

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

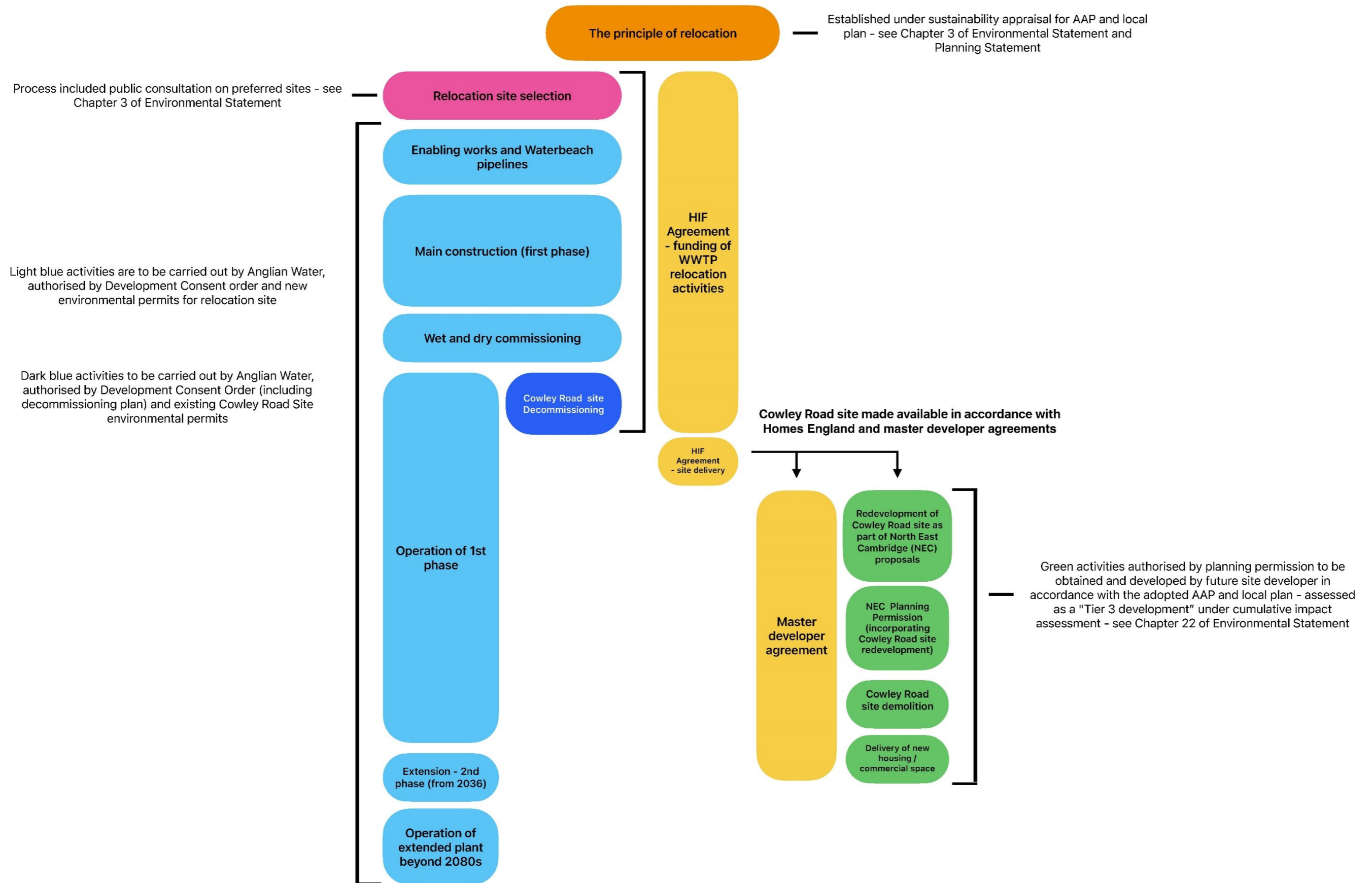


Figure 1.1: Scope of the draft DCO and the future demolition and redevelopment of the site at Cowley Road

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

- 2.1.1 The purpose of the Mitigation Tracker is to set out the mitigation measures presented in the Environmental Statement (Volume 5) for the Proposed Development.
- 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 which is provided in Table 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
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.

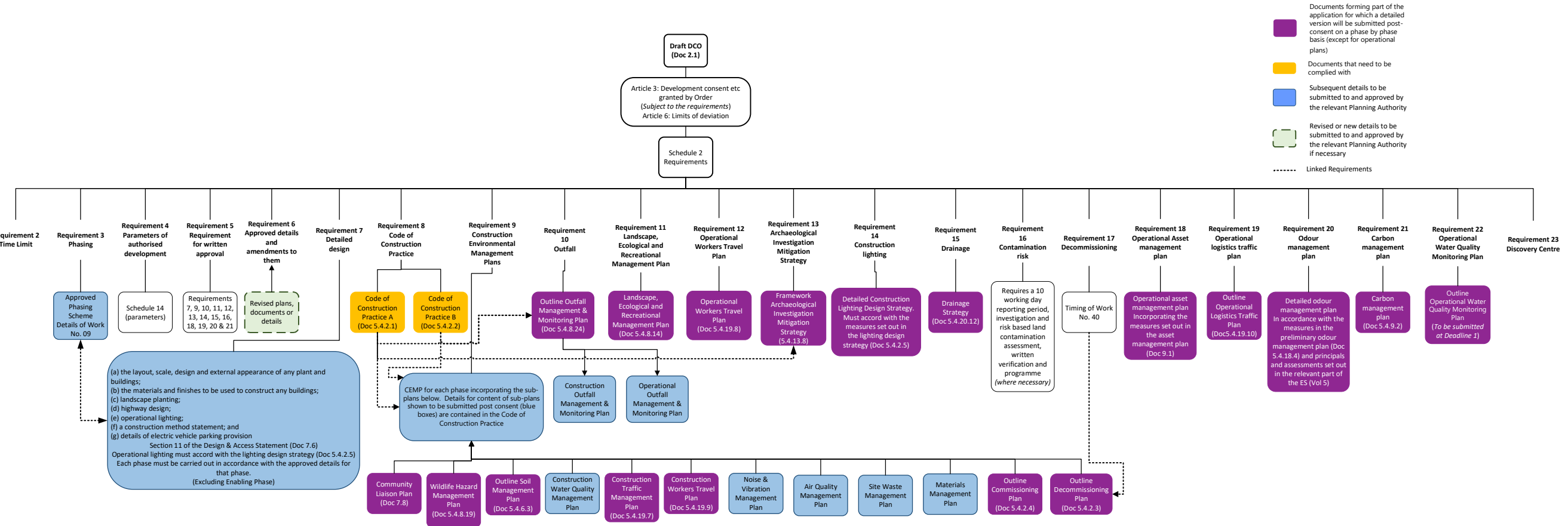


Figure 2.1: Mitigation architecture

Table 2-2: Mitigation tracker

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
AS-1	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Temporary reduction in the quality of soil resources during the construction of the proposed development due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills.	<p>Code of Construction Practice</p> <p>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 (CEMP)</p> <p>Where possible land drains will be avoided</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4. 5.14, Watercourses/drainage channels, 7.4, Land quality – soil management, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2 Requirement 9 CEMP - a detailed soil management plan which must accord with the measures set out in the outline soil management plan</p>
AS-2	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Temporary reduction in the quality of soil resources during the construction of the proposed development due to soil compaction, poor soil storage, run-off, water logging and contamination from leaks and spills.	<p>Code of Construction Practice</p> <p>Manged through the soil quality and management mitigation measures which include, but are not limited to the following:</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 <p>Outline SMP</p> <p>Th detailed SMP will include provision for management and monitoring for a period of at least 5 years following construction .</p>	Construction	<p>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)</p> <p>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2 Requirement 9 CEMP - – a detailed soil management plan which must accord with the measures set out in the outline soil management plan</p>
AS-3	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Reduction in the quality of soil resources as a result of the construction of the proposed WWTP due to soil compaction, run-off, water logging and contamination from leaks and spills	<p>Code of Construction Practice</p> <p>Section 4.4. - 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 (CEMP)</p> <ul style="list-style-type: none"> • Section 5.14 where possible land drains will be avoided (Section 5.14 of CoCP Part A). <p>Code of Construction Practice & Outline SMP</p> <p>Section 7.4 manged through the soil quality and management mitigation measures which include, but are not limited to the following:</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4. 5.14, Watercourses/drainage channels, 7.4, Land quality – soil management, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>Requirement 9 CEMP – a detailed soil management plan which must accord with the measures set out in the outline soil management plan</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<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 <p>Outline SMP</p> <p>The detailed SMP will include provision for management and monitoring for a period of at least 5 years following construction .</p> <p>The detailed plan will include provision for management and monitoring for a period of at least 5 years following construction for areas not covered by the LERMP (Appendix 8.14, App Doc 5.4.8.14)</p>			
AS-4	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	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	<p>Code of Construction Practice</p> <p>Provision / reinstatement of land drainage through implementation of Section 5.14 of the CoCP Part A (Watercourses/drainage channels,).</p>	Construction	Section 5.14, Watercourses/drainage channels, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP
AS-5	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	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 to temporary change to use of soils during construction of the final effluent pipeline and the waste water transfer tunnel	<p>Code of Construction Practice</p> <p>Provision / reinstatement of land drainage through implementation of Section 5.14 of the CoCP Part A (Watercourses/drainage channels,).</p>	Construction	Section 5.14, Watercourses/drainage channels, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
AS-6	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Permanent loss of BMV land due to land required for the proposed WWTP, the access road and landscaping proposals set out within the landscape masterplan.	<p>Code of Construction Practice & Outline SMP</p> <p>Application of appropriate soil handling practices through implementation of the outline SMP and requirement within Section 4.4 of the CoCP Part A (Construction Environment Management Plan (CEMP)) to prepare a SMP.</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., and 7.4 , Land quality – soil management Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2 Requirement 9 CEMP - – a detailed soil management plan which must accord with the measures set out in the outline soil management plan</p>
AS-7	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Temporary loss of access to and use of agricultural land during construction of the Waterbeach pipeline.	<p>Design</p> <p>Defined accesses to Waterbeach works areas</p> <p>Creation of temporary haul route section parallel to Hatridges' Lane to allow farming activities to continue.</p> <p>Code of Construction Practice & CTMP</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>	Construction	<p>Table 2-14 ES Chapter 6 Agricultural Land and Soils (App Doc Ref 5.2.6)</p> <p>Table 4-1 and Sections Section 5.2 (Temporary access points and construction road signage), and 6.3 (Adherence to Designated Routes) in Construction Traffic Management Plan (CTMP) (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Section 4.4 (CEMP) Para 4.4.4. and 7.6 (Traffic and transport) Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>Requirement 4 – Parameters – Schedule 7 access to works</p> <p>DCO Schedule 2, Requirement – 7 Detailed design</p> <p>DCO Schedule 2, Requirement 9 CEMP to include detailed CTMP which must accord with the construction traffic management plan</p>
AS-8	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Temporary loss of access to and use of agricultural land during construction of the Waterbeach pipeline.	<p>Code of Construction Practice & Outline SMP</p> <p>Return land temporarily required during construction to previous use through reinstatement to original land use after construction in line with landowner/tenant requirements as required by section 7.4 of the CoCP Part A and through application of a SMP based on the outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3).</p>	Construction	<p>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)</p> <p>Section 7.4, Land quality – soil management, Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
AS-9	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6)	Temporary loss of agricultural land from waste water transfer tunnel and treated effluent pipelines,	<p>Code of Construction Practice & Outline SMP</p> <p>Return land temporarily required during construction to previous use through reinstatement to original land use after construction in line with</p>	Construction	<p>Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2 - Securing Mitigation	the outfall and habitat creation.	landowner/tenant requirements as required by section 7.4 of the CoCP Part A and through application of a SMP based on the outline SMP		(Appendix 2.1, App Doc Ref 5.4.2.1) Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	
AS-10	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	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.	<p>Construction Traffic Management Plan</p> <p>To reduce impacts on 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 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 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 6.3 Adherence to Designated Routes 	Construction	Section 5.2 (Temporary access points and construction road signage) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 to include detailed CTMP, CEMP to include detailed CTMP
AS-12	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	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	<p>Code of Construction Practice</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 (Application Doc Ref: 5.4.2.1) Part A (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 temporary changes to access</p>	Construction	Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP) Para 4.4.4., and Section 7.6 (Traffic and Transport) Code of Construction Practice (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)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP to include detailed CLP, detailed CTMP
AS-13	ES Chapter 06: Agriculture and Soils (App Doc Ref 5.3.6) Table 5.2 - Securing Mitigation	Temporary requirement of land from farm businesses for construction of the Waterbeach pipeline results in temporary disturbance from construction traffic and short-term land severance.	<p>Construction Traffic Management Plan</p> <p>To reduce impacts on 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 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 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	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) Sections 5.2 (Temporary Access Points) and 6.3 (Adherence to Designated Routes), Construction, Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP to include detailed CLP, detailed CTMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes <p>Code of Construction Practice</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 (Community & Stakeholder Engagement) of the CoCP Part A (Application Doc Ref: 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 temporary changes to access.</p>			
AQ-1	ES Chapter 07: Air Quality (App Doc Ref 5.2.7), Table 5.2 - Securing Mitigation	Short term emissions from construction traffic using the public highway results in short term reduction in local air quality	<p>Construction Traffic Management Plan</p> <p>Management of construction vehicle movements described within the CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) to minimise the impacts from vehicle movements in particular:</p> <ul style="list-style-type: none"> Section 6.3 Adherence to Designated Routes; Section 6.9 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 within an article in the DCO. <p>Travel Plan</p> <p>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.</p>	Construction	<p>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)</p> <p>Sections 6.3, Adherence to Designated Routes, Construction and 6.9 Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Outline Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP to include detailed CLP, detailed CTMP Requirement 9 (2)(b)(i) – CEMP to include detailed CLP</p> <p>Requirement 12 Operational Worker Travel Plan which must accord to measures in the outline travel plan</p>
AQ-2	ES Chapter 7: Air Quality (App Doc Ref 5.2.7), Table 5.2 - Securing Mitigation	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1) to minimise dust in particular:</p> <ul style="list-style-type: none"> Section 4.4 which requires the Principal Contractor(s) to produce an Air Quality/Dust Management Plan(s) before works commence on site. The Plan will be appended to or incorporated into the CEMP(s). The Plan will be appended to or incorporated into the CEMP(s); and Section 7.8. (Air Quality) 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; 	Construction	<p>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)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP to include detailed CLP, detailed CTMP, detailed AQMP</p> <p>DCO Schedule 2, Requirement 9 CEMP to include detailed CTMP which must accord with the construction traffic management plan</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> – 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; and – sealing of stockpiles by means of back blading the stockpile to help reduce dust and to not promote areas for wildlife habitat. 			
AQ-3	ES Chapter 7: Air Quality (App Doc Ref 5.2.7), Table 5.2 - Securing Mitigation	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Code of Construction Practice</p> <p>Section 3.2 of 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.</p> <p>Section 3.4 requires the following mitigation measures will be implemented:</p> <ul style="list-style-type: none"> ● Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary; ● Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked; and ● Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions. 	Construction	<p>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)</p> <p>Section 3.2 & 3.4, Transfer Tunnel CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 - CEMP to include detailed AQMP</p> <p>Requirement 9 – CEMP to include detailed AQMP</p>
AQ-4	ES Chapter 7: Air Quality (App Doc Ref 5.2.7), Table 5.2 – Securing Mitigation	Temporary instances of dust creation from construction activities (such as land clearance, earthworks, materials handling) leading to impacts from construction dust	<p>Code of Construction Practice</p> <p>Section 3.4 of Part B requires following mitigation measures to be implemented:</p> <ul style="list-style-type: none"> ● Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary; ● Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked; and 	Construction	<p>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)</p> <p>Section 3.2 & 3.4, Transfer Tunnel CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2),</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 - CEMP to include detailed AQMP</p> <p>Requirement 9 CEMP to include detailed AQMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions. 			
AQ-5	ES Chapter 07: Air Quality (App Doc Ref 5.2.7), Table 5.2 - Securing Mitigation	Operation of energy plant requiring continuous emissions of nitrogen oxides to air resulting in reduced local air quality	<p>Energy Plant Design</p> <p>Energy plant will have suitable exhaust stack height and operate in accordance with the relevant MCPD emission limit values for energy plants which will be specified within a site-specific Environmental Permit.</p>	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, Table 2-19 Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 - Requirement 4 – Parameters The Environmental Permit will include medium combustion plant directive emission limits and conditions for monitoring and reporting.
B-1	ES Chapter 8: Biodiversity, Table 5.2 - Securing Mitigation	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>LERMP – landscape masterplan features</p> <p>Direct benefit through the habitat provisions and within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14), in particular:</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); and implementation of appropriate management measures to meet the BNG commitment which will enable replacement habitat if initial planting is not successful. 	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 – LERMP
B-2	ES Chapter 8: Biodiversity, Table 5.2 - Securing Mitigation	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	<p>LERMP long term management – detailed plan preparation</p> <p>The beneficial impact associated with the landscape masterplan will be delivered during operation through the long- term implementation 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). This plan will be based on the LERMP and will be agreed with key stakeholders.</p>	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 – LERMP
B-2	ES Chapter 8: Biodiversity, Table 5.2 - Securing Mitigation	Whilst decommissioning accidental leaks and spills during the draining and cleaning of existing tanks and or works to stop up the existing outfall could result in short term temporary impact to surface water including the river Cam	<p>Code of Construction Practice</p> <p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1 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.</p> <p>The plans will be appended to or incorporated into the CEMP(s).</p> <p>Section 5.7 specifies the content of Pollution Incident Control Plan:</p> <ul style="list-style-type: none"> plan will detail procedures to deal with any pollution incident that may occur, including notification procedures including as relevant notification of the Applicant and where applicable local authorities, along with response procedures (including 	Decommissioning	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A which requires a Water Quality Management Plan (WQMP), Pollution Incident Control Plan (PICP) and Decommissioning Plan (Appendix 2.1, App Doc Ref 5.4.2.1)	Requirement – 8 CoCP DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 - CEMP to include detailed WQMP, and detailed PICP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>appropriate materials, equipment and resources, timescales and to minimise the effects.</p> <ul style="list-style-type: none"> plan will complement and be consistent with the Emergency Preparedness Plan(s). <p>Section 7.5 includes measures to minimise run-off and the risk of runoff reaching ditches and watercourses.</p> <p>Outline Decommissioning Plan</p> <p>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</p>			
B-3	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Whilst decommissioning accidental leaks and spills during the draining and cleaning of existing tanks could result in short term temporary impact to surface water including the river Cam	<p>Code of Construction Practice</p> <p>Management of decommissioning activities as described within the CoCP Part A (Appendix 2.1 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.</p> <p>The plans will be appended to or incorporated into the CEMP(s).</p> <p>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 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).</p> <p>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 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 (used for decommissioning) to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained. 	Decommissioning	Sections 4.4 (CEMP) Para 4.4.4.and 5.7 (Pollution Incident Control Plan), Code of Construction Practice (CoCP) Part A which requires a Water Quality Management Plan (WQMP), Pollution Incident Control Plan (PICP) and Decommissioning Plan (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2, Requirement 9 - CEMP to include detailed PICP, CEMP to include detailed decommissioning plan
B-4	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Potential for accidental leaks and spills during the draining and cleaning of existing tanks and or works	<p>Code of Construction Practice & Decommissioning Management Plan</p> <p>Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.5, App Doc Ref 5.4.2.5) and the CoCP Part A, Section 4.4 (Construction</p>	Construction (decommissioning of the existing Cambridge	Section 4.4 (CEMP) Para 4.4.4., Code of Construction Practice (CoCP) Part A which requires a Decommissioning	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9 (b) (xiv) -

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		to stop the existing outfall which could result in short term temporary impact to surface water including the river Cam	Environment Management Plan), 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.	WWTP to surrender permit)	Plan (Appendix 2.1, App Doc Ref 5.4.2.1) Decommissioning Management Plan (App Doc Ref 5.4.2.3).	CEMP to include detailed decommissioning plan
B-5	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	<p>Design measures – fish mitigation</p> <p>Design measures to prevent or minimise impacts to fish are:</p> <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 2 (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13) ES Chapter 8, Table 2.10 (App Doc Ref 5.2.2)	DCO Schedule 2, Requirement 7 - Detailed design
B-6	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	<p>Outfall Management and Monitoring Plan</p> <p>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.</p>	Operation	ES Chapter 8 section 2.9 Mitigation measures adopted as part of the Proposed Development (App Doc Ref 5.2.8) Outline outfall management and monitoring plan (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 10 - Outfall Monitoring and Management Plan which must accord with the outline Outfall management and monitoring plan
B-7	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	indirect impact on fish (water quality) from operational of the outfall due to scour from higher flow events and from operational improvements so that effluent quality is improved	<p>Storm Management Design</p> <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	ES Chapter 8, Table 2.10 (App Doc Ref 5.2.28) App Doc Ref 4.13 Design Plans - Outfall	DCO Schedule 2, Requirement 7 - Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-8	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Measures in draft licence</p> <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 Appendix 8.21, 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; <p>securing of areas to prevent access by badger.</p>		Draft Natural England Mitigation Licence (App Doc Ref 5.4.8.21)	DCO Schedule 2 Requirement – 8 CoCP Natural England Mitigation Licence
B-9	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <p>In addition to licence requirement the management of construction activities as described within the CoCP Part A and B (Appendix 2.1m App Doc Ref 5.4.2.1) in section 4.4 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 <p>securing of areas to prevent access by badger</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 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>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p> <p>Section 3.3, Waterbeach pipeline CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9- CEMP
B-10	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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>Lighting Strategy</p> <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	<p>Sections 4.4 (CEMP) Para 4.4.4., 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>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p>	DCO Schedule 2 Requirement 14 – Construction lighting
B-11	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on bats (lighting and habitat related) due to the combination of temporary construction noise, use of temporary lighting, land	<p>Measures in Draft Licence (Bats)</p> <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 which requires the following:</p> <ul style="list-style-type: none"> the use of wildlife sensitive lighting design as outlined in the draft Licence (Appendix 8.20, App Doc Ref 5.4.8.20 such as 	Construction	Draft Natural England Mitigation Licence (App Doc Ref 5.4.8.20)	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9- CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		clearance and presence of people in close proximity	<p><2700K, directional only with no upward orientation or light spill); and</p> <ul style="list-style-type: none"> minimising severance of hedgerows and use of translocation of hedgerows to provide commuting habitat and foraging opportunities 		Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)	DCO Schedule 2 Requirement 14 – Construction lighting
B-12	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <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 and B (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 <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	<p>Sections 4.4 (CEMP) Para 4.4.4., 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>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2 Requirement 14 – Construction lighting</p>
B-13	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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 to known utilised habitats	<p>LERMP – habitats</p> <p>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.</p>	Operation	<p>Figure 3.7 Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)</p> <p>Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	DCO Schedule 2 Requirement 11 - Landscape, ecological and recreational management plan
B-14	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Measures within the draft licence</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); and 		Draft Licence (Appendix 8.20, App Doc Ref 5.4.8.20)	<p>DCO Schedule 2 Requirement – 8 CoCP</p> <p>Natural England Mitigation Licence</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> 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. 			
B-15	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on breeding birds	<p>Code of Construction Practice</p> <p>Best practice measures in section 7.2 to operate in compliance with the 1981 Act:</p> <ul style="list-style-type: none"> pre works check by suitably experienced ecologist; avoidance of nesting bird season as appropriate to species found; and <p>clearance activities completed in accordance with approved methods</p>	Construction	Section 4.4 (CEMP) Para 4.4.4., 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 Requirement 9- CEMP
B-16	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area)	<p>Code of Construction Practice</p> <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 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:</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 complete clearance activities completed in accordance with approved methods <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 increased risk of attracting species of birdstrike concern. 	Construction	<p>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)</p> <p>Outline Wildlife Hazard Management Plan (Appendix 8.18, App Doc Ref 5.4.8.18)</p>	DCO Schedule 2 Requirement – 8 CoCP Requirement 9- CEMP to include a detailed wildlife hazard management plan which must accord with the measures set out in the wildlife hazard management plan
B-17	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on breeding birds (proposed WWTP access road and landscape masterplan area)	<p>Landscape Masterplan</p> <p>Design measures include:</p> <ul style="list-style-type: none"> trees and woodland, scrub, grassland and seasonal ponds within the land required for the landscape masterplan contained with the LERMP 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 and Operation	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

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-18	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on ditch macrophytes	<p>Code of Construction Practice</p> <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 prevent runoff reaching controlled waters – limiting works to within 8 m of any watercourse or waterbody (other than for watercourse crossings, drainage/ecological mitigation works). Greater buffer distances may be required for the protection of protected species; – 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 	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 – 8 CoCP Requirement 9- CEMP DCO Schedule 2 Requirement 10 – OMMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>meeting 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. 			
B-193	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on ditch macrophytes during operation	<p>Outfall Design</p> <p>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>	Operation	<p>ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p> <p>ES Chapter 8, Table 2.10 (App Doc Ref 5.2.28)</p>	DCO Schedule 2, Requirement 7 - Detailed design
B-20	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <p>The best practice measures applied during construction are:</p> <ul style="list-style-type: none"> • 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 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 – where possible completing works between August and October and/ or during low flow conditions to protect potential fish spawning or nursery sites • 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"> – minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and – 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 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River work), 7.2, (Ecology and Nature Conservation), 7.5 (Water resources and flood risk), and 7.7 (Noise and vibration) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>CoCP Part B Section 3.3 (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p> <p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p>	<p>DCO Schedule 2 Requirement – 8 CoCP</p> <p>DCO Schedule 2 Requirement 9- CEMP</p> <p>DCO Schedule 2 Requirement 10 – OMMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>effluent prior to discharge and control of dewatering discharges to prevent scour</p> <p>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>			
B-21	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Lighting Strategy</p> <p>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).</p>	Construction	<p>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)</p> <p>CoCP Part B Section 3.3 (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	<p>DCO Schedule 2 Requirement – 8 CoCP</p> <p>DCO Schedule 2 Requirement 9- CEMP</p> <p>DCO Schedule 2 Requirement 10 – OMMP</p> <p>DCO Schedule 2 Requirement 14 – Construction lighting</p>
B-22	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Commissioning Plan</p> <p>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</p>	Construction	<p>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)</p> <p>Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4).</p>	<p>DCO Schedule 2 Requirement – 8 CoCP</p> <p>DCO Schedule 2 Requirement 9- CEMP a detailed commissioning plan where the relevant phase includes commissioning which must accord with the outline commissioning plan</p>
B-23	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B in particular section 4.4 Part A 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"> • sensitive construction methodologies to include securing of areas to prevent access by otter; • pre works checks for protected species by a suitably qualified ecologist; • implement 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 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 5.13 (River work) 7.2 (Ecology and Nature Conservation), 7.5 (Water resources and flood risk), and 7.7 (Noise and vibration) in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>CoCP Part B Section 3.3 (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement – 8 CoCP</p> <p>DCO Schedule 2 Requirement 9- CEMP</p> <p>DCO Schedule 2 Requirement 10 – OMMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Dangerous Substances and Explosive Atmospheres Regulations 2002.			
B-24	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Lighting Design Strategy</p> <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 (thereby providing a night time safe transit route for otter).</p>	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),	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9- CEMP DCO Schedule 2 Requirement 14 – Construction lighting
B-25	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on reptiles during construction	<p>Code of Construction Practice</p> <p>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 <p>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. <p>the use of staged cuts in a directional manner, as guided by the ECoW or other suitably experienced ecologist identified by the ECoW</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4., 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) Section 3 CoCP Part B ((Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement – 8 CoCP DCO Schedule 2 Requirement 9- CEMP
B-26	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	Direct and indirect impacts on reptiles in operation	<p>Landscape Masterplan - Habitats</p> <p>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 to provide suitable habitat for reptiles.</p>	Operation	Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 – LERMP
B-27	ES Chapter 8: Biodiversity (App Doc	Direct and indirect impacts on river macrophytes	<p>Code of Construction Practice</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4., and 7.2, (Ecology and	DCO Schedule 2 Requirement – 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Ref 5.2.8), Table 5.2 - Securing Mitigation		<p>Best practice measures applied during construction to minimise the risk of runoff reaching controlled waters (ditches and watercourses).</p> <p>Best practice measures applied for management of dewatering including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour.</p> <p>Inclusion of embedded 'Green' engineering features within river bank protection works.</p> <p>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 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 – where possible completing works between August and October and/or during low flow conditions to protect potential fish spawning or nursery sites ● 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"> – minimise the risk of runoff reaching controlled waters (ditches and watercourses) to prevent pollution incidences; and – 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. 		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)	<p>DCO Schedule 2 Requirement 9- CEMP DCO Schedule 2 Requirement 14 – Construction lighting</p> <p>DCO Schedule 2, Requirement 9 - CEMP to include detailed WQMP, a detailed PICP,</p> <p>Conditions set out within a Flood Risk activity permit required for construction activities carried out within 8m of a main river.</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-28	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on Stow-cum-Quy Fen SSSI during construction due to, run-off, water logging and contamination from leaks and spills and air emissions.	<p>Code of Construction Practice</p> <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 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 <p>Application of measures to manage drilling fluid break out as defined within the CoCP Part A section 7.4.</p> <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/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:</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 	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)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 - CEMP to include detailed WQMP, a detailed PICP
B-29	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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,	<p>Landscape Masterplan – Design</p> <p>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.</p>	Operation	Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14) Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management	DCO Schedule 2 Requirement 11 – LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		and presence of people in proximity	The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within “bee bank” bare earth patches.		Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	
B-30	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on water quality within the River Cam CWS 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	Code of Construction Practice 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 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 practice measures including: <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. 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 	Construction	ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2) Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), 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) Section 3.3. COCP Part B (App Doc Ref 5.4.2.2)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 - CEMP to include detailed WQMP, a detailed PICP
B-31	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on water quality within the River Cam CWS 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	Construction Methods 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	Construction	ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2) Outline outfall management and monitoring plan (App Doc Ref 5.4.8.24)	DCO Schedule 2, Requirement 10 - Outfall management and monitoring plan Environmental Permit (Flood Risk Activities) Environmental Permit (Impounding)
B-32	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts to River Cam CWS during construction due to, run-off, water logging and contamination from leaks and spills.	Code of Construction Practice 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 Part A 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 best practice measures requirements 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 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	ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2) Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), 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) Section 3 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2) Outline Outfall Management and	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 - CEMP to include detailed WQMP, a detailed PICP DCO Schedule 2 Requirement 10 Outfall management and monitoring plan Environmental Permit (Flood Risk Activities) Environmental Permit (Impounding)

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> 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 		Monitoring Plan (App Doc Ref 5.4.8.24)	
B-33	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on water vole 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	<p>Measures in Draft Licence (Water Vole) and Code of Construction Practice</p> <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 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) 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	<p>Draft Licence App Doc Ref 5.4.8.22).</p> <p>Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), 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)</p> <p>Section 3 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>Natural England Mitigation Licence</p> <p>DCO Schedule 2 Requirement 11 – LERMP</p>
B-34	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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	<p>Outfall and River Bank Design</p> <p>Inclusion of embedded ‘green’ engineering features within river bank protection works;</p>	Operation	<p>ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p> <p>Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)</p>	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2, Requirement 10- Outfall management and monitoring plan</p>
B-35	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 – Securing Mitigation	Direct and indirect impacts on water vole due to construction of the outfall and chamber, and the combination of noise,	<p>Code of Construction Practice</p> <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 CEMP</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4., 7.2 (Ecology and Nature Conservation), 7.4 (Land quality), and 7.5 (Water resources and flood</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		emissions to air, use of temporary lighting, land clearance presence of people in close proximity to ditches and the river Cam	<p>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"> • 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>Best practice measures as detailed within CoCP parts A and B applied for management of dewatering including treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour.</p> <p>Lighting</p> <p>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).</p>		<p>risk), in Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.1 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)</p>	<p>DCO Schedule 2, Requirement- 10 Outfall management and monitoring plan</p> <p>Environmental Permit (Flood Risk Activities)</p> <p>Environmental Permit (Impounding)</p>
B-36	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts to water vole 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	<p>Measures within draft licence</p> <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. 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) • 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 <p>restricting temporary works to cross ditches to a 6m working width and habitat (ditch) reinstatement.</p>	Pre construction Construction	<p>Natural England Mitigation Licence Appendix 8.22, App Doc Ref 5.4.8.22).</p> <p>Section 4.4 and 7.2, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>Natural England Mitigation Licence</p>
B-37	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts to badger due to direct interface with habitat (including closure of outlier sett), temporary stopping up of setts and the	<p>Measures in Draft Licence (Badger)</p> <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</p>	Construction	<p>Draft Licence (Appendix 8.21, App Doc Ref 5.4.8.21)</p> <p>Section 3.3 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	Natural England Mitigation Licence

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	included Appendix 8.21, App Doc Ref 5.4.8.21) which requires the following: <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. 			
B-38	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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	Code of Construction Practice In addition to licence requirement the 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 section 4.4 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: <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 		Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) in CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 3.3 of the CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP Natural England Mitigation Licence
B-39	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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 diminished population	Measures in Draft Licence (Bats) 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 which requires the following: <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. 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 	Construction	Draft Licence included Appendix 8.20, App Doc Ref 5.4.8.20 Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	Natural England Mitigation Licence
B-40	ES Chapter 8: Biodiversity (App Doc	Direct and indirect impacts to bats due to the	Code of Construction Practice	Construction	Sections 4.4 (CEMP) and 7.2 (Ecology and Nature	DCO Schedule 2, Requirement – 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Ref 5.2.8) , Table 5.2 - Securing Mitigation	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 diminished population	<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 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> <p>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.</p> <p>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>		Conservation) in CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 9 – CEMP
	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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 diminished population	<p>Landscape Masterplan</p> <ul style="list-style-type: none"> 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	<p>Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)</p> <p>Figure 3.7 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)</p>	DCO Schedule 2 Requirement 11 – LERMP
B-41	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Measures in Draft Licence (Bats)</p> <p>Licence included Appendix 8.20, 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. 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 	Construction	Natural England Mitigation Licence	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
B-42	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <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 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> <p>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.</p> <p>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> <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>		<p>Sections 4.4 (CEMP) and 7.2 (Ecology and Nature Conservation) in CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
B-43	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Direct and indirect impacts on breeding birds (final effluent pipeline and transfer tunnel) due to direct interface with habitat and the combination of noise, use of temporary lighting, land clearance, excavation, and presence of people in close proximity	<p>Code of Construction Practice</p> <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 CEMP which will include setting out 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 • complete clearance activities completed in accordance with approved 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)	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
B-44	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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	<p>Landscape Masterplan – Habitats</p> <p>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 (Appendix 8.14App Doc Ref 5.4.8.14).</p> <p>The landscape masterplan includes a topographical and habitat variability to support some invertebrate species (e.g. mining bees) within "bee bank" bare earth patches.</p>	Operation	<p>Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (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>	DCO Schedule 2 Requirement 11 – LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Approval and implementation of a detailed management and monitoring plan secured to comply with LERMP			
B-45	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	<p>Code of Construction Practice</p> <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. 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. 	Construction	<p>Sections 4.4 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>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</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>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2, Requirement 14 – Construction Lighting</p>
B-46	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Accidental leaks or spills during the draining and cleaning of tanks within the existing Cambridge WWTP and stopping up and ceasing use of the existing Cambridge WWTP outfall results in short term temporary impact to water quality in the river Cam	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) to minimise impacts to water and land, in particular:</p> <ul style="list-style-type: none"> Section 4.4 which requires the Principal Contractor(s) to produce a Water Quality Management Plan(s) before works commence on site. The Plan will be appended to or incorporated into the CEMP(s). The Plan will be appended to or incorporated into the CEMP(s). 	Construction	Sections 4.4 Para 4.4.4, and 7.5 (Water Resources and Flood Risk) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 - CEMP to include detailed WQMP, and detailed PICP, and a detailed decommissioning plan where the relevant phase includes decommissioning which</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Section 7.5. (Water Resources and Flood Risk) which requires the following general measures will be put in place to minimise dust including but not limited to: Best practice measures applied for management of leaks and spillages to prevent runoff reaching controlled waters Management of decommissioning activities through application of measures within the outline Decommissioning Plan (Appendix 2.5 App Doc Ref 5.4.2.5) and the CoCP Part A, Section 4.4 (Construction Environment Management Plan) which requires that the contractors to prepare a Decommissioning Plan 		Outline Decommissioning Plan (Appendix 2.5 App Doc Ref 5.4.2.5)	must accord with the outline decommissioning plan.
B-47	v ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Light spill into retained habitats from operation of lighting within the proposed WWTP such as Low Fen Drove Way Grasslands and Hedgerows CWS – once vegetation established	<p>Landscape Masterplan</p> <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	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) Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2, Requirement – 7 Detailed design DCO Schedule 2 Requirement 11 – LERMP
B-48	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	Light spill into retained habitats from operation of lighting within the proposed WWTP such as Low Fen Drove Way Grasslands and Hedgerows CWS – once vegetation established	<p>Lighting Design</p> <p>Use of directional lighting of <2700K and use of maximum height lighting columns of 5m within the proposed WWTP</p>	Operation	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2, Requirement – 7 Detailed design
B-49	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	<p>Lighting Design</p> <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 <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	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2, Requirement – 7 Detailed design
B-50	ES Chapter 8: Biodiversity (App Doc	Loss of river habitats due to construction of the outfall and associated river bank	Outfall and River Bank Design	Operation	ES Chapter 2 Project Description Section 2.12	DCO Schedule 2, Requirement 7 – Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Ref 5.2.8), Table 5.2 - Securing Mitigation	protection works (river bank and river bed)	<p>Design measures to avoid or minimise loss of river habitat within the River Cam are:</p> <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. <p>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).</p>		<p>The Outfall 2 (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p>	Environmental Permit (Flood risk activities)
B-60	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Beneficial impacts to common reptiles and their habitats due to habitat creation within the landscape masterplan and its ongoing management through the LERMP	<p>Landscape Masterplan - Habitats</p> <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 slopes of earth banks suitable for reptiles to use to bask (insolate), and maintenance measures to ensure habitats are sustained 	Operation	<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> <p>Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	DCO Schedule 2 Requirement 11 – LERMP
B-70	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	<p>Design of proposed WWTP</p> <p>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.</p> <p>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.</p>	Operation	Table 2-10 in ES Chapter 8: Biodiversity (App Doc Ref 5.2.8)	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>Environmental permit</p>
B-80	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Operational noise impacts on breeding birds due to operation of the mechanical-electrical	<p>Landscaping Management</p> <p>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</p>	Operation	Table 2-10 in ES Chapter 8: Biodiversity (App Doc Ref 5.2.8)	DCO Schedule 2 Requirement 11 – LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		elements (such as pumps and compressors) of the proposed WWTP and during activities to implement the LERMP				
B90	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <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 ditch habitats are:</p> <ul style="list-style-type: none"> limiting any permanent crossing of ditches to a maximum width of Hedgerow and ditch crossings minimised to 6m; the implementation of measures set out under section 7.2 of the CoCP Part A in respect Riparian and Aquatic Habitats specifically: 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 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 	Construction	<p>Sections 4.4 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>Section 3 CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
B-91	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Landscape Masterplan</p> <p>Design measures to avoid or minimise loss of habitat through 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)</p>	Operation	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
	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Outfall Design</p> <p>Designing outfall and chamber to allow reinstatement of ditch parallel to River Cam to same profile</p>	Operation	<p>ES Chapter 2: Project Description Para 2.12.4 (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13)</p> <p>BNG Report (Appendix 8.13 App Doc Ref 5.4.8.13)</p>	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 10 Outfall management and monitoring plan</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	
B-92	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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	Ditch Creation Creation of new up to 3.65km of new ditch habitat as described in Appendix C of the BNG Report (Appendix 8.13App Doc Ref 5.4.8.13)	Operation	BNG Report (Appendix 8.13App Doc Ref 5.4.8.13) ES Chapter 8 Table 2-11 (App Doc Ref 5.2.8)	DCO Schedule 2 Requirement 7 - Detailed design
B-93	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	Landscape Masterplan Habitats removed to be replaced by plantings of habitats of higher ecological value in line with landscape masterplan within the LERMP (Appendix 8.14App Doc Ref 5.4.8.14).	Operation	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
B-94	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	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	Code of Construction Practice Management of construction activities will be through measures as described within the CoCP Part A and B in particular Part A 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: <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 	Construction	Sections 4.4 Para 4.4.4, 7.2 (Nature conservation and ecology) and Section 7.4 (Land Quality) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Outline Soil Management Plan (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP
B-95	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline	Code of Construction Practice Best practice measures to operate in compliance with the 1981 Act as appropriate:	Construction	Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> pre works check by suitably experienced ecologist best practice vegetation clearance methods 		CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	
B-96	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Removal of habitats during the temporary use of land for the construction of the Waterbeach pipeline	<p>Code of Construction Practice</p> <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>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP including a detailed soil management plan which must accord with the measures set out in the outline soil management plan</p>
B-97	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Potential surface water impacts at Allicky Farm Pond CWS due to spills and leaks within the proposed WWTP migrating beyond the site	<p>Operating Practices</p> <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</p> <p>Segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy</p>	Operation	<p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p> <p>Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12)</p>	<p>DCO Schedule 2 Requirement 15 – Drainage</p> <p>Environmental Permit</p>
B-98	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Potential surface water impacts at Allicky Farm Pond CWS due to spills and leaks within the proposed WWTP migrating beyond the site	<p>Drainage Design</p> <p>Segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy</p>	Operation	Drainage strategy (Appendix 20.12, App Doc Ref 5.4.20.12)	<p>DCO Schedule 2 Requirement 7 – Detailed design</p> <p>DCO Schedule 2 Requirement 15 – Drainage</p>
B-99	ES Chapter 8: Biodiversity (App Doc	Temporary disturbance of badger sett and associated	Code of Construction Practice	Construction	Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature	DCO Schedule 2, Requirement – 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Ref 5.2.8), Table 5.2 - Securing Mitigation	habitat due to the combination of noise, use of temporary lighting, land clearance, excavation and presence of people in proximity	<p>Management of impacts to badger as a result of construction activities are through measures as described within the in particular section 4.4 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:</p> <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 • securing of areas to prevent access by badger 		conservation and ecology) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement 9 – CEMP
B-100	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Construction within the land required for the proposed WWTP and landscape masterplan results in temporary impacts to the non-statutory designated site: Low Fen Drove Way Grassland and Hedges CWS	<p>Landscape Masterplan</p> <p>Plan does not include removal of vegetation from the CWS.</p> <p>Plan includes provision of a buffer of a minimum of 10m between works areas and extent of CWS.</p>	Operation	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 –10 LERMP
B-101	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8) , Table 5.2 - Securing Mitigation	Construction within the land required for the proposed WWTP and landscape masterplan results in temporary impacts to the non-statutory designated site: Low Fen Drove Way Grassland and Hedges CWS	<p>Code of Construction Practice</p> <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 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:</p> <ul style="list-style-type: none"> • CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 which: <ul style="list-style-type: none"> – require the prohibition of vegetation removal from the CWS – requires the routing of works access through existing pathways that cross the CWS – requires the provision of a buffer of a minimum of 10m between works areas and extent of CWS. • 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"> – 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 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) ,7 .5 (Water resources and flood risk), 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2 Requirement 14 – Construction lighting</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>treating dewatering effluent prior to discharge and control of dewatering discharges to prevent scour</p> <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> <p>Wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill) along with dust control measures (such as wetting materials).</p>			
B-102	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	Construction within the land required for the proposed WWTP and landscape masterplan results in 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>Code of Construction Practice</p> <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 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:</p> <ul style="list-style-type: none"> • Wildlife sensitive lighting (<2700K, directional only with no upward orientation or light spill) along with dust control measures (such as wetting materials); • CoCP Part A, Section 7.2, Ecology and nature conservation, and Part B, section 3.3 which • require the prohibition of vegetation removal from the CWS • requires the routing of works access through existing pathways that cross the CWS • requires the provision of a buffer of a minimum of 10m between works areas and extent of CWS. • 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"> • 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 • 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 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.2 (Nature conservation and ecology) ,7 .5 (Water resource and flood risk), 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2 Requirement 14 – Construction lighting</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
measures are to be reflected within the Noise and Vibration Management Plan (NVMP) appended to/as part of the CEMP.						
B-103	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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>Code of Construction Practice</p> <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 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> <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 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 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	<p>Sections 4.4 (CEMP) Para 4.4.4, and 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>Section 3.1 – 3.3 CoCP Part B (App Doc Ref 5.2.2.2)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
B-104	Chapter 08: Biodiversity Table 5.2 - Securing Mitigation	Dewatering during the construction of the outfall temporarily reduces water quality within the River Cam CWS	<p>Code of Construction Practice</p> <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</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 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 CoCP Part B (Appendix 2.1, App Doc Ref</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2, Requirement 10 –Outfall management and monitoring plan</p> <p>Environmental Permit</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>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. <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>		5.4.2.2) Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	
B-105	ES Chapter 8: Biodiversity (App Doc Ref 5.2.8), Table 5.2 - Securing Mitigation	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	<p>Code of Construction Practice</p> <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>Dewatering controls</p> <ul style="list-style-type: none"> 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 	Construction	ES Chapter 2 Project Description para 2.12.9 (App Doc Ref 5.2.2) Sections 4.4 (CEMP) Para 4.4.4, and 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 CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP Environmental Permit
CR-1	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2 - Securing Mitigation	Higher maximum summer temperatures and in-combination weather events lead to mechanical and electrical equipment failure	<p>Operational Monitoring</p> <p>Monitoring of condition during temperature extremes</p>	Operation	ES Chapter 11 Section 2.8, and Table 5-1 ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	Requirement 18 – Operational Asset Management Plan
	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2 - Securing Mitigation	Higher maximum summer temperatures: efficiency of boilers and CHP unit	<p>Asset Management</p> <p>Applicant’s asset management plan to include scheduling of maintenance and renewal works to improve efficiency of units</p>	Operation	Es Chapter 11 Section 2.8, and Table 5-1	Requirement 18 – Operational Asset Management Plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	
CR-2	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP	Drainage Design Surface water drainage design avoids damage to or water ingress into buildings and structures Upgrade of the surface water drainage with larger pipe diameters and storage towards the end of the century.	Construction	ES Chapter 11 Section 2.8 and Table 5-1 Drainage Strategy (App Doc Ref 5.20.4)	DCO Schedule 2 Requirement 7 Detailed design DCO Schedule 2 Requirement 15 – Drainage
CR-3	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP	Operational Management Management plans and business continuity plans for extreme weather conditions The Environmental Permit will include conditions requiring a written EMS which will includes management systems to cover pollution prevention and emergency responses	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8 and Table 5-1 Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	Environmental Permit
CR-4	ES Chapter 09: Climate resilience (App Doc Ref 5.2.9), Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events leads to structural damage and flooding within the proposed WWTP	Operational Management Monitoring the response of the Proposed WWTP surface water drainage system to intense rainfall events and recording occurrences of surface water flooding The Environmental Permit will include conditions requiring a written EMS which will includes management systems to cover pollution prevention and emergency responses	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8 and Table 5-1 Drainage Strategy (App Doc Ref 5.20.4)	Environmental Permit
CR-5	Chapter 09: Climate resilience Table 5.2 - Securing Mitigation	Increased winter rainfall and higher fluvial flows: damage to the outfall structure and riverbank	Operational Management Periodic monitoring of structure conditions	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2)	Requirement 18 – Operational Asset Management Plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CR-6	Chapter 09: Climate resilience Table 5.2 - Securing Mitigation	Greater seasonal range between wetter winters and drier summers: ground movement	Operational Management Controlled through operational asset inspection and repair programme including period asset inspections	Operation	ES Chapter 11 Section 2.8, and Table 5-1 ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8, and Table 5-1 Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	Requirement 18 – Operational Asset Management Plan
CR-7	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased seasonal winter rainfall and heavy rainfall events	Operational Management Inspection and maintenance regime to keep pipes clear and operating effectively.	Operation	ES Chapter 2 Project Description Sections 5.1 Operation, Operational environmental management, and 5.2 Maintenance (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8, and Table 5-1	Requirement 18 – Operational Asset Management Plan
CR-8	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats	Surface Water Drainage Design 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
CR-9	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events: biodiversity mitigation habitats	Operational Management Maintenance, repair and replanting of seasonal ponds	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
CR-10	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats	Landscape Masterplan Diversity of species in final planting specification	Pre-construction	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
CR-11	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Reduced summer rainfall and increased drought conditions: biodiversity mitigation habitats	Landscape Masterplan Creation of the seasonal ponds to retain rainwater in the summer	Operation	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

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	
CR-12	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Reduced summer and rainfall and increased winter rainfall: tree planting	<p>Landscape Masterplan</p> <p>Drought tolerant species selection</p> <p>Adaptive management to consider how future wooded areas and new planting will be watered.</p>	Pre-construction	<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> <p>Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	DCO Schedule 2 Requirement 11 – LERMP
CR-13	ES Chapter 09: Climate resilience, Table 5.2 – Securing Mitigation	Reduced summer and rainfall and increased winter rainfall: tree planting	<p>Detailed Management and Monitoring plan (LERMP)</p> <p>Adaptive management to consider how future wooded areas and new planting will be watered.</p>	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
CR-14	ES Chapter 09: Climate resilience, Table 5.2 – Securing Mitigation	Reduced summer rainfall and increased drought conditions: landscaping and tree planting	<p>Landscape Masterplan</p> <p>Species diversity and choice of drought resilient tree species.</p> <p>Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally</p>	Operation	<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> <p>Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)</p>	DCO Schedule 2 Requirement 11 – LERMP
CR-15	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Reduced summer rainfall and increased drought conditions: landscaping and tree planting	<p>Detailed Management and Monitoring plan (LERMP)</p> <p>Landscape Management Plan to replace dieback of wooded area with tree species that thrive in future climates locally</p> <p>Approval and implementation of a detailed management and monitoring plan</p>	Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
CR-16	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Reduced summer rainfall and increased drought conditions: landscaping and tree planting	<p>Surface Water Drainage Design</p> <p>Transfer of rainwater collected within the earth bank to the drainage network in the landscaped area</p> <p>Detailed surface water drainage design will comply with the Drainage Strategy</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).	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 15 – Drainage</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CR-17	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Warmer, wetter winters leading to increases in pest and disease outbreaks	Landscape Masterplan Diversity in planting species Landscape management - approval and implementation of a detailed management and monitoring plan	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14) Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
CR-18	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased winter heavy rainfall events and summer drought conditions: erosion of soils	Drainage Strategy Surface water runoff design avoids erosion and scour 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
CR-18	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased winter heavy rainfall events and summer drought conditions: erosion of soils	Landscape Masterplan Landscape management design avoids exposed desiccated soils Landscape management to identify soil erosion and vegetation management	Operation	Figure 3.9 and Figure 3.10 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14) Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 – LERMP
CR-19	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events: river scour	Outfall and River Bank Design 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 the assessment includes a 20% climate change uplift	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) ES Chapter 09 Section 2.9 and Table 5-2 (App Doc Ref 5.2.9)Chapter 20 - Appendix 20.7 - Outfall CFD Report (pp Doc Ref 5.4.20.7)	DCO Schedule 2 Requirement 7 - Detailed design
CR-20	ES Chapter 09: Climate resilience, Table 5.2 - Securing Mitigation	Increased winter rainfall and heavy rainfall events: river scour	Outfall Management and Monitoring Plan 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	ES Chapter 2:Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) ES Chapter 09 Section 2.9 and Table 5-2 (App Doc Ref 5.2.9) Chapter 20 - Appendix 20.7 - Outfall CFD Report (pp Doc Ref 5.4.20.7)	DCO Schedule 2 Requirement 10 – Outfall Management and monitoring plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Outline outfall management and monitoring plan (App Doc Ref 5.4.8.24)	
CA-1	Chapter 10: Carbon, Table 5.2 – Securing Mitigation	Climate change emissions contributions through GHGs associated with operation of the proposed WWTP	Carbon Management Plan Implementation of an Operational Carbon Management Plan	Operation	ES Chapter 10 Section 2.4 and Table 5-2 (App Doc Ref 5.2.10) Carbon Management Plan (App Doc Ref 5.4.10.2)	DCO Schedule 2 Requirement 21- Carbon management plan
CA-2	Chapter 10: Carbon, Table 5.2 – Securing Mitigation	Climate change emissions contributions through GHGs associated with operation of the proposed WWTP	Design - Solar infrastructure Inclusion of solar panels in the inner slope of the earth bank (for the preferred option of G2G). Requirement to update Carbon model to account for detailed design of the Proposed Development to monitor further carbon savings through detailed design when compared to the baseline DMO design	Construction	ES Chapter 2:Project Description Section 2.13 further associated development and site-wide provisions (App Doc Ref 5.2.2) ES Chapter 10 Section 2.4 and Table 5-2 (App Doc Ref 5.2.10)	DCO Schedule 2 Requirement 7
CA-3	ES Chapter 10 Table 5.2 – Securing Mitigation	Climate change emissions contributions through GHGs associated with operation of the proposed WWTP	BREAAM Gateway building to be designed to achieve BREEAM “Excellent” standard	Construction	ES Chapter 2:Project Description Section 2.13 Further associated development and site-wide provisions, Further associated development, (Gateway Building) (App Doc Ref 5.2.20) ES Chapter 10 Section 2.4 and Table 5-2 (App Doc Ref 5.2.10)	DCO Schedule 2 Requirement 7 -Detailed design
CA-4	Chapter 10: Carbon, Table 5.2 – Securing Mitigation	Whole life carbon of the proposed WWTP	Landscape Masterplan Land use change acting to reduce emissions over the whole life of the assessment	Construction Operation	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement – 11 -LERMP
CA-5	ES Chapter 10 Carbon, Table 5.2 – Securing Mitigation	Whole life carbon of the proposed WWTP	Carbon Management Plan Measures adopted in operation act to reduce emissions over the whole life of the assessment: <ul style="list-style-type: none">Follow the Net Zero to 2030 StrategyImplement the Operational worker travel plan to encourage mode shift in transport	Operation	ES Chapter 10 Section 2.4 and Table 5-2 (App Doc Ref 5.2.10) OWTP (Appendix 19.8, App Doc Ref 5.4.19.8) Carbon Management Plan (App Doc Ref 5.4.10.2)	DCO Schedule 2 Requirement -21 – Carbon management plan DCO Schedule 2 Requirement -12 Travel Plan
CA-6	ES Chapter 10: Carbon, Table 5.2 – Securing Mitigation	Capital carbon as a result of materials and activity to construct the Proposed Development	Design Optimization – Detailed Design Design optimisation at detailed design stage informed by carbon model that seeks to further reduce capital carbon through: <ul style="list-style-type: none">Continued innovation review	Construction	ES Chapter 10 Section 2.4 and Table 5-2 (App Doc Ref 5.2.10)	DCO Schedule 2 Requirement 7 – Detailed Design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Materials specifications Design of efficient construction and temporary works 			
CO-1	Chapter 11: Community Table 5.2 - Securing Mitigation	Provision of new community resources through new Discovery Centre provides benefit	<p>Discovery Centre</p> <p>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)</p> <p>Requirement to monitor usage of the Discovery Centre</p>	Operation	ES Chapter 2:Project Description Section 2.13 further associated development and site-wide provisions (App Doc Ref 5.2.2) ES Chapter 11 Section 2.8 and Table 5-2	DCO Schedule 2 Requirement 7 - Detailed design
CO-2	Chapter 11: Community Table 5.2 - Securing Mitigation	Provision of a new bridleway provides benefit to recreational users (horse riders) through additional equestrian resource	<p>Design - New Bridleway</p> <p>Opportunity for access to the area in proximity to the land required for the proposed WWTP will be enhanced for equestrians by the Change of status for up to 1.03km of existing farm track to provide a new Public Right of Way (bridleway)</p>	Operation	Figure 3.14 within Landscape, Ecological and Recreational Management Plan (Appendix 8.14, App Doc Ref 5.4.8.14)	DCO Schedule 2 Requirement 11 - LERMP
CO-3	Chapter 11: Community Table 5.2 - Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	<p>Outfall Design</p> <p>Design measures to prevent or minimise impacts to recreational users:</p> <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 <p>Approved outfall design secured through conditions with the Environmental Permit (Flood Risk Activities)</p>	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)	DCO Schedule 2 Requirement 7 - Detailed design Environmental Permit (flood risk activities) DCO Schedule 2 Requirement 7 – Detailed Design
CO-4	Chapter 11: Community Table 5.2 - Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	<p>Outfall Management and Monitoring Plan</p> <p>Approval and implementation of an Outfall Management Plan</p>	Operation	ES Chapter 2:Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2) Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	DCO Schedule2 – Requirement 10 Outfall management and monitoring plan
CO-5	Chapter 11: Community Table 5.2 - Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	<p>Landscape Masterplan</p> <p>Direct benefits to recreation to be through measures within the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14):</p> <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	Figure 3.12 - 3.14 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14) Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 11 - LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CO-6	Chapter 11: Community Table 5.2 - Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	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	Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 - LERMP
CO-7	Chapter 11: Community Table 5.2 - Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access to recreational resources and informal open spaces	Design – Horningsea Road 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 	Operation	ES Chapter 2:Project Description, Section 2.9 Proposed WWTP access and off-site highway network alterations (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 - Detailed design Requirement 7 – Detailed Design
CO-8	Chapter 11: Community Table 5.2 - Securing Mitigation	The presence of permanent infrastructure creates a permanent change to access in the provision of two recreational resources and informal open spaces	Landscape Masterplan 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	Figure 3.12 - 3.14 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14 Section 4 Landscape, Ecological and Recreational Management Plan (LERMP) (Appendix 8.14, App Doc Ref 5.4.8.14	DCO Schedule 2 Requirement 11 - LERMP
CO-9	Chapter 11: Community Table 5.2 - Securing Mitigation	Temporary requirement for land to construct the Waterbeach pipeline affects access to CBS Automotive	Code of Construction Practice Management of impacts to land temporarily required managed 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) and CTMP: <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 CTMP Implementation of the CTMP in particular 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. requires connectivity/access to community facilities and residential properties to be maintained during works 	Construction	Section 4.4 (CEMP Para 4.4.4, Section 7.2 (Ecology and nature conservation), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Construction Traffic Management Plan Section 6.9 (Facilitate safe movement of users of the highway (including NMUs)) (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CO-10	Chapter 11: Community Table 5.2 - Securing Mitigation	Temporary changes to access affecting residents on Low Fen Drove Way due to use during construction for access	Construction Sequencing and Access Design Sequencing construction of the permanent access at the start to minimise disruption to Low Fen Drove Way	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11) Section 7.6, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 6.3 of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 7 - Detailed design DCO SCHEDULE 2 Requirement 7 – Detailed design DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP
CO-11	Chapter 11: Community Table 5.2 - Securing Mitigation	Temporary changes to access affecting residents on Low Fen Drove Way due to use during construction for access	Construction Traffic Management Plan Implementation access controls as set out in Section 6.3 of the CTMP and Traffic and Transport measures of the CoCP in particular: <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 and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) Part A (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 construction activity, construction vehicle movements, diversions etc 	Construction	Section 7.6, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 6.3 of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
CO-12	Chapter 11: Community Table 5.2 - Securing Mitigation	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	Code of Construction Practice Provision of gated crossings and appropriate signage to communicate temporary diversions	Construction	Sections 4.4 (CEMP) and 7.6 (Traffic and transport) CoCP Part A (Appendix 2.1 App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
CO-13	Chapter 11: Community	Temporary changes to recreational resources and	Design - Temporary diversion	Construction	Section 7.6 (Traffic and transport) CoCP Part A	DCO Schedule 2, Requirement – 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2 - Securing Mitigation	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		Appendix 2.1, (App Doc Ref 5.4.2.1) Sections 6.3 of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
CO-14	Chapter 11: Community Table 5.2 - Securing Mitigation	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	<p>Code of Construction Practice</p> <p>Provision of diversions and appropriate signage to communicate temporary diversions in particular:</p> <ul style="list-style-type: none"> Implementation of section 7.6 of the CoCP Part A 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) 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 <p>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</p>	Construction	<p>Sections 3 (Community & Stakeholder Engagement) and 7.6 (Traffic and transport) CoCP Part A Appendix 2.1, (App Doc Ref 5.4.2.1)</p> <p>Sections 6.7 of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7)</p> <p>Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a detailed community liaison plan which must accord with the measures set out in the community liaison plan</p>
CO-15	Chapter 11: Community Table 5.2 - Securing Mitigation	Temporary changes to recreational resources and open spaces due to the temporary in-river construction works to construct the outfall that will affect the navigable width of the river	<p>Code of Construction Practice - River Navigation</p> <p>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 of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2).</p> <p>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 of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) in particular:</p> <ul style="list-style-type: none"> Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, Application Doc Ref: 5.4.2.1, 5.4.2.2) Part A (Community & Stakeholder Engagement) to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) Part A (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 Approval and implementation of an Outfall Management Plan 	Construction	<p>Section 3.1, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2:Project Description Section 2.12 The Outfall (App Doc Ref 5.2.2)</p> <p>Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2, Requirement 10 – Outfall management plan</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
CO-16	Chapter 11: Community Table 5.2 - Securing Mitigation	Temporary changes to recreational resources and open spaces Horningsea Road	<p>Construction Traffic Management Plan</p> <p>Management of construction impacts to Horningsea Road through the implementation of the CTMP (Application Document 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>Section 7.6, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) 1)</p> <p>Sections 6.3 and 6.9 of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
H-1	Chapter 12: Health Table 5.2 - Securing Mitigation	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, users of Low Fen Drove Way, Chesterton, properties on the eastern end of Fen Road and Milton	<p>Design - Temporary Diversions</p> <p>Diversions and appropriate signage to communicate temporary diversions as detailed in the CoCP Part A. 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.</p> <p>Implementation of the CTMP in particular:</p> <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	<p>Sections 4.4 (CEMP) para 4.4.4 and 7.7 (Traffic and transport), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),</p> <p>ES Chapter 2:Project Description Section 3.8, Construction access, Access to the Final Effluent (FE) and storm pipeline works area (App Doc Ref 5.2.2)</p> <p>Rights of Way Plans (App Doc Ref 4.6),</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
H-2	Chapter 12: Health Table 5.2 - Securing Mitigation	Changes in access to local services as a result of construction activities and changes to travel routes and delays	<p>Construction Traffic Management Plan</p> <p>The CTMP states that there will be no construction traffic through Horningsea village. Section 4.2 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.</p>	Construction	<p>Sections 4.2 of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p> <p>DCO Schedule 2, Requirement 9 – CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
H-3	Chapter 12: Health Table 5.2 - Securing Mitigation	Changes to health and wellbeing due to a combination of an increase in noise, air quality, dust, odour, traffic and visual	<p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p> <p>Code of Construction Practice</p>	Construction	<p>Sections 4.4 (CEMP), 3 (Community & Stakeholder Engagement), 7.7 (Noise and vibration) and 7.8 (Air quality) of CoCP Part A</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		effects due to works within the existing Cambridge WWTP, and works to construct the Waterbeach pipeline and Clayhithe	<p>Management of construction activities that may impact community health and wellbeing 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):</p> <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/Dust 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: <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 noise impacts as set out within the 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. <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 management of construction vehicle movements described within the CTMP (Appendix 19.7, App Doc Ref 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 Section 6.9 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 within an article in the DCO 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. 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) 		<p>(Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Outline Construction Worker Travel Plan (5.4.19.9)</p> <p>Outline Decommissioning Plan (Appendix 2.3, App Doc Ref 5.4.2.3)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).</p>	

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>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> <ul style="list-style-type: none"> • 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, Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3) • Use of odour suppression equipment, such as fogging/misting systems. Section 7.8, Construction odours of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1). • 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 			
H-4	Chapter 12: Health Table 5.2 - Securing Mitigation	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects	<p>Code of Construction Practice</p> <p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p> <p>Measures NV-1 to 3 and measures T1- T51 within mitigation tracker</p>	Construction	<p>Sections 4.4 (CEMP), 7.7 (Noise and vibration) and 7.9 (Waste Management and Resource Use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1))</p> <p>Construction Traffic Management Plan (Appendix 19.7, Appendix 19.7 App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
H-5	Chapter 12: Health Table 5.2 - Securing Mitigation	Changes to health and wellbeing due to noise, air quality, dust, odour, traffic and visual effects – Fen Ditton	<p>Code of Construction Practice</p> <p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p> <p>Measures NV-1 to 3 and measures T1- T51 within mitigation tracker</p>	Construction	<p>Sections 4.4 (CEMP), 7.7 (Noise and vibration) and 7.9 (Waste Management and Resource Use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>
	Chapter 12: Health Table 5.2 - Securing Mitigation	Changes to health and wellbeing due to a combination of an increase in noise, air quality, dust, odour, traffic and visual effects due to the use of Fen Road and works to	<p>Code of Construction Practice</p> <p>Relevant noise and traffic measures outlined in the CoCP as detailed in Chapter 19: Traffic and transport (Application Document Ref 5.2.19) and Chapter 17: Noise and vibration (Application Document Ref 5.2.17).</p> <p>Measures NV-1 to 3 and measures T1- T51 within mitigation tracker</p>	Construction	<p>Sections 4.4 (CEMP), 7.7 (Noise and vibration) and 7.9 (Waste Management and Resource Use), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic</p>	<p>DCO Schedule 2, Requirement – 8 CoCP</p> <p>DCO Schedule 2, Requirement 9 – CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		construct the Waterbeach pipeline			Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),	
H-6	Chapter 12: Health Table 5.2 - Securing Mitigation	Changes to social cohesion due to the presence of new infrastructure changing established accesses and connectivity either side of the area of land required for the proposed WWTP	Landscape Masterplan 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	Figure 4-1 within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	DCO Schedule 2, Requirement 11 - LERMP
H-7	Chapter 12: Health Table 5.2 - Securing Mitigation	Potential risk to human health from due to potential sources of contamination during construction that may generate hazardous waste and substances (e.g., from hazardous landfill sites in the county or pollution incidents such as spills and leaks)	As detailed Chapter 16: Material resources and waste (Application Document Ref 5.2.16 (Measure ref MW-1 to MW 11 in Mitigation Tracker). Code of Construction Practice Management of human health risks from the creation of hazardous waste and use of hazardous substances through the application of measures within Section 7.9 (Waste Management and Resource Use) of the CoCP Part A in relation to minimising and appropriately managing waste in accordance with environmental regulations through preparation of CEMP, and SWMP	Construction	Sections 4.4 (CEMP), and 7.7 (Noise and vibration), 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)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP
H-8	Chapter 12: Health Table 5.2 – Securing Mitigation	Potential risk to human health from hazardous waste and substances	Environmental Management System Preparation of operational management plan associated with the EMS procedures as required by the permitting process.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit
H-9	Chapter 12: Health Table 5.2 – Securing Mitigation	Potential risk to human health from hazardous waste and substances	Code of Construction Practice Management of human health risks from the creation of hazardous waste and use of hazardous substances through the application of measures within Section 7.9 (Waste Management and Resource Use) of the CoCP Part A in relation to minimising and appropriately managing waste in accordance with environmental regulations through preparation of CEMP, and SWMP	Construction	Sections 4.4 (CEMP), and 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP
H-10	Chapter 12: Health Table 5.2 – Securing Mitigation	Potential risk to human health from water pollution.	Code of Construction Practice 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: <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 (Construction Environment Management), and 7.5 (Water Resources and flood risk), 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)	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<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 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 rolls on gentle slopes installed at levelled contours to control runoff. 			
H-11	Chapter 12: Health Table 5.2 – Securing Mitigation	Temporary concern for local communities in close proximity to the Proposed Development due to the presence of a construction workforce affecting social cohesion.	<p>Community Liaison Plan</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> <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>	Construction	Sections 3 (Community and Stakeholder Engagement), section 4.2 (Environmental and Health and Safety Management Systems) (,4.3 (Considerate Constructors Scheme), and 5.2 (Training and Site Induction) 6, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) s	DCO Schedule 2, Requirement – 8 CoCP DCO Schedule 2, Requirement 9 – CEMP including a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)
HE-1	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Change in character of HLCA22 and other HLCAs.	<p>Code of Construction Practice</p> <p>Where possible the land required for the construction of the treated effluent transfer pipelines, following the works, will be returned to its current character.</p>	Construction	Section 4.4 (Construction Environment Management) and 7.4 (Land quality, soil management), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Section 5.4, Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 – COCP, Requirement 9 – CEMP
HE-2	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Operational change within the setting of heritage (HE011, HE040, HE095 and HE096) and historic landscape (HLCA69) assets.	<p>Lighting Design</p> <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>	Operation	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5).	DCO Schedule 2 Part 1 Requirement 7 – Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
HE-3	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Operational change within the setting of heritage (HE011, HE040, HE095 and HE096) and historic landscape (HLCA69) assets.	Landscape Masterplan The landscape master plan will be designed to reduce the visual impact on historic landscape assets and character area.	Operation	ES Chapter 3 Alternatives Section 7 Landscape Evolution, Building Heights, and Finishes (App Doc Ref 5.2.3) Figure 4-1 within the LERMP (Appendix 8.14 App Doc Ref 5.4.8.14)	DCO Schedule 2 Part 1 Requirement 11– LERMP
HE-4	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Permanent construction impacts from change within the setting or to the character of heritage assets (HE011, HE040, HE095, HE096).	Archaeological Mitigation Strategy 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	CoCP Part A 7.3 (Historic Environment, para 7.3.1 – 7.3.7, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Part 1 Requirement 13– AIMS
HE-5	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Permanent construction impacts from change within the setting or to the character of heritage assets (HE011, HE040, HE095, HE096).	Landscape Masterplan The landscape master plan will be designed to reduce the visual impact on historic landscape assets and character area	Construction	ES Chapter 3 Alternatives Section 7 Landscape Evolution, Building Heights and Finishes (App Doc Ref 5.2.3) Landscape, Ecological and Recreational Management Plan para 1.2.2 bullet 3 (Appendix 8.14, App Doc Ref 5.4.8.14)	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11– LERMP
HE-6	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Removal of archaeological remains (HE1303, HE1304, HE1306, HE1307, HE1308, HE1310, HE1328 and HE1329).	Archaeological Mitigation Strategy 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	Sections 4.4 (Construction Environment Management) and 7.3 (Historic Environment, para 7.3.1 – 7.3.7) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Part 1 Requirement 13– AIMS
HE-7	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Temporary change within the setting and/or character of assets (HE011, HE095, HE040, HE096) during construction.	Construction Traffic Management Plan Construction traffic will be routed around rather than through Horningsea Conservation Area. As set out within CoCP Part A Section 7.6 (Traffic and Transport, Construction traffic management plan (CTMP)) a CTMP will be implemented to reduce and manage the effects of construction vehicle movements associated with the Proposed Development.	Construction	Section 4 (Access and route strategy, Table 4-1) CTMP (Appendix 19.7, App Doc Ref 5.4.19.7) Sections 4.4 (Construction Environment Management) and 7.6 (Traffic and transport) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 – COCP, Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
HE-9	Chapter 13: Historic Environment Table 5.2 – Securing Mitigation	Temporary change within the setting and/or character of assets (HE011, HE095, HE040, HE096) during construction.	Code of Construction Practice – Construction lighting design The lighting proposed will be mounted to minimise the spread of light in the surrounding area	Construction	Sections 4.4 (CEMP) 5.9 (Lighting) para 5.9.4 CoCP Part A, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 – COCP, Requirement 9 – CEMP DCO Schedule 2 Requirement 14 – Construction lighting
LQ-1	Chapter 14: Land Quality Table 5.2 – Securing Mitigation	Damage from aggressive ground conditions on buried structures and infrastructure: water supply pipe infrastructure, concrete structures (e.g., foundations) and tunnels.	Design of proposed WWTP and transfers Design of structures and materials for the ground conditions present	Operation	ES Chapter 2, Section 2.8 Waterbeach pipelines para 2.8.17, 3.4 Construction techniques and methodology para 3.4.29 (App Doc Ref 5.2.2) ES Chapter 14, Table 2-14 (App Doc Ref 5.2.14)	DCO Schedule 2 Requirement 7 – Detailed design
LQ-2	Chapter 14: Land Quality Table 5.2 – Securing Mitigation	Damage from aggressive ground conditions on buried structures and infrastructure: water supply pipe infrastructure, concrete structures (e.g., foundations) and tunnels.	Asset Management Plan Operational monitoring structural conditions and asset inspections (secondary)	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Asset Management Plan (Appendix 9.1, App Doc Ref 5.4.9.1)	DCO Schedule 2 Requirement 7 – Detailed design
LQ-3	Chapter 14: Land Quality Table 5.2 – Securing Mitigation	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	Code of Construction Practice Application of CL:AIRE Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) for the reuse of excavated waste materials (if required)	Construction	Section 7.9 (Land quality, waste minimisation) para 7.9.16 Code of Construction Practice (CoCP) Part A, (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 – COCP
LQ-4	Chapter 14: Land Quality Table 5.2 – Securing Mitigation	Exposure to contaminated soils through inhalation – off-site land users	Code of Construction Practice – Dust control 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	Sections 4.4 (CEMP) Para 4.4.4. and 7.8 (Air quality, Dust control), COCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 – COCP, Requirement 9 – CEMP
LQ-5	Chapter 14: Land Quality	Partial loss of river terrace deposits during construction	Code of Construction Practice – Excavated Material Management	Construction	Sections 4.4 (CEMP) Para 4.4.4. and 7.9 (Waste management and resource	DCO Schedule 2 Requirement 8 – COCP, Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2 – Securing Mitigation		Reuse of materials within the Proposed Development through application of CoCP Part A, Section 7.9 (Waste management and resource use, Waste minimisation) implemented through an approved Materials Management Plan		use, Waste minimisation) COCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	
LV-1	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Damage to retained vegetation within the area of land required for the proposed WWTP	Code of Construction Practice – Minimisation of working area Minimise road and junction widening for work areas including temporary construction access as indicated in section 7.2 of the CoCP Part A.	Construction	Proposed WWTP Arboricultural Impact Assessment (Appendix 8.17, App Doc Ref 5.4.8.17) Waterbeach Pipeline Arboricultural Impact Assessment (Appendix 8.19, App Doc Ref 5.4.8.19) CoCP Part A Section 7.2 (Ecology and Nature Conservation, Tree/hedgerow removal) Para 7.2.62	DCO Schedule 2 Requirement 8 – COCP, Requirement 9 – CEMP
LV-2	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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.	Landscape Masterplan Design of landscape masterplan within the LERMP 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. Landscape design and maintenance within the landscape masterplan in the LERMP. Initial planting during construction: trees along Horningsea Road, trees and hedgerows along Low Fen Drove way and planting in gaps in the existing shelter belt between Horningsea and the Proposed WWTP.	Operation	Section 8.6, Mitigation through Green infrastructure in the Design and Access Statement (Application Document Ref 7.6). Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14)	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11– LERMP
LV-3	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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 proposed WWTP Design of structures in the proposed WWTP to minimise prominence of the infrastructure in the landscape and views. Selection of materials and finishes to the structures of the proposed WWTP as described in the Design and Access Statement (Application Document Ref 7.6).	Operation	ES Chapter 3 Alternatives Section 7 Landscape Evolution, Building Heights and Finishes (App Doc Ref 5.2.3) Section 8.6, Mitigation through Green infrastructure in the Design and Access Statement (Application Document Ref 7.6). ES Chapter 2 Project Description Section 2.13 Further associated development and site-wide provisions, Para 2.13.1 (App Doc Ref 5.2.2.)	SCO Schedule 3 DCO Schedule 2 Part 1 Requirement 11– LERMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
LV-4	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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.	<p>Landscape Masterplan</p> <p>Landscape design and maintenance within the landscape masterplan in the LERMP (Appendix 8.14, App Doc Ref 5.4.8.14). Initial planting during construction: trees along Horningsea Road, trees and hedgerows along Low Fen Drove way and planting in gaps in the existing shelter belt between Horningsea and the Proposed WWTP.</p>	Operation	<p>Landscape Evolution, Building Heights and Finishes (App Doc Ref 5.2.3)</p> <p>Section 8.6, Mitigation through Green infrastructure in the Design and Access Statement (Application Document Ref 7.6).</p> <p>ES Chapter 2 Project Description Section 2.13 Further associated development and site-wide provisions, Para 2.13.1 (App Doc Ref 5.2.2.)</p> <p>Figure 3.1 within the Landscape, Ecological and Recreational Management Plan (App Doc Ref 5.4.8.14</p>	<p>SCO Schedule 3</p> <p>DCO Schedule 2 Part 1 Requirement 11– LERMP</p>
LV-5	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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.	<p>Outfall and Riverbank Design</p> <p>Design measures to avoid or minimise loss of river habitat within the River Cam are:</p> <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 	Operation	<p>ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2)</p> <p>Design Plans – Outfall (App Doc Ref 4.13</p>	<p>DCO Schedule 2 Requirement 7 – Detailed design</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			hydrological connection to the river bank and encourage natural reinstatement of marginal vegetation.			
LV-6	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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.	<p>Outfall and Riverbank Design</p> <p>Design measures to avoid or minimise loss of river habitat within the River Cam are:</p> <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. 	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	DCO Schedule 2 Requirement 7 – Detailed design
LV-7	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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.	<p>Outfall Management and Monitoring Plan</p> <p>Direct and indirect impacts related to operation of the outfall will be minimised through rectifying erosion as determined through operational monitoring</p>	Operation	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13) Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 10 - Outfall management and monitoring plan
LV-8	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	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.	<p>Lighting Design Strategy</p> <p>Design of structures to reduce visual impact, design of lighting to minimise lighting impacts on the night-time landscape and views.</p> <p>Design measures to prevent or minimise artificial light are:</p> <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	Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5))	DCO Schedule 2 Requirement 14 – Construction lighting
LV-9	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction of the WWTP and the presence of construction equipment and	<p>Code of Construction Practice – Site Set Up and General Arrangements</p> <p>Provision of solid hoardings between Shaft 4 construction compound and Red House Close, near Poplar Hall Farm House and at the outfall compound to partially screen the construction of the proposed WWTP.</p>	Construction	Section 3.1 (3.1 Treated effluent and storm pipelines and outfall to the River Cam) and Section 3.2 (Transfer Tunnel) CoCP Part	DCO Schedule 2 Requirement 8 – CoCP DCO Schedule 2 Requirement 9 – CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		activity in in the Eastern Fen Edge Chalklands and the River Cam Corridor LCA and views close to proposed WWTP and Outfall.			B (Appendix 2.2, App Doc Ref 5.4.2.2) Section 4.4 (Construction environment management plan CoCP Part A) (Appendix 2.2, App Doc Ref 5.4.2.1)	
LV-10	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction 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.	Code of Construction Practice - Replanting and reinstatement of habitats Management of impacts to land temporarily required for construction will be managed through measures as described within the CoCP Part A and B: <ul style="list-style-type: none"> • requirement within Section 5.14 (Watercourses/drainage channels) for the reinstatement of ditches temporarily disturbed during construction • minimising severance of hedgerows and reinstatement of hedgerows (Section 7.2 Ecology and Nature Conservation). • replanting and maintenance of replanted trees, hedgerow and vegetation removed during construction 	Construction	Sections 5.14 Watercourses / drainage channels, and 7.2 (Ecology and Nature Conservation, Tree/Hedgerow removal CoCP Part A (Appendix 2.2, App Doc Ref 5.4.2.3) Section 3.3 CoCP Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2)	DCO Schedule 2 Requirement 8 – CoCP, Requirement 9 – CEMP
LV-11	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction 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.	Code of Construction Practice 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	Sections 4.4 (CEMP) Para 4.4.4., Section 7.2 (Ecology and Nature Conservation, Tree/Hedgerow removal and 7.4 (Land Quality, soil management) COCP Part A (Appendix 2.2, App Doc Ref 5.4.2.1) Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)	DCO Schedule 2 Requirement 8 CoCP Requirement 9 CEMP
LV-12	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Direct and indirect impacts on landscape character and visual amenity due to construction 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.	Lighting Design 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 lighting with no upward orientation or light spill	Construction	Section 5.9 Site Lighting CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP DCO Schedule 2 Requirement 14 – Construction lighting
LV-13	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to	Code of Construction Practice Management of impacts to land temporarily required managed 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):	Construction	Sections 4.4 (CEMP) ,7.2 (Ecology and Nature Conservation) Tree/Hedgerow removal,	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		construction of Waterbeach Pipeline	<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. 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>Management of impacts to land temporarily required managed 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):</p> <ul style="list-style-type: none"> use of solid site hoarding/temporary acoustic barriers at Waterbeach construction compound and around HDD pit locations/HDD plant during continuous working periods. 		<p>CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2)</p> <p>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3)</p> <p>Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p>	DCO Schedule 2 Requirement 14 – Construction lighting
LV- 14	Chapter 15: Landscape and Visual Table 5.2 – Securing Mitigation	Direct and indirect impacts on landscape character and visual receptors due to construction of Waterbeach Pipeline	<p>Lighting Design</p> <p>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 lighting with no upward orientation or light spill.</p>	Construction	<p>Sections 4.4 (CEMP) , and 7.2 (Ecology and Nature Conservation, Tree/Hedgerow removal) CoCP Part A and Section 3.3 of Part B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 and 5.4.2.2)</p> <p>Outline SMP (Appendix 6.3, App Doc Ref 5.4.6.3) Lighting Design Strategy (Appendix 2.5, App Doc Ref 5.4.2.5)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>DCO Schedule 2 Requirement 14 – Construction lighting</p>
MW-1	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	Depletion of material resources due to the construction of the Proposed Development	<p>Code of Construction Practice Material reuse</p> <p>100% reuse of the excavated material within trench reinstatement or landscape masterplan for Waterbeach Pipeline through implementation of an approved 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)	DCO Schedule 2 Requirement 8 CoCP Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
MW-2	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	Depletion of material resources due to the construction of the Proposed Development	Code of Construction Practice – Material reuse Reuse of 90% of excavated material within landscape masterplan limiting the 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 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)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP DCO Schedule 2 Requirement 9 CEMP including a site waste management plan
MW-3	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	Depletion of material resources due to the construction of the Proposed Development	Code of Construction Practice – Material reuse Use of precast structures (produce less waste) for treated effluent pipework	Construction	Sections 4.4 (CEMP) and 5.13 River works para 5.13.1 CoCP Part A (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 Detailed design
MW-4	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	Impact on the availability of material resources due to the construction of the Proposed Development	Code of Construction Practice – Material reuse 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) 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)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a materials management plan, and a site waste management plan
MW-5	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	Impact on the availability of material resources due to the construction of the Proposed Development	Code of Construction Practice – Material reuse 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) 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)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a materials management plan, and a site waste management plan
MW-6	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	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.	Code of Construction Practice Site waste management plan <ul style="list-style-type: none"> 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 Approval and implementation of a Site Waste Management Plan 	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)	Compliance with the Waste (England and Wales) Regulations 2011 (as amended) DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a materials management plan, and a site waste management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
MW-7	Chapter 16: Material Resources and Waste Table 5.2 – Securing Mitigation	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.	Code of Construction Practice Hazardous materials handling 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. Approval and implementation of a Site Waste Management Plan	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))	Compliance with the Waste (England and Wales) Regulations 2011 (as amended) DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a materials management plan, and a site waste management plan
MW-8	Chapter 16: Material Resources and Waste Table 5.2 - Securing Mitigation	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.	Environmental Management System Implementation of the waste hierarchy Compliance with the Environmental Permit including the associated EMS procedures.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) ES Chapter 17 Table 2.8 and 5-1	Waste (England and Wales) Regulations 2011 (as amended) Environmental Permit
MW-9	Chapter 16: Material Resources and Waste Table 5.2 - Securing Mitigation	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	Existing Environmental Controls – existing Cambridge WWTP The existing Cambridge WWTP will have existing obligation in relation to the operational management of activities within the site as specified within a site-specific Environmental Permit	Construction	. ES Chapter 17 Table 2.8 and 5-1	Compliance with the Waste (England and Wales) Regulations 2011 (as amended) Environmental Permit
MW-10	Chapter 16: Material Resources and Waste Table 5.2 - Securing Mitigation	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	Decommissioning Management 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.	Construction	Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3). 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)	DCO Schedule 2 – Requirement 8 – CoCP DCO Schedule 2 Requirement 9 CEMP – including a detailed decommissioning plan where the relevant phase includes decommissioning which must accord with the outline decommissioning plan.
MW-11	Chapter 16: Material Resources and Waste Table 5.2 - Securing Mitigation	Production of non-hazardous waste resulting in temporary occupation of waste infrastructures and/or permanent	Design - Resource Recovery Sludge produced by the Proposed WWTP is recycled and will be used as bio-fertilizer and spread on land.	Operation	ES Chapter 2 Project Description Para 1.8.6, Section 5.1 Operation, Resource Recovery (App Doc Ref 5.2.2)	Environmental permit DCO Schedule 2 Requirement 7 - Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		reduction of landfill capacity during the operation of the Proposed WWTP.				
NV-1	Chapter 17: Noise and Vibration Table 5.2 - Securing Mitigation	Construction noise impacts from the works at Shaft 4 and the Outfall.	<p>Code of Construction Practice</p> <p>Application of BPM in accordance with BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within the CoCP, Part A and B (Appendix 2.1 & 2.2, App Doc Ref 5.4.2.1 & 5.4.2.2).</p> <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	<p>Sections 4.4 (Construction environment management plan), and 7.7 (Noise and vibration), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>CoCP Part B Section 3.1 (Appendix 2.1, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a noise and vibration management plan</p>
NV-2	Chapter 17: Noise and Vibration Table 5.2 - Securing Mitigation	Noise from heavy vehicles on construction traffic routes	<p>Code of Construction Practice Noise management</p> <p>Application of BPM in accordance with BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within the CoCP, Part A and B (App Doc Ref 5.4.2.1 & 5.4.2.2).</p> <p>Approval and implementation of a Noise & Vibration Management Plan</p> <p>Construction Traffic Management Plan</p> <p>Restriction of working hours to avoid sensitive time periods and the use of solid site hoarding/temporary acoustic barriers when required.</p>	Construction	<p>Sections 4,4 CEMP para 4.4.4 and 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a noise and vibration management plan, and a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
NV-3	Chapter 17: Noise and Vibration Table 5.2 - Securing Mitigation	Construction vibration during works at the Waterbeach pipeline, Transfer tunnel and Final effluent pipeline	<p>Code of Construction Practice Noise management</p> <p>Application of BPM in accordance with BS 5228 and the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Measures are set out within the CoCP, Part A and B (Appendix 2.1 & 2.2 App Doc Ref 5.4.2.1 & 5.4.2.2). Use of low vibration sources of equipment.</p>	Construction	<p>Sections 4.4 (CEMP) para 4.4.4, and 7.7 (Noise and vibration) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a noise and vibration management plan</p>
O-1	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from biogas release to air (if required)	<p>Design - Flaring controls</p> <p>To minimise emissions to air during use and flare usage will be limited under IED permit controls including detailed OMP (Appendix 18.4, App Doc Ref 5.4.18.4) outlining operational odour management, monitoring and reporting measures.</p>	Operation	<p>ES Chapter 18 Odour Section 2.8 (App Doc Ref 5.2.2)</p> <p>Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)</p>	<p>Legal requirement for IED permit from the Environment Agency</p>
O-2	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from draining and cleaning of the waste water storage tanks and equipment	<p>Operational controls</p> <p>Transfer of the existing permit controls and odour management plan at the existing Cambridge WWTP to the proposed WWTP.</p> <p>Odour Control Equipment</p> <p>Use of odour suppression equipment, such as fogging/misting systems.</p>	Operation	<p>ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Section 7.8, Construction odours of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1).		Section 3.5, Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4).	
0-3	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from draining and cleaning of the waste water storage tanks and equipment	Odour Management 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, Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2) Section 6, Decommissioning Management Plan (Appendix 2.3, App Doc Ref 5.4.2.3)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
0-4	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from normal operation of the proposed WWTP	Odour Management Controls required by the IED permit such as operating in accordance with approved OMP, and having an established emergency response procedure.	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2) OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	Legal requirement for IED permit from the Environment Agency DCO Schedule 2 Requirement 7 Detailed design
0-5	Chapter 18: Odour	Odour emission from normal operation of the proposed WWTP	Design - Odour Control Design measures to manage odour release: <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 Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 7 Detailed design
0-6	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from short-term tie- in works	Code of Construction Practice Odour control Measures within CoCP Part B (Appendix 2.2 App Doc 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. Section 7.8, Construction odours of the CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) in particular the requirement for the use of air extraction system and a mobile odour filtration unit adjacent to the sewer shafts.	Construction	Sections 4,4 CEMP para 4.4.4 and 7.8 (Air quality), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 3, CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
0-7	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from sludge tanker spill within the WWTP	Code of Construction Practice Controls required by the IED permit such as operating in accordance with approved OMP, and having an established emergency response procedure.		Outline OMP (Appendix 18.4, App Doc Ref 5.4.18.4)	Legal requirement for IED permit
0-8	Chapter 18: Odour	Odour emission from transportation of seed	Commissioning Management Impacts managed through the following design measures:		ES Chapter 2 Project Description Section 2.5	DCO Schedule 2 Requirement 8 CoCP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.2 - Securing Mitigation	sludge and commencement of biological processes with the proposed WWTP	<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 <p>Odour control facilities will be critical equipment to operate continuously in all conditions and supplied with an uninterruptible power supply UPS Transport seed sludge in sealed tankers and pumped into the tanks through a closed process</p>		<p>Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)</p> <p>ES Volume 4 Chapter 2 Appendix 2.4 Outline Commissioning Plan (App Doc Ref 5.4.2.4)</p>	DCO Schedule 2 Requirement 9 CEMP
O-9	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour emission from transportation of seed sludge and commencement of biological processes with the proposed WWTP	<p>Design Measures – Odour Control</p> <p>Impacts managed through the following design measures:</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 Transport seed sludge in sealed tankers and pumped into the tanks through a closed process 	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 Detailed design
O-10	Chapter 18: Odour Table 5.2 - Securing Mitigation	Odour – operation of vent	<p>Design Measures – Vent</p> <p>Tunnel vent located at the interception shaft at the start of the transfer tunnel within the existing Cambridge WWTP. The structure will include a permanent vent 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.</p>	Operation	ES Chapter 18 Odour Table 2-11: Maximum design envelope parameters (Rochdale) for odour quality assessment	DCO Schedule 2 Requirement 7 Detailed design
O-11	Chapter 18: Odour Table 5.2 - Securing Mitigation	Short term odour release from deliveries of wastewater and sludge	<p>Design Measures – Odour Control</p> <p>Managed through the following measures:</p> <ul style="list-style-type: none"> Covered reception areas receiving waste water and sludge deliveries Use of sealed vehicles for the delivery of waste water and sludge 	Operation	ES Chapter 2 Project Description Section 2.5 Odour Control and Section 5.1 Operational Odour Control (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 7 Detailed design
T-1	Chapter 19: Traffic and Transport Table 5.2 - Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal loads	<p>Code of Construction Practice - Abnormal Loads</p> <p>Ensure that entities responsible for transporting the load follow the regulations for notifying authorities.</p>	Operation	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
						management plan which must accord with the measures set out in the construction traffic management plan
T-2	Chapter 19: Traffic and Transport Table 5.2 - Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of abnormal loads	Construction Traffic Management Plan - Abnormal loads Implementation of the CTMP in particular Section 4.2 (Local routing and site plant vehicle routing) which requires 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 (8am-9am and 3-4pm) unless it is determined to be essential that the delivery is to be completed during peak hours.	Operation	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-3	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of hazardous loads	Construction Traffic Management Plan - Hazardous loads management Implementation of the CTMP in particular: <ul style="list-style-type: none"> 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. section 4.2 (Access route strategy) requires all deliveries to be made outside of peak hours (08:00-09:00, 15:00-16:00, 17:00-18:00); section 5.2 (Temporary access points and construction road signage) which requires the use of temporary signage along all proposed construction haul roads; and 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. Entities responsible for transporting the abnormal load follow the regulations for notifying authorities	Construction	ES Chapter 29 Traffic and Transport Table 5-1 Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7,	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-4	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to an increased risk / delay for users of the local road network as a result of the transportation of hazardous loads	Construction Traffic Management Plan - Temporary traffic control Temporary traffic control, design of temporary connections to the road network, sequencing the proposed WWTP access road construction.	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	construction traffic management plan
T-5	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Construction Traffic Management Plan</p> <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 ## of the DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) 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; <ul style="list-style-type: none"> Active traffic management; and FORS and CLOCS accreditation 	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-6	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Code of Construction Practice</p> <p>Requirement within section 3 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) Part A (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</p>	Construction	Sections 3, 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 DCO Schedule 2 Requirement 9 CEMP
T-7	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse effect on fear and intimidation for pedestrians and cyclists	<p>Construction Traffic Management Plan - minimising traffic movements Horningsea Road</p>	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		travelling along Horningsea Road	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			including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-8	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Design Measures</p> <p>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</p> <p>Requirement for construction of a temporary access within land required for the proposed WWTP to construct the permanent access so that it can be used to facility the remainder of the construction.</p> <p>Design of temporary connections from works areas to the road network to standards</p>	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 7 Detailed design
T-9	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) 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.</p>	Construction	Sections 7.7, 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) Construction Traffic Management Plan (Appendix 19.7 App Doc Ref 5.4.19.7),	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-10	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular:</p> <ul style="list-style-type: none"> • section 3 (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 • 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 6.3 Adherence to Designated Routes • 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: 	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<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 			
T-11	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	Construction Traffic Management Plan – control of impacts to road users 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 construction activity, construction vehicle movements.	Construction	Section 3, 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 DCO Schedule 2 Requirement 9 - CEMP which must include a detailed community liaison plan which must accord with the measures set out in the community liaison plan (App Doc Ref 7.8)
T-12	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Impacts to users of A14 at junction 34 Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Worker Travel Plan 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)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-13	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Traffic Management Plan Implementation of Section 4.2 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	Construction	Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-14	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Traffic Management Plan Implementation of Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours	Construction	Section 6.4 (Vehicle scheduling) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
T-15	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Traffic Management Plan Implementation of Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks	Construction	Section 6.5 (Deliveries) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-16	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Code of Construction Practice Implementation of section 7.7 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 7.7 (Traffic and transport) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and Section 3 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-17	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Code of Construction Practice Requirement of Section 4.2 that all deliveries will be made outside of peak hours (8am-9am and 3-4pm) unless it is determined to be essential that the delivery is to be completed during peak hours.	Construction	Section 4.2 (Local routeing and site plant vehicle routeing) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7),	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-18	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at junction 34 of the A14 in the AM and PM peak.	Construction Traffic Management Plan 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: 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) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-19	Chapter 19: Traffic and Transport	Construction traffic leads to temporary adverse impacts on driver delay at junction	Construction Traffic Management Plan	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and	DCO Schedule 3

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
	Table 5.3 - Securing Mitigation	34 of the A14 in the AM and PM peak.	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		sequence of assembly (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11)	DCO Schedule 2 Requirement 7 Detailed design
T-20	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10 approach of the Milton Interchange in the PM peak	<p>Construction Traffic Management Plan</p> <p>Implementation of 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:</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 <p>Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours</p> <p>Section 6.5 of the CTMP (Deliveries) which requires the management of deliveries through a scheduling system to avoid AM PM peaks</p>	Construction	Sections 6.4 (Vehicle scheduling), 6.5 (Delivery scheduling), and Section 7.2 (Monitoring Strategy) of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-21	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Construction Worker Travel Plan</p> <p>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.</p>	Construction	Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-22	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1) and CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
T-23	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> • 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 7.2 of the CTMP requires that the Principal Contractor(s) will implement a system for monitoring 	Construction	Sections 6.3 (Adherence to dedicated routes), 6.4 (Vehicle scheduling), 6.5 (Delivery scheduling), 6.9 (Facilitate safe movement of users of the highway (including non-motorised	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>the movement of 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 – Section 6.4 of the CTMP (Vehicle Scheduling) which requires adherence to works hours 		users), and Section 7.2 (Monitoring Strategy) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	measures set out in the construction traffic management plan
T-24	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts on driver delay at the A10/Car Dyke Road junction, and A10 / Denny End Road in the AM peak.	<p>Code of Construction Practice</p> <p>Requirement within the CoCP Part A section 3 (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 construction activity, construction vehicle movements.</p>	Construction	Section 3 of COCP Part A (App Doc Ref 5.4.2.2) Community Liaison Plan (App Doc Ref 7.8)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan, and a detailed community liaison plan which must accord with the measures set out in the community liaison plan
T-25	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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.	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Document Ref 5.4.2.1, 5.4.2.2) Part A (Traffic and Transport) which includes measures for temporary traffic control</p>	Construction	Sections 4,4 (CEMP) para 4.4.4 and 3 (Community and Stakeholder Engagement) of COCP Part A (App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-26	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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.	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP 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 	Construction	Sections 6.3 (Adherence to designated routes) and 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) of the Construction Traffic Management Plan (App Doc Ref 5.4.19.7),	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Section 6.9 requirement for speed restrictions to Burgess's Drive, Bannold Drive 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. 			
T-27	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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.	<p>Construction Worker Travel Plan</p> <p>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.</p>	Construction	Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-28	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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.	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 (Traffic and Transport) of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRow during the construction period.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan
T-29	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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.	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP 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 <p>Section 6.9 (Facilitate safe movement of users of the highway (including NMUs) which requires junction widening at:</p> <ul style="list-style-type: none"> Bannold Road / Bannold Drive Bannold Road / Burgess's Drive Burgess's Drive <p>Section 6.9 requirement for speed restrictions to Burgess's Drive, Bannold Drive and Bannold Road as well as Clayhithe Road will be put in place in accordance with the Temporary Traffic Regulation Order set out in the draft DCO</p>	Construction	Sections 6.3 (Adherence to dedicated routes), 6.4 (Vehicle scheduling), 6.5 (Delivery scheduling), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users), and Section 7.2 (Monitoring Strategy) of the Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>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:</p> <ul style="list-style-type: none"> • Documented pre-commencement meetings with the site management team as a contractual requirement; • Active traffic management; and <p>FORS and CLOCS accreditation</p>			
T-30	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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 Drove, Bannold Drove, Burgess's Drove, Fen Road.	<p>Construction Traffic Management Plan and Community Liaison Plan</p> <p>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 construction activity, construction vehicle movements..</p>	Construction	Sections 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 DCO Schedule 2 Requirement 9 CEMP
T-31	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Design – Accesses</p> <p>Appropriate design of temporary connections from works areas to the road network in accordance with local highways standards</p>	Construction	ES Chapter 2 Sections 2 para 2.9.3 and 3.1 3.1 Construction phasing and sequence of assembly (App Doc Ref 5.2.2) Design Plans - Highways and Site Access (App Doc Ref 4.11) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 7- Detailed design
T-32	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Construction Worker Travel Plan</p> <p>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.</p>	Construction	Construction Workers Travel Plan (Appendix 19.9, App Doc Ref 5.4.19.9)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
T-33	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary adverse impacts to users of cycling routes, public rights of way, footways, and roads	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 (Traffic and Transport) of the CoCP Part A which includes measures for temporary traffic control and measures manage the impact upon users of the PRoW during the construction period.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		accessing locations along all roads used as the construction route (that do not meet the criteria in IEMA rule 2)				
T-34	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Construction Traffic Management Plan</p> <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	<p>Sections 4.4 (CEMP), 6.3 (Adherence to Designated Routes) and 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
T-35	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Code of Construction Practice and Community Liaison Plan</p> <p>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 construction activity, construction vehicle movements</p>	Construction	<p>Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan,</p>
T-36	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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>Code of Construction Practice</p> <p>Implementation of section 7.7(Traffic and Transport) of the CoCP Part A 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	<p>Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p>
T-37	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Construction traffic leads to temporary delay to users of PRow due to gated controlled access on PRow intersected by works	<p>Code of Construction Practice</p> <p>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:</p>	Construction	<p>Section 3, CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP a detailed community liaison</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		corridor and construction activities	<ul style="list-style-type: none"> communication of changes to access because of PRoW realignment or diversion communication of construction activity, construction vehicle movements. Requirement to appoint CLO Requirement to implement approved CLP 			plan which must accord with the measures set out in the community liaison plan,
T-38	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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>Code of Construction Practice</p> <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>Sections 4.4 (CEMP) CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Rights of Way Plans (App Doc Ref 4.6)</p> <p>Sections 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring and scheduling) of Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<p>DCO Schedule 2 Requirement 10 – Outfall management and monitoring plan</p> <p>DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
T-39	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> 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 restrictions and the use of banks persons 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 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 	Construction	<p>Sections 4.4 (CEMP) CoCP Part A and 3.1 CoCP Part B(Appendix 2.1, App Doc Ref 5.4.2.1 & 5.4.2.2)</p> <p>Sections 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring and scheduling) of Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p> <p>Rights of Way Plans (App Doc Ref 4.6)</p>	DCO Schedule 2 Requirement 9 CEMP including a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>reinstate any areas of footpath affected by the works and to maintain the existing alignment/gradient as much as is practicable</p> <ul style="list-style-type: none"> – 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 the draft DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders) <p>Section 7.2 which 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:</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 			
T-40	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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>Code of Construction Practice and Community Liaison Plan</p> <p>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</p>	Construction	Section 3, 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 DCO Schedule 2 Requirement 9 CEMP – which must include a detailed community liaison plan which must accord with the measures set out in the community liaison plan
T-41	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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 do not meet Rule 2)	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 of the CoCP Part A and B (Appendix 2.1 & 2.2, App Doc Ref: 5.4.2.1, 5.4.2.2) 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.</p>	Construction	Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
T-42	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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 do not meet Rule 2)	<p>Code of Construction Practice</p> <p>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</p>	Construction	Sections 3, 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 DCO Schedule 2 Requirement 9 CEMP – which must include a detailed community liaison plan which must accord with the measures set out in the community liaison plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
T-43	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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 do not meet Rule 2)	<p>Construction Traffic Management Plan</p> <p>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.</p> <p>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:</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 	Construction	<p>Sections 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 4.2 (Local routeing and site plant vehicle routeing) and 7.2 (Monitoring strategy) of CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP (2)(a)(vii) a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>
T-44	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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)	<p>Code of Construction Practice</p> <p>Implementation of section 7.7 Traffic and Transport) which of the CoCP Part A (includes measures for temporary traffic control.</p>	Construction	<p>Sections 3 (Community & Stakeholder Engagement), 4.4 (CEMP) and 7.7 (Traffic and transport) of CoCP Part A CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Community Liaison Plan (App Doc Ref 7.8)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan</p>
T-45	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> • 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. • 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 alignment/gradient as much as is practicable • 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 restrictions and the use of banks persons – requires that speed restrictions to Burgess's Drove, Bannold Drove and Bannold Road as well as 	Construction	<p>Sections 4.2 (Local routeing and site plant vehicle routeing), 6.9 (Facilitate safe movement of users of the highway (including non-motorised users)) and 7.2 (Monitoring and scheduling) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>Clayhithe Road to be put in place for the duration of the works in accordance with the Temporary Traffic Regulation Order set out in the draft DCO (the detail of which will be subject to agreement with Cambridgeshire County Council and any other relevant stakeholders)</p> <ul style="list-style-type: none"> – requires temporary parking restrictions on Bannold Road junction with Denny End Road / Car Dyke Lane for the duration of the Waterbeach pipeline construction • 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 			
T-46	Chapter 19: Traffic and Transport Table 5.2 - Securing Mitigation	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	<p>Code of Construction Practice</p> <ul style="list-style-type: none"> • Requirement within section 3 (Community & Stakeholder Engagement) of the CoCP Part to appoint a Community Liaison Officer responsible for ensuring that relationships and lines of communication are maintained throughout the construction period including: <ul style="list-style-type: none"> – communication of traffic management activities and management of safety concerns raised by the community, residents and businesses – communication of changes to access because of PRow realignment or diversion 	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 DCO Schedule 2 Requirement 9 CEMP a detailed community liaison plan which must accord with the measures set out in the community liaison plan,
T-47	Chapter 19: Traffic and Transport Table 5.2 - Securing Mitigation	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)	<p>Construction Traffic Management Plan</p> <p>Implementation of the CTMP in particular</p> <ul style="list-style-type: none"> • 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 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 6.3 Adherence to Designated Routes • 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 	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) and 7.2 (Monitoring and scheduling) Construction Traffic Management Plan (Appendix 19.7, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP a detailed construction traffic management plan which must accord with the measures set out in the construction traffic management plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>investigated appropriately. Where relevant, accidents and near misses will be reported to relevant highways stakeholders by the CLO.</p> <ul style="list-style-type: none"> 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 			
T-48	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Operational traffic contributes to overall traffic and contributes to future delay	<p>Operational Worker Travel Plan</p> <p>Implementation of Operational Worker Travel Plan to reduce vehicle movements to and from the proposed WWTP</p> <p>Monitoring of the Operational Workers Travel Plan (OWTP) will be a requirement of CCC for a 5-year period</p>	Operation	Operational Workers Travel Plan (Appendix 19.8, App Doc Ref 5.4.19.8)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 19 Operational Logistics Traffic Plan
T-49	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	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	<p>Operational Logistics Traffic Plan</p> <p>Controlled through the Operational Logistics Traffic Plan and requirements in relation coordination of vehicle movements in line with the regulations for notifying authorities of abnormal loads</p> <p>Approval and implementation of an Operation Transport Logistics Plan</p>	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19)	DCO Schedule 2 Requirement 19 Operational Logistics Traffic Plan
T-50	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Operational vehicle movements and the presence of the new connection to the Horningsea Road junction leads to adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>ANPR Camera</p> <p>Permanent Automatic Number Plate Recognition (ANPR) cameras will be installed at the proposed Cambridge WWTP site access on Horningsea Road once the proposed Cambridge WWTP site access is operational (subject to approval by Cambridgeshire County Council as the Local Highways Authority and any other relevant stakeholders).</p>	Operation	Section 7.2 (Monitoring Strategy) CTMP (Appendix 19.4, App Doc Ref 5.4.19.7)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 7 - Detailed design
T-51	Chapter 19: Traffic and Transport Table 5.3 - Securing Mitigation	Operational vehicle movements and the presence of the new connection to the Horningsea Road junction leads to adverse effect on fear and intimidation for pedestrians and cyclists travelling along Horningsea Road	<p>Operational Transport Logistics Plan</p> <p>Management of vehicle movements through application of measures within Operational Logistics Traffic Plan including scheduling of deliveries and monitoring of vehicle movements including through use of ANPR data .</p>	Operation	ES Chapter 19 Traffic and Transport Table 5-3 (App Doc Reg 5.2.19)	DCO Schedule 2 Requirement 19 Operational Logistics Traffic Plan

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
W-1	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of accidental spills to groundwater quality while relocating rising mains and gravity sewers at the existing Cambridge WWTP	<p>Code of Construction Practice</p> <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 Part A 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 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 used for the works to be undertaken within designated areas (unless expressly stated within the CEMPs) where spillage can be more easily contained 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14, (Watercourses/drainage channels), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3 CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.1)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP (</p>
W-2	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of below-ground structures and areas of hardstanding, on drainage in the WWTP, and recharge and groundwater in the aquifer.	<p>Surface Water Drainage Design</p> <p>Incidences of emergent groundwater will be managed by surface water drainage design.</p> <p>Detailed surface water drainage design will comply 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:</p> <ul style="list-style-type: none"> provide a segregated drainage system for the proposed WWTP in areas of potential contamination. determine 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)	DCO Schedule 2 Requirement 15 – Drainage
W-3	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of cofferdam, used to maintain dry conditions during outfall construction, on water quality of the River Cam	<p>Code of Construction Practice</p> <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 Part A 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	Sections 4.4 (CEMP) Para 4.4.4, Section 5.13 (River work), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	<p>DCO Schedule 2 Requirement 7 -Detailed design</p> <p>DCO Schedule 2 Requirement 9 (2)(a)(vi) CEMP to include detailed WQMP, Requirement 9</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<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 & 2.2, App Doc Ref 5.4.2.1, 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 control of dewatering discharge rates to prevent scour 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. <p>Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering</p>		<p>Section 3.3 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2)</p>	<p>(2)(b)(vi) CEMP to include detailed WQMP</p> <p>Environmental permit</p>
W-4	<p>Chapter 20: Water Resources</p> <p>Table 5.2 - Securing Mitigation</p>	<p>Impact of construction sites increasing surface water flood risk by increasing surface water runoff during periods of heavy rainfall</p>	<p>Code of Construction Practice</p> <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 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 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>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 reflected in an appended plan to/as part of the CEMP. This will include the following:</p>	Construction	<p>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)</p> <p>Section 3.1, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Requirement 9 - CEMP to include detailed WQMP and a detailed PICP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> • requirement to minimise construction period for sections identified within the flood zone • the timing of river crossing works in summer months if possible • requirement for a flood management plan for construction works within areas at risk of flooding • Inclusion of dry access/egress routes for pedestrians from compounds • requirement for any soil temporarily stored within the flood zone, to include gaps to allow flood water to run through 			
W-5	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of dewatering during construction of the TPS shaft on groundwater levels at nature conservation sites.	<p>Code of Construction Practice</p> <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 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 practice measures in relation to management of 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 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	<p>Sections 4.4 (CEMP), Section 7.5 (Water resources and flood risk (dewatering)), and 5.7 (Pollution Incident Control Plan) CoCP Part A (Appendix 2.2, App Doc Ref 5.4.2.1)</p> <p>Section 3.1 of CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Requirement 9 - CEMP to include detailed WQMP</p>
W-6	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of dewatering during outfall construction on groundwater and surface water flows and levels	<p>Code of Construction Practice</p> <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 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 practice 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	<p>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)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Approval of the detailed design, construction risk assessment and method statement in relation to outfall construction and dewatering 			
W-7	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of dewatering of the West Melbury Marly Chalk Formation on groundwater levels during construction of the TPS shaft	<p>Groundwater monitoring</p> <p>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.</p>	Construction	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 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 - CEMP to include detailed WQMP
W-8	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of dewatering of the West Melbury Marly Chalk Formation on watercourses including the River Cam, Black Ditch and Quy Water, during construction of the TPS shaft.	<p>Groundwater monitoring</p> <p>Management of dewatering on the changes to groundwater through the 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.</p>	Pre Construction Construction Operation	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.5 (Water resource and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Section 3.1 CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p> <p>ES Chapter 20: Water Resources Section 4 (App Doc Ref 5.2.20)</p>	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 - CEMP to include detailed WQMP DCO Schedule 2 Requirement 22 – Operational Water Quality Monitoring Plan
	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of dewatering of West Melbury Marly Chalk Formation on a surface water abstraction for agriculture (spray irrigation) in Black Ditch	<p>Groundwater management</p> <p>Management of dewatering on the changes to groundwater through:</p> <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. 	Construction	<p>Sections 3.3, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p> <p>Community Liaison Plan (CLP) (App Doc Ref 7.8)</p>	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 - CEMP to include detailed WQMP DCO Schedule 2 Requirement 22 – Operational Water Quality Monitoring Plan
W-9	Chapter 20: Water Resources Table 5.2 - Securing Mitigation		<p>Groundwater monitoring</p> <p>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</p>	Pre construction Construction Operation	Sections 4.4 (CEMP) Para 4.4.4, and 7.5 (Water resource and flood risk), CoCP Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>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.</p> <p>The scope of the monitoring including its duration will be agreed with all relevant stakeholders before commencement of works which could potentially impact the ditch.</p>		<p>Section 3.1 CoCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p> <p>ES Chapter 20:Water Resources Section 4 (App Doc Ref 5.2.20)</p>	<p>Requirement 9 - CEMP to include detailed WQMP</p> <p>DCO Schedule 2 Requirement 22 – Operational Water Quality Monitoring Plan</p>
W-10	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of excavation and backfill of stormwater and final effluent pipeline trenches on land drains and groundwater flow	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Application Document 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 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 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Requirement 9 - CEMP to include detailed WQMP and a include detailed PICP</p>
W-11	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of excavation and backfill of Waterbeach pipeline trench on land drains and groundwater flow	<p>Code of Construction Practice</p> <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. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>Requirement 9 - CEMP to include detailed WQMP and a detailed PICP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<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. 			
W-12	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of leakage from Waterbeach pipeline to groundwater quality	<p>Design Features and Construction Methods</p> <p>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>	Construction	ES Chapter 2:Project Description section 3.4, Construction techniques and methodology para 3.4.49 (App Doc Ref 5.2.2) Commissioning Plan (Appendix 2.4, App Doc Ref 5.4.2.4)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
W-13	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of leakage from Waterbeach pipeline to groundwater quality	<p>Code of Construction Practice</p> <p>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.</p>	Construction	Sections 3.4, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2) Sections 3.4, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP which includes measures to safeguard private supply Requirement 9 - CEMP to include detailed WQMP Requirement 9 - CEMP to include detailed PICP,
W-14	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of minor inflows of groundwater to shafts or outflow of wastewater from the TPS shaft	<p>Groundwater monitoring</p> <p>Management of potential changes to groundwater through monitoring of groundwater to detect change in water quality to trigger further control measures in the unlikely event that there are incidences of contamination from leaks from operation of the proposed WWTP.</p>	Operation	ES Chapter 20 Water Resources Section 4.1 para 4.1.105 (App Doc Ref 5.2.20) ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) ES Chapter 20:Water Resources Section 4 (App Doc Ref 5.2.20)	Requirement 9 - CEMP to include detailed WQMP DCO Schedule 2 Requirement 22 – Operational Water Quality Monitoring Plan
W-15	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	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>Environmental management system</p> <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. The 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 hard-standing.</p> <p>Measures for continuous control of site activities during the operation and maintenance of the proposed WWTP through operational</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>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.</p> <p>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>			
W-16	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	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>Surface Water Drainage Design</p> <p>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</p> <p>provide a segregated drainage system for the proposed WWTP in areas of potential contamination within the proposed WWTP.</p> <p>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.</p>	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 7 -Detailed design</p> <p>DCO Schedule 2 Requirement 15 - Drainage</p>
W-17	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	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>Environmental monitoring – water</p> <p>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.</p>	Operation	<p>ES Chapter 20:Water Resources Section 4 (App Doc Ref 5.2.20)</p> <p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p>	DCO Schedule 2 Requirement 22 – Operational Water Quality Monitoring Plan
W-18	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of the Waterbeach transfer pipeline river crossings to the River Cam water quality and flow	<p>Code of Construction Practice</p> <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 Part A 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 river crossings:</p> <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. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.4, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Requirement 9 - CEMP to include detailed WQMP and detailed PICP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> the use of trenchless techniques to install structures below the river-bed 			
W-19	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality.	<p>Code of Construction Practice</p> <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 Part A 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 pollution prevention and the protection of groundwater 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 under construction plant and equipment, provision of spill kits requirement for emergency response measures to be in place including stopping works, training of staff, use of spill response equipment 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.3, CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>Requirement 9 - CEMP to include detailed WQMP and detailed PICP</p>
W-20	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact of wet testing of tanks and pipes within proposed WWTP on groundwater quality.	<p>Commissioning Management Plan</p> <p>Management of commissioning activities through application of measures within the outline Commissioning Plan (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 (secured through requirements in the DCO), which will collectively secure deliver appropriate mitigation of the wet commissioning activities.</p>	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, and 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (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>DCO Schedule 2 Requirement 8 - CoCP</p> <p>Requirement 9 - CEMP to include detailed WQMP and detailed PICP</p>
W-21	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to fluvial flood risk due to construction of the outfall	<p>Code of Construction Practice</p> <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. 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.13 (River work), 7.5 (Water resources and flood risk) within Code of Construction Practice (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>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>Requirement 9 - CEMP to include detailed WQMP and detailed PICP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> 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 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. <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>		Section 3 COCP Part B (Appendix 2.1, App Doc Ref 5.4.2.2)	
W-22	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Code of Construction Practice</p> <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 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 	Construction	<p>Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)</p> <p>Sections 3.4 CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)</p> <p>ES Chapter 2 Project description para 2.12.9 (App Doc Ref 5.2.2)</p>	<p>DCO Schedule 2 Requirement 8 CoCP</p> <p>DCO Schedule 2 Requirement 9 CEMP</p> <p>Requirement 9 - CEMP to include detailed WQMP and detailed PICP</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> 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 			
W-23	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Code of Construction Practice</p> <p>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</p>	Construction	Sections 3.4 CoCP Part B (Appendix 2.2, App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including measures to safeguard private water supply
	Chapter 20: Water Resources	Impact to groundwater quality due to construction of interception Shaft 1 and intermediate Shafts 2 and 3.	<p>Code of Construction Practice</p> <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 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), 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 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. 	Construction	Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1) Sections 3.4 CoCP Part B (Appendix 2.2 App Doc Ref 5.4.2.2)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP Environmental Permit (Flood Risk Activities & Water Discharge) or in case of dewatering working within a Regulatory Position Statement issued by the Environment Agency Environmental Permit (Abstraction) Requirement 9 - CEMP to include detailed WQMP and detailed PICP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> • 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. 			
	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to groundwater quality in the event of accidental wastewater spills during connection of the transfer tunnel to the existing Riverside tunnel.	<p>Code of Construction Practice</p> <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 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 (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 emergency response measures including stopping works, training of staff, use of spill response equipment</p>	Construction	Sections 4.4 (CEMP) Para 4.4.4, Section 5.14 (Watercourses and drainage), 7.5 (Water resources and flood risk) within Code of Construction Practice (CoCP) Part A (Appendix 2.1, App Doc Ref 5.4.2.1)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 - CEMP to include detailed WQMP and detailed PICP
W-24	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to residential receptors and surface drains which discharge to Black Ditch, due to surface water runoff from hard surfaces within the proposed WWTP	<p>Environmental Management System</p> <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>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.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental Permit
W-25	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to groundwater abstractions due to dewatering of open-cut trenches during Waterbeach pipeline installation	<p>Surface Water Drainage Design</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), which sets out design requirements for surface water drainage including measures 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 incorporates sustainable drainage features 	Operation	Drainage Strategy (Appendix 20.12, App Doc Ref 5.4.20.12).	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 7 -Detailed design DCO Schedule 2 Requirement 15 - Drainage

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<ul style="list-style-type: none"> Inclusion of segregated drainage system in areas of potential contamination with the proposed WWTP required by the surface water drainage strategy 			
W-26	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impact to superficial and bedrock groundwater flows and levels, due to dewatering of open-cut trenches during the FE and Storm Pipeline installation	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, Application Document 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 best practice measures 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 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 	Construction	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)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
W-27	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impacts of spillages of potentially contaminating materials used in construction, and the potential for construction-related turbidity, giving rise to contamination of groundwater.	<p>Code of Construction Practice</p> <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 best practice measures in relation to the prevention of impacts to controlled waters (as defined within in Section</p>	Construction	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)	DCO Schedule 2 Requirement 8 CoCP Requirement 9 - CEMP to include detailed WQMP and detailed PICP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<p>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"> • 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 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 			
W-28	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impacts of spillages of potentially contaminating materials used in construction, and the potential for construction-related turbidity, giving rise to contamination of groundwater.	<p>Groundwater monitoring</p> <p>Monitoring of water quality 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</p> <p>Requirement for operational management and monitoring plans to include specific provision for water quality monitoring at the specified locations through a requirement of the draft DCO (App Doc Ref 2.1).</p>	Pre Construction Construction Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	DCO Schedule 2 Requirement 8 CoCP Requirement 9 - CEMP to include detailed WQMP and detailed PICP DCO Schedule 2 Requirement 22 – Operational Water Quality Monitoring Plan
W-29	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impacts to surface water quality from spillages of contaminants and from discharges of silt-laden water from dewatering activities.	<p>Code of Construction Practice</p> <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 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 	Construction	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)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 - CEMP to include detailed WQMP and detailed PICP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			<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. 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 <p>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.</p>			
W-30	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	Impacts to water quality in watercourses close to the Waterbeach pipelines due to discharge of fluids used for pipeline testing	<p>Code of Construction Practice</p> <p>Management of construction activities as described within the CoCP Part A and B (Appendix 2.1 & 2.2, Application Document 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 best practice measures including:</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. 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 	Construction	Sections 4.4 (CEMP) para 4.4.4, 7.4 (Land Quality (Drilling Fluid Breakout)), 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 8 CoCP DCO Schedule 2 Requirement 9 CEMP Requirement 9 - CEMP to include detailed WQMP and detailed PICP

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			Clean water will be used for pressure testing. Chlorine will be removed prior to discharge according to Environment Agency permit conditions.			
W-31	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	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>Provision of Water Supply</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> <p>Construction Code of Practice - Environmental monitoring</p> <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>	Pre construction Construction	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)	No derogation agreement DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP including measures to safeguard private water supply Requirement 9 - CEMP to include detailed WQMP
W-32	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	<p>Outfall Design</p> <p>Design measures to prevent or minimise scour and impacts from operation of the outfall are:</p> <ul style="list-style-type: none"> 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	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13)	Environmental Permit (flood risk activities) DCO Schedule 2 Requirement 7 - Detailed design
W-33	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	The impact of treated effluent discharge (comprising final effluent and stormwater flows) from the proposed outfall on River Cam hydromorphology	<p>Outfall Design</p> <p>Design measures to prevent or minimise scour and impacts from operation of the outfall are:</p> <ul style="list-style-type: none"> 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	ES Chapter 2 Project Description Section 2.12 The Outfall 2 (App Doc Ref 5.2.2) Design Plans – Outfall (App Doc Ref 4.13) Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	DCO Schedule 2 Requirement 7 Detailed Design DCO Schedule 2 Requirement 10 Outfall Management and Monitoring Plan
W-34	Chapter 20: Water Resources Table 5.2 - Securing Mitigation	The impact of treated effluent discharge (comprising final effluent	<p>Outfall Management and Monitoring Plan</p> <p>A requirement to prepare and implement and outfall management and monitoring plan covering the operation of the outfall to include a</p>	Operation	ES Chapter 2 Project Description Section 2.12	DCO Schedule 2 Requirement 10 - Outfall

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
		and stormwater flows) from the proposed outfall on River Cam hydromorphology	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.		The Outfall 2 (App Doc Ref 5.2.2) Outline Outfall Management and Monitoring Plan (App Doc Ref 5.4.8.24)	Management and Monitoring Plan
CE-1	Chapter 21: Cumulative Effects Assessment Table 4 3: Potential cumulative effects during construction	Cumulative effect to habitats and protected species as a result of construction of the Proposed Development and relocation of the Waterbeach station	Code of Construction Practice Interface plan between the Proposed Development and the Waterbeach Station relocation project 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 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
CE-2	Chapter 21: Cumulative Effects Assessment Table 4 3: Potential cumulative effects during construction	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	Code of Construction Practice Interface plan 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 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
CE-3	Chapter 21: Cumulative Effects Assessment Table 4 3: Potential cumulative effects during construction	Cumulative traffic effects as a result of construction of the Proposed Development and relocation of the Waterbeach station occurring either concurrently or sequentially	Code of Construction Practice Interface plan between the Proposed Development and 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 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
CE-4	Chapter 21: Cumulative Effects Assessment Table 4 3: Potential cumulative effects during construction	Flood risk	Code of Construction Practice Requirement for interface plan between the Proposed Development 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 21 Table 4-2 and Table 4-3 (App Doc Ref 5.2.21)	DCO Schedule 2 Requirement 8 CoCP DCO Schedule 2 Requirement 9 CEMP
CE-5	Chapter 22 Major accidents	Event risk of land slip or earth bank failure	Design The earth bank will be designed and constructed according to industry best practice earthworks standards. Drainage Strategy The earth bank would be designed to have effective drainage. Landscape Masterplan Earth bank is subject to ongoing monitoring as part of the Landscape Ecology and Recreation Management Plan (LERMP) which would be applied for 30 years as a minimum as part of the biodiversity net gain (BNG) obligation (Application Doc Ref 5.4.8.14).	Operation	Design Parameters of the draft DCO (App Doc Ref 2.1) LERMP (App Doc Ref 5.4.8.14) Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 4 – Parameters DCO Schedule 7 Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
MA-1	Chapter 22 Major accidents	Event risk of land slip or earth bank failure	<p>Operational Management</p> <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>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental permit
MA-2	Chapter 22 Major accidents	Event risk – aviation hazards	<p>Operational Management</p> <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	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2) Wildlife Hazard Management Plan (Application Doc ref 5.4.18)	Environmental permit
MA-3	Chapter 22 Major accidents	Event risk – aviation hazards (buildings, solar and lighting installations)	<p>Design</p> <p>Structures have been minimised to avoid the 55.82m Above Ordnance Datum (AOD) threshold indicated by the operators of Cambridge Airport.</p> <p>Lighting Strategy</p> <p>The Lighting Design Strategy (Application Document Reference 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	Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 4 – Parameters DCO Schedule 2 Requirement 7 – Detailed design
MA-4	Chapter 22 Major accidents	Event risk- fire or explosion: storage of Liquefied Natural Gas(LNG)	<p>Design</p> <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	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)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 4 – Parameters DCO Schedule 2 Requirement 7 – Detailed design

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
MA-5	Chapter 22 Major accidents	Event risk- fire or explosion: anaerobic digester	<p>Design</p> <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. Inclusion of emergency flare in design 	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>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 4 – Parameters</p> <p>DCO Schedule 2 Requirement 7 – Detailed design</p>
MA-6	Chapter 22 Major accidents	Event risk- fire or explosion: anaerobic digester	<p>Design</p> <p>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.</p>	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>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 4 – Parameters</p> <p>DCO Schedule 2 Requirement 7 – Detailed design</p>
MA-7	Chapter 22 Major accidents	Event risk- fire or explosion: anaerobic digester	<p>Biogas Holder Design</p> <p>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.</p>	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>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 4 – Parameters</p> <p>DCO Schedule 2 Requirement 7 – Detailed design</p>
MA-8	Chapter 22 Major accidents	Event risk- fire or explosion: anaerobic digester	<p>Operational Management Systems</p> <p>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)</p>	Operation	<p>ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)</p> <p>Design Parameters of the draft DCO (App Doc Ref 2.1)</p>	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 4 – Parameters</p> <p>DCO Schedule 2 Requirement 7 – Detailed design</p>
MA-9	Chapter 22 Major accidents	Event risk- fire or explosion: battery storage	<p>Design</p> <p>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.</p>	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</p>	<p>DCO Schedule 2 Requirement 7 - Detailed design</p> <p>DCO Schedule 2 Requirement 4 – Parameters</p>

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
					Development (App Doc Ref 5.2.22) Design Parameters of the draft DCO (App Doc Ref 2.1)	DCO Schedule 2 Requirement 7 – Detailed design
MA-10	Chapter 22 Major accidents	Event risk- fire or explosion: battery storage	Operational Management Systems 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.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental permit
MA-11	Chapter 22 Major accidents	Event risk- fire or explosion: battery storage	Drainage Design 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.	Operation	Drainage Strategy (App Doc Ref 5.4.20.12)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 7 – Detailed design DCO Schedule 2 Requirement 14 – Drainage design
MA-12	Chapter 22 Major accidents	Event risk – Compromised site security	Design 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. Physical security design measures following NSPA guidance (NSPA, 2023) will be incorporated to ensuring the site is secure from unauthorized personnel.	Operation	ES Chapter 2 Project Description section 2.13 Further associated 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)	DCO Schedule 2 Requirement 7 - Detailed design DCO Schedule 2 Requirement 4 – Parameters DCO Schedule 2 Requirement 7 – Detailed design
MA-13	Chapter 22 Major accidents	Event risk – Compromised site security	Operational Management Systems 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. Visitors to the Discovery Centre will be by appointment only.	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental permit
MA-14	Chapter 22 Major accidents	Event risk – Compromised cyber security	Software Design	Operation	ES Chapter 2 Project Description section 2.13 Further associated development and site-wide	Environmental permit

Ref	Source	Description of impact	Mitigation measure	Phase	Reference document	Securing mechanism
			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).		provisions, Fencing and security (App Doc Ref 5.2.2)	
MA-15	Chapter 22 Major accidents	Event risk – Compromised cyber security	<p>Operational Management Systems</p> <p>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.</p>	Operation	ES Chapter 2 Project Description Section 5.1 Operation, Operational environmental management (App Doc Ref 5.2.2)	Environmental permit DCO Schedule 2 Requirement 7 – Detailed design
MA-16	Chapter 22 Major accidents	Event risk – extreme events (storms and heat events)	<p>Design</p> <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>	Operation	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 7 - Detailed design DCO Schedule 2 Requirement 7 – Detailed design DCO Schedule 2 Requirement 14 – Drainage

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/>