

# Norwich Western Link Environmental Statement Chapter 12: Road Drainage and the Water Environment

Appendix 12.7: Road Drainage and the Water Environment In-Combination Assessment

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## **1** In-Combination Assessment

- 1.1.1 This Appendix assesses the in-combination effects of the Proposed Scheme in relation to Road Drainage and the Water Environment.
- 1.1.2 In-combination effects are defined as: the combined effects of a number of different projects in the vicinity of the Proposed Scheme (in combination with the Proposed Scheme) on a common sensitive receptor category and / or a single receptor / resource.
- 1.1.3 The following table presents the committed developments deemed to have the potential for significant effects in combination with the Proposed Scheme, and assesses the likelihood of any significant effects in regards to Road Drainage and the Water Environment. Information on the assessment methodology can be found in **Chapter 20: Cumulative Assessment** (Document Reference: 3.20.00).
- 1.1.4 The conclusions of this appendix are used to inform the assessment within **Chapter 20: Cumulative Assessment** (Document Reference: 3.20.00).



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S1	20201769	Retention of 42m x 42m concrete hardstanding, building and bagging machinery; proposed increase of existing hardstanding area for bark processing / storage and erection of storage building.	1.72km	Full Approval 08/01/2021	609150	315276	It is unlikely that sign road drainage and w would occur due to t development, the dis and no hydraulic cor Scheme.
S2	20211831	Change of use of existing land to a campsite with associated toilet and shower block and reception / office space.	990m	Full Approval 14/12/2021	614953	314234	It is unlikely that sign the road drainage an receptors would occ the development and Scheme. It is assum has been included w ensure no impacts o River Wensum.

#### Table 1.1 – In-Combination Assessment of Committed Development Short List

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- ignificant cumulative effects on water environment receptors the minor nature of the distance to the Proposed Scheme connectivity to the Proposed
- ignificant cumulative effects on and the water environment ccur due to the minor nature of and the distance to the Proposed imed that appropriate mitigation I within the development to s on groundwater resources or the



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S3	20172148	Residential Development of up to 93 Dwellings with Associated Access, Parking & Open Space (Outline).		Outline Approval 28/09/2018	615325	314396	It is unlikely that sign the road drainage and receptors would occur Proposed Scheme. mitigation has been development to ensure resources or the Rive sediment and pollution the construction of the were to occur at the Scheme this could pre- given the distance of Wensum it is assume Wensum would occur effect with the Proport
S4	20201332	Earth Bund directly north of the Northern Distributor Road (A1270), land that lies between the Fakenham Road and Fir Covert Road junctions.	845m	Full Approval 07/09/2020	615546	316118	It is unlikely that sign the road drainage and receptors would occo Proposed Scheme. appropriate mitigation development to ensu- resources or the Riv

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gnificant cumulative effects on and the water environment ccur due to the distance to the e. It is assumed that appropriate en included within the sure no impacts on groundwater River Wensum. Some increase in ution loading may occur during f this development. If construction ne same time as the Proposed pose cumulative risk. However of this scheme to the River med that no adverse effect to the cur and therefore no cumulative posed Scheme.

ignificant cumulative effects on and the water environment ccur due to the distance to the e. It is also assumed that tion has been included within the sure no impacts on groundwater River Wensum.



S5 2017178	82	Hybrid planning application (part outline, part detailed), made up of: 1. An	900m	Approval	615728	315228	
		application for outline planning permission for the erection of a Class A1 retail unit; a Class A3 / A4 public house / restaurant; Class A3 / A5 fast food restaurant; and a Class A1 / A3 / B1 lifestyle leisure unit. 2. An application for full planning permission for the construction of a supermarket (Class A1), together with associated access, car parking and landscaping. The supermarket will comprise a total of 2,206 square metres, gross external footprint, and will be served by a total of 129 car parking spaces (of which 7 would be disabled spaces, and 8 parent and child spaces).		12/02/2018			It is unlikely that sig the road drainage a receptors would occ Proposed Scheme. appropriate mitigation development to ensources or the Riv

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significant cumulative effects on and the water environment occur due to the distance to the e. It is also assumed that ation has been included within the nsure no impacts on groundwater River Wensum.



Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
	Proposed dual carriageway A47 North Tuddenham to Easton. Also PINS application (row 568) - Dualling of the single carriageway section of the A47 between Norwich and Dereham, linking together two existing sections of dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to be determined.	Om	Granted	Not applicable	Not applicable	Appendix 12.1 Drai Assessment (Docu included the A47 No scheme within the a discharges into the a discharges into the a of the scheme. The outfall has been ass routine runoff during concluded that appr within the design of Some increase in set the River Tud may of this scheme. If section the catchment of the the same time as the Easton scheme ther in sediment and poll robust mitigation is i is not considered like significant effect bey
		descriptionDCOProposed dual carriageway A47 North Tuddenham to Easton. Also PINS application (row 568) - Dualling of the single carriageway section of the A47 between Norwich and Dereham, linking together two existing sections of dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to be	descriptionDCOProposed dual carriageway A47 North Tuddenham to Easton. Also PINS application (row 568) - Dualling of the single carriageway section of the A47 between Norwich and Dereham, linking together two existing sections of dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to beOm	description       off         DCO       Proposed dual carriageway A47 North Tuddenham to Easton. Also PINS application (row 568) - Dualling of the single carriageway section of the A47 between Norwich and Dereham, linking together two existing sections of dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to be       Om       Granted	description       Image: Construct of the section of the south of the	descriptionofofofofDCOProposed dual carriageway A47 North Tuddenham to Easton. Also PINS application (row 568) - Dualling of the single carriageway section of the A47 between Norwich and Dereham, linking together two existing sections of dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to beOmGrantedNot applicableNot applicable applicabledescriptionProposed dual carriageway. The scheme will provide a new route to the south of Hockering and to the north of Honingham and include new junctions with locations yet to beImage: Carriageway is to beImage: Carriageway is to beImage: Carriageway is to be

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#### ainage Network Water Quality

cument Reference: 3.12.01) has North Tuddenham to Easton assessment as NWL Basin 6 e surface water drainage system e cumulative discharge from the ssessed in the assessment of ng operation. The assessment propriate mitigation is included of the Proposed Scheme.

sediment and pollution loading in occur during the construction of ctions of the Proposed Scheme in he River Tud are constructed at the A47 North Tuddenham to ere may be a cumulative increase ollution risk. However, assuming implemented by the contractor it likely that this would result in eyond that assessed in the EIA Scheme.



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S7	DCO	Hornsea Project Three Offshore Wind Farm	0m	Granted 31/12/20	Not applicable	Not applicable	It is assumed that an included within the diampacts on the River quantity of groundwar unlikely that significations would between the two schemes in see during construction is within the floodplain Wensum at the same Scheme. There is all cumulative WFD effer modifications to any watercourse channer assuming robust mittic contractor it is not corresult in significant effert the EIA for the Propertice in th
S8	20190021	<ul> <li>Part Change of Use from</li> <li>C3 to D2 for the Use of the</li> <li>Site as a Wedding Venue</li> <li>for up to 20 Weddings per</li> <li>Year &amp; Use of Buildings</li> <li>and Marquee in Association</li> <li>with Wedding Venue</li> <li>(Retrospective).</li> </ul>	800m	Approved 21/03/19	612994	314662	It is unlikely that sign the road drainage an receptors would occ the development.

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appropriate mitigation has been development to ensure no ver Wensum or to the quality or water receptors. As a result, it is icant cumulative effects on flood ld occur due to the distance chemes.

sediment and pollution loading if physical works are undertaken in or the river channel of the River me time as the Proposed also a risk that there could be effect if there are any ny riparian habitats or the nel are undertaken. However, nitigation is implemented by the considered likely that this would t effect beyond that assessed in posed Scheme.

gnificant cumulative effects on and the water environment ccur due to the minor nature of



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S9	2022/0509	Ground mounted solar photovoltaic (PV) farm with battery storage; along with continued agricultural use, ancillary infrastructure and security fencing, landscaping provision, ecological enhancements and associated works including underground cabling.	1.6km	Approval with Conditions 30/06/2022	609476	309832	It is unlikely that sign the road drainage an receptors would occ Proposed Scheme a the Proposed Schem
S10	DCO	Norfolk Boreas Offshore Wind Farm - onshore cable route.	6.3km	Granted	Not applicable	Not applicable	It is unlikely that sign the road drainage an receptors would occ Proposed Scheme, a standard mitigation t the River Wensum d
S11	DCO	Equinor Sheringham Shoal & Dudgeon Wind Farm Extension Project.	0m	Not yet approved	Not applicable	Not applicable	It is assumed that an included within the c impacts on the River quantity of groundwa unlikely that significa road drainage and th would occur.

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ignificant cumulative effects on and the water environment ccur due to the distance to the and no hydraulic connectivity to eme.

ignificant cumulative effects on and the water environment ccur due to the distance to the e, assuming the implementation of n to manage potential effects on during construction.

appropriate mitigation has been development to ensure no ver Wensum or to the quality or water receptors. As a result, it is icant cumulative effects on the I the water environment receptors



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S12	GNLP0337R	Allocation: This is a	1.3km	Allocation	615968	315466	It is unlikely that sig
		strategic-scale site well-		detailed in the			flood risk receptors
		related to the existing edge		Greater Norwich			to the Proposed Sch
		of Thorpe Marriott with no		Local Plan			appropriate mitigation
		major constraints to make					the surface water dr
		the site unsuitable for					Some increase in se
		development. The site will					during construction
		need to be masterplanned					within the floodplain
		to provide a local centre,					Wensum at the sam
		community and recreation					Scheme. There is a
		facilities including a school					cumulative WFD eff
		and medical care facility.					modifications to any
		Highway improvements will					watercourse channe
		be needed including					assuming robust mi
		provision of roundabout					contractor it is not c
		access at Fir Covert Road,					result in significant e
		priority access at Reepham					the EIA for the Prop
		Road and traffic signals at					
		the A1067 Fakenham Road					
		/ Fir Covert Road.					

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ignificant cumulative effects on s would occur due to the distance cheme. It is assumed that tion would be included regarding drainage system.

sediment and pollution loading n if physical works are undertaken in or the river channel of the River me time as the Proposed also a risk that there could be effect if there are any ny riparian habitats or the nel are undertaken. However, nitigation is implemented by the considered likely that this would t effect beyond that assessed in posed Scheme.



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S13	GNLP0159R	Allocation: This site off Beech Avenue is allocated with access via the adjacent site with planning permission (20191065) under the same land ownership. The total area allocated reflects the mature trees on site as well as other buildings shown on the site map below.	1.1km	Allocation detailed in the Greater Norwich Local Plan	615139	314276	It is unlikely that sign the road drainage and receptors would occur Proposed Scheme. mitigation would be development to ens resources or the Rive Some increase in se may occur during the development. If com- same time as the Pri pose cumulative risk this scheme to the Fino no adverse effect to therefore no cumulative Scheme.
S14	Complementary Sustainable Transport Measures (described in the <b>Sustainable</b> <b>Transport</b> <b>Strategy</b> (Document Reference: 4.02.00))		0m	Potential Application	612493	315136	It is unlikely that sign the road drainage and receptors would occ the development.

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ignificant cumulative effects on and the water environment ccur due to the distance to the e. It is assumed that appropriate e included within the sure no impacts on groundwater River Wensum.

sediment and pollution loading the construction of this onstruction were to occur at the Proposed Scheme this could sk. However given the distance of River Wensum it is assumed that to the Wensum would occur and lative effect with the Proposed

ignificant cumulative effects on and the water environment ccur due to the minor nature of



ID	Application Name and Reference	Applicant for 'Other development' and brief description	Distance from project	Status	Easting	Northing	Topic Assessment
S15	2023/2200	Excavation of soils to construct an irrigation reservoir at Wensum Valley Golf and Country Club.	150m	Approved 15/01/24	615320	314395	Some increase in set the River Wensum in construction of this Proposed Scheme in Wensum are construction Wensum Valley Hot cumulative increase However, assuming implemented by the likely that this would beyond that assess Scheme.
S16	2023/2575	Installation of pre construction field drainage to support the operation of the Hornsea Project Three onshore export cable route (EIA Development)	0m	Pending Consideration	612225	314262	It is assumed that a included within the changes to local so is unlikely that signi road drainage and t would occur.

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sediment and pollution loading in n may occur during the s scheme. If sections of the in the catchment of the River structed at the same time as the lotel scheme there may be a se in sediment and pollution risk. ng robust mitigation is he contractor it is not considered uld result in significant effect ssed in the EIA for the Proposed

appropriate mitigation has been e development to ensure no sources of flood risk. As a result, it nificant cumulative effects on the the water environment receptors