • monitoring of seasonal pond 				
BY-98	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32	Direct and indirect impact on fish from operational of the outfall due to scour from higher flow events and from operational improvements so that effluent quality is improved	Design measures to prevent or minimise impacts to fish are: <ul style="list-style-type: none"> • inclusion of a non-return valve within the outfall chamber for storm flows to prevent ingress of fish to the chamber • design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
BY-99	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> • design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam • design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes • design of storm storage volumes and flow rates to meet regulatory requirements; • inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance (App Doc Ref 5.2.2) App Doc Ref 4.13 Design Plans - Outfall	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Water Discharge Activities)	Detailed design of proposed WWTP, as approved prior to construction Environmental permit approved prior to start of operation
BY-100	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32		Management of impacts during operation will be through implementation of an Outfall Management and Monitoring Plan to include ongoing monitoring measures to identify erosion/scour of the river bank. This may trigger the need for remediation including the application of further physical interventions.	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management, The	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP	Approval and implementation of a updated Outfall Management and Monitoring Plan incorporating requirements within Environmental Permit

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Outfall (App Doc Ref 5.2.2)	(Application Document Reference 5.4.8.24)	(flood risk activities and measures for ongoing outfall monitoring prior to start of operation)
BY-101	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32	Impact of the operational of the outfall on macroinvertebrates due to operation of the outfall which may result in local scour to the river bank and indirectly through water quality improvements	Design measures to prevent or minimise scour and impacts to macroinvertebrate are: <ul style="list-style-type: none"> design of the outfall to operate within the maximum volume limits which are to be similar to those from the existing outfall; design of the outfall to include energy dissipation features 	Operation	Design Plans - Outfall (App Doc Ref 4.13)	Environmental Permit (Flood Risk Activities)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)
BY-102	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32		The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent (including nutrients) and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the Proposed Development to adapt to future changes in relation to storm storage provision 	Operation	Chapter 2 Project Description , Sections 2.15 Phasing of construction & Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Water Discharge Activities)	Detailed design of proposed WWTP, as approved prior to construction Environmental permit approved prior to start of operation
BY-103	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Works No 32	Direct and indirect impact to macrophytes due to operation of the outfall which may result in local scour to the river bank and indirectly through water quality improvements	Design measures to prevent or minimise scour and impacts to macroinvertebrate are: <ul style="list-style-type: none"> design of the outfall to operate within the maximum volume limits which are to be similar to those from the existing outfall; Design to incorporate bank and bed protection will be provided as part of the design. This will be in the form of rip rap bed protection and steel sheet piling to protect the banks as shown in the Design Plans – Outfall (App Doc Ref 4.13). 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities) Approved OMMP prior to start of operation
BY-104	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access ad land required for		The management of effluent quality and storm spill impacts through: <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within 	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance,	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)	Detailed design of proposed WWTP, as approved prior to construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary	landscape masterplan)		<p>emission limits (stricter consented limits for treated effluent (including nutrients) and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam</p> <ul style="list-style-type: none"> design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the Proposed Development to adapt to future changes in relation to storm storage provision 		Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Environmental permit approved prior to start of operation
BY-105	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		<p>CoCP Part A, Section 7.5, Surface water and flood risk which includes a number of best practice measures to be reflected within the construction Water Quality Management Plan (WQMP) appended to/as part of the CEMP, including requirements to:</p> <ul style="list-style-type: none"> the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. manage dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit – whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour 	Operation	<p>Section 7.2, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) CoCP Part A sections 4.4 Construction Environment Management Plan, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1 App Doc Ref 5.4.2.1)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p>	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP
BY-106	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) and Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These will incorporate measures in the CoCP:	Operation	Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River works), 7.2, (Ecology and Nature Conservation), and 7.5, (Water resources and flood risk) in Code of Construction	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the	Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> ● Section 7.5. (Water Resources and Flood Risk) which requires a series of general measures to be put in place to avoid and minimise impacts to surface water including but not limited to: <ul style="list-style-type: none"> – best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters – limiting works to within 8 m of any watercourse or waterbody – identification of watercourses and land drains before construction works in that area commence and regularly checked for signs of silt. – checking of excavation plant prior to use at open cut watercourse crossings to ensure it is in a sound condition and free of potentially contaminating materials; – where possible, concrete lorries will return to their supplier or batching plant for wash out. Concrete wash out skips if required on site will be lined and located at least than 50 metres from a borehole or 10 metres from a watercourse or surface water drain. They will be placed on -hardstanding or on the ground with plastic and membrane containment and clearly marked to avoid cross contamination. Any wash out areas within the working areas will be inspected weekly by the Site Manager to ensure there are no leaks or overflows. The pH of the wash out water will also be monitored; – where needed the use of suitable concrete mixes in watercourses; – surface water drainage around any batching plants will be controlled. – where required adequate dewatering will be undertaken during excavation activities or construction of subsurface features and foundations (see the section on Dewatering below). Construction techniques may also be reviewed to determine whether an alternative approach is 		Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>more appropriate. Following completion of in channel works, the channel will be cleared of debris/materials, the natural bed reinstated.</p> <ul style="list-style-type: none"> – Management of silt during construction including meeting requirements of regulatory position statement (RPS) – completion of works affecting watercourses and flood defences in accordance with the requirements of the relevant regulatory authority (Lead Local Flood Authority/Environment Agency/Internal Drainage Board). – - requirement for all necessary consents and licences will be applied for and obtained from the relevant regulatory authority prior to the relevant works commencing on site. 				
BY-107	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		CoCP Part A, Section 7.7, Noise and vibration which requires the application of best practicable measures (BPM) as defined by the Control of Pollution Act 1974 (CoPA) and the Environmental Protection Act 1990 (EPA) for the control of noise. These measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.	Construction	Section 7.7 (Noise and Vibration) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP required prior to the commencement of construction works within the existing Cambridge WWTP
BY-108	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Beneficial impacts to common reptiles and their habitats due to habitat creation within the landscape masterplan and its ongoing management through the LERMP	<p>Provision and maintenance of new habitats within the landscape masterplan for reptile species to use.</p> <p>Sensitive vegetation management strategy within the LERMP in place in line with the 1981 Act.</p> <p>Direct benefit to reptiles to be realised through measures within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> • implementation of sensitive vegetation management strategy that avoids direct injury or killing of reptiles; • inclusion of bare soil scrapes within the landscape masterplan, on south-facing 	Construction	Figure 3.9, 3.10 and Table 5.1 Landscape Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>slopes of earth banks suitable for reptiles to use to bask (insolate), and</p> <ul style="list-style-type: none"> • maintenance measures to ensure habitats are sustained 				
BY-109	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		<p>Further measures delivered during operation will be implemented through the long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to reptiles this includes the specific requirement to:</p> <ul style="list-style-type: none"> • create a total of 8 hibernacula measuring approximately 2m x 4m with 1m height • install approximately 41 discrete deadwood and brash piles across the areas outside the earth bank within woodland planting areas using locally sourced material (preferably as arises from the proposed vegetation removal works). • monitor hibernacula • monitor the stability of brash piles 	Construction	Table 5.1 Landscape Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> • As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
BY-110	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Operational noise impacts on breeding birds due to operation of the mechanical-electrical elements (such as pumps and compressors) of the proposed WWTP and during activities to implement the LERMP	Design measures to minimise operational noise impacts by design including consideration of location, layout and plant/equipment selections and acoustic screening from the earth bank and enclosures to reduce noise emissions. Noise at the proposed WWTP will be controlled under the terms of an Environmental Permit, which requires the adoption of best available techniques (BAT) to control noise at source.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> • an Industrial Emission Directive (IED) Permit to operate the integrated STC • a waste activity permit in relation to accepting commercial liquid waste from industrial processes • a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input 	Approved design prior to start of operation Environmental permit in place prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<ul style="list-style-type: none"> permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	
BY-111	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)		<p>The long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to birds this includes the specific requirement to:</p> <ul style="list-style-type: none"> provision and maintenance of seasonal ponds (intended to provide habitat needs for turtle dove) installation of bird boxes under direction of ecologist complete nest checks 	Operation	Table 5.1 Landscape Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
BY-112	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access and land required for landscape masterplan)		Control of intermittent noise impacts associated with implementation of the LERMP through avoidance of vegetation management within the landscape masterplan area during bird breeding season	Operation	Table 2-10 in ES Chapter 8: Biodiversity (App Doc Ref 5.2.8)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.2
BY-113	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Proposed WWTP (including permanent access ad land required for landscape masterplan)	Creation and management of habitats as part of the landscape masterplan results in beneficial impacts associated with more varied and quality habitat when compared to existing baseline habitats.	<p>Direct benefit to be realised through the habitat provisions and within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14):</p> <ul style="list-style-type: none"> inclusion of a new mosaic of habitats within in the landscape masterplan intended to link to existing habitat features of value (such as existing hedgerows and habitats as part of the CWS) implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Prior to start of construction (approved detailed masterplan) Prior to start of operation (Approve management and monitoring plan)	<p>Section 4 (Indicative creation, management and maintenance plan) LERMP (Appendix 8.14, App Doc Ref 5.4.8.14)</p> <p>Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
BY-114	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8)	Proposed WWTP (including permanent access		Further measures delivered during operation will be implemented through the long term application of the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	Operation	Table 5.1 Landscape Ecological and	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary	ad land required for landscape masterplan)		which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to the overall success of the LERMP there is a specific requirement to review the objectives and maintenance and management regimes every five years for 30 years.		Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)		with requirements of the LERMP Table 5.1
BY-115	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Decommissioning within the existing Cambridge WWTP	Whilst decommissioning there is the potential for accidental leaks and spills during the draining and cleaning of existing tanks and or works to stop up the existing outfall which could result in short term temporary impact to surface water including the river Cam	<p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> measures to minimise run-off and the risk of runoff reaching ditches and watercourses management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. <p>requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained.</p>	Construction (Decommissioning)	<p>CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)</p> <p>Outline Decommissioning Plan (Appendix 2.3 App Doc Ref 5.4.2.3).</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</p>	<p>Approved Phasing plan</p> <p>Approved Decommissioning Plan prior to start of works</p>
BY-116	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing	Decommissioning within the existing Cambridge WWTP		Section 5.7 specifies the content of Pollution Incident Control Plan which will detail procedures to deal with any pollution incident that may occur, including notification procedures including as relevant notification of the Applicant and where	Construction	Sections 4.4 (CEMP) Para 4.4.4. Code of Construction Practice (CoCP) Part A which requires a Water	<ul style="list-style-type: none"> As above 	<p>Approved Phasing plan</p> <p>Approved Decommissioning Plan prior to start of works</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary			applicable local authorities, along with response procedures (including appropriate materials, equipment and resources, timescales and to minimise the effects). The plan will complement and be consistent with the Emergency Preparedness Plan(s).		Quality Management Plan (WQMP), Pollution Incident Control Plan (PICP) and Decommissioning Plan (Appendix 2.1, App Doc Ref 5.4.2.1)		
BY-117	ES Chapter 08: Biodiversity (App Doc Ref 5.3.8) Table 5-2 Securing mitigation summary	Decommissioning within the existing Cambridge WWTP		Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan	Construction (Decommissioning)	Outline Decommissioning Plan (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approved Phasing plan Approved Decommissioning Plan prior to start of works

Climate resilience

Table 2.5: Climate resilience

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-01	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Higher summer temperatures: structural damage	Material specifications and the detailed design of assets, such as pipework, M&E equipment, foundations and road surfacing, will include operating tolerances taking into account future climate change	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority (App Doc Ref 2.1).	Approved detailed design prior to construction commencement
CR-02	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Thermal protection such as painting, shading or inclusion of natural ventilation / air conditioning options within buildings will be included within the detailed design	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to construction commencement
CR-03	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Buildings and structures will be designed to the climate conditions projected at the end of their design life	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to construction commencement
CR-04	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Addition of extra cooling features as necessary	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to construction commencement
CR-05	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Periodic inspection and repairs or replacement of damaged assets	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1)	Approved asset management plan prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-06	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Higher maximum summer temperatures and in-combination weather events: mechanical and electrical equipment failure	Material specifications and the detailed design of assets will include operating tolerances taking into account future climate change (design basis temperature range is -10 to 40°C, in line with the 90 th percentile maximum temperature range)	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to construction commencement
CR-07	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Design to include remote and automatic shut-off of systems. Lightning protection.	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved detailed design approved prior to construction commencement
CR-08	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Monitoring of condition during temperature extremes	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved asset management plan prior to operation phase commencement
CR-09	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Higher maximum summer temperatures: efficiency of boilers and CHP unit	Design basis temperature range is -10 to 40°C, in line with the 90 th percentile maximum temperature range	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to construction commencement
CR-10	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Ability for boiler temperature to be managed via the heating unit.	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Detailed design approved prior to construction commencement
CR-11	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Applicant's Asset Management Plan to include scheduling of maintenance and renewal works to improve efficiency of units	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved asset management plan prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-12	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Increased winter rainfall and heavy rainfall events: structural damage and flooding	Surface water drainage design avoids damage to or water ingress into buildings and structures	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design prior to the start of construction
CR-13	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection, maintenance and repair	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved asset management plan prior to operation phase commencement
CR-14	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP including access road		Keeping drainage infrastructure clear	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	<ul style="list-style-type: none"> As above 	Approved asset management plan prior to operation phase commencement
CR-15	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Management plans and business continuity plans for extreme weather conditions	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	<p>DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)</p> <p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant 	Preparation of a written EMS to cover emergency preparedness to accord with the requirements of the Environmental Permit in place prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							and to supply biomethane to the National Grid (if this option is taken forward)	
CR-16	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP including access road		Upgrade of the surface water drainage with larger pipe diameters and storage towards the end of the century.	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design prior to start of construction
CR-17	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved Asset Management Plan prior to operation phase commencement
CR-18	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Monitoring the response of the Proposed WWTP surface water drainage system to intense rainfall events and recording occurrences of surface water flooding	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	<ul style="list-style-type: none"> As above 	Approved asset management plan prior to operation phase commencement
CR-19	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall	Increased winter rainfall and higher fluvial flows: damage to the outfall structure	Design of the outfall has reduced the risk of scour in modelled fluvial flows	Operation	Design Plans – Outfall (App Doc Ref 4.13).	Environmental Permit (Flood Risk Activities)	Approved detailed design prior to construction commencement
CR-20	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall		Outfall inspection, maintenance and repair	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Approved OMMP for operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-21	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall		Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved asset management plan prior to operation phase commencement
CR-22	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines	Greater seasonal range between wetter winters and drier summers: ground movement	Buried infrastructure at depth.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Plans - Buildings (App Doc Ref 4.10) Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12) 4.13 Design Plans - Outfall (App Doc Ref 4.13) Design Plans - Waterbeach pipeline long sections (App Doc Ref 4.14) Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to construction commencement
CR-23	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Use of flexible HDPE pipe to provide resilience .	Operation	ES Chapter 2 Project Description section 3.4 Construction techniques and methodology (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Detailed design approved prior to construction commencement
CR-24	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection, maintenance and repair	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	<ul style="list-style-type: none"> As above 	Approved asset management plan prior to operation phase commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR+25	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	<ul style="list-style-type: none"> As above 	Approved asset management plan prior to operation phase commencement
CR-26	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	Increased seasonal winter rainfall and heavy rainfall events	Screening and grit handling at the terminal pumping station	Operation	ES Chapter 2 Project Description Section 2.3 Waste water treatment plan, Inlet works (App Doc Ref 5.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to construction commencement
CR-27	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection and maintenance regime to keep pipes clear and operating effectively.	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved asset management plan prior to operation phase commencement
CR-29	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	Higher maximum summer temperatures and lower summer rainfall: septicity in process plant and tunnels	Additional capacity and the ability for the final effluent flow to be recycled and rerouted back to the inlet works in order to introduce cooling	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to construction commencement
CR-30	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach pipelines		Inspection and maintenance regime to keep pipes clear and operating effectively.	Operation	ES Chapter 2 Project Description, Section 5.2 Maintenance (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approved asset management plan prior to operation phase commencement
CR-31	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of process plant activity and of temperatures to inform process changes to prevent septicity	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes 	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<ul style="list-style-type: none"> a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	
CR-32	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	Higher summer temperatures: anaerobic digestion efficiency	Size of digesters, thermal insulation and additional cooling available provided by digester design.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement
CR-33	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Addition of extra cooling units around digesters and reduction of insulation	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to construction commencement
CR-34	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of temperatures to trigger addition of extra cooling if needed	Operation	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane 	Preparation of a an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							to the National Grid (if this option is taken forward DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	
CR-35	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP and access road	Increased winter rainfall and heavy rainfall events: stormwater	Storm water management designed to include allowances for future climate change Surface water drainage design to include allowances for future climate change	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design prior to the start of construction
CR-36	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Design is such that it can support the addition of additional pumping capacity	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement
CR-37	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Storm response within the Applicant's asset management plan	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Asset Management Plan (App Doc Ref 5.4.9.1)	Integrated Environmental Permit DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.
CR-38	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of response of storm water system in extreme rainfall to inform the installation of additional storm water tanks within the capacity allowed for in the design.	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes 	Preparation of a an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						management (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) <p>Environmental Permit (Water Discharges Activities)</p>	
CR-39	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	In-combination effects during operation phase - Changes in air dispersal of the emissions from the energy plant	Capacity within the design for equipment upgrades during the operation phase	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement
CR-40	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Design that has capacity to permits enables upgrade as necessary of the energy plant during operational phase in response to environmental permitting regulations	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)	<ul style="list-style-type: none"> As above 	Prior to operation phase commencement
CR-41	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP and access road	In-combination effects during operation phase - Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats	Surface water drainage design in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2)	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved drainage design prior to the start of construction
CR-42	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP / landscape masterplan extent		Maintenance, repair and replanting of seasonal ponds	Operation	Section 5 LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-43	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent / Works No 32 & 39	In-combination effects during operation phase - Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats	Diversity of species in final planting specifications	Operation	Section 5 Table 5.1 LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Detailed design approved prior to construction commencement
CR-44	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Creation of the seasonal ponds to retain rainwater in the summer	Operation	Section 3 LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
CR-45	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Works No 32 & 39		Design of new ditches to allow installation of weir boards in the water vole ditches	Operation	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22, App Doc Ref 5.4.8.22)	Natural England Licence DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1)	<p>Licence in place prior to start of construction</p> <p>Approved detailed ditch design prior to construction commencement</p>
CR-46	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Works No 32 & 39		Installation of weir boards to manage water levels in ditches that are created as part of biodiversity mitigation	Operation	Water Vole Natural England Ghost Licence Method Statement (Appendix 8.22, App Doc Ref 5.4.8.22)	<ul style="list-style-type: none"> As above 	<p>Licence in place prior to start of construction</p> <p>Approved detailed ditch design prior to construction commencement</p>
CR+47	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent	In-combination effects during operation phase - Reduced summer and rainfall and increased winter rainfall: tree planting	Drought tolerant species selection	Operation	Section 5 LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to the start of operation
CR-48	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Watering regime to be devised through adaptive management to consider how future wooded areas and new planting will be watered.	Operation	Section 5 LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to the start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-49	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	In-combination effects during operation phase - Workforce health and safety due to extreme weather conditions (safe access during storms and flood events, health and safe working conditions during high temperatures)	Remote access and monitoring systems. Proximity to the strategic highways network.	Operation	Chapter 2 Project Description Section 2.1 (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to commencement of operation
CR-50	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Operational phase management and business continuity plans for extreme weather events to consider staff safety and welfare and safe travel to site	Operation	Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2) Section 2 Asset Management Plan (App Doc Ref 5.4.9.1)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) Environmental Permit (Water Discharges Activities)	Preparation of a an operational monitoring programme as part of the written EMS to cover periodic emergency preparedness and response to accord with the requirements of the Environmental Permit.
CR-51	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Provision of shaded areas and/or cooled buildings/refuges. Ease of replacement of equipment. Remote access and monitoring systems.	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-52	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent and reinstated planting within order limits	In-combination effects during operation phase - Reduced summer rainfall and increased drought conditions: landscaping and tree planting	Species diversity and choice of drought resilient tree species.	Operation	Table 5.1 LERMP (App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
CR-56	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP		Transfer of rainwater collected within the earth bank to the drainage network in the landscaped area	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Detailed drainage design approved prior to construction commencement
CR-57	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally	Operation	Table 5.1 LERMP (App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
CR-58	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Approval and implementation of a detailed management and monitoring plan	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14).	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1 prior to start of operation
CR-59	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP and access road-		Detailed surface water drainage design will comply with the Drainage Strategy. Drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2).	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved detailed drainage design prior to construction commencement
CR-60	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent	In-combination effects during operation phase - Warmer, wetter winters leading to increases in pest and disease outbreaks	Diversity in planting species	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						5.4.8.14). Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)		
CR-61	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Landscape masterplan extent		Landscape management - approval and implementation of a detailed management and monitoring plan	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14). Figure 3.9 and Figure 3.10 LERMP (Appendix 8.14, App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1
CR-62	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase	Increased winter heavy rainfall events and summer drought conditions: erosion of soils	<p>Surface water runoff design avoids erosion and scour.</p> <p>Drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2)</p>	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Detailed design prior to construction commencement
CR-63	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase		Landscape management design avoids exposed desiccated soils	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14).	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Detailed design prior to construction commencement
CR-64	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase		Landscape management to identify soil erosion and vegetation management	Operation	Section 4 (Indicative creation, management, and maintenance plan) Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14).	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan in line with requirements of the LERMP Table 5.1

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CR-65	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase	In-combination effects during operation phase - Higher average and maximum summer temperatures: odour	Capacity within the design to allow for the installation of additional odour mitigation in the Odour Management Unit	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	<ul style="list-style-type: none"> As above 	Detailed design prior to construction commencement
CR-66	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP - In-combination effects during operation phase		Monitoring odour emissions and upgrade plant and equipment if necessary, in response to nuisance	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	Approved OMP prior to operation phase commencement
CR-67	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Proposed WWTP	In-combination effects during operation phase - Increased winter rainfall and heavy rainfall events: water quality Reduced summer rainfall: River Cam water quality	Storm water management designed to include allowances for future climate change.	Operation	ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.) Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design prior to construction commencement
CR-68	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing	Proposed WWTP		Regulatory compliance monitoring and Environment Agency ongoing assessment of permit conditions to avoid deterioration of water quality due to discharge consents.	Operation	ES Chapter 2 Project Description Section 2.3 Waste water treatment plant (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Detailed design prior to construction commencement

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary							
CR-69	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall	In-combination effects during operation phase - Increased winter rainfall and heavy rainfall events: river scour	River bank and river bed protection is included within the outfall design. CFD modelling of discharge at the outfall includes consideration of scour impacts and includes a 20% climate change uplift	Operation	Design Plans – Outfall (App Doc Ref 4.13). Appendix 20.7 - Outfall CFD Report (App Doc Ref 5.4.20.7)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to construction commencement
CR-70	ES Chapter 09: Climate resilience (App Doc Ref 5.3.9) Table 5-2 Securing mitigation summary	Outfall		Monitoring and remedy of scour	Operation	OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)	Approved OMMP for operation phase commencement

Carbon

Table 2.6: Carbon

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CA-01	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach transfer pipeline	Capital carbon as a result of materials and activity to construct the Proposed Development	Through the design process, reduction in tunnel length and diameters reduced embodied carbon	Construction	Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
CA-02	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Tertiary treatment: Choice of sand filter provider to reduce the capital carbon intensity of this treatment process	Construction	ES Chapter 2 Project Description Section 2.3 (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to the start of construction
CA-03	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Transfer tunnel, FE and storm pipelines, outfall		Treated effluent pipelines and outfall (material specification for outfall pipelines)	Construction	Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12) Design Plans – Outfall (App Doc Ref 4.13) Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to the start of construction
CA-04	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Through the design process, optimisation of major process-tank volumes from original DMO sizes to reduce embodied carbon	Construction	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to the start of construction
CA-05	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP and permanent access		Optimisation of site road layouts and design specification to reduce embodied carbon	Construction	Design Plans - Highways and Site Access (App Doc Ref 4.11)	<ul style="list-style-type: none"> As above 	Approved detailed design prior to the start of construction
CA-06	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP built infrastructure, transfer tunnel and Waterbeach transfer pipeline		Further measures as required within the Design Code (App Doc Ref 7.17) that will continue to be optimise the detailed design and construction to reduce construction emissions, these include: <ul style="list-style-type: none"> Continued innovation review taking a balanced view of whole life carbon impact, balancing capital and operational carbon impact; 	Construction	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	The Design Code (App Doc Ref 7.17) secures monitoring of construction emissions through reporting of an updated carbon at the following stages:

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Material specification; Efficient construction and temporary works. 				<ul style="list-style-type: none"> 6 weeks prior to enabling works commencing Before commencement of main construction works Finalisation of the Detailed Design At any stage where decisions are made which impact Capital Carbon emissions of the Proposed Development by more than 5%
CA-07	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Extent of landscape masterplan	Land use change	Land use change acting to reduce emissions over the whole life of the assessment as achieved via the Landscape masterplan with the LERMP	Construction	Section 3 LERMP (App Doc Ref 5.48.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed plans
CA-07	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP	Emissions from the operation of the proposed WWTP	Inclusion of energy recovery within proposed WWTP (either CHP or G2G)	Operation	ES Chapter 2 Project Description Section 2.4 Sludge treatment centre, Heat generation, gas utilisation and storage (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) written scheme setting out phasing must confirm whether the Applicant intends to construct either a CHP or gas to grid facility as part of Work No. 9.	Decision made prior to start of construction supported by updated Carbon model to account for type of energy recovery facility taken forward
CA-08	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Solar panels to be included in the inner slope of the earth bank (for the preferred option of G2G).	Operation	ES Chapter 2 Project Description Section 2.10 Renewables infrastructure (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Decision made regarding inclusion of solar and extent prior to start of construction supported by updated Carbon model to account for solar design

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CA-09	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Gateway building to be designed to achieve BREEAM "Excellent" standard	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	BREEAM assessment completed alongside detailed design and final report issued with detailed design
CA-10	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Pumping power demand: Optimisation pumping power demand of Terminal Pumping Station (TPS) through design development	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Detailed design supported by update to carbon model with final model issued with detailed design
CA-11	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Reduction in chemicals and power demand for sludge dewatering through choice of dewatering technology and design development	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Detailed design prior to start of construction
CA-12	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Vacuum degassing post-digestion to recover more biogas to be upgraded to biomethane will be included in design	Operation	ES Chapter 2 Project Description Section 2.3 Waste water treatment plant (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Detailed design prior to start of construction
CA-13	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		Commitment through the Operational Carbon Management Plan (CMP) to secure sufficient long term offsets to cover the expected residual net annual emissions based on its detailed design stage carbon model to ensure the Proposed Development continues to meet the Applicants operational net zero commitment. It also requires the Applicant to report operational emissions from the Proposed Development annually, and if required to secure additional offsets if residual operational emissions increase to ensure the Proposed Development continues to operate within the Applicants operational net zero commitment. This requirement applies regardless of whether the gas to grid or CHP option are chosen.	Operation	Carbon management Plan (Application Document Reference 5.4.10.2)	DCO Schedule 2 Requirement 21 (Carbon management plan) (App Doc Ref 2.1) which requires the approval of a detailed carbon management plan secured to comply with Carbon Management Plan (Application Document Reference 5.4.10.2)	Plan to be submitted with approval of gas management phase
CA-14	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP and landscape masterplan	Whole life carbon	Application of the landscape masterplan with the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14): Land use change acting to reduce emissions over the whole life of the assessment	Operation	Detailed LERMP (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved landscape masterplan prior to the start of construction Detailed management and monitoring plan prior to start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CA-15	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Measures adopted in operation act to reduce emissions over the whole life of the assessment:</p> <ul style="list-style-type: none"> Follow the Net Zero to 2030 Strategy (Applicant's commitment to operational net zero emissions) including securing sufficient long term offsets to cover the expected residual net annual emissions based on its detailed design stage carbon model to ensure the Proposed Development continues to meet the Applicants operational net zero commitment. Implement the Operational worker travel plan to encourage mode shift in transport 	Operation	Carbon management Plan (Application Document Reference 5.4.10.2)}	DCO Schedule 2 Requirement 21 (Carbon management plan) (App Doc Ref 2.1) which requires the approval of a detailed carbon management plan secured to comply with Carbon Management Plan (Application Document Reference 5.4.10.2)	Once first year of operation completed
CA-16	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		As for CA-13	Operation	Carbon management Plan (Application Document Reference 5.4.10.2)	DCO Schedule 2 Requirement 12 (Operational workers travel plan) (App Doc Ref 5.4.19.8) which requires a detailed operational workers travel plan must accord with the measures set out in the operational worker travel plan	Plan to be submitted with approval of gas management phase
CA-17	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		As for CA-02 - CA-05, CA-07	Operation	<p>CA-02 - ES Chapter 2 Project Description Section 2.3 (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17)</p> <p>CA-05 Design Plans - Highways and Site Access (App Doc Ref 4.11)</p> <p>CA-07 - Section 3 LERMP (App Doc Ref 5.48.14)</p>	<p>CA02 & CA-05 - DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)</p> <p>CA-07 DCO Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	<p>Approved detailed design prior to the start of construction</p> <p>Approved landscape masterplan prior to the start of construction</p> <p>Detailed management and monitoring plan prior to start of operation</p>
CA-18	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		For operational emissions the gas to grid option adopts using renewable biomethane	Operation	ES Chapter 2 Project Description Section 2.4 Sludge treatment centre, Heat generation, gas utilisation and storage (App Doc Ref 5.2.2) Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) written scheme setting out phasing must confirm whether the Applicant intends to construct either a CHP or gas to grid facility as part of Work No. 9.	Decision made prior to start of construction supported by updated Carbon model to account for type of energy recovery facility taken forward

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CA-19	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		For both energy recovery options as for CA10, 11, 13	Operation	Design Code (App Doc Ref 7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design supported by update to carbon model with final model issued with detailed design
CA-20	ES Chapter 10: Carbon (App Doc Ref 5.3.10) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>The Design Code (App Doc Ref 7.17 further measures that will continue to be optimised throughout detailed design and construction to further mitigation construction emissions, these include:</p> <ul style="list-style-type: none"> Continued innovation review taking a balanced view of whole life carbon impact, balancing capital and operational carbon impact; Material specification; Efficient construction and temporary works. Use of low carbon fuels, where possible Utilising procurement to reduce transport distance of key materials. 	Operation	Design Code (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Detailed design supported by update to carbon model with final model issued with detailed design

Community

Table 2.7: Community

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CO-01	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	Temporary changes to access affecting residents on Low Fen Drove Way due to use during construction for access	<ul style="list-style-type: none"> As for TT02 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	<p>Approval of temporary highways connections design by the relevant planning authority prior to the start of construction</p> <p>Approval of the permanent access design by the relevant planning authority prior to the start of construction</p>
CO-02	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Implementation access controls as set out in the CTMP and Traffic and Transport measures of the CoCP in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc 	Construction	Section 7.6 (Traffic and transport) of the CoCP Part A (App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8) Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	<p>Approved CEMP required prior to the commencement of construction activities on Low Fen Drove Way</p> <p>Approved CTMP including traffic management measures required prior to the commencement of construction activities on Low Fen Drove Way</p> <p>Approved CLP</p>
CO-04	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing	Outfall	Temporary changes to recreational resources and open spaces - River Cam	Maintained navigation of River Cam throughout construction period through use of temporary river works that maintain minimum navigable width	Construction	Section 3 CoCP Part B (App Doc Ref 5.4.2.2) OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and	Approval of the construction risk assessment and method statement associated with the detailed design

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary						monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	and construction approach for the outfall as secured through applicable Environmental Permit (Flood Risk Activities) prior to the start of construction. Approved outfall management plan required prior to the commencement of construction activities affecting the river cam and its users. Notice of navigational changes provided to river users prior to the commencement of the works. Approved CLP.
CO-05	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Outfall		Measures to manage the minimum width that must be retained and provide advance warning to users of the river are outlined in section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) in particular requirement within section 3 of the CoCP Part A (Appendix 2.1, App Doc Ref: 5.4.2.1) (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion	Construction	Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Community Liaison Plan (App Doc Ref 7.8) OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Approved outfall management plan required prior to the commencement of construction activities affecting the river cam and its users.
CO-06	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Outfall / Treated effluent and storm pipelines	Temporary changes to recreational resources and open spaces - Fen Ditton (PRoW 85/6 and PRoW 85/8) due to the temporary in-river construction works to construct the outfall	Temporary diversion of the PRoW 85/6 at the outfall works area using 85/8 and a temporary path to re-join the PRoW 85/6 upstream of the outfall works area Provision of diversions and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular: <ul style="list-style-type: none"> Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and 	Construction	Section 7.6 (Traffic and transport) and 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Phasing plan Approved diversion route Approved CMTP Approved outfall management plan required prior to the commencement of construction activities affecting the river cam and its users

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>measures manage the impact upon users of the PRow during the construction period.</p> <ul style="list-style-type: none"> Implementation of section 7.6 which includes a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRow realignment or diversion a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area 			DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approved CLP
CO-07	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	Temporary changes to recreational resources and open spaces – due to the temporary use of Low Fen Drove Way for construction access	<p>Sequencing construction of the permanent access at the start to minimise disruption to Low Fen Drove Way</p> <p>Management of construction impacts to Horningsea Road through the implementation of the CTMP (App Doc Ref 5.4.19.7) in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works) including retaining access for pedestrian / cyclists to Low Fen Drove Way. Requirement within section 3 of the CoCP Part A (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for 	Construction	Sections 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of the highway) of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>Phasing plan</p> <p>Approved CEMP required prior to the commencement of construction activities on Low Fen Drove Way</p> <p>Approved CTMP including traffic management measures required prior to the commencement of construction activities on Low Fen Drove Way</p> <p>Approved CLP</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc				
CO-08	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP / Treated effluent and storm pipelines	Temporary changes to recreational resources and open spaces – Horningsea Road	<p>Management of construction impacts to Horningsea Road through the implementation of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 Facilitate safe movement of users of the highway which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works). 	Construction	<p>A requirement within Section 7.6 of the CoCP Part A and Section 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of the highway) of the CTMP.</p> <p>Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	<p>CTMP approved prior to the commencement of construction</p> <p>Approved CEMP</p> <p>Approved CLP</p> <p>Traffic management measures approved by local highways prior to implementation of traffic management measures</p>
CO-09	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary requirement for land to construct the pipeline – CBS Automotive	<p>The extent of land required temporarily has been minimised as much as practicable. Management of impacts to land temporarily required managed through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and CTMP:</p> <ul style="list-style-type: none"> requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction requirements to maintain access Implementation of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7), in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which: requires connectivity/access to community facilities and residential properties to be maintained during works. requires connectivity/access to community facilities and residential properties to be maintained during works. 	Construction	<p>Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Approval and implementation of a CEMP (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<ul style="list-style-type: none"> As above 	<p>Approved CEMP required prior to the commencement of construction activities with access measures through consultation with CBS Automotive</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which requires adequate reinstatement of any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable 				
CO-10	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Waterbeach transfer pipeline	Temporary changes to recreational resources and open space – Waterbeach PRoW (130/16, 130/10, 130/6 and 130/8) due to the temporary crossings by the pipeline construction	Provision of gated crossings and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Implementation of section 7.6 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.	Construction	Sections 4.4 CEMP (Appendix 19.7, App Doc Ref 5.4.19.7) & 7.2 Ecology and Nature Conservation, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Construction Traffic Management Plan (Appendix 2.7, App Doc Ref 5.4.2.7)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Phasing plan Approved CEMP required prior to the commencement of construction activities for Waterbeach pipeline north of Low Fen Drove Way Approved CTMP required prior to the commencement of construction activities for Waterbeach pipeline north of Low Fen Drove Way
CO-11	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	Provision of new community resources through new Discovery Centre provides benefit	The opportunity for enhanced provision of community resource through the Inclusion of Discovery Centre and continued operation throughout the operational lifetime of the proposed WWTP (by appointment)	Operation	ES Chapter 2 Project Description, Section 2.13 Further associated development and site-wide provisions, gateway building (App Doc Ref 5.2.2) Section 3.3 Anglian Water Community Education Programme within the Community Liaison Plan (Ap Doc Ref 7.8)	DCO Schedule 2 Requirement 23 (Discovery Centre) (App Doc Ref 2.1).	Approved operational plan Discovery Centre scheme, within the gateway building prior to commencement of operation to include monitoring of use of the Discovery Centre

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CO-12	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP	The presence of permanent infrastructure creates a permanent change to access in the provision of recreational resources and informal open spaces	Design measures to prevent or minimise impacts to recreational users: <ul style="list-style-type: none"> Design of outfall so as not to affect width and gradient of footpath (PRoW 85/6) Design of outfall (orientation and sizing) to minimise land required overall and to limit the extent of the structure within the river and along the banks Design of the outfall so that it integrates into the existing bank and allows for the reinstatement to existing levels 	Operation	Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2)	Environmental Permit (Flood Risk Activities) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities) Approved OMMP as part of the Environmental Permit
CO-13	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP		Direct benefits to recreation to be realised through measures within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14): <ul style="list-style-type: none"> Opportunity for access to the area in proximity to the land required for the proposed WWTP will include formalising access through the provision of permissive paths and leisure cycling access within the LERMP Change of status for up to 1.03km of existing farm track to provide a new Public Right of Way (bridleway) 	Operation	Section 3 within the LERMP (App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP prior to the start of construction Approved detailed management and monitoring plan prior to the start of operation
CO-14	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Proposed WWTP		Long-term application of the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) which requires that the operator to prepare a detailed management and maintenance plan (secured through requirements in the DCO), based on the LERMP which will be agreed with key stakeholders. In relation to users this includes the requirement to complete user survey at least twice a year to understand how people are interacting with the recreational space and accessing the wider network of PRoW and permissive paths. Opportunity for access to the area in proximity to the land required for the proposed WWTP will include formalising access through the provision of permissive paths and leisure cycling access within the LERMP.	Operation	Section 5 within the LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved detailed management and monitoring plan prior to the start of operation
CO-15	ES Chapter 11: Community (App Doc Ref 5.3.11) Table 5-2 Securing	Proposed WWTP		Enhancements for recreational users through: <ul style="list-style-type: none"> Improvements to the footway on the east and west of Horningsea Road New pedestrian crossing to access the landscape masterplan area 	Construction	Design Plans – Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1).	Approved detailed design and construction method statements prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary							

Health

Table 2.8: Health

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-01	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Project wide	Temporary concern for local communities in close proximity to the Proposed Development with regard to the presence of a construction workforce affecting social cohesion.	<p>The CoCP Part A (section 3 Community and Stakeholder Engagement, section 4.3 Considerate Constructors Scheme, section 5.2 Training and Site Induction, section 4.2 Environmental and Health and Safety Management Systems) requires all construction workers to receive appropriate training, which includes expectations regarding respecting and showing courtesy to the local community.</p> <p>A draft CLP has been prepared by the Applicant which contains measures for how communication of construction activity will be undertaken. This includes the frequency of such liaison, the status of the construction works, construction programme and a complaints procedure.</p>	Construction	Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 4.4 CEMP (Site lighting), Section 7.5 (Water resources and flood risk (dewatering)) and 5.7, (Pollution Incident Control Plan), (Appendix 2.1, App Doc Ref 5.4.2.1) outline CLP (App Doc Ref 7.8)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>Approved phasing plan</p> <p>Approved CEMP required prior to the commencement of construction activities for separate works packages / phases</p> <p>Detailed CLP relevant to different works areas</p>
H-02	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Project wide	Potential risk to human health from water pollution.	<p>As detailed in Chapter 20: Water resources. Application of groundwater protection measures in CoCP Part A section 7.5 (Water Resources and Flood Risk).</p> <p>Monitoring of water quality in available monitoring boreholes within the land required for the landscape masterplan, undertaken prior to, during and following all dewatering activities during construction at the proposed WWTP.</p>	Construction	<p>Sections 4.4 CEMP, 7.2, Ecology and Nature Conservation, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Chapter 20: Water resources (App Doc Ref 5.2.20)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and</p>	<p>Approved CEMP required prior to the commencement of construction activities for separate works packages / phases</p> <p>Approved Outfall Management Plan required prior to the commencement of construction activities affecting the River Cam and its users</p> <p>Approved Water Quality Monitoring Plan prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<p>monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)</p> <p>DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)</p>	
H-03	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP		<p>Management of construction activities as described within the CoCP Part A. in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</p> <ul style="list-style-type: none"> • measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 	Construction	<p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p> <p>Sections 4.4 (CEMP) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</p>	Approved Decommissioning Plan prior to the start of construction (decommissioning)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> • requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment • the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. 				
H-04	ES Chapter 12: Health (App Doc Ref 5.3.11) Table 5-2 Securing mitigation summary	Project wide	Potential risk to human health from hazardous waste and substances	<p>As detailed Chapter 16: Material resources and waste.</p> <p>Section 7.9 (Waste Management and Resource Use) CoCP Part A to be followed for minimising and managing wastes through preparation of CEMP, and SWMP</p>	Construction	<p>Sections 4.4 CEMP, 7.2 Ecology and Nature Conservation, 7.9, Waste Management and Resource Use (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p> <p>Chapter 16: Material resources and waste (App Doc Ref 5.2.16)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)</p>	<p>Approved phasing plan</p> <p>Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases</p> <p>Approved Commissioning Management Plan</p>
H-05	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP, transfer tunnel, works within existing Cambridge WWTP for decommissioning	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects – Fen Ditton	<p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and Transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and Transport.</p>	Construction	<p>Sections 4.4, CEMP & 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 7.6 (Traffic and Transport) and Section 7.7 (Noise and vibration) of the</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed</p>	<p>Approved phasing plan</p> <p>Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	
H-06	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP, transfer tunnel, works within existing Cambridge WWTP for decommissioning	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects – Fen Road	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and Transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and Transport.	Construction	Sections 4.4., CEMP, & 7.2, Ecology & Nature Conservation, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Section 7.6 (Traffic and Transport) and Section 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases Approved CTMP
H-07	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP, transfer tunnel, works within existing Cambridge WWTP for decommissioning	Changes in access to areas of open space and recreation, including PRow and the ability for local communities to undertake physical activity and live active lifestyles - Chesterton, properties on the eastern end of Fen Road and Milton	Diversions and appropriate signage to communicate temporary diversions as detailed in the CoCP. Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) includes measures for temporary traffic control and measures to manage the impact upon users of the PRow during the construction period. Implementation of the CTMP in particular: <ul style="list-style-type: none"> • section 6.3 Adherence to Designated Routes • section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours. • section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks. • section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works 	Construction	Section 7.2 (Ecology and nature conservation), and 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 6.3 (Site lighting), 6.4 (Cambridge airport), 6.5 (Fire prevention and control) & 6.9 (Historic environment) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP and Waterbeach Approved CTMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-08	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan and access	Changes in access to areas of open space and recreation, including PRow and the ability for local communities to undertake physical activity and live active lifestyles – Horningsea and users of Low Fen Drove Way	Diversions and appropriate signage to communicate temporary diversions as detailed in the CoCP Part A and within the CTMP section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works	Construction	Sections 4.4, CEMP CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 6.9 (Facilitate safe movement of users of the highway) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP and Waterbeach Approved CTMP
H-09	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP including land required for landscape masterplan and access	Changes in access to local services as a result of construction activities and changes to travel routes and delays	The CTMP states that there will be no construction traffic through Horningsea village. Section 4.2.3 (Local routeing and site plant vehicle routeing) of the CTMP states that hours of construction traffic operation will avoid the AM and PM peak periods as well as school pick-up and drop-off hours. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and transport including a requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of construction activity, construction vehicle movements, diversions etc	Construction	CTMP (Appendix 2.1, App Doc Ref 5.4.19.7) Community Liaison Plan (CLP) (App Doc Ref 7.8)	<ul style="list-style-type: none"> As above 	Approved CTMP required prior to the commencement of construction activities for separate works packages / phases. Approved CLP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-10	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Changes to health and wellbeing due to an increase in noise, air quality, dust, odour, traffic and visual effects – Waterbeach and Clayhithe	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport and Chapter 17: Noise and vibration (Application Document Reference 5.2.17).	Construction	Section 7.2, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved phasing plan Approved CEMP and sub-plans required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP and Waterbeach Approved CTMP
H-11	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Changes in access to areas of open space and recreation, including PRoW and the ability for local communities to undertake physical activity and live active lifestyles.	Measures to manage the minimum navigable width that must be retained and provide advance warning to users of the river are outlined in section 3.1 of CoCP Part B.	Construction	Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam), CoCP Part B (App Doc Ref 5.4.2.2) Approval and implementation of a CEMP CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and CTMP required prior to the commencement of construction activities for Waterbeach works package(s) Approved OMMP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-12	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Waterbeach pipeline		<p>Relevant noise and traffic measures outlined in the CoCP part A as detailed in Chapter 19: Traffic and transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and transport.</p> <p>Including the provision of diversions and appropriate signage to communicate temporary diversions as detailed in section 7.6 (Traffic and transport) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular:</p> <ul style="list-style-type: none"> • section 7.7 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRow during the construction period. • requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRow realignment or diversion • requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area 	Construction	<p>Section 7.2 (Ecology and nature conservation), Section 7.6 (Traffic and transport) and Section 7.7 (Noise and vibrations) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Community Liaison Plan (CLP) (App Doc Ref 7.8)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	<p>Approved phasing plan</p> <p>Approved CEMP and CTMP required prior to the commencement of construction activities for separate works packages / phases associated with the proposed WWTP</p>
H-13	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Potential risk to human health from water pollution.	<p>Regulatory compliance monitoring (UK Government, 2021) and Environment Agency ongoing assessment of permit conditions will prevent deterioration of water quality within the River Cam (extending from phase 1 and phase 2 of operation and beyond).</p> <p>The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.</p>	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Approved water and treated effluent quality monitoring and reporting plans as part of the operational requirements stipulated by the Environmental Permit required prior to operation and throughout asset lifecycle

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-14	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		Surface water runoff from hard surfaces segregated within the drainage design.	Construction	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved surface water drainage design agreed with the LLFA prior to start of construction
H-15	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Management of construction activities as described within the CoCP Part A. in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</p> <ul style="list-style-type: none"> measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment the application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir 	Construction (Decommissioning)	<p>Section 4 (CEMP) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Prior to start of decommissioning works at the existing Cambridge WWTP

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				rolls on gentle slopes installed at levelled contours to control runoff.				
H-16	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Potential risk to human health from hazardous waste and substances	Process design to convert the sludge produced by the proposed WWTP to a bio fertiliser for re-use elsewhere.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Water Discharge Activities), Environmental Permit (IED/MCPD)	Detailed design of proposed WWTP, as approved prior to construction Environmental permits approved prior to start of operation
H-17	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		Design of proposed WWTP to operate in accordance with the Environmental Permit	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) Environmental Permit (Water Discharge Activities), Consolidated Environmental Permit (IED/MCPD)	Detailed design of proposed WWTP, as approved prior to construction Environmental permits approved prior to start of operation
H-18	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		Preparation of operational management plan associated with the EMS procedures as required by the permitting process. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities), Consolidated Environmental Permit (IED/MCPD)	Environmental permits approved prior to start of operation Approved operational management plans as part of the operational EMS required prior to operation and throughout asset lifecycle
H-19	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP		Operational waste management plan The Environmental Permit will include conditions requiring management systems to cover matters including operational waste management, monitoring, emergency responses and pollution prevention. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.	Operation	Sections 4.4 (CEMP), 7.7 (Noise and vibration), and Section 7.9 (Waste Management and Resource Use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	<ul style="list-style-type: none"> As above 	Environmental permits approved prior to start of operation Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
H-20	ES Chapter 12: Health (App Doc Ref 5.2.12)	Proposed WWTP	Potential risk to human health from pests	As part of operational procedures there will be regular inspections, controls on waste storage and waste removal, use of design features that deter	Operation	Chapter 2 Project Description , Section 5 Operation and	<ul style="list-style-type: none"> As above 	Approved waste management plans as part of the operational

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Table 5-2 Securing mitigation summary			pest infestation and guidelines for the employment of professional pest control if required. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.		Maintenance, Operational environmental management (App Doc Ref 5.2.2)		EMS required prior to operation and throughout asset lifecycle
H-21	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Changes to social cohesion due to the presence of new infrastructure	Management of potential community impacts through the inclusion of pedestrian and leisure cycling connections within the landscape masterplan to provide formalised access and retain connectivity	Operation	Table 5.1 LERMP (App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP and final design of pathways prior to construction of pathways and cycleways
H-22	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Proposed WWTP	Changes in access to areas of open space and recreation, including PRow and the ability for local communities to undertake physical activity and live active lifestyles	Management of potential community impacts through the inclusion of pedestrian and leisure cycling connections within the landscape masterplan to provide formalised access and retain connectivity	Operation	LERMP (App Doc Ref 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved LERMP and final design of pathways prior to construction of pathways and cycleways
H-23	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Decommissioning activities at the existing Cambridge WWTP	Changes to health and wellbeing due to an increase in noise, air quality, dust, odour, traffic and visual effects	Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport and Chapter 17: Noise and vibration. Relevant traffic measures outlined in the Construction Traffic Management Plan in Chapter 19: Traffic and transport.	Construction	Section 4.4 CEMP, 5.7, Pollution Incident Control Plan, 7.2 (Ecology and nature conservation), 7.5 Water resources and flood risk (dewatering) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p>	Approved CTMP, CEMP and Decommissioning Plan required prior to the commencement of decommissioning works

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
H-24	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Decommissioning activities at the existing Cambridge WWTP	Potential risk to human health from water pollution	<ul style="list-style-type: none"> As for WR-03 	Construction	Sections 4.4, CEMP, 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<ul style="list-style-type: none"> As above 	Approved CTMP, CEMP and Decommissioning Plan required prior to the commencement of decommissioning works
H-25	ES Chapter 12: Health (App Doc Ref 5.2.12) Table 5-2 Securing mitigation summary	Decommissioning activities at the existing Cambridge WWTP	Potential risk to human health from hazardous waste and substances	<p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan (secured through requirements in the DCO), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which sets out measures to control activities related to decommissioning. These requirements will collectively secure deliver appropriate mitigation of the decommissioning activities.</p>	Construction (Decommissioning)	<p>Section 4.4 (CEMP) and section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Requirement to comply with the Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3).</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</p>	<p>Approved Phasing plan</p> <p>Approved Decommissioning Plan prior to start of decommissioning works</p>

Historic environment

Table 2.9: Historic environment

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
HE-01	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Temporary change within the setting and/or character of assets (HE011, HE095, HE040, HE096) during construction.	<p>The temporary lighting proposed will be mounted to minimise the spread of light in the surrounding area.</p> <p>Measures are set out within Section 7.3, Historic environment, and section 7.6, Traffic and transport, of the CoCP, Part A.</p> <p>CoCP Part B section 3 requiring the construction compounds within Baits Bite Lock (HE095) Conservation Area to be screened by a solid site hoarding to reduce noise, light and visual intrusion.</p>	Construction	<p>Sections 4.4 (CEMP), 7.3 (Historic environment) & 7.6 (Traffic and transport), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3 (Site specific measures) of CoCP Part B (App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7).</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP prior to the start of construction</p> <p>An approved CTMP prior to the start of construction</p>
HE-02	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Construction traffic will be routed around rather than through Horningsea Conservation Area.</p> <p>Measures are set out within Section 7.3 Historic environment, and 7.6 Traffic and transport, of the CoCP, Part A.</p>	Construction	<p>Approval and implementation of a Construction Environmental Management Plan Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7), Section 7.3 (Historic environment) & 7.6 (Traffic and transport), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP prior to the start of construction</p> <p>An approved CTMP. Prior to the start of construction</p>
HE-03	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing	Proposed WWTP and Waterbeach pipeline	Permanent construction impacts from change within the setting or to the character of heritage assets (HE011, HE040, HE095, HE096).	<p>As described in Chapter 15: Landscape and Visual Amenity (App Doc Ref: 5.2.15).</p> <p>The landscape master plan within the LERMP (App Doc Ref 5.4.8.14) is designed to reduce the visual impact on historic landscape assets and character area</p>	Construction	<p>Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP prior to the start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary						management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3) chedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	An approved Soil Management Plan prior to the start of construction An approved LERMP prior to the start of construction
HE-04	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Removal of archaeological remains (HE1303, HE1304, HE1306, HE1307, HE1308, HE1310, HE1328 and HE1329).	Archaeological remains which will be impacted by the Proposed Development will be subject to an additional programme of archaeological investigation and recording to be agreed with CHET.	Construction	ES Chapter 13 Appendix 13.8 Framework Archaeological Investigations Mitigation Strategy (App Doc Ref 5.4.13.8)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 13 (Archaeological investigation mitigation strategy) (App Doc Ref 2.1) which requires that no phase shall start until a detailed archaeological investigation mitigation strategy and where required by the framework archaeological investigation mitigation strategy (App Doc Ref 5.4.13.8) a written scheme of investigation.	An approved Phasing Plan. An approved Archaeological Investigation Method Strategy prior to the start of construction
HE-05	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP	Permanent construction effects on built heritage and historic landscape assets - change in character of HLCA22 and other HLCAs.	Where possible the land required for the construction of the treated effluent transfer pipelines, following the works, will be returned to its current character.	Operation	Section 7.4 (Land Quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 5.4 (Soil reinstatement and reuse), Outline SMP	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained	An approved Phasing Plan. An approved CEMP prior to the start of construction An approved Lighting Design Strategy prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						(Appendix 6.3, App Doc Ref 5.4.6.3)	within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	
HE-06	ES Chapter 13: Historic Environment (App Doc Ref 5.3.13) Table 5-2 Securing mitigation summary	Proposed WWTP	Operational change within the setting of heritage (HE011, HE040, HE095 and HE096) and historic landscape (HLCA69) assets.	<p>The lighting will be designed to reduce the upward spread of light and to minimise glare, reducing the impact on the surrounding heritage assets. It will also only be switched on when activated by a sensor, or where required for a specific task.</p> <p>The landscape master plan is within section 3 of the LERMP (App Doc Ref 5.4.8.14) will be designed to reduce the visual impact on historic landscape assets and character area.</p>	Operation	<p>Design Plans (App Doc Ref 4.9) and Landscape Master Plan in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p> <p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).</p>	<p>An approved Phasing Plan.</p> <p>An approved CEMP prior to the start of construction</p> <p>An approved Lighting Design Strategy prior to the start of construction</p>

Land quality

Table 2.10: Land quality

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LQ-01	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Loss of, or restricted access to, sand and gravel MSA	Measures outlined in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) to ensure, where possible, minerals which are extracted as part of the construction will be reused within the Proposed Development, which will reduce the impact on the resource.	Construction	Section 7.9 (Waste management and resource use), COCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	An approved Phasing Plan. An approved CEMP prior to the start of construction
LQ-02	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Loss of, or restricted access to, Chalk MSA	Measures outlined in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) to ensure, where possible, minerals which are extracted as part of the construction will be reused within the Proposed Development, which will reduce the impact on the resource. Furthermore, the land required for the proposed development will be minimise land required as much as possible.	Construction	Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	An approved CEMP prior to the start of construction
LQ-04	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Mineral safeguarding areas – loss of, or restricted access to, sand and gravel MSA	Where possible, minerals which are extracted as part of the construction will be reused within the Proposed Development to reduce the impact of the resource. Furthermore, the land required for the Proposed Development will be minimise as much as possible.	Construction	Appendix 14.5: Chalk MSA calculation (App Doc Ref 5.4.14.5) includes calculations to determine the area of the MSA (Paragraphs 4.2.13 to 4.2.21 of ES Chapter 14: Land Quality (App Doc Ref 5.2.14)) Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	An approved CEMP prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LQ-05	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Exposure to contaminated soils through inhalation – off-site land users	Dust control measures will be mitigated proportionally using the measures using the IAQM 'Guidance on the assessment of dust from demolition and construction' implemented through an Air Quality/Dust Management Plan as set out in CoCP Part A Section 4.4 (CEMP)	Construction	Section 7.8 (Air quality), and Section 4.4 (CEMP) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	An approved CEMP prior to the start of construction
LQ-06	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Migration of existing contamination through preferential pathways to controlled waters (by piling, pipelines, tunnelling and construction of shafts)	Any pre-existing contamination would be adequately managed through the contaminated land regime (LCRM) to ensure that the operational area is suitable for use.	Construction	Standard requirement (LCRM document (Environment Agency, 2021)) Section 7.4 (Land quality) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	LCRM Regime	Approval of LCRM documents prior to commencement of construction (as required).
LQ-07	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Exposure of on-site and off-site land users to contamination through direct contact, ingestion or inhalation of dusts from contaminated soils which are reused on-site as part of the landscaping	A Materials Management Plan (MMP) will be developed if required to allow the application of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required), as detailed in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).	Operation	Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approval of CL:AIRE Materials Management Plan (if required), prior to construction.
LQ-08	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Migration of contamination or leachate from inappropriate reuse of soils on the proposed WWTP site	A Materials Management Plan (MMP) will be developed if required to allow the application of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required), as detailed in Section 7.9 (Waste management and resource use) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).	Operation	Section 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	An approved CEMP prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LQ-09	ES Chapter 14: Land Quality (App Doc Ref 5.2.14) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Damage from aggressive ground conditions on buried structures and infrastructure: water supply pipe infrastructure, concrete structures (e.g., foundations) and tunnels.	Design of structures and materials for the ground conditions present Operational monitoring of structural conditions and asset inspections	Operation	Geoenvironmental Results - proposed WWTP (App Doc Ref 5.4.14.3) APP-125 Anglian 5.4.14.4 ES Volume 4 Chapter 14 Appendix 14.4 Geoenvironmental Results – Waterbeach (App Doc Ref 5.4.14.4) Asset Management Plan (App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Approval of designs prior to start of construction. Approval of asset management plan prior to operation.

Landscape and visual amenity

Table 2.11: Landscape and visual amenity

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-01	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP	Direct and indirect impacts on landscape character and visual amenity due to construction, loss of vegetation, of the WWTP and the presence of construction equipment and activity in in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and outfall.	Early planting as specified within the LERMP. This will comprise: <ul style="list-style-type: none"> a hedge with standard trees along the southern side of a section of Low Fen Drove Way, a woodland belt approximately 7.5m wide along the southern and western boundaries and part of the eastern boundary of the proposed WWTP site and trees planted in gaps between existing trees along the eastern side of Horningsea Road between Low Fen Drove Way and Horningsea. <p>In addition, an existing shelter belt between the WWTP site and Horningsea will be rejuvenated with trees and shrubs to replace failed planting and ongoing landscape maintenance to promote establishment and improve growth rates.</p>	Construction	Section 3.2, Landscape Masterplan phasing, LERMP (Appendix 8.14, App Doc Ref 5.4.8.14).	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP prior to start of construction
LV-02	ES Chapter 15: Landscape and visual amenity	Proposed WWTP		Provision of solid hoardings between Shaft 4 construction compound and Red House Close, near Poplar Hall Farm House and at the outfall	Construction	Section 3.2 (Transfer tunnel) of the CoCP	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)	Approved phasing plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	(App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary			compound to partially screen the construction of the proposed WWTP.		Part B (App Do Ref 5.4.2.2.)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP including layout and screening details
LV-03	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Management of impacts to land temporarily required managed through measures as described within Section 7.2 Ecology and Nature Conservation within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3.3 of the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2):</p> <ul style="list-style-type: none"> • requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction • minimising severance of hedgerows and reinstatement of hedgerows. • Replanting and maintenance of replanted trees, hedgerow and vegetation removed during construction. <p>The implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows.</p>	Construction	<p>Section 7.2 (Ecology and nature conservation - Tree/Hedgerow removal), and 7.4 (Soil Management, of the CoCP Part A (App Doc Ref 5.4.4.1)</p> <p>Section 3.3 (Proposed Waste Water Treatment Plant) of Part B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2) Outline Soil Management Plan (App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)</p>	<p>Approved phasing plan</p> <p>Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline</p>
LV-04		Proposed WWTP		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes	Construction	<p>Section 6 of the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p> <p>CoCP Part A, Section 5.9 (Lighting)</p>	Schedule 2 Requirement 14 (Construction lighting) (App Doc Ref 2.1) which requires the approval details submitted in relation to construction lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				requirements for the use of lighting with no upward orientation or light spill.		(Appendix 2.1, App Doc Ref 5.4.2.1)		
LV-05	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP	Damage to retained vegetation within the area of land required for the landscape masterplan	Use of protective fencing around the perimeter of the root protection zones as set out in the arboricultural report (App Doc Ref 5.4.8.17), minimise road and junction widening for temporary construction access.	Construction	Section 7.2 (Ecology and nature conservation - Tree/Hedgerow removal), CoCP Part A and Section 3.3 (Proposed Waste Water Treatment Plant) of Part B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2) Arboricultural report (App Doc Ref 5.4.8.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Phasing plan Preparation and implementation of CEMP incorporating measures to protect trees
LV-06	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Direct and indirect impacts on landscape character and visual receptors due to construction of Waterbeach Pipeline	Management of impacts to land temporarily required managed through measures as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Part B (Appendix 2.2, App Doc Ref 5.4.2.2): <ul style="list-style-type: none"> requirement within the CoCP Part A for the reinstatement of ditches temporarily disturbed during construction Use of solid site hoarding/temporary acoustic barriers at Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods. 	Construction	Section 7.2 Tree/Hedgerow removal, CoCP Part A and Section 3.3 of Part B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow
LV-07	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline		The implementation of measures set out under section 7.4 of the CoCP Part A in respect of Soil Management and in the Outline Soil Management Plan (Appendix 6.3 App Doc Ref 5.4.6.3) which will ensure the rapid and effective reestablishment of habitats especially hedgerows.	Construction	Section 7.4, Land quality, of the CoCP Part A (App Doc Ref 5.4.4.1) Outline Soil Management Plan (App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved phasing plan Approved CEMP required prior to the commencement of construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-07	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline		Management of lighting through the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors incorporate a strategy for temporary lighting into the CEMP(s) (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of light during construction. This strategy includes requirements for the use of lighting with no upward orientation or light spill.	Construction	Section 6 of the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5) CoCP Part A, Section 5.9 (Lighting) (Appendix 2.1, App Doc Ref 5.4.2.1)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approval of lighting design prior to commencement of construction.
LV-08	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP	Direct and indirect impacts on landscape character and visual receptors due to operation of the proposed WWTP due to presence of new infrastructure in the rural landscape increases urbanising influence on the features in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and outfall.	Design of structures to reduce visual impact, design of lighting to minimise lighting impacts on the night-time landscape and views. Design measures to prevent or minimise artificial light are: <ul style="list-style-type: none"> exclusion of lighting provision on the access road the use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP habitat creation within the landscape masterplan that serves a screening function once mature 	Operation	Section 5 of the Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approval of lighting design prior to commencement of construction. For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow
LV-09	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Landscape masterplan and initial planting during construction included in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14).	Operation	Section 3.2, Landscape Masterplan phasing, LERMP (Appendix 8.14, App Doc Ref 5.4.8.14).	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP prior to start of construction Approved detailed management and monitoring plan as set out within the LERMP Table 5.1 (Appendix 8.14 App Doc Ref 5.4.8.14) prior to start of operation
LV-11	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Direct and indirect impacts related to operation of the outfall will be minimised through rectifying erosion as determined through operational monitoring	Operation	Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Approval and implementation of a OMMP Design of outfall and scour protection measures as per final design specified as part of the environmental

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<p>Conditions set out within an Environmental Permit (flood risk activities) that may be required in relation to outfall design and construction.</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 7 relating to the works proposed in that phase have been submitted to and approved in writing by the relevant planning authority.</p>	permit (flood risk activities)
LV-12	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Design of landscape masterplan within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) to derive a multifunctional masterplan that integrates design measures (earth bank and planting) to integrate the development into the landscape and screen tall structures to minimise prominence of the infrastructure in the landscape and views. Design of structures in the proposed WWTP to minimise prominence of the infrastructure in the landscape and views.	Operation	Section 3 Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)</p>	Approved phasing plan Approved detailed plan and planting schedule in line with Table 5.1 of the LERMP
LV-13	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		Selection of materials and finishes to the structures of the proposed WWTP as described in the Design and Access Statement (App Doc Ref 7.6).	Operation	Section 7 (Masterplan proposals) and 9 (Engineering and architectural proposals) Design and Access Statement (App Doc Ref 7.6) Design Code (App Doc Ref (7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design, materials and finishes are approved by the local planning authority

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
LV-14	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>CoCP Parts A and B (Appendix 2.1 and 2.2, App Doc Ref 5.4.2.1 & 2). These will be set out in the CEMP related to the specific works activity:</p> <ul style="list-style-type: none"> Any planting as part of the Proposed Development which dies or becomes seriously damaged or diseased within five years after completion of construction will be replaced in the first available planting season with stock of the same species and size as that originally planted unless otherwise agreed with the Local Planning Authority. In locations of retained hedgerow there shall be consideration of additional "thickening" to promote habitat connectivity for bats, in particular making use of existing hedgerow removed during construction. Any works to hedgerow would be under the supervision of a suitably experienced ecologist. 	Operation	Section 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	Approved phasing plan For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow
LV-15	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Proposed WWTP		LERMP (Appendix 8.14, App Doc Ref 5.4.8.14) setting out the maintenance measures required to ensure the establishment and long-term healthy development of the planting shown on the landscape masterplan and outside the landscape masterplan area	Table 5.1 of the Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved detailed plan and planting schedule prior to the start of the construction
LV-16	ES Chapter 15: Landscape and visual amenity (App Doc Ref 5.2.15) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Direct and indirect impacts on landscape character and visual receptors due to Operation of the Waterbeach Pipeline	Replanting vegetation removed during construction. Restoring the land to its former levels and condition	Operation	Section 7.2, Ecology and Nature Conservation, CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	For areas outside of the landscape masterplan monitoring as set out within approved CEMP including continued management and monitoring in relation to reinstated habitat, vegetations and hedgerow Approved detailed plan and planting schedule in line with Table 5.1 of the LERMP

Material resources and waste

Table 2.12: Material resources and waste

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-01	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Depletion of material resources due to the construction of the Proposed Development	Reuse of 90% of excavated material within landscape masterplan limiting required imported fill material to 4,373m ³ for proposed WWTP through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4, CEMP, & 7.9, Waste management and resource use, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Waste (England and Wales) Regulations 2011 (as amended)).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP Approved materials management plan
MW-02	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved Site Waste Management Plan.	Construction	Sections 4.4, CEMP, & 7.9, Waste management and resource use, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved CEMP Approved materials management plan
MW-03	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Use of precast structures (produce less waste) for treated effluent pipework	Construction	Chapter 2 Project Description, Sections 3.1 Construction phasing and sequence of assembly, & 3.4 Construction techniques and methodology (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved detailed design and construction methods prior to start of construction for the phase
MW-04	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Impact on the availability of material resources due to the construction of the Proposed Development	Reuse of 90% of excavated material within landscape masterplan limiting required imported fill material to 4,373m ³ for proposed WWTP through implementation of an approved Site Waste Management Plan.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved CEMP prior to start of construction Approved materials management plan prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-05	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved Site Waste Management Plan.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	<ul style="list-style-type: none"> As above 	Approved phasing plan Approved CEMP Approved materials prior to start of construction management plan prior to start of construction
MW-06	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of inert waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Construction	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved materials management plan prior to start of construction
MW-07	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		The application of measures within section 7.9 of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP to be followed for minimising and managing waste during construction through preparation of CEMP, SWMP.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Approval and implementation of a Construction Environmental Management Plan Approval and implementation of a Site Waste Management Plan	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved materials management plan prior to start of construction
MW-08	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of non-hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Construction	Sections 7.9 (Waste management and resource use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	Approved phasing plan Approved of CEMP prior to start of construction Approved SWMP prior to start of construction Approved materials management plan prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-09	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		<p>Section 7.9 Waste management and resource use of the CoCP Part A to be followed for minimising and managing waste through preparation of CEMP, SWMP.</p> <p>The SWMP will as a minimum identify the following:</p> <ul style="list-style-type: none"> Responsibilities within the construction team for waste management; The types of waste and the quantities likely to be generated; Measures to be adopted during construction to minimise waste generated; Opportunities for recycling and/or reuse; Proposed treatment and disposal sites together with details of their Environmental Permit; and Provisions for staff training and use of the SWMP(s). 	Construction		<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	<p>Approved phasing plan</p> <p>Approved of CEMP prior to start of construction</p> <p>Approved SWMP prior to start of construction</p>
MW-10	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the construction phase of the Proposed Development.	Section 7.9 Waste management and resource use of the CoCP Part A to be followed for minimising and managing waste through preparation of CEMP, SWMP	Construction		<ul style="list-style-type: none"> As above 	<p>Approved phasing plan</p> <p>Approved of CEMP prior to start of construction</p> <p>Approved SWMP prior to start of construction</p>
MW-11	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 which requires the Principal Contractor(s) to produce a SWMP, Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including emergency response measures including stopping works, training of staff, use of spill response equipment.</p> <p>Approval and implementation of a Site Waste Management Plan</p>	Construction	Sections 4,4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	<p>Approved phasing plan</p> <p>Approved of CEMP prior to start of construction</p> <p>Approved SWMP prior to start of construction</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-12	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		The management of impacts relating to the handling of potentially hazardous waste as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP.	Construction	Sections 4,4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	<p>Approved phasing plan</p> <p>Approved of CEMP prior to start of construction</p>
MW-13	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of inert waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the proposed WWTP.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Operation	Sections 4,4 (CEMP) para 4.4.4 and 7.9 (Waste management and resource use) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Waste (England and Wales) Regulations 2011 (as amended)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	<p>Approved phasing plan</p> <p>Approved of CEMP prior to start of construction</p> <p>Approved SWMP prior to start of construction</p>
MW-14	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Operating in accordance with the environmental permit, including the associated EMS procedures, to appropriately manage wastes generated during the treatment process within the proposed WWTP. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	<p>Approved management plans and procedures as part of environmental permitting process</p> <p>EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.</p>
MW-15	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of non-hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the proposed WWTP.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Operation	Waste (England and Wales) Regulations 2011 (as amended) Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	<p>Duty of care requirements under the Waste (England and Wales) Regulations 2011 (as amended).</p> <p>Approved management plans and procedures as</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						management (App Doc Ref 5.2.2)		part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.
MW-16	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Operating in accordance with the environmental permit, including the associated EMS procedures, to appropriately manage wastes generated during the treatment process within the proposed WWTP.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.
MW-17	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Sludge will produce an 'Enhanced Treated Biosolids' product produced by the Proposed WWTP will be used as bio-fertilizer and spread on land.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input 	Approved management plans and procedures as part of environmental permitting process EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<ul style="list-style-type: none"> permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	
MW-18	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline	Production of hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the operation of the proposed WWTP.	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Operation	Waste (England and Wales) Regulations 2011 (as amended) Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Duty of care requirements under the Waste (England and Wales) Regulations 2011 (as amended).
MW-19	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Proposed WWTP and Waterbeach Pipeline		Operating in accordance with the environmental permit, including the associated EMS procedures, to appropriately manage wastes generated during the treatment process within the proposed WWTP.	Operation	Chapter 2 Project Description , Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	<p>Approved management plans and procedures as part of environmental permitting process</p> <p>EMS including operational procedures for waste management, spill response, emergency response and pest control in place prior to start of operation.</p>
MW-20	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Decommissioning with the existing Cambridge WWTP	Production of inert, non-hazardous and hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent reduction of landfill capacity during the decommissioning of the existing Cambridge WWTP	Implementation of the waste hierarchy (UK Government, 2011) to consider the requirements of how waste is dealt with, including: prevention; preparing for re-use; recycling; other recovery (for example energy recovery); and disposal, only as a last resort.	Construction (Decommissioning)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended).	<p>Approved Phasing Plan</p> <p>Existing environmental permits and approval of Decommissioning Plan prior to the commencement of the works.</p> <p>Approved CEMP</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MW-21	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Decommissioning with the existing Cambridge WWTP		Controls required by the existing environmental permit waste management, pest control, emergency response)	Construction (Decommissioning)	Integrated Environmental Permit Waste (England and Wales) Regulations 2011 (as amended)). Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Environmental Permit Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Approved Phasing Plan Existing environmental permits and approval of Decommissioning Plan prior to the commencement of the works. Approved CEMP
MW-22	ES Chapter 16: Material Resources and Waste (App Doc Ref 5.3.16) Table 5-2 Securing mitigation summary	Decommissioning with the existing Cambridge WWTP		Implementation of the Decommissioning Plan. Management of decommissioning activities through application of measures within the outline Decommissioning Plan and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) which requires that the contractors to prepare a Decommissioning Plan (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the decommissioning activities. All sludge would be removed from the tanks and sent to the Sludge Treatment Centre (STC) Recovery and appropriate disposal/recovery of unused process chemicals such as ferric chloride	Construction (Decommissioning)	Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3). Waste (England and Wales) Regulations 2011 (as amended)).	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning. Compliance with the Waste (England and Wales) Regulations 2011 (as amended)).	Approved Phasing Plan Decommissioning Plan prior to the commencement of the works. Approved CEMP

Noise and vibration

Table 2.13: Noise and vibration

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
NV-01	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Construction noise impacts from works at Shaft 4	Relocation of Shaft 4 to increase distance to work site from the nearest noise sensitive receptors.	Construction	Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design and construction method statement
NV-02	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Construction noise impacts including works at Shaft 4 and the Outfall.	Measures to minimise noise impacts during construction are specified in section 7.7 (Noise and vibration) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and include the application of BPM in accordance within BS 5228-1 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. These measures include: <ul style="list-style-type: none"> Restriction of working hours to avoid sensitive time periods for works at Shaft 4 and the Outfall. Use of solid site hoarding/temporary acoustic barriers at Shaft 4, Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods. 	Construction	Sections 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	An approved Phasing Plan. An approved CEMP prior to the commencement of the enabling phase. An approved Noise and Vibration Management Plan prior to the commencement of the enabling phase.
NV-03	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Noise from heavy vehicles on construction traffic routes	Application of BPM in accordance within BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within Section 7.7 (Noise and Vibration) of the CoCP, Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2) and include: <ul style="list-style-type: none"> Implementation of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7). Restriction of working hours to avoid sensitive time periods and the use of solid sit hoarding/temporary acoustic barriers when required. Approval and implementation of a Noise & Vibration Management Plan. 	Construction	Sections 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),	<ul style="list-style-type: none"> As above 	An approved Phasing Plan. An approved CEMP prior to the commencement of the enabling phase. An approved CTMP prior to commencement of the enabling phase. An approved Noise and Vibration Management Plan prior to the commencement of the enabling phase.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
NV-04	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed development, proposed WWTP and waterbeach transfer pipeline	Construction vibration during works	Application of BPM in accordance with BS 5228-2 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within section 7.7 (Noise and vibration) of the CoCP, Part A (Appendix 2.1, App Doc Ref 5.4.2.1). Measures to minimise vibration impacts include: <ul style="list-style-type: none"> • use of low vibration sources of equipment. • building condition surveys are undertaken prior to construction works at any sensitive buildings, including historic or listed buildings 	Construction	Section 7.7, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP)(App Doc Ref 2.1)	An approved Phasing Plan. An approved CEMP prior to the commencement of the enabling phase. An approved Noise and Vibration Management Plan prior to the commencement of the enabling phase.
NV-05	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed WWTP	Operational noise	Mitigation through design (location, layout, landscaping and earth bank, plant and equipment selections, enclosures and additional attenuation).	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
NV-06	ES Chapter 17: Noise and Vibration (App Doc Ref 5.3.17) Table 5-2 Securing mitigation summary	Proposed WWTP	Operational noise	Operational noise management plan/noise management procedures within Environmental Management System (EMS). The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> • an Industrial Emission Directive (IED) Permit to operate the integrated STC • a waste activity permit in relation to accepting commercial liquid waste from industrial processes • a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input • permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.

Odour

Table 2.14: Odour

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O-1	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from transportation of seed sludge and commencement of biological processes with the proposed WWTP during testing and commissioning	<p>During this period the existing Cambridge WWTP and the proposed WWTP will have active treatment processes as part of the design:</p> <ul style="list-style-type: none"> • Covered reception areas at the terminal pumping station, inlet works and sludge tanks • Low turbulence processes • Venting of air from TPS, inlet and sludge tanks through the odour control plant • Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with an uninterruptible power supply UPS <p>Transport seed sludge in sealed tankers and pumped into the tanks through a closed process</p>	Construction	ES Chapter 2 Project Description, Sections 2.5 Odour control, and 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved detailed design prior to the start of construction
O-2	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary			<p>Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which requires site inspections by the person accountable for odour issues on site to minimise the risk of causing nuisance and/or loss of amenity, and Part B (App Doc Ref 5.4.2.2) relating to testing and commissioning which states that the frequency of site inspections should be increased when activities with a high potential to produce odour are being carried out, e.g., works during high temperature days. An inspection log should be kept and made available to the overseeing authority on request.</p>		Section 7.8 CoCP Part A (App Doc Ref 5.4.2.1) Section 3 CoCP Part B (App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP prior to start of testing and commissioning

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O-3	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Cumulative impact - Connection of the Waterbeach pipeline to the pumping station - Odour emissions from short-term tie-in works	<ul style="list-style-type: none"> Section 7.8, Air quality, of the CoCP Part A Measures within CoCP Part B setting out how potential odour impacts arising from activities associated with connecting into and diverting existing sewers will be managed. 	Construction	<p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p> <p>Sections 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>CoCP Part B Section 3.4 (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP prior to start of construction
O-4	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP	Odour release from breaking open existing sewer during connections - Odour emissions from short-term tie-in works	<p>Management of impacts will be through the following measures as described in Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2):</p> <ul style="list-style-type: none"> Use of air extraction system and a mobile odour filtration unit adjacent to the sewer shafts. Regular site inspections by the person accountable for odour issues on site to minimise the risk of causing nuisance and/or loss of amenity. 	Construction	<p>Section 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p>	<ul style="list-style-type: none"> As above 	Approved CEMP prior to start of construction
O-5	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Existing Cambridge WWTP	Connection of the Waterbeach pipeline to the existing sewer - Odour emission from short-term tie-in works	<ul style="list-style-type: none"> Use of air extraction system and a mobile odour filtration unit adjacent to the sewer shafts. Section 7.8 (Air quality - Construction odours) of the CoCP Part A (Application Document Ref 5.4.2.1). Measures within CoCP Part B (Appendix 2.2, Application Document Ref 5.4.2.2) setting out how potential odour impacts arising from activities associated with connecting into and diverting existing sewers will be managed. 	Construction	<p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p> <p>Sections 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>CoCP Part B Section 3.4 (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<ul style="list-style-type: none"> As above 	Approved CEMP prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O-6	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Decommissioning within the existing Cambridge WWTP	Odour emission from draining and cleaning of the existing Cambridge WWTP waste water storage tanks and equipment	<ul style="list-style-type: none"> Transfer of the existing permit controls and odour management plan at the existing Cambridge WWTP to the proposed WWTP. Section 3.5 (Operational controls) OMP (Appendix 18.4, Application Document Ref 5.4.18.4). Removal of residual sludge via suction pump and taken offsite for treatment or treated onsite such as in a quick lime dosing plant. Implementation of Section 6 (Plant to be decommissioned), Decommissioning Plan (Application Document Ref 5.4.2.3). Use of odour suppression equipment, such as fogging/misting systems. Section 7.8 (Air quality), Construction odours of the CoCP Part A (Appendix 2.1, Application Document Ref 5.4.2.1). 	Construction	<p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p> <p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p> <p>Section 3.5 (Operational controls) of the OMP (Appendix 18.4, Application Document Ref 5.4.18.4).</p> <p>Section 7.8 (Air quality), Construction odours of the CoCP Part A (Appendix 2.1, Application Document Ref 5.4.2.1).</p>	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Approved CEMP prior to start of construction. Approved Decommissioning Plan prior to decommissioning start
O-7	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from normal operation of the proposed WWTP	Control measures will be in place as required by the Environmental permit (IED) and include operating in accordance with approved OMP, and having established emergency response procedures. The preliminary OMP (App Doc Ref 5.4.18.4) will outline operational odour management, monitoring and reporting measures, and controls to be in place in the event of an incident, record odour events and respond to complaints.	Operation	<p>Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)</p> <p>Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	DCO Schedule 2 Requirement 20 (Odour management plan) which requires a detailed odour management plan that must be in accordance with the measures in the preliminary odour management plan and the principles and assessments set out in the relevant part of the environmental statement.	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O-8	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Management of impacts will be managed through the following design measures as described in Section 7.8 (Air quality) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2):</p> <ul style="list-style-type: none"> • Covered reception areas at the terminal pumping station, inlet works and sludge tanks • Low turbulence processes • Venting of air from TPS, inlet and sludge tanks through the odour control plant • Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with a UPS 	Operation	ES Chapter 2 Project Description, Sections 2.3 Waste water treatment plant, 2.4 Sludge treatment centre, and 2.5 Odour control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	<p>Approved detailed design prior to the start of construction</p> <p>Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.</p>
O-9	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from biogas release to air (if required)	<p>Controls required by the IED permit such as operating in accordance with approved OMP, and having established emergency response procedures</p> <p>To minimise emissions to air during use and flare usage will be monitored under IED permit controls including detailed OMP outlining operational odour management, monitoring and reporting measures.</p>	Operation	ES Chapter 2 Project Description, Section 2.4 Sludge treatment centre (App Doc Ref 5.2.2) Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	DCO Schedule 2 Requirement 20 (Odour management plan) which requires a detailed odour management plan that must be in accordance with the measures in the preliminary odour management plan and the principles and assessments set out in the relevant part of the environmental statement.	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.
O-10	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Short term odour release from deliveries	<p>Management of impacts will be managed through the following measures, as outlined in the preliminary OMP (App Doc Ref 5.4.18.4):</p> <ul style="list-style-type: none"> • Use of sealed vehicles for the delivery of waste water and sludge • Covered reception areas receiving waste water and sludge deliveries 	Operation	Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	<ul style="list-style-type: none"> • As above 	Approved Odour Management Plan
O-11	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from sludge tanker spill within the WWTP	<p>Controls required by the IED permit such as operating in accordance with approved OMP (Application Document Ref 5.4.18.4), and having an established emergency response procedure. Management of impacts will be managed through the following measures, as outlined in the preliminary OMP (App Doc Ref 5.4.18.4):</p> <ul style="list-style-type: none"> • Use of sealed vehicles for the delivery of waste water and sludge • Covered reception areas receiving waste water and sludge deliveries 	Operation	Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	<ul style="list-style-type: none"> • As above 	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
O-12	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP	Odour emission from release of cleaned effluent into water cycle	Design for aeration and effective mixing at outfall	Operation	ES Chapter 2 Project Description, Section 2.12 The Outfall (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to the start of construction
O-13	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Proposed WWTP		Controls required by the IED permit such as operating in accordance with approved preliminary OMP (App Doc Ref 5.4.18.4), and having established emergency response procedures. The preliminary OMP will outline operational odour management, monitoring and reporting measures, and controls to be in place in the event of an incident, record odour events and respond to complaints.	Operation	OMP (Application Document Ref 5.4.18.4) Chapter 2 Project Description, Section 5 Operation and Maintenance, Operational environmental management (App Doc Ref 5.2.2)	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.	Approved Odour Management Plan as part of environmental permitting process EMS including operational procedures for odour control, waste management, spill response, emergency response and pest control in place prior to start of operation.
O-14	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Waterbeach pipeline	Short-term odour release from sewer air valves	To manage the release of air from the sewer air valves and reduce localized impacts, standard design will include valves to be installed below ground within the manhole chambers allowing intermittent small odour release below ground.	Operation	ES Chapter 2 Project Description, Section 2.8 Waterbeach pipelines (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approved design prior to the start of construction
O-15	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Ventilation structure – site of the existing Cambridge WWTP	Intermittent short-term odour release from ventilation structure	Odour mitigation is embedded in the design by incorporating a chemical dosing facility, which prevents septicity and reduces odour formation. The ventilation structure will also include a permanent stack inclusive of a carbon filter, extending to a height of up to 10m above ground level and an adjacent filter installation at ground level for odour control.	Operation	ES Chapter 2 Project Description, Section 2.6 Waste Water transfer tunnel and tunnel corridor (App Doc Ref 5.2.2) Design Code, Section 3.13 Ventilation stack (at the interception shaft) and odour control (App Doc Ref 7.17)	<ul style="list-style-type: none"> As above 	Approved design prior to the start of construction
O-16	ES Chapter 18: Odour (App Doc Ref 5.3.18) Table 5-2 Securing mitigation summary	Ventilation structure – site of the existing Cambridge WWTP		Management plan includes requirements that vent filter replaced in accordance with manufacturers specification	Operation	Preliminary Odour management plan) (App Doc Ref 2.1)	DCO Schedule 2 Requirement 20 (Odour management plan) (App Doc Ref 2.1)	Approved OMP prior to start of operation

Traffic and transport

Table 2.15: Traffic and transport

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-01	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)	Implementation of section 7.6, Traffic and transport, of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and measures manage the impact upon users of the PROW during the construction period.	Construction	Section 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 26 which requires that no phase of the authorised development which includes a temporary closure to a public right of way is to commence until the undertaker has provided the relevant highway authority with a programme of closures for those public rights of way to be temporarily closed in that phase. Schedule 3 (Streets) of the draft DCO (App Doc Ref 2.1).	Approval of the CTMP prior to the commencement of the construction phase Approval by the relevant street authority closures relevant to the phase
TT-02	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Land required for the Proposed WWTP and part of the Waterbeach pipeline		Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction.	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approval of temporary highways connections design by the relevant planning authority prior to the start of construction Approval of the permanent access design by the relevant planning authority prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-03	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Land required for the Proposed WWTP and part of the Waterbeach pipeline		Appropriate design of temporary connections from works areas to the road network in accordance with local highways standards	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of temporary highways connections design by the relevant planning authority prior to the start of construction
TT-04	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> Section 6.3 (Adherence to Designated Routes) which specified that temporary Automatic Number Plate Recognition (ANPR) cameras will be installed at the following locations (subject to approval by Cambridgeshire County Council as the Local Highways Authority and any other relevant stakeholders): <ul style="list-style-type: none"> On Horningsea Road, located immediately north and south of the A14 signalised junctions; and North of Low Fen Drove Way to capture construction vehicles associated with temporary site access points COA3 Section 6.9 (Facilitate safe movement of users of the highway) which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works 	Construction	Section 6.3 (Adherence to Designated Routes) and Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP ((App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase
TT-05	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Implementation of Construction Worker Travel Plan to encourage construction workers to use more sustainable travel modes, to reduce single occupancy vehicle trips and will investigate the potential for flexible working patterns to facilitate travel outside of the peak periods.	Construction	Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)	<ul style="list-style-type: none"> As above 	Approved CEMP and accompanying CWTP prior to commencement of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-06	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads accessing certain locations for pedestrians and cyclists travelling along Long Drive, Bannold Drive, Burgess's Drive, Fen Road.	<ul style="list-style-type: none"> As for TT-01 	Construction	section 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase
TT-07	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-03 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Access and Traffic Regulation Order Plans (App Doc Ref 4.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) DCO Schedule 2 Article 16 (Temporary Speed Limits)	Approval of the CTMP prior to the commencement of the construction phase Approval of temporary closure or alterations from the relevant street authority prior to the start of works
TT-08	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Implementation of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 6.9 (Facilitate safe movement of users of the highway) which requires maintaining the existing footway / cycleway to the west of the Horningsea Road carriageway at all times with suitable barriers separating the footway from the works Section 6.9 avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time Section 6.9 requirement to provide connectivity/access to community facilities and residential properties during works Section 7.2 (Monitoring strategy) of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: 	Construction	Sections 6.3 (Adherence to Designated Routes), 6.9 (Facilitate safe movement of users of the highway), and 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CEMP and accompanying CTMP prior to the commencement of the construction of the Waterbeach pipeline including specific arrangements made with the developer of the Waterbeach Station relocation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> - Documented pre-commencement meetings with the site management team as a contractual requirement; - Active traffic management; and - FORS and CLOCS accreditation 				
TT-09	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Waterbeach pipeline - Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road		Implementation of the CTMP Section 6.9 (Facilitate safe movement of users of the highway) (Appendix 19.7, App Doc Ref 5.4.19.7) requirement for speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of the CEMP and accompanying CTMP prior to the commencement of the construction of the Waterbeach pipeline including specific arrangements made with the developer of the Waterbeach Station relocation</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>
TT-10	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Waterbeach pipeline - Burgess's Drove, Bannold Drove and Bannold Road Denny End Road, Clayhithe Bridg, Long Drove, Cambridge Road, Chapel Street, Station Road		<p>Section 6.9 of the CTMP (Facilitate safe movement of users of the highway (including NMUs)) (Appendix 19.7, App Doc Ref 5.4.19.7) which requires junction widening at:</p> <ul style="list-style-type: none"> ● Bannold Road / Bannold Drove ● Bannold Road / Burgess's Drove ● Burgess's Drove <p>Section 6.9 of the CTMP (Facilitate safe movement of users of the highway (including NMUs)) which requires temporary widening measures for vehicle passing at:</p> <ul style="list-style-type: none"> - Denny End Road - Bannold Road - Bannold Drove - Clayhithe Bridge - Long Drove - Cambridge Road - Chapel Street - Station Road 	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p>	<p>Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-11	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-05 	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approval of the CEMP and accompanying CWTP prior to the commencement of the construction phase
TT-12	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part A to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including communication of changes to access because of PRoW realignment or diversion	Construction	Section 3 (Community & Stakeholder Engagement) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.2 Community Liaison Officer, Community Liaison Plan (App Doc Ref 7.8)	<ul style="list-style-type: none"> As above 	Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline Appointment of CLO prior to the start of construction
TT-13	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<ul style="list-style-type: none"> As above 	Approval of the CTMP prior to the commencement of the construction phase including specific arrangements made with the developer of the Waterbeach Station relocation
TT-14	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Implementation of section 7.6, Traffic and transport, of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control	Construction	Sections 7.6, Traffic and transport of the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) Schedule 3 (Streets) of the draft DCO (App Doc Ref 2.1).	Approval of the CTMP prior to the commencement of the construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-15	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Implementation the Construction Traffic Management Plan, including:</p> <ul style="list-style-type: none"> Section 4.2 (Local routeing and site plant vehicle routeing) of the CTMP (Access route strategy) which identifies the off and on slip of the A14 as a potential conflict area which may require traffic marshalling during peak hours. Requirement of Section 4.2 that the contractor will schedule construction vehicles over 3.5 tonnes (including vehicles transporting site won material) outside of agreed peak hours to minimise the possibility of adding to congestion on the road network unless it is a time critical delivery or it is determined to be essential that the delivery is to be completed during peak hours or specific alternative restrictions are agreed with the local highway authority. Section 6.5 (Delivery scheduling) of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks Section 6.4 (Vehicle scheduling) of the CTMP (Vehicle Scheduling) which requires adherence to works hours Section 7.2 (Monitoring strategy) of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation section 7.6 of the CoCP Part A and B (Application Doc Ref: 5.4.2.1) Part A (Traffic and Transport) which includes measures for temporary traffic control and measures manage the impact upon users of the PRow during the construction period. 	Construction	Sections 4.2, 6.4, 6.5, 7.2 and 7.7 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-16	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-02 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	<p>Phasing plan approved prior to start of construction</p> <p>Road design approved prior to start of construction</p>
TT-17	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT -03 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Road connection design approved by CCC prior to the start of construction
TT-18	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-05 	Construction	Construction Worker Travel Plan (CWTP) (App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approval of the CEMP and CWTP prior to the commencement of the construction of the Waterbeach pipeline
TT-19	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road	<p>Measures within:</p> <ul style="list-style-type: none"> Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control, Section 6.3 (Adherence to Designated Routes) section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours 	Construction	<p>Section 7.7 of the CoCP Part A (App Doc Ref 5.4.2.1)</p> <p>Sections 6.3, 6.4 & 7.7 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of the CTMP prior to the commencement of the construction of the Waterbeach pipeline</p> <p>Approval of temporary alterations from the relevant street authority prior to the start of works</p>
TT-20	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-13 	Construction	Section 7.2of the CTMP (Appendix 19.7, App Doc Ref: 5.4.19.7)	<ul style="list-style-type: none"> As above 	Approval of the CTMP prior to the commencement of the construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary							
TT-21	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-05 	Construction	outline CWTP (Appendix 19.9, App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the detailed construction environment management plan to be accompanied by a detailed construction worker transport plan which must accord with the measures set out in the construction worker travel plan (App Doc Ref 5.4.19.9)	Approval of the detailed CEMP and associated CWTP prior to the start of construction
TT-22	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse impacts on driver delay at Milton Road / Green End Road / A10 approach of the Milton Interchange Kings Hedges	<p>Implementation of the CTMP, including:</p> <ul style="list-style-type: none"> section 6.5 (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of vehicles associated with the construction of the Proposed Development, this will include the following: <ul style="list-style-type: none"> Documented pre-commencement meetings with the site management team as a contractual requirement; Active traffic management; and FORS and CLOCS accreditation 	Construction	Sections 6.4, 6.5, and 7.2 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase
TT-23	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary delay to users of PRow due to gated controlled access on PRow intersected by works corridor and construction activities	<p>Requirement within section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including:</p> <ul style="list-style-type: none"> communication of changes to access because of PRow realignment or diversion communication of construction activity, construction vehicle movements. 	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CTMP and CLP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-24	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> Requirement to appoint CLO Requirement to implement approved CLP <p>Implementation of section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures PRoW in particular:</p> <ul style="list-style-type: none"> the requirement to maintain access through the use of safety gates to allow safely cross the construction working area. the requirement to divert PRoW where no safe option exists to continue its use the requirement to restore PRoW to the same condition as before the works took place 	Construction	Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p> <p>DCO Schedule 2 Requirement 26 which requires that no phase of the authorised development which includes a temporary closure to a public right of way is to commence until the undertaker has provided the relevant highway authority with a programme of closures for those public rights of way to be temporarily closed in that phase.</p>	<p>Approval of the CEMP, CTMP and CLP prior to the commencement of the diversions</p> <p>Approved closures according to the phase from the relevant highways authority</p>
TT-25	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Land required for the final effluent and storm pipes and outfall		<p>Temporary diversion of the PRoW 85/6 at the outfall works area using 85/8 and a temporary path to re-join the PRoW 85/6 upstream of the outfall works area. The CoCP Part A includes:</p> <ul style="list-style-type: none"> a requirement for the use of safety gates to be put in place and users allowed to safely cross the construction working area which would allow users diverted on to the 85/8 to cross over the works to construct the treated effluent pipeline and join the temporary diversion back to the 85/6; and a requirement for all PRoW to be restored to the same condition as before the works took place or to a standard which is acceptable to the Local Highway Authority which returns the paths to the same or better condition, so journey quality is unaffected once the works have been completed. 	Construction	<p>ES Chapter 2 Project Description, Section 3.4 Construction techniques and methodology, Connecting Infrastructure, and Waterbeach pipeline (App Doc Ref 5.2.2)</p> <p>Rights of Way Plans (App Doc Ref 4.6)</p>	<p>DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 26 which requires that no phase of the authorised development which includes a temporary closure to a public right of way is to commence until the undertaker has provided the relevant highway authority with a programme of closures for those public rights of way to be temporarily closed in that phase.</p>	<p>Detailed CEMP approved prior to the start of construction</p> <p>Approved diversion with the local PROW officer</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-26	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse effect on pedestrians travelling along / crossing roads that are part of the construction route (that do not meet the criteria in IEMA rule 2)	<ul style="list-style-type: none"> As for TT-12 	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approval to the CTMP prior to the commencement of the construction phase
TT-27	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Implementation of section 7.6 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1) which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.	Construction	Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	<p>Approval of temporary alterations from the relevant street authority prior to the start of works</p> <p>Approved CTMP prior to the start of construction</p>
TT-28	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-02 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Detailed design approved prior to the start of construction
TT-29	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-03 	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Road connection design approved by CCC prior to the start of construction
TT-30	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian crossing points and distances to destinations. Section 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring the movement of 	Construction	Sections 5.2, 3.3 and 7.2 of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>vehicles associated with the construction of the Proposed Development, this will include the following:</p> <ul style="list-style-type: none"> - Documented pre-commencement meetings with the site management team as a contractual requirement; - Active traffic management; and - FORS and CLOCS accreditation 				
TT-31	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> • Section 4.2 which recognises the potential conflict of site access point CA2/CA3 which will cross the existing footway / cycleway on the west side of Horningsea Road which may require marshalling during peak hours and/or traffic management measures to provide a safe crossing point for site traffic and pedestrians and cyclists • Section 6.9 (Facilitate safe movement of users of the highway (including NMUs))which refers to site access point COA3, CA6, CA2/CA3 which indicates the majority of the highway works can be carried out under TM that maintains vehicular access on Horningsea Road, under temporary signal control. And requires that the existing footway / cycleway to the west of the Horningsea Road carriageway will be maintained at all times with suitable barriers separating the footway from the works. • Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires that speed restrictions to Horningsea Road will be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) 	Construction	Section 4.2 (Local routeing and site plant vehicle routeing) and section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
TT-32	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		Sequencing the proposed WWTP access road construction at the start of the programme so that it can be used in construction to minimise use of Horningsea Road to access Low Fen Drove Way	Construction	ES Chapter 2 Project Description, 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to the start of construction
TT-33	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-13 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of temporary alterations from the relevant street authority prior to the start of works</p> <p>Approved CTMP prior to the start of construction</p>
TT-34	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-12. 	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline</p> <p>Appointment of CLO prior to the start of construction</p>
TT-35	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Waterbeach pipeline - level crossings on Bannold Road and Station Road in Waterbeach	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along Long Drove, Bannold Road, Burgess's Road, Fen Road	<p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> Section 4.2 that all deliveries of 3.5 tonnes or above will be made between the hours of 9:30am – 3:30pm for Fen Road or 09:30am to 3:00pm for Bannold Road and Burgess's Drove and Long Drove during school term time. Unless it is determined to be essential that the delivery is to be completed during peak hours. Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which: <ul style="list-style-type: none"> requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed 	Construction	Sections 4.2 (Local routing and site plant vehicle routing) and 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP and prior to the commencement of the construction phase for the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>restrictions and the use of banks persons</p> <ul style="list-style-type: none"> – requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons – includes a commitment to avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time and to adequately reinstate any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable 				
TT-36	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Waterbeach pipeline - Burgess's Drove, Bannold Drove and Bannold Road and Clayhithe Road		Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires that speed restrictions Speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders)	Construction	Section 6.9 (Facilitate safe movement of users of the highway) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7) Temporary Traffic Regulation Order set out in Article 16 of the DCO	Approved CTMP prior to the start of construction of the Waterbeach pipeline Approval of temporary alterations from the relevant street authority prior to the start of works
TT-37	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> • As for TT-13 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approved CTMP prior to the start of construction of the Waterbeach pipeline
TT-38	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> • As for TT-12 	Construction	Section 3 of the CoCP Part A (Community & Stakeholder Engagement) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								Appointment of CLO prior to the start of construction
TT-39	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary effect on fear and intimidation for pedestrians and cyclists travelling along roads that are part of the construction route (that don't meet Rule 2)	<ul style="list-style-type: none"> As for TT-01 	Construction	Section 7.7 of the CoCP Part A (Traffic and Transport) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of the CTMP prior to the commencement of the construction phase</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>
TT-40	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-13 	Construction	Section 7.2 (Monitoring strategy) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>Approval of the CTMP prior to the commencement of the construction phase</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>
TT-41	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Coely Road		Section 4.2 of the CTMP which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs.	Construction	Section 4.2 (Local routeing and site plant vehicle routeing) of the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	<p>Approval of the CTMP prior to the commencement of the construction phase</p> <p>Approval of temporary closure or alterations from the relevant street authority prior to the start of works</p>
TT-42	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-12 	Construction	Schedule 2 – Requirement to implement CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline</p> <p>Appointment of CLO prior to the start of construction</p>
TT-43	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline, Cowley Road	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on Long Drove, Bannold Drove, Burgess's Drove, Fen Road	Implementation of the CTMP in particular Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) which includes a commitment to avoid HGV movements through Waterbeach during school drop-off and pick-up hours throughout term time and to adequately reinstate any areas of footpath affected by the works and to maintain the existing	Construction	CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Sections 6.3 (Adherence to designated routes), 6.9 (Facilitate safe	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the	Approval of the CTMP and prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>alignment/gradient as much as is practicable. Section 6.9 requires:</p> <ul style="list-style-type: none"> requires connectivity/access to community facilities and residential properties to be maintained during works. At the level crossings on Bannold Road and Station Road in Waterbeach, construction traffic, where necessary, should have restricted working hours, speed restrictions and the use of banks persons requires that speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in Article 16 of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) requires temporary parking restrictions on Bannold Road junction with Denny End Road / Car Dyke Lane for the duration of the Waterbeach pipeline construction As for TT-13 As for TT-41 		movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring strategy) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	construction traffic management plan (App Doc Ref 5.4.19.7)	
TT-44	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT12 	Construction	Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP), and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>Approval of the CEMP and accompanying CLP prior to the start of construction of the Waterbeach pipeline</p> <p>Appointment of CLO prior to the start of construction</p>
TT-45	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-13 	Construction	CTMP-(Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the	Approval of the CTMP prior to the commencement of the construction phase

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							construction traffic management plan (App Doc Ref 5.4.19.7)	
TT-46	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> AS for TT-01 	Construction	Sections 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approval of the CTMP prior to the commencement of the construction phase
TT-47	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to temporary increase in accidents and road safety / worsening of road user safety on the local road network (that do not meet rule 2)	Implementation of the CTMP in particular <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes Section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads. As a minimum this will include internal haul road speed limits, warning (hazard signs), potential vehicle or pedestrian Section 4.2 which recognises the footpath/cycleway along Cowley Road is a potential conflict area which may require diversion and traffic management measures (subject to agreement with the LHA) for pedestrians and other NMUs. Section 7.2 (Monitoring Strategy) which requires the Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO. 	Construction	Sections 4.2 (Local routeing and site plant vehicle routeing), 5.2 (Temporary access points and construction road signage), 6.3 (Adherence to designated routes), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring strategy) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	<ul style="list-style-type: none"> As above 	Approval of the CTMP prior to the commencement of the construction phase
TT-48	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline		<ul style="list-style-type: none"> As for TT-13 	Construction	CTMP-(Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan (App Doc Ref 5.4.19.7)	Approval of the CTMP prior to the commencement of the construction phase
TT-49	ES Chapter 19: Traffic and	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to an increased risk / delay for users of the local road	Temporary traffic control, design of temporary connections to the road network, sequencing the proposed WWTP access road construction.	Construction	CTMP (Appendix 19.7, App Doc Ref 5.4.19.7)	<ul style="list-style-type: none"> As above 	Approval of the CEMP and accompanying CTMP prior to the

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary		network as a result of the transportation of hazardous loads	Implementation of the CTMP in particular Section 7.2 (Monitoring Strategy) which requires the Principal Contractor(s) to manage and operate a 'near miss' reporting system to ensure any accidents or near misses are recorded and investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO.				commencement of the construction phase
TT-50	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP and Waterbeach pipeline	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal loads	<ul style="list-style-type: none"> As for TT-49 Section 4.2 (Local routeing and site plant vehicle routeing) which requires <ul style="list-style-type: none"> abnormal loads to have specific measures including appropriate vehicle escort and marshalling where required and timing of movement to be outside peak hours (i.e., school start and finishing times). all deliveries will be made outside of peak hours (8:00-9:00, 15:00-16:00, and 17:00-18:00) unless it is determined to be essential that the delivery is to be completed during peak hours. all deliveries of 3.5 tonnes or above will be made between the hours of 9:30am – 3:30pm for Fen Road or 09:30am to 3:00pm for Bannold Road and Burgess's Drove and Long Drove during school term time. Unless it is determined to be essential that the delivery is to be completed during peak hours. section 6.3 (Adherence to Designated Routes) and section 6.9 (Facilitate safe movement of users of the highway (including NMUs) requirement to provide connectivity/access to community facilities and residential properties during works. 	Construction	Sections 4.2 (Local routeing and site plant vehicle routeing), 6.3 (Adherence to designated routes), and 7.2 (Monitoring strategy) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approval of the CEMP and accompanying CTMP prior to the commencement of the construction phase
TT-52	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP	Operational vehicle movements and the presence of the new connection to the Horningsea Road junction leads to adverse effect on severance, fear and intimidation, and accident and safety risk for pedestrians and cyclists	<p>Inclusion within the design a pedestrian and cycle route and access to the proposed WWTP to be further developed by the Principal Contractor that includes</p> <ul style="list-style-type: none"> A segregated pedestrian and cyclist access to the proposed WWTP 	Operation	Design Plans – Highways and Site Access (App Doc Ref 4.11) ES Chapter 2 Project Description, Section 2.9 Proposed WWTP access and off-site highway network	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Approval of detailed design prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
			travelling along Horningsea Road	<ul style="list-style-type: none"> • Pedestrian island crossing on Horningsea Road and lighting extending from the junction to the crossing • A new footway section on the east side of Horningsea Road south of the junction with Low Fen Drove Way. 		alterations (App Doc Ref 5.2.2)		
TT-53	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP		Management of vehicle movements through application of measures within operational logistics traffic plan including scheduling of deliveries and monitoring of vehicle movements such as through use of a geofence system.	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19) Outline Operation Logistics Traffic Plan (App Doc Ref 5.4.19.10)	DCO Schedule 2 Requirement 19 (Operational logistics traffic plan) which requires a detailed operational logistics traffic plan to be submitted for approval must accord with the measures set out in the outline operational logistics traffic plan.(App Doc Ref 5.4.19.10)	Approval of the Operational Logistics Traffic Plan prior to the start of operation
TT-54	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP		Controlled through application of an OWTP that sets out target modal shift targets that will be agreed with CCC; and includes measures such as car sharing, providing public transport information and access to loans and/or discounts for public and sustainable transport uses will provide the mechanisms to attain that target	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19) Operational Workers Travel Plan (Appendix 19.8, App Doc Ref 5.4.19.8)	DCO Schedule 2 Requirement 12 (Operational workers travel plan) (App Doc Ref 2.1) which requires that no phase shall start a detailed operational works travel plan has been submitted to and approved in writing by the relevant planning authority. The detailed plan must accord with the outline operational worker travel plan (App Doc Ref 5.4.19.8).	Approval of the Operational Worker Plan prior to the start of operation
TT-55	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing mitigation summary	Proposed WWTP	Operational vehicle movements leads to adverse effect on driver delay at junction 33 Milton Interchange.	Controlled through application of an OLTP peak delivery period restrictions on operational vehicles, if required, to manage impacts. The peak hour restrictions would be 08:00-09:00 and 17:00-18:00, unless it is determined to be essential that the operational need is to be completed during peak hours or specific alternative restrictions are agreed with the local highway authority; The mechanism for monitoring and an appropriate trigger for the introduction of peak hour restrictions on operational vehicle movements associated with the proposed WWTP will be agreed with the local highway authority as part of developing the detailed plan as secured under Schedule 2 Requirement 19	Operation	Operational Workers Travel Plan (Appendix 19.8, App Doc Ref 5.4.19.8)	DCO Schedule 2 Requirement 12 (Operational workers travel plan) (App Doc Ref 2.1) which requires that no phase shall start a detailed operational works travel plan has been submitted to and approved in writing by the relevant planning authority. The detailed plan must accord with the outline operational worker travel plan (App Doc Ref 5.4.19.8).	Approval of the Operational Worker Plan prior to the start of operation
TT-56	ES Chapter 19: Traffic and Transport (App Doc Ref 5.3.19) Table 5-3 Securing	Proposed WWTP	Operational traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal or hazardous loads as part	Controlled through the OLTP and requirements in relation coordination of vehicle movements in line with the regulations for notifying authorities of abnormal loads	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19) Outline Operation Logistics Traffic Plan	DCO Schedule 2 Requirement 19 (Operational logistics traffic plan) which requires a detailed operational logistics traffic plan to be submitted for approval must accord with the measures set out	Approval of the Operational Logistics Traffic Plan prior to the start of operation

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary		of emergency operational activities.			(App Doc Ref 5.4.19.10)	in the outline operational logistics traffic plan.(App Doc Ref 5.4.19.10)	

Water resources

Table 2.16: Water resources

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-01	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of deep excavations for the tunnel and associated shafts on groundwater flows, groundwater levels and groundwater quality within the Lower Greensand (Woburn Sands Formation) aquifer	Impacts from deep excavations will be avoided through the design which places the deepest elements of below ground structures so that will not penetrate the Lower Greensand.	Construction	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9) Design Plans - Buildings (App Doc Ref 4.10) Design Plans - Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)	Approved phasing plan Approved design prior to construction Preparation of a construction method statement to accord with the requirements of any related Environmental Permit (Abstraction).
WR-02	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to River Cam levels and flows close to and downstream of the crossing of the proposed waste water transfer tunnel from the existing WWTP to the proposed WWTP, and associated access shafts.	Impacts to river levels will be managed by: <ul style="list-style-type: none"> The use of trenchless techniques to install structures below the river-bed The setting of equipment launch and recovery equipment outside of the main river byelaw margin. 	Construction	Flood Risk Activities Permit Section 7.5 (Water resources and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of the CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP Preparation of a construction method statement to accord with the requirements of related Environmental Permit (Flood Risk Activities).
WR-03	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to superficial and bedrock groundwater flows and levels, due to dewatering of open-cut trenches during the FE and stormwater pipeline installation	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1), in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> Minimising run-off and the risk of runoff reaching ditches and watercourses such as through the siting of launch and recovery pits associated with trenchless construction methods to be located a minimum of 8m from top of bank 	Construction	Sections 4.4 CEMP, 5.7, Pollution Incident Control Plan, and 7.5 Water resources and flood risk (dewatering) (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	Approved phasing plan Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or working under Regulatory Position Statement (RPS) 261 issued by the Environment Agency Approved CEMP and associated sub-plans

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. Management of dewatering to meet requirements of the Environment Agency regulatory position statement (RPS) 'Temporary dewatering from excavations to surface water' or Environmental Permit, whichever applies to the activity. Including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 				
WR-04	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to groundwater abstractions due to dewatering of open-cut trenches during the FE and stormwater pipeline installation	<ul style="list-style-type: none"> As for WR-03 	Construction	Sections 4.4 CEMP, 5.7, Pollution Incident Control Plan, and 7.5 Water resources and flood risk (dewatering) (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by	Approved phasing plan Approved CEMP and associated accompanying sub-plans relevant to the phase prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							Requirement 8 (CoCP(App Doc Ref 2.1))	
WR-05	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of excavation and backfill of final effluent and storm pipeline trenches on land drains and groundwater flow	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to groundwater flow:</p> <ul style="list-style-type: none"> A requirement within the CoCP Part B, section 3.4 which requires the backfilling of trenches with suitable materials, including the use of clay plugs or partitions if necessary to prevent preferential groundwater flow in backfilled trenches. 	Construction		<ul style="list-style-type: none"> As above 	<p>Approved phasing plan</p> <p>Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or working under RPS 261 issued by the Environment Agency</p> <p>Approved CEMP and associated sub-plans</p>
WR-06	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		A requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner.	Construction	Sections 5.14 (Watercourses/drainage channels), and 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<ul style="list-style-type: none"> As above 	<p>Approved phasing plan</p> <p>Approved CEMP and associated sub-plans prior to the start of construction</p>
WR-07	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering during outfall construction on groundwater and surface water flows and levels	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) of Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of dewatering effects on groundwater including:</p> <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including rates and durations Measures to control dewatering (such as ceasing, changing of pump rates) to be put in place if impacts on water flows/levels are identified 	Construction	Section 5.13 (River work), and 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Outline OMMP (App Doc Ref 5.4.8.24)	<p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1))</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)</p>	<p>Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities)</p> <p>Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities).</p> <p>Approved CEMP prior to the start of construction</p> <p>Approved outfall management and monitoring plan required prior to the</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								commencement of construction activities affecting the River Cam incorporating requirements within <ul style="list-style-type: none"> • Environmental Permit (Flood Risk Activities) • Environmental Permit (Discharge to surface water)
WR-08	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of cofferdam, used to maintain dry conditions during outfall construction, on water quality of the River Cam	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 and 2.2 App Doc Ref 5.4.2.1 and 5.4.2.2) in particular Part A section 4.4 which required the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of dewatering activities including: • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and 	Construction	Section 5.13 (River work), and 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Outline OMMP (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with the outline OMMP (Application Document Reference 5.4.8.24)	Design of outfall and scour protection measures as per final design specified as part of the environmental permit (flood risk activities) Preparation of a method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approved CEMP Approval and implementation of an Outfall Management and Monitoring Plan Approved outfall management and monitoring plan required prior to the commencement of construction activities affecting the River Cam incorporating requirements within <ul style="list-style-type: none"> • Environmental Permit (Flood Risk Activities) • Environmental Permit

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>control of dewatering discharge rates to prevent scour</p> <ul style="list-style-type: none"> The application of measures to prevent run-off from construction to the landside draining to the cofferdam such as the use of cut off drains, avoiding vegetation removal right up to the bank, minimising the areas at the bank that are disturbed/cleared, avoiding stockpiling of material close to the banks, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. 				(Discharge to surface water)
WR-09	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to fluvial flood risk due to construction of the outfall and requirement for temporary in river works and works activities in the floodplain	<p>The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, which sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be reflected in an appended plan to/as part of the CEMP. This will include the following:</p> <ul style="list-style-type: none"> Requirement to minimise construction period (for river works) Requirement for the cofferdam to be designed to maintain the flood protection levels currently provided by the riverbank. The timing of river works in summer months Requirement for a flood management plan for construction works within areas at risk of flooding Requirement to secure or relocation loose items within compounds, laydown or storage areas within flood zone 2 and 3 to prevent them becoming a debris hazard in a flood event or where practical removed from the flood zone if high rainfall within the catchment is predicted Requirement for the Principal Contractor(s) to consult with the Environment Agency, IDB, Lead Local Flood Authority and any other relevant risk management authorities in respect of the flood risks in the preparation of the Emergency Preparedness Plan and 	Construction	As above plus Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) of the CoCP Part B (App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated flood risk management plan Implementation of works to accord with the requirements of the Environmental Permit (Flood Risk Activities).

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				Pollution Incident Control Plan. This will include use of the Environment Agency's Floodline flood warning service for works within areas at risk of flooding				
WR-10	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Phasing of construction activities Section 3.1 of the CoCP Part B in relation to completion of in river works in summer months when water levels are expected to be lower	Construction	Section 3 (Site specific measures) CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2) OMMP (Application Document Reference 5.4.8.24)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1) DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24) Environmental permit.	Approved CEMP prior to start of construction Approved construction Outfall Management and Monitoring Plan prior to the start of construction Environmental permit in place prior to the start of temporary river works
WR-11	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering of the West Melbury Marly Chalk Formation to watercourses including the River Cam, Black Ditch and Quy Water, during construction of the TPS shaft	Management of dewatering on the availability of groundwater through the monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering, or amending dewatering points and would be agreed through consultation with the Environment Agency.	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.8.24) Sections 4.4 (CEMP), 7.5 (Water resources and flood risk - dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP App Doc Ref 2.1).	Approved phasing plan Implementation of works to accord with the requirements of the Environmental Permit (Flood Risk Activities/Water Discharges) or work within RPS261 issued by the Environment Agency Approved monitoring plan and programme prior to the start of construction
WR-12	ES Chapter 20: Water Resources	Proposed WWTP (including land	Impact of dewatering of West Melbury Marly Chalk	Management of dewatering on the changes to groundwater through:	Construction	Section 5.13 (River work) and 7.5 (Water	DCO Schedule 2 Requirement 9 (CEMP) which requires the	Approved phasing plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	(App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	required for permanent access and landscape masterplan)	Formation on a surface water abstraction for agriculture (spray irrigation) in Black Ditch	<ul style="list-style-type: none"> Maintaining regular contact with the owner of a nearby private borehole during construction and putting in place measures to maintain supply to the property if required. These will be outlined in the CEMP. There will not be any dewatering to the Black Ditch itself. 		resources and flood risk) of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Community Liaison Plan (CLP) (App Doc Ref 7.8)	preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1). DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8).	Approved CEMP and associated flood risk management plan Approved CLP Implementation of works to accord with the requirements of the Environmental Permit (Flood Risk Activities/Water Discharges) or work within RPS261 issued by the Environment Agency
WR-13	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, would be undertaken for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering or amending dewatering points and would be agreed through consultation with the Environment Agency.	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-14	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering of the West Melbury Marly Chalk Formation on groundwater levels during construction of the TPS shaft	Management of dewatering on the availability of groundwater through the monitoring of water levels in available monitoring boreholes within the land required for proposed WWTP and landscape masterplan, for a period prior to, during and following all dewatering activities during construction at the proposed WWTP in order to inform management response should monitoring indicate a change in groundwater flows as a result of dewatering. Management responses may include but not be limited to reducing or ceasing dewatering, or amending dewatering points and would be agreed through consultation with the Environment Agency.	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Sections 4.4 (CEMP), 7.5 (Water resources and flood risk), dewatering, management of silt during construction), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8). DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13).	
WR-15	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		A no-derogation agreement will be made with the owner of the private groundwater source.	Construction	No derogation agreement Community Liaison Plan (CLP) (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	No derogation agreement in place Implementation of approved CLP
WR-16	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of dewatering during construction of the TPS shaft on groundwater levels at nature conservation sites.	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) of Part A which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practise measures in relation to management of groundwater including: <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including rates and durations 	Construction	Section 7.5 (Land quality) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1).	Approved phasing plan Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or Regulatory Position Statement issued by the Environment Agency
WR-17	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Measures to control dewatering (such as ceasing, changing of pump rates) to be put in place if monitoring of water levels in Black Ditch indicates adverse changes as result of dewatering during the TPS construction leads to significant effects to surface water bodies	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-18	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Reduction in groundwater and surface water flows and levels due to dewatering in the West Melbury Marly Chalk Formation during dewatering associated with the construction of below-ground structures and foundations, plus associated groundwater impact on nature conservation sites.	<p>Monitoring of water levels in available monitoring boreholes within the land required for the landscape masterplan and at Black Ditch, Allicky Farm Pond CSW, and The Cut water body within Quy Fen SSSI pre, during and post-construction in order to inform management response should monitoring indicate a reduction in water levels as a result of dewatering.</p> <p>Management responses may include but not be limited to reducing or ceasing dewatering or amending dewatering points and would be agreed through consultation with the Environment Agency.</p> <p>Impacts to groundwater levels and surface water flows will be managed through the implementation of measures to maintain supply as required by agreement to be made with the owner of the private groundwater source.</p>	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13) Sections 4.4 (CEMP) para 4.4.4, 7.5 (Water resources and flood risk (dewatering, management of silt during construction)), and 5.7, Pollution Incident Control Plan, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3 of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	<p>monitoring plan (App Doc Ref 5.4.20.13)</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)</p> <p>DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)</p>	<p>Approved phasing plan</p> <p>Approved monitoring plan</p> <p>Review and updated plan once construction has ceased</p>
WR-19	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		A no-derogation agreement will be made with the owner of the private groundwater source whereby Impacts to groundwater levels and surface water flows will be managed through the implementation of measures to maintain supply as required by agreement to be made with the owner of the private groundwater source.	Construction	Community Liaison Plan (CLP) (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which includes the requirement to prepare a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)	<p>No derogation agreement in place</p> <p>Implementation of approved CLP</p>
WR-20	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impacts of spillages of potentially contaminating materials used in construction, and the potential for construction-related turbidity, giving rise to contamination of groundwater.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> The application of measures to prevent run-off from construction such as the use 	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1), Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by</p>	<p>Approved phasing plan</p> <p>Implementation of works to accord with the requirements of the Environmental Permit (Water Discharges) or work within RPS 261 issued by the Environment Agency</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.</p> <ul style="list-style-type: none"> • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 			Requirement 8 (CoCP) (App Doc Ref 2.1)	
WR-21	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		<p>No derogation agreement with owner of private groundwater source. Measures would be taken to maintain a supply in the unlikely event that the source was affected by dewatering. Monitoring of water quality in available monitoring boreholes within the land required for the landscape masterplan, would be undertaken for a period prior to, during and following all dewatering activities during construction at the proposed WWTP. Requirement for operational management and monitoring plans to include specific provision for water quality monitoring at the specified locations</p>	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	No derogation agreement Approved water quality monitoring plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-22	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impacts to surface water quality from spillages of contaminants and from discharges of silt-laden water from dewatering activities.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</p> <ul style="list-style-type: none"> Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained Requirement to have in place emergency response measures including stopping works, training of staff, use of spill response equipment The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of 	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 4.4 CEMP, Section 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP incorporating requirements within Environmental Permit (Discharge to surface water) and or within RPS, and appended water quality management plan, emergency response plan Approved construction risk assessment and method statement in relation to dewatering through applicable Environmental Permit (Water Discharge) or working within a Regulatory Position Statement issued by the Environment Agency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff.				
WR-23	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Monitoring of water quality at Black Ditch for a period prior to, during and following construction activities at the proposed WWTP in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements .	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved phasing plan Approved monitoring plan and programme prior to the start of construction Review and updated plan after year 1 of monitoring post construction
WR-24	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of construction sites increasing surface water flood risk by increasing surface water runoff during periods of heavy rainfall	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> The application of measures to prevent run-off from construction such as the use of cut off drains, avoiding vegetation removal right up to the banks of watercourses, minimising the areas of land that are disturbed/cleared, avoiding stockpiling of material close to the banks of watercourses, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff. 	Construction	Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) , 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP incorporating requirements within Environmental Permit (Flood Risk Activities) and appended water quality management plan, flood management plan, and emergency response plan
WR-25	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing	Proposed WWTP (including land required for permanent access and landscape masterplan)		The management of water resources and flood risk as set out within Section 7.5 of the CoCP Part A, Water resources and flood risk, sets out a framework for the control of flood risk during construction, identifying a number of 'standard' mitigation measures which will be implemented whilst construction work takes place. These will be	Construction	Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) , 7.5 Water resources and	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for	Approved phasing plan Approved CEMP incorporating requirements within Environmental Permit (Flood Risk Activities)

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary			<p>reflected in an appended plan to/as part of CEMP. This will include the following:</p> <ul style="list-style-type: none"> Requirement to minimise the construction period for sections identified within the flood zone The timing of river crossing works in summer months if possible Requirements for a flood management plan for construction plan for construction works within areas at risk of flooding Inclusion of dry access/egress routes for pedestrians from compounds Requirement for any soil temporary stored within the flood zone, to include gaps to allow flood water to run through <p>Construction Water Quality Management Plan will be incorporated into the CEMP. These plans will set out requirements in construction areas to minimise impacts to the works and surrounding area from flooding and prevent any significant effects on the existing flood risk in the surrounding area.</p>		flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	and appended water quality management plan, flood management plan, and emergency response plan
WR-26	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Following industry standards in relation to testing activities /completion of visual inspections of equipment under test to check for signs of structural deficiency prior to commencement of testing activities Requirement for refuelling of machinery used in testing to be completed within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained Measures applied for the management of leaks and spillages such as use of drip trays 	Construction	Sections 4.4 (CEMP) Para 4.4.4 within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) , 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>under construction plant and equipment, provision of spill kits</p> <ul style="list-style-type: none"> Requirement for emergency response measures to be in place including stopping works, training of staff, use of spill response equipment 				
WR-27	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Management of commissioning activities through application of measures within the outline Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the wet commissioning activities.	Construction	<p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p> <p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p>	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)	Approved Commissioning Plan
WR-28	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact on water quality in the River Cam when final effluent discharge transfers from the existing to the proposed WWTP.	Management of commissioning activities through application of measures within the outline Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan), and Section 7.5 (Water Resources and Flood Risk) (Appendix 2.1, App Doc Ref 5.4.2.1) which requires that the contractors to prepare a Commissioning Plan.	Construction	<p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p> <p>ES Chapter 2 Project Description, Section 3.9 Construction environmental management, odour mitigation during construction (App Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline commissioning plan (App Doc Ref 5.4.2.4)</p>	<p>Approved phasing plan</p> <p>Approved Commissioning Plan</p> <p>Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).</p>
WR-29	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of accidental spills to groundwater quality while relocating rising mains and gravity sewers at the existing Cambridge WWTP	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits 	Construction	Sections 4.4 CEMP, Section 7.5 Water resources and flood risk and 5.7, Pollution Incident Control Plan, (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by</p>	<p>Approved phasing plan</p> <p>Approved CEMP and associated sub plans</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery used for the works to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 			Requirement 8 (CoCP) (App Doc Ref 2.1)	
WR-30	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)		Construction Water Quality Management Plan will be incorporated into the CEMP. These plans will set out requirements in construction areas to minimise impacts to and from the works from run-off, spills and leaks and prevent any significant effects on the existing flood risk in the surrounding area.	Construction	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approval and implementation of a CEMP
WR-31	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact to groundwater levels due to construction of interception shaft 1 and intermediate Shafts 2 and 3 within the existing WWTP.	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Management of dewatering activities associated with shaft construction in accordance with Environment Agency specifications including control of dewatering rates. Best practice measures applied for management of dewatering including control on rates agreed through regulator. <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s),</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4, 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans Implementation of approved construction method statement to accord with the requirements of related Environmental Permit or Regulatory Position Statement issued by the Environment Agency Approval of the construction risk assessment and method statement associated with the detailed design and construction approach for the shafts as secured through applicable Environmental Permit (Abstraction).

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures in relation to the prevention of impacts to controlled waters as (as defined within in Section 104 (1) of the Water Resources Act 1991 and Section 30A (d) of the Control of Pollution Act 1974') including:</p> <ul style="list-style-type: none"> Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits Requirements for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained Emergency response measures including stopping works, training of staff, use of spill response equipment Management of dewatering to meet requirements of the Environmental Permit required for dewatering including setting the rates and duration of dewatering activity to be informed by the detailed construction methods. 				
WR-32	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP (including land required for permanent access and landscape masterplan)	Impact of accidental spills to groundwater quality while relocating rising mains and gravity sewers at the existing WWTP	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits 	Construction	Sections 4.4 (CEMP) Para 4.4.4, 7.5 Water resources and flood risk (dewatering) and 5.7, Pollution Incident Control Plan, within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP)(App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. Requirement for refueling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained Rigorous groundwater protection measures as outlined in CoCP and implemented in CEMP 				
WR-33	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact of excavation and backfill of Waterbeach pipeline trench on land drains and groundwater flow	<p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1, 5.4.2.2) in particular section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to groundwater flow:</p> <ul style="list-style-type: none"> A requirement within the CoCP Part A, section 5.14 (Watercourses/drainage channels) which requires the identification of land drains potentially affected by construction works and the reinstatement of a post works drainage system to the satisfaction of the land owner. A requirement within the CoCP Part B, section 3.4 which requires the backfilling of trenches with suitable materials, including the use of clay plugs or partitions if necessary to prevent preferential groundwater flow in backfilled trenches. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 7.5 (Water resources and flood risk (dewatering)), and section 5.14 (Watercourses/drainage channels) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	<p>Approved phasing plan</p> <p>Approved CEMP and associated sub plans prior to the start of construction</p>
WR-34	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s).</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.13 (River work), and 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A</p>	<p>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)</p> <p>Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering as secured through</p>	<p>Approved phasing plan</p> <p>Approved CEMP and associated sub plans</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>These plans will include the requirement to implement best practice measures including:</p> <ul style="list-style-type: none"> • The application of measures to prevent run-off from construction on the landslide draining to the cofferdam such as the use of cut off drains, avoiding vegetation removal right up to the bank, minimising the areas at the bank that are disturbed/cleared, avoiding stockpiling of material close to the banks, use of silt fencing or coir rolls on gentle slopes installed at levelled contours to control runoff • Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. • Measures applied for the management of leaks and spillages such as use of drip trays and provision of spill kits • Requirement for the safe storage and handling of potentially contaminating materials including fuels and oils in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001 and Dangerous Substances and Explosive Atmospheres Regulations 2002. • Requirement for refuelling of machinery to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained • Management of excavation and backfill on drainage and groundwater through: • Robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation 		<p>(Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>applicable Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p> <p>DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)</p>	

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-35	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines		In the unlikely event that the private supply from the groundwater source could be significantly affected, if required, measures would be taken to maintain a supply to the property. A requirement within the CoCP Part B in relation to a borehole approximately 210 metres from the pipeline, to maintain regular contact with the owner during construction and a requirement to maintain supply to the property if required. These will be outlined in the CEMP. A non-derogation agreement will be entered into with the owners at their request.	Construction	Community Liaison Plan (CLP) (App Doc Ref 7.8) Sections 3.4 (Waterbeach pipeline) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	No derogations offered prior to start of construction Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction
WR-36	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact of the Waterbeach transfer pipeline river crossings to the River Cam water quality and flow during construction of river crossings	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement the following measures in relation to river crossings: <ul style="list-style-type: none"> management of river crossings through the siting of launch and recovery pits associated with trenchless construction methods are located a minimum of 8m from top of bank or existing defence whichever is applicable. the use of trenchless techniques to install structures below the river-bed. 	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved CEMP and associated sub plans prior to the start of construction Approved construction method statement to accord with the requirements of related Environmental Permit
WR-37	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impacts to water quality in watercourses close to the Waterbeach pipeline due to discharge of fluids used for pipeline testing	Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular section 4.4 (CEMP) which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s), Pollution Incident Control Plan, and risk assessments before works commence on site. The plans will be appended to or incorporated into the CEMP(s). These plans will include the requirement to implement best practice measures including: <ul style="list-style-type: none"> Management of dewatering activities in accordance with Environment Agency specifications including treating dewatering effluent prior to discharge and control of dewatering discharge rates to prevent scour. 	Construction	Section 7.5 (Water resources and flood risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.1 (Treated effluent and storm pipelines and outfall to the River Cam) CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved phasing plan Approved detailed CEMP and accompanying sub-plans prior to the start of construction Approved construction method statement to accord with the requirements of related Environmental Permit or Regulatory Position Statement issued by the Environment Agency

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> The management of potential impacts associated with the disposal of pipeline testing fluids will be through: A requirement within the CoCP Part B for the use of clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to associated Environmental Permit conditions Disposal to watercourse at controlled rates and locations as agreed with the Environment Agency and set out within conditions of the required Environmental Permit Clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to Environment Agency permit conditions. 				
WR-38	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	<p>Direct impacts minimised by the following design measures:</p> <ul style="list-style-type: none"> scour protection included in design for outfall and riverbank to prevent local riverbed scour impacts design of the outfall structure, as informed by modelling, to control flow rates from the outfall Design measures to prevent or minimise scour and impacts from operation of the outfall are: Design of the outfall to operating within the maximum volume limits which are to be similar to those from the existing outfall; Flow rates controlled to be similar to existing outfall; Design of storm storage volumes and flow rates to meet regulatory requirements; Inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	<p>Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2)</p> <p>Outline OMMP (Application Document Reference 5.4.8.24)</p>	<p>Environmental Permit (Flood Risk Activities)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Preparation of accepted Outfall design and construction method statement secured through the Environmental Permit (flood risk activities)</p> <p>Approval of a detailed operational OMMP prior to the start of operation</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-39	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Outfall		<p>A requirement to prepare and implement and outfall management and monitoring plan covering the operation of the outfall to include a programme of routine visual inspection of both riverbanks downstream of the proposed outfall following a stormwater discharge event to inform the need for maintenance or repair measures as agreed with the Environment Agency.</p> <p>Design Code (App Doc Ref 7.17) at measure OFT.06 requires detailed design to be supported by further modelling to support detailed design such that impacts of flows do not create a significant effect to either the riverbed or riverbank.</p>	Operation	<p>Outline OMMP (Application Document Reference 5.4.8.24)</p> <p>Design Code (App Doc Ref 7.17)</p>	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p> <p>DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)</p>	<p>Approved phasing plan</p> <p>Approved design</p> <p>An approved Outfall management and monitoring plan prior to the commencement of the phase.</p> <p>Environmental Permit for a flood risk activity granted by the Environment Agency.</p>
WR-40	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	Impact of final effluent discharge from the proposed outfall on water quality for the River Cam	<p>The management of effluent quality and storm spill impacts through:</p> <ul style="list-style-type: none"> design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent and greater storm storage than the existing Cambridge WWTP) to achieve no deterioration within the River Cam design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes design of storm storage volumes and flow rates to meet regulatory requirements; inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision 	Operation	<p>Design Plans – Proposed Waste Water Treatment Plant (App Doc Ref 4.9)</p> <p>Design Plans – Buildings (App Doc Ref 4.10)</p> <p>Design Plans – Sewage Tunnel and Longitudinal Sections (App Doc Ref 4.12)</p> <p>ES Chapter 2 Project description, Section 2.15 Phasing of construction (App Doc Ref 5.2.2.)</p>	Environmental Permit (Water Discharge Activities)	Approved monitoring plan as part of environmental permitting process EMS including operational procedures for monitoring , spill response, emergency response etc in place prior to start of operation.
WR-41	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP – Outfall	Impact of final effluent and stormwater discharges to water levels in the River Cam and the potential for increasing fluvial flood risk	Robust design informed by modelling	Operation	<p>Chapter 2 (Project Description), section 2.12 (The Outfall) (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13).</p> <p>Outfall CFD Report (App Doc Ref 5.4.20.7)</p>	<p>Environmental Permit (Water Discharge Activities)</p> <p>DCO Schedule 2 Requirement 10 (Outfall) (App Doc Ref 2.1) which requires the approval and implementation of a detailed outfall management and monitoring management and monitoring plan secured to comply with OMMP (Application Document Reference 5.4.8.24)</p>	<p>Preparation of a detailed design and method statement to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (Flood Risk Activities). Approval and implementation of an approved Outfall Management and</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
								Monitoring Plan (OMMP)
WR-42	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		WWTP will operate in accordance with the relevant effluent volume limit values which will be specified within a site-specific Environmental Permit	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations) secured prior to the start of operation.
WR-43	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	Impact of minor inflows of groundwater to shafts or outflow of waste water from the TPS shaft	Manged through robust design and implementation of approved construction methods for the permanent shafts including agreement of methods in relation to any required dewatering and associated regulatory requirements	Operation	ES Chapter 2 Section 2.6 Waste water transfer tunnel and Section 3.4 Construction techniques and methodology (App Doc Ref 5.2.2)	Environmental Permit (Groundwater Activities)	Phasing plan Approved detailed design and construction method statements prior to the start of construction Dewatering permits in place prior to the start of construction
WR-44	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of water levels and quality in available monitoring boreholes within the land required for the landscape masterplan, would continue throughout operation.	Operation	Outline water quality monitoring plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved water quality monitoring plan prior to the start of operation
WR-45	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	Impact of below-ground structures and areas of hardstanding, on drainage in the WWTP, and recharge and groundwater in the aquifer.	Design measures to manage impacts to groundwater bodies: <ul style="list-style-type: none"> segregated drainage system in areas of potential contamination with the proposed WWTP. Detailed drainage design will determine area of permeable surfaces through which infiltration could occur. management of incidences of emergent groundwater through the surface water drainage design which would then become 	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). Protection, Feb 2018 (Version 1.2).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved phasing plan Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority Preparation of an operational monitoring programme as part of the written

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				surface water and managed within the integrated drainage solution to incorporate a storage and attenuation feature within the landscape masterplan				EMS to cover emergency preparedness and response
WR-46	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Ongoing monitoring of groundwater levels will inform detailed drainage design	Operation	Requirement for water level monitoring plans at the specified locations	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved water level monitoring plan and programme pre-construction
WR-47	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Detailed surface water drainage design will comply with the Drainage Strategy (Appendix 20.12, App Doc Ref 4.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to:</p> <ul style="list-style-type: none"> provide a segregated drainage system for the proposed WWTP in areas of potential contamination. a requirement for the design to -include provision for of the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur incorporate incidences of emergent groundwater which would then become surface water and managed within the integrated drainage solution to incorporate a storage and attenuation feature within the landscape masterplan 	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	<p>DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).</p>	<p>Approved phasing plan</p> <p>Approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority prior to the start of construction of the relevant phase according to the approved phasing plan</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-48	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	The impact to Black Ditch flows and abstractions due to drainage, reduction in aquifer recharge within the proposed WWTP and changes in infiltration in the area of the landscape masterplan.	Design measures to avoid or minimise impacts to groundwater / to prevent surface water run-off from the proposed WWTP: <ul style="list-style-type: none"> design of surface water drainage network within the proposed WWTP to include segregated drainage system in areas of potential contamination with the proposed WWTP design of access road drainage to incorporate sustainable drainage features design of the detailed surface water drainage will determine area of permeable surfaces through which infiltration could occur. 	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 3 (Phasing) (App Doc Ref 2.1) DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved phasing plan Approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority prior to the start of construction of the relevant phase according to the approved phasing plan
WR-49	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Measures to minimise contamination through detailed surface water drainage design complying with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2 or whatever guidance is current at the time of design) as well as the specific requirements for the detailed drainage design to determine the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur.	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority prior to the start of construction of the relevant phase according to the approved phasing plan
WR-50	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of water quality at Black Ditch, the northernmost land drain connecting to Black Ditch, the attenuate pond receiving discharge from the drainage network and at available monitoring boreholes within the land required for the landscape masterplan post-construction in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements .	Operation	Outline water quality monitoring plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved monitoring plan and programme prior to the start of operation Review and updated plan after year 2 of monitoring
WR-51	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing	Proposed WWTP	Impact to residential receptors and surface drains which discharge to Black Ditch, due to surface water runoff from hard surfaces within the proposed WWTP	Management of impacts to surface water through application of design measures within the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12) (secured through requirements in the DCO), which sets out design requirements for surface water drainage including measures to avoid or minimise	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12). ES Chapter 2 Project Description Section 5.1 Operation,	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved detailed drainage design prior to the start of construction of the relevant phase according to the approved phasing plan

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary			<p>impacts to surface water run-off from the proposed WWTP:</p> <ul style="list-style-type: none"> Design of access road drainage to incorporate sustainable drainage features Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy 		Operational environmental management (App Doc Ref 5.2.2)		
WR-52	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Management of impacts from leaks and spills in operation through the operational procedures in relation to materials storage controls, spill control measures, and emergency response procedures. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.</p> <p>The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit. Environmental permit secured prior to start of operation
WR-53	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Measures for continuous control of site activities during the operation and maintenance of the proposed WWTP through operational procedures in relation to inspections and repair, asset condition assessment (such as checking the integrity of tanks, bunds and hard standing), materials storage controls, spill control measures, and emergency responses.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Asset Management Plan (App Doc Ref 5.4.9.1)	Environmental Permit (Water Discharge Activities) DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	<p>Approved Asset Management Plan prior to the start of operation</p> <p>Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.</p>
WR-54	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing	Proposed WWTP	Impact of stormwater discharges on River Cam water quality	<p>The management of effluent quality and storm spill impacts through:</p> <ul style="list-style-type: none"> Design of the process technology and storage so that operation of the is within emission limits (stricter consented limits for treated effluent (including nutrients) and greater storm storage than the 	Operation	ES Chapter 2 Project Description Sections 1.8 Waste water treatment overview, and 5.1 Operation, Operational environmental	Environmental Permit (Water Discharge Activities)	<p>Environmental permit in place prior to start of operation</p> <p>Approved management and monitoring plans as</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	mitigation summary			<p>existing Cambridge WWTP) to achieve no deterioration within the River Cam</p> <ul style="list-style-type: none"> • Design of the proposed WWTP that allows for future process changes to accommodate future emission limit changes • Design of storm storage volumes and flow rates to meet regulatory requirements; • Inclusion of capacity within the proposed development to adapt to future changes in relation to storm storage provision • Design of the proposed WWTP that allows for adaption to future changes in relation to storage provision • Design of the proposed WWTP provides improved stormwater management with fewer predicted stormwater and CSO discharge to the River Cam. 		management (App Doc Ref 5.2.2)		part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
WR-55	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.	Operation	ES Chapter 2 Project Description Sections 1.8 Waste water treatment overview, and 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	<p>Environmental permit in place prior to start of operation</p> <p>Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.</p>
WR-56	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP	Impact of spills or leaks migrating in groundwater through the West Melbury Marly Chalk Formation to surface drains connected to the Black Ditch watercourse	<p>Robust design will ensure that all structures are fit for purpose and compliant with the relevant industry specifications and standards.</p> <p>Management of impacts to surface water through application of design measures within the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12) (secured through requirements in the DCO). This includes the requirement for drainage to accord with requirements set out within The Environment Agency's Approach to Groundwater Protection, Feb 2018 (Version 1.2 or whatever guidance is current</p>	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	<p>Phasing plan</p> <p>Implementation of approved detailed design</p> <p>Implementation of approved surface water drainage design in consultation with the Environment Agency and Lead Local Flood Authority</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<p>at the time of design) as well as the specific requirements for the detailed drainage design to avoid or minimise impacts to surface water run-off from the proposed WWTP:</p> <ul style="list-style-type: none"> • Design of access road drainage to incorporate sustainable drainage features • Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy • Detailed drainage design will determine the area of permeable surfaces within the land required for the landscape masterplan, access road and proposed WWTP through which infiltration could occur. 				
WR-57	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		<p>Operation in accordance with environmental permit for the proposed WWTP including implementation of EMS which will include materials storage controls, spill control measures, emergency response procedures. Operational Management Plan will include regular inspection and repair regime of all tanks and areas with potential for hydrocarbon contamination such as bunds around fuel tanks and hardstanding.</p> <p>Measures for continuous control of site activities during the operation and maintenance of the proposed WWTP through operational procedures in relation to inspections and repair, asset condition assessment (such as checking the integrity of tanks, bunds and hard standing), materials storage controls, spill control measures, and emergency responses. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development. Operational procedures will be developed further during the life of the Proposed Development from detailed design to the proposed assets going into full operation, in compliance with the relevant Environmental Permit for the Proposed Development.</p>	Operation	ES Chapter 2 Project Description Sections 1.8 Waste water treatment overview, and 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit (Water Discharge Activities)	Preparation of an operational monitoring programme as part of the written EMS to cover periodic monitoring activities to accord with the requirements of the Environmental Permit (and subsequent variations).

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
WR-58	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Proposed WWTP		Monitoring of water quality at Black Ditch, the northernmost land drain connecting to Black Ditch, the attenuate pond receiving discharge from the drainage network and at available monitoring boreholes within the land required for the landscape masterplan post-construction in order to amend operational management activities in the event water quality decline is attributed to operational surface water drainage arrangements .	Operation	Outline Water Quality Monitoring Plan (App Doc Ref 5.4.20.13)	DCO Schedule 2 Requirement 22 (Operational water quality monitoring plan) (App Doc Ref 2.1) which requires a detailed operational water quality monitoring plan must be submitted to and approved by the relevant planning authority prior to the start of operation. This must accord with the measures set out in the outline water quality monitoring plan (App Doc Ref 5.4.20.13)	Approved monitoring plan and programme prior to the start of operation Review and updated plan after year 2 of monitoring
WR-59	ES Chapter 20: Water Resources (App Doc Ref 5.3.20) Table 5-2 Securing mitigation summary	Waterbeach pipelines	Impact of leakage from Waterbeach pipeline to groundwater quality	Management of excavation and backfill on drainage and groundwater through: <ul style="list-style-type: none"> robust design, construction and pressure testing of the Waterbeach pipeline which will mitigate against pipeline leakage during operation a requirement within the CoCP Part B in relation to a borehole approximately 210 metres from the pipeline, to maintain regular contact with the owner during construction and a requirement to maintain supply to the property if required. These will be outlined in the CEMP. A non-derogation agreement will be entered into with the owners at their request. 	Operation	Sections 7.4 (Land quality), 7.5 (Water resources and flood risk) and 7.9 (Waste management and resource use), 7.11, 7.12 CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3 (Site specific measures) of the CoCP Part B	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed soil management plan which must accord with the measures set out in the outline soil management plan (App Doc Ref 5.4.6.3)	Approved phasing plan Approved CEMP No derogation agreement If required

Major accidents and disasters

Table 2.17: Major accidents and disasters

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MA-01	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	All project extent within safeguarding zone	Event risk – aviation hazards (buildings, solar and lighting installations)	Structures have been minimised to avoid the 55.82m Above Ordnance Datum (AOD) threshold indicated by the operators of Cambridge Airport. The Lighting Design Strategy (App Doc Ref 5.4.2.5) sets out the approach to lighting within the Proposed Development and seeks to minimise the introduction of new lighting features in operation. Measures include avoiding lighting along the access road, the use of timed downward pointing lighting in external carpark areas, the use of structures to reduce light spill.	Construction	Design Parameters of the draft DCO (App Doc Ref 2.1) Section 5 and 6 of the Lighting Design Strategy (App Doc Ref 5.4.2.5)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Approved lighting design prior to the start of construction
MA-02	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Project wide	Event risk – malicious damage or vandalism	Section 5.3, Site compound set up, security and fencing, of the CoCP Part A includes specific requirements in relation to site security and access controls. The main construction compounds are suitably signed and secured to protect against unauthorised entry in accordance with HSE standards. In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6) (emergency procedures are developed in line ISO 14001 criteria and HSE standards). The CoCP Part A (App Doc Ref 5.4.2.1), Section 5.5, Fire prevention and control, requires the Principal Contractor(s) to have in place appropriate plans and management controls to prevent fires (in line with HSE standards).	Construction	Decommissioning Plan (App Doc Ref 7.18) Sections 5.6 (Emergency Procedures and Preparedness Plan) and 5.5 (Fire prevention and control) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Approved CEMP prior to the start of construction inclusive of decommissioning plan
MA-03	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Project wide	Event risk – extreme events (storms and heat events)	Design To manage higher storm flows in the future and to continuously meet evolving permitting requirements, even in the case of low flow and future drought conditions, the Proposed Development will have capacity to add additional infrastructure including more storm storage, heat recovery, cooling system treatment infrastructure. The Drainage Strategy (App Doc Ref 5.4.20.12) sets out how future climate predictions will be accounted for within the final drainage design to minimise the risk of flooding to the proposed WWTP.	Construction	ES Chapter 22 Major Accidents and Disasters Table 2-1 (Design measures relating to major accidents and disasters adopted as part of the Proposed Development) (App Doc Ref 5.2.22). Drainage Strategy (App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Approved CEMP prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
MA-04	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	All project extent within safeguarding zone	Event risk – aviation hazard from presence of cranes, and tall construction equipment	Management of construction activities as described within the CoCP Part A(App Doc Ref 5.4.2.1) in particular section 5.15 (Cambridge Airport) and section 5.12 (Cranes and other temporary tall structures) including: <ul style="list-style-type: none"> the Principal Contractor(s) to notify the operator of Cambridge Airport prior to the erection or use on site of cranes and other tall structures (over 10m). Provide details of temporary lighting. Make any appropriate adjustments or additional safety measures into the CEMP(s) following this engagement. Cranes will to be operated in accordance with the requirements of CAP1096. 	Construction	Section 5.15 (Cambridge Airport) and section 5.12 (Cranes and other temporary tall structures) of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP(App Doc Ref 2.1)	Approved CEMP prior to the start of construction
MA-05	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk of land slip or earth bank failure	The earth bank will be designed and constructed according to industry best practice earthworks standards.	Construction	Design Code (App Doc Ref (7.17)	DCO Schedule 2 Requirement 7 (Detailed Design) (App Doc Ref 2.1)	Detailed design approved prior to start of construction
MA-06	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank		The earth bank would be designed to have effective drainage.	Construction	Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires drainage design to be prepared in accordance with the Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	Detailed drainage design approved prior to start of construction
MA-07	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank		Earth bank is subject to ongoing monitoring as part.	Construction	Section 2 Asset Management Plan (App Doc Ref 5.4.9.1))	DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)	Detailed design approved prior to start of construction
MA-08	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank		In the event that structural failure of the earth bank occurred the Applicant would implement operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. Including enacting emergency response plans.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting 	Environmental Permit secured prior to start of operation Approved management and monitoring plans as part of environmental permitting process

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.			<ul style="list-style-type: none"> commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) 	EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
MA-09	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – aviation hazards (Birdstrikes)	<p>Operation and maintenance activities required for the proposed WWTP would be subject to operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. The Applicant will implement the EMS that will set out the responsibilities of the site management to control risks arising from the proposed WWTP during operations.</p> <p>The EMS will also include appropriate definitions of roles and responsibilities to ensure compliance with any conditions related to the requirement to manage risk from the Proposed Development including wildlife hazards (birdstrike) that may be associated with the proposed WWTP including landscaping.</p>	Operation	<p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2).</p> <p>Wildlife Hazard Management Plan (App Doc Ref 5.4.18)</p>	DCO Schedule 2 Requirement 24 (Operational Wildlife Hazard Management Plan) (App Doc Ref 2.1) which requires the preparation of a detailed operational wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management (App Doc Ref 5.4.8.18)	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
MA-09	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - Earth bank	Event risk of land slip or earth bank failure	<p>In the event that structural failure of the earth bank occurred the Applicant would implement operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. Including enacting emergency response plans.</p> <p>The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input 	<p>Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.</p> <p>Approved AMP prior to start of operation</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<ul style="list-style-type: none"> permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) <p>Environmental Permit (Water Discharge Activities)</p> <p>DCO Schedule 2 Requirement 18 (Operational Asset Management Plan) (App Doc Ref 2.1) which should incorporate the measures within the Asset Management Plan (App Doc Ref 5.4.9.1)</p>	
MA-10	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP – LNG storage area	Event risk- fire or explosion: storage of Liquefied Natural Gas (LNG)	<p>The design and installation of the storage facility would be in line with industry standards. Design features reducing the risk of damage to the LNG storage facility include:</p> <ul style="list-style-type: none"> Siting controls and provision of adequate buffers to other infrastructure The inclusion of lightning protection in accordance with industry standards The inclusion of impact protection barriers around the storage facility The inclusion and use of the correct level of intrinsically safe equipment and protective systems would minimise the available ignition sources in a flammable atmosphere if there were to be a loss of LNG in the Proposed Development and reduce the risk of a major accident 	Operation	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22).</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1).</p>	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) <p>Environmental Permit (Water Discharge Activities)</p>	Environmental Permit secured prior to start of operation
MA-11	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP – Digesters	Event risk- fire or explosion: anaerobic digester	<p>The design of the anaerobic digestors includes measures to manage the risk of a major accident and will be compliant with DSEAR.</p> <p>Specific design measures in relation to fire safety include:</p> <ul style="list-style-type: none"> Gas and fire and leak detection systems to be installed into boiler house. Inclusion of valves to allow controlled emergency release of gas. 	Operation	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22).</p>	<p>A consolidated Environmental Permit comprising:</p> <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes 	<p>Environmental Permit secured prior to start of operation</p> <p>Detailed design approved prior to the start of construction of the relevant phase</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				<ul style="list-style-type: none"> Inclusion of emergency flare in design 		Design Parameters of the draft DCO (App Doc Ref 2.1)	<ul style="list-style-type: none"> a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) <p>Environmental Permit (Water Discharge Activities)</p> <p>Compliance to DSEAR regulations</p>	
MA-12	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		Area Classification will be completed for Hazardous Area Classification for Flammable Gases and Vapours in accordance with industry standards to comply DSEAR. Area classification is a method of analysing and classifying the environment where explosive gas atmospheres may occur. The main purpose is to facilitate the proper selection and installation of apparatus to be used safely in that environment, taking into account the properties of the flammable materials that will be present. Outputs will be used to define hazard zones within the facility and subsequently define the types of equipment permitted in specific zones as well as informing the development of operational control plans.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	<ul style="list-style-type: none"> As above 	Environmental Permit secured prior to start of operation Detailed design approved prior to the start of construction
MA-13	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP - STC		The biogas holder is to be shielded from areas of frequent access of the general public by the earth bank. The gas holder is located over 300m from the A14 and approximately 800m from the nearest public dwelling.	Operation	Design Plans - Proposed Waste Water Treatment Plant (App Doc Ref 4.9)	<ul style="list-style-type: none"> As above 	Detailed design approved prior to the start of construction
MA-14	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		To mitigation against an on-site incident, under the EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident. The management system is required to include the risk management measures specified in the HAZOP and DSEAR plans and cover planned maintenance (Environment Agency, 2022). The written management system specific to the facility would be used in support of environmental	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.				
MA-15	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk- fire or explosion: battery storage	A cooling system which is designed to regulate temperatures within safe conditions to minimize risk of fire. The Proposed Development will have a monitoring system, fire and smoke detection. These will be linked to the site wide control system, which will be locally and remotely monitored.	Operation	ES Chapter 2 Section 2.10 Renewables infrastructure para 2.10.5 (App Doc REF 5.2.2) ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22). Design Parameters of the draft DCO (App Doc Ref 2.1)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) Environmental Permit (Water Discharge Activities)	Detailed design approved prior to the start of construction
MA-16	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		The EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Environmental Permits secured prior to start of operation
MA-17	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		The drainage system includes a segregated system which would capture run-off from firefighting activities for treatment within the proposed WWTP. The Drainage Strategy (App Doc Ref 5.4.20.12) requires that the requirements of the Environment Agency Approach to Groundwater Protection (Environment Agency, 2018) are to be followed in relation to the detailed drainage design. Section 4.8 of the Drainage Strategy (App Doc Ref 5.4.20.12) sets out how the drainage design will align with the Approach to Groundwater Protection.	Construction	Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires that the detailed surface water drainage design will comply with the Drainage Strategy (Application Document Reference 5.4.20.12).	Detailed drainage design approved prior to start of construction
MA-18	ES Chapter 21: Major Accidents and Disasters	Proposed WWTP	Event risk – Compromised site security	Design measures include the earth bank as well as perimeter fencing, the use of surveillance equipment to monitor the facility, security-controlled access, and egress points.	Construction	ES Chapter 2 Project Description section, 2.13 Further associated	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational	Detailed design approved prior to start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
	(App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary			Physical security design measures following NSPA guidance (NSPA, 2023) will be incorporated to ensuring the site is secure from unauthorized personnel.		development and site-wide provisions, Fencing and security (App Doc Ref 5.2.2) ES Chapter 22 Major Accidents and Disasters, Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22)	lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	
MA-19	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		To mitigation against an on-site incident, under the EMS and operation procedures development for the proposed WWTP, the operator will prepare and test emergency procedures for dealing with the consequences of a major accident including those resulting from malicious attacks. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit. Visitors to the Discovery Centre will be by appointment only.	Construction	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)	Detailed design approved prior to start of construction Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for noise control, waste management, spill response, and emergency response in place prior to start of operation.
MA-20	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		Prevention of unauthorized users and devices from accessing the network will be through the use software security design measures as stated in the NCSC guidance (NCSC, 2023).	Construction	ES Chapter 2 Project Description section 2.13 Further associated development and site-wide provisions, Fencing and security (App Doc Ref 5.2.2)	<ul style="list-style-type: none"> As above 	Detailed design approved prior to start of construction
MA-21	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP		In the event that a cyber attack was successful the operator would implement operational management plans and procedures. The management plans and procedures will sit within the EMS required under the environmental permitting regime. Including enacting emergency response and pollution incident response plans. The written management system specific to the facility would be used in support of environmental permit applications and once operation commences the operator must implement the management system or they will be in breach of the permit.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	A consolidated Environmental Permit comprising: <ul style="list-style-type: none"> an Industrial Emission Directive (IED) Permit to operate the integrated STC a waste activity permit in relation to accepting commercial liquid waste from industrial processes 	Approved management and monitoring plans as part of environmental permitting process EMS including operational procedures such as for pollution incident response and emergency response in place prior to start of operation.

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
							<ul style="list-style-type: none"> a Medium Combustion Plant Directive (MCPD) permit as the combustion plant is of 1.2MW capacity and exceeds 1MW thermal input permitted activity to operate biomethane plant and to supply biomethane to the National Grid (if this option is taken forward) Environmental Permit (Water Discharge Activities)	
MA-22	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – extreme events (storms and heat events)	<p>To manage higher storm flows in the future and to continuously meet evolving permitting requirements, even in the case of low flow and future drought conditions, the Proposed Development will have capacity to add additional infrastructure including more storm storage, heat recovery, cooling system treatment infrastructure.</p> <p>The Drainage Strategy (App Doc Ref 5.4.20.12) sets out how future climate predictions will be accounted for within the final drainage design to minimise the risk of flooding to the proposed WWTP.</p>	Construction	<p>ES Chapter 22 Major Accidents and Disasters Table 2-1 Design measures relating to major accidents and disasters adopted as part of the Proposed Development (App Doc Ref 5.2.22).</p> <p>Drainage Strategy (App Doc Ref 5.4.20.12).</p>	<p>Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1)</p> <p>DCO Schedule 2 Requirement 15 (Drainage) (App Doc Ref 2.1) which requires that the detailed surface water drainage design will comply with the Drainage Strategy (Application Document Reference 5.4.20.12).</p>	Detailed drainage design approved prior to start of construction
MA-23	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Proposed WWTP	Event risk – aviation hazards (buildings, solar and lighting installations)	<p>Structures have been minimised to avoid the 55.82m Above Ordnance Datum (AOD) threshold indicated by the operators of Cambridge Airport.</p> <p>The Lighting Design Strategy (App Doc Ref 5.4.2.5) sets out the approach to lighting within the Proposed Development and seeks to minimise the introduction of new lighting features in operation. Measures include avoiding lighting along the access road, the use of timed downward pointing lighting in external carpark areas, the use of structures to reduce light spill.</p>	Construction	<p>Design Parameters of the draft DCO (App Doc Ref 2.1)</p> <p>Lighting design strategy (App Doc Ref 5.4.2.5).</p>	Schedule 2 Requirement 7 (Detailed design) (App Doc Ref 2.1) which requires the approval details submitted in relation to operational lighting must accord with the details set out in the lighting design strategy (App Doc Ref 5.4.2.5).	Detailed lighting design approved prior to start of construction
MA-24	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Decommissioning activities within the existing Cambridge WWTP	Event risk - fire and explosion decommissioning digestors	<p>Decommissioning works will be carried out by specialist contractors managed under measures within the Dangerous Substances and Explosive Atmosphere (DSEAR). Decommissioning would be subject to a Decommissioning Plan which is to be agreed with the Local Planning Authority.</p> <p>In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6)</p>	Construction (Decommissioning)	<p>Outlie Decommissioning Plan (App Doc Ref 7.18)</p> <p>Part A of the CoCP (App Doc Ref 5.4.2.1) Section 5.6 and Section 5.5, Fire prevention and control</p>	<p>DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.</p>	<p>Detailed Decommissioning plan approved prior to start of construction (decommissioning)</p> <p>CEMP approved prior to start of decommissioning works</p>

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
				(emergency procedures are developed in line ISO 14001 criteria and HSE standards). The CoCP Part A (App Doc Ref 5.4.2.1), Section 5.5, Fire prevention and control, requires the Principal Contractor(s) to have in place appropriate plans and management controls to prevent fires (in line with HSE standards).				
MA-25	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Decommissioning activities within the existing Cambridge WWTP	Event risk - major leaks (airborne substances)	Decommissioning works will be carried out by specialist contractors managed under measures within the Dangerous Substances and Explosive Atmosphere (DSEAR). Decommissioning would be subject to a Decommissioning Plan which is to be agreed with the Local Planning Authority. In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6) (emergency procedures are developed in line ISO 14001 criteria and HSE standards).	Construction (Decommissioning)	Outline Decommissioning Plan (App Doc Ref 7.18) Part A of the CoCP (App Doc Ref 5.4.2.1) Section 5.6 and Section 5.5, Fire prevention and control	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Detailed Decommissioning plan approved prior to start of construction (decommissioning) CEMP approved prior to start of decommissioning works
MA-26	ES Chapter 21: Major Accidents and Disasters (App Doc Ref 5.3.21) Table 5-2 Securing mitigation summary	Project wide	Event risk – malicious damage or vandalism	Section 5.3, Site compound set up, security and fencing, of the CoCP Part A includes specific requirements in relation to site security and access controls. the main construction compounds are suitably signed and secured to protect against unauthorised entry in accordance with HSE standards. In the event of an incident occurring as a result of malicious damage or vandalism the Principal Contractor(s) would enact Emergency Response Plans required by Part A of the CoCP (section 5.6) (emergency procedures are developed in line ISO 14001 criteria and HSE standards). The CoCP Part A (App Doc Ref 5.4.2.1), Section 5.5, Fire prevention and control, requires the Principal Contractor(s) to have in place appropriate plans and management controls to prevent fires (in line with HSE standards).	Construction (Decommissioning)	Outline Decommissioning Plan (App Doc Ref 7.18) Section 5.6 and Section 5.5, Fire prevention and control of the CoCP Part A (App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 (CoCP) and Requirement 9 (CEMP) (App Doc Ref 2.1) which requires the inclusion of a detailed decommissioning plan which must accord with the outline decommissioning plan (App Doc Ref 5.4.2.3) and which must include a timescale for completion of the decommissioning.	Detailed Decommissioning plan approved prior to start of construction (decommissioning) CEMP approved prior to start of decommissioning works

Cumulative effects

Table 2.18: Cumulative effects

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
CE-01	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Cumulative effect to habitats and protected species as a result of construction of the Proposed Development and relocation of the Waterbeach station	CEMP to be prepared to coordinate with adjacent project such as Waterbeach station relocation to ensure each project is managed so that neither project results in new or exacerbated impacts to habitats and that mitigation measures (habitat creation) remain effective	Construction	ES Chapter 22 Table 4-2 and Table 4-3 (App Doc Ref 5.2.22) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	DCO Schedule 2 Requirement 9 (CEMP) which requires the preparation of a CEMP for each phase. Each plan submitted for approval must incorporate the measures specified in the CoCP as being contained within a CEMP in so far as they are relevant to the works proposed within the Phase. Alignment to the CoCP secured by Requirement 8 (CoCP) (App Doc Ref 2.1)	Approved CEMP prior to the start of construction
CE-02	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Cumulative effect on landscape and visual amenity, including lighting, as a result of construction of the Proposed Development and relocation of the Waterbeach station occurring concurrently	CEMP to be prepared to coordinate with adjacent projects to ensure that temporary construction works activities including compounds in close proximity do not result in new or worse temporary impacts to visual amenity including controls on lighting and the positioning / heights of temporary structures.	Construction	ES Chapter 22 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	<ul style="list-style-type: none"> As above 	Approved CEMP prior to the start of construction
CE-03	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Cumulative traffic effects as a result of construction of the Proposed Development and relocation of the Waterbeach station occurring either concurrently or sequentially	CEMP and associated CTMP to be prepared to coordinate with nearby developments such as the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated traffic and transport impacts and that mitigation measures remain effective and to align traffic control measures	Construction	ES Chapter 22 Table 4-2 and Table 4-3 (App Doc Ref 5.2.22) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	<ul style="list-style-type: none"> As above 	Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
CE-04	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Flood risk	CEMP to be prepared to coordinate with adjacent projects so that there and the Station relocation project to ensure temporary works areas, including compounds, do not result in an overall increase in flood risk	Construction	ES Chapter 22 Table 4-2 and Table 4-3 (App Doc Ref 5.2.22) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	<ul style="list-style-type: none"> As above 	Approved CEMP prior to the start of construction
CE-05	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Extent of Proposed Development intersecting with Waterbeach station	Impacts on nationally and locally designated sites / habitats / protected species	CEMP to be prepared to coordinate with adjacent projects such as the Station relocation project to ensure that under the late start Waterbeach scenario there would be no disturbance to any areas used for species relocation by the station	Construction	ES Chapter 22 Table 4-2 and Table 4-3 (App Doc Ref 5.2.22) Section 7.2 of the CoCP Part A (App Doc Ref 5.4.4.1)	<ul style="list-style-type: none"> As above 	Approved CEMP, inclusion of reptile mitigation strategy approved prior to the start of construction

Ref	Source	Measure applied to (part of the Proposed Development)	Description of impact	Mitigation measure	Phase	Reference document	Secured by	Trigger for the discharge of any related requirement
						Section 3.4 of the CoCP Part B (App Doc Ref 5.4.4.2)		
CE-06	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Existing Cambridge WWTP	Cumulative traffic effects as a result of construction of the Proposed Development and developments adjacent to the existing Cambridge WWTP occurring either concurrently or sequentially	CEMP and associated CTMP to be prepared to coordinate with nearby developments such as the Waterbeach Station relocation project to ensure each project is managed so that neither project results in new or exacerbated traffic and transport impacts and that mitigation measures remain effective and to align traffic control measures	Construction	ES Chapter 22 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2) Section 3.4 CoCP Part B (App Doc Ref 5.4.4.2)	<ul style="list-style-type: none"> As above 	Approved CEMP prior to the start of construction Approved CTMP prior to the start of construction
CE-07	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Proposed WWTP – landscape masterplan	Cumulative effect from recreational users from future developments accessing the wider area through new public right of way as part of the Proposed Development	<ul style="list-style-type: none"> As for CO-14 	Operation	Section 5 within LERMP (Application Document Reference 5.4.8.14)	Schedule 2 Requirement 11 (LERMP) (App Doc Ref 2.1) which requires the approval and implementation of a detailed management and monitoring plan secured to comply with LERMP (Application Document Reference 5.4.8.14)	Approved LERMP prior to the start of construction Approved detailed management and monitoring plan prior to the start of operation
CE-08	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	Proposed WWTP		<ul style="list-style-type: none"> Landscape masterplan provides alternative recreational area closer to developments forming part of Cambridge East Area Design does not include parking provision and therefore would not promote intensification of use in particular for users accessing the area from further afield 	Operation	Section 3 within LERMP (Application Document Reference 5.4.8.14)	<ul style="list-style-type: none"> As above 	Approved LERMP prior to the start of construction Approved detailed management and monitoring plan prior to the start of operation
CE-09	ES Chapter 22: Cumulative Effects Assessment (App Doc Ref 5.3.22)	NA		Contribution to fund Combined Recreational Group (CRG) set up to complete wider area studies on recreational users and initiate strategic management activities to avoid impacts from increases in recreational users arising from successive future development. Applicant to also participate in CRG and provide financial contribution towards administration of the group and towards strategic studies used to inform ongoing management and monitoring activities	Pre construction - Operation	ES Chapter 22 Table 5-1 (App Doc Ref 5.2.21)	s106	

Get in touch

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You can view all our DCO application documents and updates on the application on The Planning Inspectorate website:

<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambridge-waste-water-treatment-plant-relocation/>