

West Winch Housing Access Road

Environmental Statement -Chapter 18: Summary

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18 Summary

18.1 Introduction

18.1.1 This chapter reports a summary of the outcome of the assessment of likely significant environmental effects arising from the Proposed Scheme from the Technical Chapters 6-16. The residual effects of the demolition and construction effects are temporary in nature whereas the effects of the operation of the Proposed Scheme are generally permanent in nature. This chapter is intended to be read as part of the wider Environmental Statement (ES), with particular reference to the introductory chapters (chapters 1 - 5) and technical chapters 6-16.

18.2 Summary of the EIA report

- 18.2.1 Table 18.1 presents a summary of the residual effects, together with any proposed secondary mitigation, for each technical discipline assessed within the ES (Chapters 6-16). The full assessment can be found within the relevant technical chapters of this ES. Specifically, the summary presents:
 - likely significant environmental effects considered (for the demolition, construction and operational stages);
 - sensitive receptors considered;
 - significance and nature of effects prior to mitigation / enhancement (pre-secondary mitigation / enhancement effects);
 - any proposed secondary mitigation / enhancement measures;
 - monitoring requirements; and
 - significance and nature of effects following mitigation enhancement (residual effects).



Table 18.1 – Summary of EIA Report

Table key: P / T = Permanent or Temporary, D / I = Direct or Indirect, ST / MT / LT = Short Term, Medium Term or Long Term, N/A = Not Applicable

Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significan
	Enhancement	Measures	Implemen
Chapter 6 - Air Quality	Chapter 6 - Air Quality	Chapter 6 - Air Quality	Chapter 6
Construction Phase	Construction Phase	Construction Phase	Construct
There are 335 residential properties	Negligible (Not significant)	No additional mitigation is required.	Negligible
(human receptors) and one ecological			
receptor (Sheep's Course Wood CWS)	T/D/ST		T / D / ST
with 200m of the Red Line Boundary.			
Operational Phase	Operational Phase	Operational Phase	Operation
Human receptors (residential properties)-	Negligible (Not significant)	No additional mitigation is required.	Negligible
A total of 58 representative human			
receptors have been included in this	P/D/LT		P/D/LT
assessment.			
Ecological receptors- There are six	Changes in ambient concentrations of NO _x and	Refer to Chapter 8: Biodiversity section of this	Refer to Cl
ecological sites and four veteran trees	NH ₃ , and nitrogen deposition. Beneficial and	table.	table.
within 200m of roads that are expected to	adverse impacts have been predicted.		
experience increased or reduced traffic			
levels as a result of the Proposed			
Scheme. Of the six ecological sites,			
several are affected by the changes on			
the affected road network in different			
locations, for example Sheep's Course			
Wood CWS which is bordered by both			
the Proposed Scheme and the A47 on			
opposite sides of the site.			
Chapter 7 – Archaeology and Heritage	Chapter 7 – Archaeology and Heritage	Chapter 7 – Archaeology and Heritage	Chapter 7
Construction Phase	Construction Phase	Construction Phase	Construct

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ance of Residual Effects (i.e. After the
entation of Mitigation / Enhancement)
6 - Air Quality
ction Phase
ole (Not significant)
Т
onal Phase
ole (Not significant)
Т
Chapter 8: Biodiversity section of this
7 –Archaeology and Heritage
ction Phase



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significance of Residual Effects (i.e. After the
	Enhancement	Measures	Implementation of Mitigation / Enhancement)
Features identified during trial trenching	Moderate Adverse effect (Significant)	Post-determination field evaluation leading to a	Negligible (Not significant)
2014 (A1e) Medium heritage value		programme of mitigation agreed by the Local	
	P/D/LT	Planning Authority's archaeology officer, if	
		required.	
Features identified during geophysical	Slight Adverse effect (Not significant)	Post-determination field evaluation leading to a	Negligible (Not significant)
survey 2023 (A1d).		programme of mitigation agreed by the Local	
Low heritage value	P/D/LT	Planning Authority's archaeology officer, if	
		required.	
Undated Linear Ditches (A1g)	Slight Adverse effect (Not significant)	Post-determination field evaluation leading to a	Negligible (Not significant)
Low heritage value		programme of mitigation agreed by the Local	
	P/D/LT	Planning Authority's archaeology officer, if	
		required.	
Possible medieval ditches and pits (A1I)	Slight Adverse effect (Not significant)	Post-determination field evaluation leading to a	Negligible (Not significant)
Low heritage value		programme of mitigation agreed by the Local	
	P/D/LT	Planning Authority's archaeology officer, if	
		required.	
Operational Phase	Operational Phase	Operational Phase	Operational Phase
18th Century Milestone (A1c)	Slight adverse effect (Not significant)	No additional mitigation is required.	Minor Adverse (Not significant)
Low heritage significance	P/D/LT		P/D/LT
Church of All Saints (Listed Grade I)	Slight Adverse effect (Not significant)	No additional mitigation is required.	Minor Adverse (Not significant)
High heritage significance	P /D / LT		P/D/LT
Church of Saint Mary (Listed Grade II*)	Slight Adverse effect (Not significant)	No additional mitigation is required.	Minor Adverse effect (Not significant)
High heritage significance	P/D/LT		P/D/LT
The Old Rectory (Listed Grade II)	Moderate Adverse effect (significant)	No additional mitigation is required.	Moderate Adverse effect (Significant)
Medium heritage significance	P/D/LT		P/D/LT



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
North Runcton Lodge (Listed Grade II)	Minor Adverse effect (Not significant)	No additional mitigation is required.	Minor Ac
Medium Heritage significance	P/D/LT		P/D/LT
Two Listed Buildings (Grade II)	Minor Adverse effect (Not significant)	No additional mitigation is required.	Minor Ac
Medium Heritage significance	P/D/LT		P/D/LT
Medieval moated enclosure within site of	Minor Adverse effect (Not significant)	No additional mitigation is required.	Minor Ad
Fincham Manor (Non-designated, under			
consideration of scheduling)	P/D/LT		P/D/LT
High heritage significance			
Manor Farm			
Low heritage significance			
Chapter 8 – Ecology	Chapter 8 – Ecology	Chapter 8 – Ecology	Chapter
Construction Phase	Construction Phase	Construction Phase	Construc
Statutory designated sites of international	N/A	No additional mitigation is required.	N/A
importance			
Statutory designated sites of national	N/A	No additional mitigation is required.	N/A
importance			
Non-statutory designated sites - Sheep's	Local	Dust management plan	Not sign
Course Wood CWS			

ance of Residual Effects (i.e. After the
entation of Mitigation / Enhancement)
dverse effect (Not significant)
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dverse effect (Not significant)
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dverse effect (Not significant)
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r 8 – Ecology
iction Phase
nificant



Sensitive Receptor	Significance of Effects Prior to Mitigation / Summary of Mitigation / Enhancement		Significa
	Enhancement	Measures	Impleme
Habitats	Local	Refinement of the Scheme Boundary and	Local
		construction area	
		Additional habitat creation included at detailed	
		design stage	
		Production of landscape and ecological	
		management plan	
Veteran Trees	Local	Tree protection measures	Not sign
Ancient Woodlands	N/A	No additional mitigation is required.	N/A
Invasive Non-Native Species (INNS)	N/A	Removal or burial of Japanese Knotweed and	N/A
		measures implemented to avoid spread outlined	
		within a Construction Environment Management	
		Plan (CEMP).	
Aquatic macroinvertebrates	Not significant	No additional mitigation is required.	Not signi
Fish	Not significant	No additional mitigation is required.	Not signi
Macrophytes	Not significant	No additional mitigation is required.	Not signi
Barn Owl	Local	Update surveys to inform detailed design and	Negligibl
		pre-construction surveys for active nest sites.	
		Provision of compensatory nest boxes and	
		removal/exclusion of barn owl (if required)	
		Provision of a CEMP	

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entation of Mitigation / Enhancement)
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Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Breeding birds	Local	Vegetation clearance outside of the nesting	Negligibl
		period or following mitigation measures under	
		supervision of Environmental Clark of Works	
		(ECoW)	
		Further habitat creation at detailed design	
		Production of a Landscape and Ecological	
		Management Plans (LEMP)	
Wintering birds	Local	Further habitat creation at detailed design	Negligibl
		Production of a LEMP	
Terrestrial Invertebrates	Local	Additional habitat features and planting plans to	Negligibl
		be developed	
Badgers	Local	Update surveys to inform requirement for sett	Negligib
		closure/avoidance	
		Sett closure under licence (if required)	
		Provision of a CEMP detailing mitigation	
		measures	

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entation of Mitigation / Enhancement)
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Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Bats – All species	Local	Update surveys as required	Local
		Provision of a CEMP detailing mitigation	
		measures	
		Soft felling/inspection of trees with suitability for	
		roosting bats	
		Replacement roost features	
		Landscaping/habitat compensation	
		Lighting mitigation to be detailed in CEMP	
Water Vole	Local	Avoidance measures detailed within CEMP	Negligib
		Licensed translocation/displacement if required.	
		Update surveys to inform detailed design and	
		mitigation measures	
Otter	N/A- Scoped out of assessment	N/A	N/A
Reptiles	Local	Production of a reptile mitigation strategy	Negligib
		detailing measures to translocate reptiles to an	
		offsite receptor area.	
		Reptile receptor site to be identified, surveyed	
		and secured	
Great Crested Newt	Local	Direct Level Licensing (DLL)	Negligib
Operational Phase	Operational Phase	Operational Phase	Operatio
Statutory designated sites of international	N/A	No additional mitigation is required.	N/A
importance			
Statutory designated sites of national	N/A	No additional mitigation is required.	N/A
importance			

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entation of Mitigation / Enhancement)		
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Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa	
	Enhancement	Measures	Impleme	
Non-statutory designated sites - Sheep's	Local	No additional mitigation is required.	Local	
Course Wood CWS				
Habitats	N/A – scoped out of assessment	No additional mitigation is required.	N/A	
Veteran Trees	Not significant	No additional mitigation is required.	Not Sign	
Ancient Woodland	Not Significant	No additional mitigation is required.	Not Sign	
INNS	N/A – scoped out of assessment	No additional mitigation is required.	N/A	
Aquatic macroinvertebrates	Not significant	No additional mitigation is required.	Not sign	
Fish	Not significant	No additional mitigation is required.	Not sign	
Macrophytes	Not significant	No additional mitigation is required.	Not sign	
Barn Owl	Not significant	No additional mitigation is required.	Not Sign	
Breeding birds	Not Significant	No additional mitigation is required.	Not Sign	
Wintering birds	Not Significant	No additional mitigation is required.	Not Sign	
Terrestrial Invertebrates	Not Significant	No additional mitigation is required.	Not Sign	
Badgers	Not Significant	Additional surveys will be undertaken to inform	Not Sign	
		detailed design and the requirement for wildlife		
		underpasses and fencing to reduce road collision		
		risk.		
Bats – All species	Local	Landscape mitigation features to reduce collision	Local	
		risk.		
		Lighting strategy to reduce lighting impacts upon		
		bat roosting, foraging and commuting routes.		
Water Vole	N/A	N/A	N/A	
Otter	N/A	N/A	N/A	
Reptiles	N/A	N/A	N/A	

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entation of Mitigation / Enhancement)		
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Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significance of Residual Effects (i.e. After the
	Enhancement	Measures	Implementation of Mitigation / Enhancement)
Great Crested Newt	Local	Optional mitigation to include:	Neutral
		Extension of DLL impact area, or	
		Detailed design measures including permanent	
		exclusion fencing and wildlife/amphibian	
		underpasses	
Chapter 9 – Landscape and Visual	Chapter 9 – Landscape and Visual	Chapter 9 – Landscape and Visual	Chapter 9 – Landscape and Visual
Construction Phase	Construction Phase	Construction Phase	Construction Phase
West Norfolk Landscape Character	Moderate- Minor	No additional mitigation proposed or available.	Moderate- Minor
Assessment:	(Not Significant)		(Not Significant)
E2: Saddlebow and Wormegay			
West Norfolk Landscape Character	Minor	No additional mitigation proposed or available.	Minor
Assessment:	(Not Significant)		(Not Significant)
G1: Bawzey and Leziate			
West Norfolk Landscape Character	Moderate	No additional mitigation proposed or available.	Moderate
Assessment:	(Not Significant)		(Not Significant)
G2: Middleton			
West Norfolk Landscape Character	Moderate	No additional mitigation proposed or available.	Moderate
Assessment:	(Not Significant)		(Not Significant)
G4: West Winch			
Users of the Nar Valley Way and Cross	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Moderate-Minor (adverse)
Norfolk Trail	(Not Significant)		(Not Significant)
Users of CL433 - Land abutting the A47	Major-Moderate (adverse)	No additional mitigation proposed or available.	Major-Moderate (adverse)
and CL110 - Hardwick Narrows and	(Significant)		(Significant)
CL311 – Land additional to Hardwick			
Narrows			
Users of CL111- Sheepscourse	Moderate (adverse)	No additional mitigation proposed or available.	Moderate (adverse)
	(Not Significant)		(Not Significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significar
	Enhancement	Measures	Implemen
Users of CL113 – Setchey Common &	Minor (adverse)	No additional mitigation proposed or available.	Minor (ad
CL58 – West Winch Common	(Not Significant)		(Not Sign
Users of North Runcton Footpath FP1,	Negligible (Not Significant)	No additional mitigation proposed or available.	Negligible
West Winch Footpath FP5, Wormegay			
Footpath FP4, Wormegay Footpath FP5,			
King's Lynn Footpath FP26			
Users of West Winch Footpath FP2	Minor-Negligible (adverse) (Not Significant)	No additional mitigation proposed or available.	Minor-Ne
Users of North Runcton Bridleway BR4,	Major-Moderate (adverse)	No additional mitigation proposed or available.	Major-Mo
North Runcton Restricted Byway RB3,	(Significant)		(Significa
Users of North Runcton Restricted Byway	Moderate (adverse)	No additional mitigation proposed or available.	Moderate
RB6	(Not Significant)		(Not Sign
Users of North Runcton Restricted Byway	Negligible	No additional mitigation proposed or available.	Negligible
RB2	(Not Significant)		(Not Sign
Users of the A10 through West Winch,	Minor (adverse)	No additional mitigation proposed or available.	Minor (ad
Westland Chase, Watering Lane, Mill	(Not Significant)		(Not Sign
Lane, Millfield Lane to the east of the			
A10, Beveridge Way, roads in North			
Runcton including Common Lane and			
New Road			
Users of Gravelhill Lane, Long Lane,	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Moderate
West Winch, Rectory Lane, North	(Not Significant)		(Not Sign
Runcton, the A47 at Hardwick, the A47			
(Constitution Hill), A149 (Hardwick Road)			
and A149 (Queen Elizabeth Way)			
Users of Hall Lane, Chapel Lane and	Minor-Negligible (adverse)	No additional mitigation proposed or available.	Minor-Ne
Scania Way	(Not Significant)		(Not Sign

cance of Residual Effects (i.e. After the
nentation of Mitigation / Enhancement)
(adverse)
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Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Signific
	Enhancement	Measures	Implem
Residents in properties and residential cul de	Major (adverse)	No additional mitigation proposed or available.	Major (ad
sacs to the east of the A10 through West Winch,	(Significant)		(Significa
including Babingley Place, Willow Drive and			
Hunters Rise			
Residents of properties on Mill Lane and Millfield			
Lane and no's 95-131 to the east of the A10			
Residents of No's 139 – 163 along the eastern			
side of the A10 / Main Road through West Winch			
Residents of 263 Lynn Road along the eastern			
side of the A10 through West Winch			
Residents of No's 331 - 365 along the eastern			
side of the A10 / Main Road through West Winch.			
Residents of properties at the eastern end of			
Gravelhill Lane, West Winch			
Residents of The Coach House on Rectory Lane			
Residents of Glendawn and Orchard House on			
Rectory Lane			
Residents of Brook Farm on Rectory Lane			
Residents of Burwick House on Rectory Lane			
Residents of properties on Coronation Avenue			
and Freebridge Haven, which have an easterly or			
southerly aspect			
Residents of Field View on Rectory Lane			
Residents of 48 and 50 Rectory Lane			
Residents of 44 Rectory Lane			
Residents of 42 Rectory Lane			
Residents of 57 and 59 Rectory Lane			
Residents of 'Headlands', 55 Rectory Lane			
Residents of properties at Grange farm, Rectory			
Lane, Including Grange Farm, Grange Farm			
Bungalow, The Cottage			
Residents of High Orchard on Chequers Lane			
Residents of Manor Farm Estate on Chequers			
Lane, including Manor Farm Bungalow, Manor			
Farm and Manor Farm House.			

(adverse) icant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Residents of No's 217 - 221 along the	Moderate (adverse)	No additional mitigation proposed or available.	Moderat
eastern side of the A10 through West	(Not Significant)		(Not Sig
Winch.			
Residents of Winchley Home on Rectory			
Lane			
Residents of No's 1 and 2 Rectory Lane			
Residents of No's 19 - 24 Rectory Lane			
Residents of Lilac Cottage and Rosendell			
on Rectory Lane			
Residents of properties at the southern			
edge of Fairstead, including Savage			
Close, Beechan Drive, Anthony Nolan			
Road, Fred Ackland Drive, Clement Atlee			
Way, Dukes Place and Tasburgh Close			

rate (adverse)

ignificant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significance of Residual Effects (i.e. After the
	Enhancement	Measures	Implementation of Mitigation / Enhancement)
Residents of properties on Long Lane,	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Moderate-Minor (adverse)
West Winch	(Not Significant)		(Not Significant)
Residents of properties on Chapel Lane,			
West Winch			
Residents of Ivy Cottage on Rectory Lane			
Residents of 26 Rectory Lane			
Residents of properties to the west of the			
A10/West Winch Road, north of Willow			
Drive			
Residents of properties on Willow Drive			
to the east of the A10			
Residents of Manor Farm Cottages			
Residents of No's 6 – 26 Chequers Lane			
Residents of Southfork Manor, Chequers			
Lane			
Residents of No's 52 - 56 Common Lane			
Residents of cottages that comprise No's			
42 - 50 Common Lane			
Residents of No's 30 - 40 Common Lane			
Residents of properties to the east of			
New Road between School Lane and			
Cedar Grove			
Residents of 24 - 22 Rectory Lane	Negligible	No additional mitigation proposed or available.	Negligible
Residents of No's 35 - 43 Common Lane	(Not Significant)		(Not Significant)
Visitors to The Dragonfly Hotel,	Major-Moderate (adverse)	No additional mitigation proposed or available.	Major-Moderate (adverse)
Beveridge Way, King's Lynn	(Significant)		(Significant)
Players and spectators at North Runcton	Minor (adverse)	No additional mitigation proposed or available.	Minor (adverse)
Cricket Club	(Not Significant)		(Not Significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significance of Residual Effects (i.e. After the
	Enhancement	Measures	Implementation of Mitigation / Enhancement)
Visitors to William Burt Social Club, West	Moderate (adverse)	No additional mitigation proposed or available.	Moderate (adverse)
Winch	(Not Significant)		(Not Significant)
Employees at Cool Stak, West Winch	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Moderate-Minor (adverse)
	(Not Significant)		(Not Significant)
Employees at businesses along the			
southern boundary of Hardwick Industrial			
Estate / Retail Park to the north of the			
A47 / A149, including Argos, Sainsbury's,			
Pinguin Foods			
Operation Phase	Operation Phase Year 1	Operation Phase	Operation Phase Year 15
West Norfolk Landscape Character	Minor	No additional mitigation proposed or available.	Minor-Negligible
Assessment:	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
E2: Saddlebow and Wormegay			
West Norfolk Landscape Character	Minor-Negligible	No additional mitigation proposed or available.	Negligible
Assessment:	(Not Significant)		(Not Significant)
G1: Bawzey and Leziate			
West Norfolk Landscape Character	Minor	No additional mitigation proposed or available.	Minor-Negligible
Assessment:	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
G2: Middleton			
West Norfolk Landscape Character	Minor	No additional mitigation proposed or available.	Minor-Negligible
Assessment:	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
G4: West Winch			
Users of the Nar Valley Way and Cross	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Minor (adverse)
Norfolk Trail	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
Users of CL433 - Land abutting the A47	Moderate (adverse)	No additional mitigation proposed or available.	Minor (adverse)
and CL110 - Hardwick Narrows and	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
CL311 – Land additional to Hardwick			
Narrows			



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significance of Residual Effects (i.e. After the
	Enhancement	Measures	Implementation of Mitigation / Enhancement)
Users of CL111- Sheepscourse	Minor (adverse)	No additional mitigation proposed or available.	Minor-Negligible (adverse)
	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
Users of CL113 – Setchey Common &	Minor-Negligible (adverse)	No additional mitigation proposed or available.	Neutral
CL58 – West Winch Common	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
Users of North Runcton Footpath FP1,	Minor-Negligible (adverse)	No additional mitigation proposed or available.	Neutral
West Winch Footpath FP5, Wormegay	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
Footpath FP4, Wormegay Footpath FP5,			
King's Lynn Footpath FP26 and West			
Winch Footpath FP2			
Users of North Runcton Bridleway BR4,	Major-Moderate (adverse)	No additional mitigation proposed or available.	Minor (adverse)
	(Significant)	Growth of embedded landscape planting.	(Not Significant)
Users of North Runcton Restricted Byway	Major-Moderate (adverse)	No additional mitigation proposed or available.	Major-Moderate (adverse)
RB3,	(Significant)		(Significant)
Users of North Runcton Restricted Byway	Minor (Not Significant)	No additional mitigation proposed or available.	Minor-Negligible (adverse)
RB6		Growth of embedded landscape planting.	(Not Significant)
Users of North Runcton Restricted Byway	Minor-Negligible (adverse)	No additional mitigation proposed or available.	Neutral
RB2	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
Users of Watering Lane, West Winch	Minor-Negligible (adverse)	No additional mitigation proposed or available.	Neutral
	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
Users of the A10 through West Winch,	Minor-Negligible (adverse)	No additional mitigation proposed or available.	Negligible
Westland Chase, Mill Lane, Millfield Lane	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
to the east of the A10, Beveridge Way,			
roads in North Runcton including			
Common Lane and New Road			
Users of Gravelhill Lane, Long Lane,	Minor (adverse)	No additional mitigation proposed or available.	Minor-Negligible (adverse)
West Winch, the A47 (Constitution Hill),	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)
A149 (Hardwick Road)			
Users of Long Lane, West Winch, the	Minor- Negligible (adverse)	No additional mitigation proposed or available.	Negligible
A47 at Hardwick	(Not Significant)	Growth of embedded landscape planting.	(Not Significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Users of Rectory Lane, North Runcton	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Minor (ad
	(Not Significant)	Growth of embedded landscape planting.	(Not Sign
Users of A149 (Queen Elizabeth Way)	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Neutral
	(Not Significant)	Growth of embedded landscape planting.	(Not Sign
Users of Hall Lane, Chapel Lane and	Negligible	No additional mitigation proposed or available.	Neutral
Scania Way	(Not Significant)	Growth of embedded landscape planting.	(Not Sign

adverse)

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gnificant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Residents of properties on Mill Lane and	Major (adverse)	No additional mitigation proposed or available.	Moderate
Millfield Lane and no's 95-131 to the east	(Significant)	Growth of embedded landscape planting.	(Not Sig
of the A10			(
Residents of No's 139 – 163 along the			
eastern side of the A10 / Main Road			
through West Winch			
Residents of properties at the eastern			
end of Gravelhill Lane, West Winch			
Residents of Glendawn and Orchard			
House on Rectory Lane			
Residents of Burwick House on Rectory			
Lane			
Residents of properties on Coronation			
Avenue and Freebridge Haven, which			
have an easterly or southerly aspect			
Residents of Field View on Rectory Lane			
Residents of 48 and 50 Rectory Lane			
Residents of 42 Rectory Lane			
Residents of 57 and 59 Rectory Lane			
Residents of 'Headlands', 55 Rectory			
Lane			
Residents of Manor Farm Estate on			
Chequers Lane, including Manor Farm			
Bungalow, Manor Farm and Manor Farm			
House.			
Residents of No's 331 - 365 along the	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Negligib
eastern side of the A10 / Main Road	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
through West Winch.			

ate (adverse)

ignificant)

ible ignificant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Residents of Brook Farm on Rectory	Major (adverse)	No additional mitigation proposed or available.	Major (ad
Lane	(Significant)		(Significa
Residents of The Coach House on	Moderate (adverse)	No additional mitigation proposed or available.	Moderate
Rectory Lane Residents of 44 Rectory Lane	(Not Significant)	Growth of embedded landscape planting.	(Not Sigr
Residents in properties and residential	Major (adverse)	No additional mitigation proposed or available.	Moderate
cul de sacs to the east of the A10 through	(Significant)	Growth of embedded landscape planting.	(Not Sigr
West Winch, including Babingley Place,			
Willow Drive and Hunters Rise			
Residents of 263 Lynn Road along the			
eastern side of the A10 through West			
Winch			
Residents of properties at Grange farm,			
Rectory Lane, Including Grange Farm,			
Grange Farm Bungalow, The Cottage			
Residents of High Orchard on Chequers			
Lane			

(adverse)

icant)

ate-Minor (adverse)

ignificant)

ate-Minor (adverse)

ignificant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Residents of No's 217 - 221 along the	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Negligibl
eastern side of the A10 through West	(Not Significant)	Growth of embedded landscape planting.	(Not Sigr
Winch.	((
Residents of Winchley Home on Rectory			
Lane			
Residents of No's 1 and 2 Rectory Lane			
Residents of No's 19 - 24 Rectory Lane			
Residents of Lilac Cottage and Rosendell			
on Rectory Lane			
Residents of properties at the southern	Moderate (adverse)	No additional mitigation proposed or available.	Negligibl
edge of Fairstead, including Savage	(Not Significant)	Growth of embedded landscape planting.	(Not Sigr
Close, Beechan Drive, Anthony Nolan	(Not orginicality		(Not Oigi
Road, Fred Ackland Drive, Clement Atlee			
Way, Dukes Place and Tasburgh Close			
Residents of 26 Rectory Lane	Moderate-Minor (adverse)	No additional mitigation proposed or available.	Negligibl
Residents of properties to the west of the	(Not Significant)	Growth of embedded landscape planting.	(Not Sigr
A10/West Winch Road, north of Willow			
Drive			
Residents of properties on Willow Drive			
to the east of the A10			
Residents of Ivy Cottage on Rectory Lane	Neutral	No additional mitigation proposed or available.	Neutral
	(Not Significant)	Growth of embedded landscape planting.	(Not Sigr
Residents of No's 30 - 40 Common Lane	Neutral	No additional mitigation proposed or available.	Negligibl
	(Not Significant)	Growth of embedded landscape planting.	(Not Sigr

cance of Residual Effects (i.e. After the nentation of Mitigation / Enhancement) ible ignificant) ible ignificant) ible ignificant) ignificant) ible



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Residents of properties on Long Lane,	Negligible	No additional mitigation proposed or available.	Neutral
West Winch	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Residents of properties on Chapel Lane,			
West Winch			
Residents of Manor Farm Cottages			
Residents of No's 6 – 26 Chequers Lane			
Residents of Southfork Manor, Chequers			
Lane			
Residents of No's 52 - 56 Common Lane			
Residents of cottages that comprise No's			
42 - 50 Common Lane			
Residents of properties to the east of			
New Road between School Lane and			
Cedar Grove			
Residents of 24 - 22 Rectory Lane	Negligible	No additional mitigation proposed or available.	Neutral
Residents of No's 35 - 43 Common Lane	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Visitors to The Dragonfly Hotel,	Neutral	No additional mitigation proposed or available.	Neutral
Beveridge Way, King's Lynn	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Players and spectators at North Runcton	Minor (adverse)	No additional mitigation proposed or available.	Minor- N
Cricket Club	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Visitors to William Burt Social Club, West	Minor (adverse)	No additional mitigation proposed or available.	Neutral
Winch	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Employees at Cool Stak, West Winch	Minor (adverse)	No additional mitigation proposed or available.	Minor- N
	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Employees at businesses along the	Neutral	No additional mitigation proposed or available.	Neutral
southern boundary of Hardwick Industrial	(Not Significant)	Growth of embedded landscape planting.	(Not Sig
Estate / Retail Park to the north of the			
A47 / A149, including Argos, Sainsbury's,			
Pinguin Foods			

ignificant)

ignificant)

ignificant)

Negligible (adverse) ignificant)

ignificant)

Negligible (adverse)

ignificant)

ignificant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Chapter 10 – Noise and Vibration	Chapter 10 – Noise and Vibration	Chapter 10 – Noise and Vibration	Chapter
Construction Phase	Construction Phase	Construction Phase	Construc
C2 – Brook Farm (day) (site clearance and earthworks)	Moderate adverse (Significant)	No additional mitigation is possible beyond embedded best practicable means	Moderate
C1 – East Anglia House (night)	Moderate adverse (Significant)	No additional mitigation is possible beyond embedded best practicable means	Moderate
Receptors at Cranfield (and other properties at an equivalent distance) within 20m of Proposed Scheme carriageways	T / D / ST Minor adverse (Not significant) Twin drum roller has been utilised for the assessment.	No additional mitigation is possible beyond embedded best practicable means	T / D / ST Minor ad (Not sign with low closest a
	T/D/ST		T/D/ST
Operational Phase	Operational Phase	Operational Phase	Operatio
314 residential receptors, 4 other sensitive receptors (group 1)	Moderate or major beneficial (Significant) P/D/LT	No additional mitigation is proposed or available.	Significa P/D/LT
857 residential receptors, 6 other sensitive receptors (Groups 2 and 3)	Minor beneficial and negligible change (Not significant)	No additional mitigation is proposed or available.	Negligibl
179 residential receptors, 3 other sensitive receptors (groups 4-6)	P/D/LT Minor/moderate adverse (Not significant)	No additional mitigation is proposed or available.	Minor ad
	P/D/LT		P/D/LT

West Winch Housing Access Road Environmental Statement Chapter 18: Summary Document Reference: ncc/3.18.00

cance of Residual Effects (i.e. After the nentation of Mitigation / Enhancement) er 10 – Noise and Vibration uction Phase ate adverse (Significant) ЗT ate adverse (Significant) ST adverse (Not significant) gnificant provided a twin drum roller w amplitude setting is used at the approach) ional Phase cant beneficial effect ible effect (Not significant) adverse (Not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
16 Residential receptors, 1 other sensitive receptor (groups 7 and 8)	Moderate/major adverse (Significant)	No additional mitigation is proposed or available.	Moderate
	P/D/LT		P/D/LT
Chapter 11 – Water Environment	Chapter 11 – Water Environment	Chapter 11 – Water Environment	Chapter
Construction Phase	Construction Phase	Construction Phase	Construc
Unnamed Field Drains	Slight Adverse (not significant) D / T / ST - LT	 Measures regarding surface water management during the construction of the Proposed Scheme are detailed in the Surface Water Drainage Strategy in Appendix 11.2: Flood Risk Assessment. Further consultation with the LLFA during the development of the ordinary watercourse consent application would reduce the risk of increased sedimentation and potential effects to the unnamed field drains. 	Slight Ac
The Country Drain	Neutral (not significant) I / T / ST - LT	Measures regarding surface water management during the construction of the Proposed Scheme are detailed in the Surface Water Drainage Strategy in Appendix 11.2: Flood Risk Assessment .	Neutral(
Middleton Stop Drain	Neutral (not significant)	Measures regarding surface water management during the construction of the Proposed Scheme are detailed in the Surface Water Drainage Strategy in Appendix 11.2: Flood Risk Assessment .	Neutral(

ate/major adverse (Significant)

er 11 – Water Environment ruction Phase

Adverse residual effect (not significant)

I (not significant) ST - LT

I (not significant) ST - LT



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
River Nar	Neutral (not significant)	Measures regarding surface water management	Neutral (
	I / T / ST - LT	during the construction of the Proposed Scheme	I/T/ST
		are detailed in the Surface Water Drainage	
		Strategy in Appendix 11.2: Flood Risk	
		Assessment.	
Surface Water Abstractions	Neutral (not significant)	Measures regarding pollution management	Neutral (
	I/T/ST-LT	during the construction of the Proposed Scheme	
		will be detailed in the CEMP.	
Principal bedrock aquifer (Sandringham	Moderate Adverse (significant)	The CEMP will set out requirements for activities	Slight Ad
Sands)		such as refuelling, storage of fuels and	
		emergency procedures regarding an oil spillage	
		during construction.	
Bedrock Secondary Aquifer – Lowestoft	Slight Adverse (not significant)	The CEMP will set out requirements for activities	Slight Ad
Formation		such as refuelling, storage of fuels and	
		emergency procedures regarding an oil spillage	
		during construction.	
Superficial deposits	Slight Adverse (not significant)	The CEMP will set out requirements for activities	Slight Ad
		such as refuelling, storage of fuels and	
		emergency procedures regarding an oil spillage	
		during construction.	
Third party flood risk	Neutral (not significant)	Measures regarding surface water management	Neutral (
	D / T / ST	during the construction of the Proposed Scheme	
		are detailed in the Surface Water Drainage	
		Strategy in Appendix 11.2: Flood Risk	
		Assessment.	
		Additional mitigation measures in relation to flood	
		risk are found in Appendix 11.2: Flood Risk	
		Assessment.	

I (not significant) ST - LT

I (not significant) 5T - LT

Adverse (not significant) ST

Adverse (not significant) ST

Adverse (not significant) ST

I (not significant) ST



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Implemer
Flood risk to the Proposed Scheme	Neutral (not significant) D / T / ST	Measures regarding surface water management during the construction of the Proposed Scheme are detailed in the Surface Water Drainage Strategy in Appendix 11.2: Flood Risk Assessment. Additional mitigation measures in relation to flood risk are found in Appendix 11.2: Flood Risk Assessment.	Neutral (r D / T / ST
Operation Phase	Operation Phase	Operation Phase	Operatio
Unnamed Field Drains	Slight Adverse (not significant) D / P / LT	Additional mitigation measures in relation to the unnamed field drains in relation to the proposed culverts is available in Appendix 11.2: Flood Risk Assessment .	Slight Ad
The Country Drain	Neutral (not significant)	Not applicable	Neutral (r I / P / LT
Middleton Stop Drain	Neutral (not significant)	Not applicable	Neutral (r I / P / LT
River Nar	Neutral (not significant)	Not applicable	Neutral (r I / P / LT
Surface Water Abstractions	Neutral (not significant)	Not applicable	Neutral (r I / P / LT
Principal bedrock aquifer (Sandringham Sands)	Moderate Adverse (significant) D / P / LT	Filtration within the surface water drainage system to filter out the physical and chemical contaminants. Also, ensuring that spillages can be contained prior to discharging to the receiving watercourses.	Slight Ad

l (not significant) ST

ion Phase

Adverse (not significant) _T

(not significant)

(not significant)

(not significant)

(not significant)

Adverse (not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Bedrock Secondary Aquifer – Lowestoft Formation	Slight Adverse (not significant) D / P / LT	Filtration within the surface water drainage system to filter out the physical and chemical contaminants. Also, ensuring that spillages can be contained prior to discharging to the receiving watercourses.	Slight Ac
Superficial deposits	Slight Adverse (not significant) D / P / LT	Filtration within the surface water drainage system to filter out the physical and chemical contaminants. Also, ensuring that spillages can be contained prior to discharging to the receiving watercourses.	Slight Ac
Third party flood risk	Neutral (not significant) D / T / ST	Measures regarding surface water management during the construction of the Proposed Scheme are detailed in the Surface Water Drainage Strategy in Appendix 11.2: Flood Risk Assessment . Additional mitigation measures in relation to flood risk are found in Appendix 11.2: Flood Risk Assessment .	Neutral (D / T / ST
Flood risk to the Proposed Scheme	Neutral (not significant) D / T / ST	Measures regarding surface water management during the construction of the Proposed Scheme are detailed in the Surface Water Drainage Strategy in Appendix 11.2: Flood Risk Assessment . Additional mitigation measures in relation to flood risk are found in Appendix 11.2: Flood Risk Assessment .	Neutral (D / T / ST
Chapter 12 – Geology and Soils	Chapter 12 – Geology and Soils	Chapter 12 – Geology and Soils	Chapter
Construction Phase	Construction Phase	Construction Phase	Construc

ance of Residual Effects (i.e. After the
entation of Mitigation / Enhancement)
Adverse (not significant) T
dverse (not significant) T
(not significant) T
(not significant)
r 12 – Geology and Soils
uction Phase



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Human Health – Construction Workers,	Negligible (Not significant)	Ground Investigation and Generic Quantitative	Neutral (
Current and adjacent users		Risk Assessment (GQRA)	
	P/D/LT		
		Remediation and validation works (if required)	
		Materials Management Plan	
Controlled Waters - Groundwater -	Negligible (Not significant)	Ground Investigation	Neutral (
Secondary (A) and Principal Aquifers			
	T/I/LT	Piling Risk Assessment	
Surface waters, ponds and small streams			
Below Ground Services – Potable Water	Negligible (Not significant)	Ground Investigation	Neutral (
Supply Pipes, Buried Concrete and			
Foundations	P/D/LT	Potable water supply pipes in accordance with	
		UK Water Industry Research (UKWIR)	
		Appropriate concrete in accordance with BRE	
		Digest 1. 3rd Edition guidance (including	
		February 2018 amendments)	
Agricultural Land	Large Adverse (Significant)	Agricultural assessment	Large Ad
	P/D/LT		P/D/LT
Operational Phase	Operational Phase	Operational Phase	Operatio
Human Health – Maintenance workers	Negligible (Not significant)	None providing all recommended remediation /	Neutral (
		validation works as outlined within Chapter 12	
Human Health – Future users and	P/D/LT	(where required) have been completed.	
adjacent users			

cance of Residual Effects (i.e. After the nentation of Mitigation / Enhancement) I (Not significant) I (Not significant) I (Not significant) Adverse (Significant) tional Phase I (Not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significar
	Enhancement	Measures	Implemen
Controlled Waters –	Negligible (Not significant)	None providing all recommended remediation /	Neutral (N
Groundwater – Secondary (A) and		validation works as outlined within Chapter 12	
Principal Aquifers	T/I/LT	(where required) have been completed	
Surface waters, ponds and small			
streams.			
Chapter 13 - Material Assets and	Chapter 13 - Material Assets and Waste	Chapter 13 - Material Assets and Waste	Chapter 1
Waste			
Construction Phase	Construction Phase	Construction Phase	Construct
Material resources	Slight Adverse (Not significant)	No additional mitigation is required.	Slight Ad
	P/D/LT		P/D/LT
Landfill void capacity	Large Adverse (Significant)	The Principal Contractor will be required to	Slight Ad
		produce a SWMP, Material Management Plan	
	P/D/LT	(MMP) and adhere to a non-hazardous material	P/D/LT
		recovery target of at least 90%.	
Chapter 14 - Climate	Chapter 14 - Climate	Chapter 14 - Climate	Chapter 1
Construction Phase	Construction Phase	Construction Phase	Construc
Climate	Moderate adverse (Significant)	Construction emissions could be minimised	Minor Adv
		through design optimisation to reflect the carbon	
	T / D / LT	reduction hierarchy as well as other measures	
		detailed in Section 14.6.5.	T/D/LT
Operational Phase	Operational Phase	Operational Phase	Operation

cance of Residual Effects (i.e. After the
nentation of Mitigation / Enhancement)
II (Not significant)
er 13 - Material Assets and Waste
ruction Phase
Adverse (Not significant)
LT
Adverse (Not significant)
LT
er 14 - Climate
ruction Phase
Adverse (Not significant)
LT
tional Phase
uonai Phase



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Climate	Moderate adverse (Significant)	Operational emissions could be minimised by	Moderate
		identifying opportunities to sequester carbon	moderati
	T/D/LT	through increased tree planting	
		Using low carbon road surface options, informed	T/D/LT
		using the carbon reduction hierarchy.	
		Using road surface options with greater	
		longevity, to reduce frequency of replacements,	
		as well as other measures detailed in Section	
		14.6.14.	
Chapter 15 – Population and human health	Chapter 15 – Population and human health	Chapter 15 – Population and human health	Chapter
Construction Phase	Construction Phase	Construction Phase	Construc
Hill Cottages (two dwellings), A47 and	Very Large Adverse (Significant) effects	Assuming a 'worst case' scenario, both	Slight Ac
Orchard Cottage, Chequers Lane		dwellings will be acquired under Compulsory	
	P/D/LT	Purchase powers. Mitigation in the form of	P/D/LT
		compensation would be provided by the	
		Applicant to the residents of the properties, paid	
		at a rate equal to market value.	
Frankie Lodge, Chequers Lane	Slight adverse (Not significant)	No additional mitigation is required.	Slight ad
	T/I/MT		T/I/MT
c.2,000 dwellings to the east and west of	Slight adverse (not significant)	No additional mitigation is required.	Slight ad
the A10, and c.300 dwellings in South	T / I / MT		T/I/MT
Lynn			. , . ,
Properties in Hardwick, north of Hardwick	Neutral (Not significant)	No additional mitigation is required.	Neutral (
Road Cemetery, and in Setchey			
	Т/І/МТ		T/I/MT

cance of Residual Effects (i.e. After the nentation of Mitigation / Enhancement) ate Adverse (Significant) LT er 15 – Population and human health ruction Phase Adverse (Not significant) adverse (Not significant) adverse (not significant) 1T (Not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
4,000 dwellings at the WWGA land allocation	Neutral (Not significant)	No additional mitigation is required.	Neutral (
	T/MT		T/MT
Hardwick Narrows, Sheep's Course	Slight adverse (not significant)	No additional mitigation is required.	Slight ad
Wood, and North Runcton Common	T / D / MT		T/D/M
North Runcton Scout Hut	Slight adverse (not significant)	No additional mitigation is required.	Slight ad
	T / D / MT		T / D / M1
West Winch Primary School	Neutral (not significant)	No additional mitigation is required.	Neutral (
	T / I / MT		T / I / MT
Other community assets including shops,	Neutral (not significant)	No mitigation required.	Neutral (
places of worship, sports and recreational	T / I / MT		Т/І/МТ
facilities			
Indigo Flamingo Home Furniture	Very large adverse (significant)	Mitigation in the form of compensation would be	Slight ad
	P/D/LT	provided by the Applicant to business owner.	P/D/LT
Cool Stak	Slight adverse (not significant)	No additional mitigation required.	Slight ad
	T / D / MT		T / D / M1
Dragonfly Hotel	Slight adverse (not significant)	No additional mitigation required.	Slight ad
	T / D / MT		T / D / M
King's Lynn Caravan and Camping Park	Slight adverse (not significant)	No additional mitigation required.	Slight ad
	T / D / MT		T / D / M1
Yew Cottage B&B	Slight adverse (not significant)	No additional mitigation required.	Slight ad
	T / D / MT		T/D/M
Hardwick Retail Park and Hardwick	Slight adverse (not significant)	No additional mitigation required.	Slight ad
Industrial Estate	T / D / MT		T / D / M1

cance of Residual Effects (i.e. After the nentation of Mitigation / Enhancement) (Not significant) adverse (not significant) MT adverse (not significant) MT (not significant) 1T (not significant) 1T adverse (not significant) LT adverse (not significant) MT adverse (not significant) MT adverse (not significant) МТ adverse (not significant) МТ adverse (not significant) MΤ



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significan
	Enhancement	Measures	Implemen
The Warehouse Antique Shop and Restaurant; Norfolk Leisure outdoor furniture warehouse; and D&H Direct Agricultural Product Manufacturing	Slight adverse (not significant) T / D / MT	No additional mitigation required.	Slight adv T / D / MT
Other businesses including car sales and repair premises; and warehouse, storage, and haulage premises	Slight adverse (not significant) T / D / MT	No additional mitigation applicable.	Slight adv T / D / MT
North Runcton RB3 and North Runcton BR4	Moderate adverse (significant) P / D / LT	No additional mitigation applicable.	Moderate P/D/LT
West Winch FP 2, West Winch FP 3, West Winch FP 4, West Winch FP 6, West Winch RB 1, North Runcton FP 1, North Runcton RB 2, and North Runcton RB 6	Neutral (not significant) T / D / MT	No additional mitigation required.	Neutral (n T / D / MT
Human Health- Air quality effects on amenity	Moderate adverse	Contractor will use best management practices as well as requirements set out in the CEMP to mitigate dust impacts.	Negligible
Human Health-Visual impacts	Moderate adverse	No mitigation measures required.	Moderate
Human Health- Construction noise impacts	Moderate adverse	No mitigation measures required.	Moderate
Operation Phase	Operation Phase	Operation Phase	Operation
Hill Cottages (two dwellings), A47 and Orchard Cottage, Chequers Lane	Neutral (not significant) P / D / LT	No mitigation required.	Neutral (n P/D/LT
Frankie Lodge, Chequers Lane	Slight adverse (not significant) P / D / LT	No mitigation required.	Slight adv P / D / LT

cance of Residual Effects (i.e. After the			
nentation of Mitigation / Enhancement)			
adverse (not significant)			
MT			
adverse (not significant)			
МТ			
ate adverse (significant)			
LT			
l (not significant)			
MT			
ible			
ate adverse			
ate adverse			
ion Phase			
I (not significant)			
LT			
adverse (not significant)			
LT			



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significance of Residual Effects (i.e. After the
	Enhancement	Measures	Implementation of Mitigation / Enhancement)
c.2,000 dwellings to the east and west of	Slight beneficial (not significant)	No mitigation required.	Slight beneficial (not significant)
the A10, and c.300 dwellings in South	P/D/LT		P/D/LT
Lynn			
Properties in Hardwick, north of Hardwick	Slight beneficial (not significant)	No mitigation required.	Slight beneficial (not significant)
Road Cemetery, and in Setchey	P/D/LT		P/D/LT
4,000 dwellings at the WWGA land	Very large beneficial (significant)	No mitigation required.	Very large beneficial (significant)
allocation	P/D/LT		P/D/LT
Hardwick Narrows, Sheep's Course	Neutral (not significant)	No mitigation required.	Neutral (not significant)
Wood, and North Runcton Common	P/D/LT		P/D/LT
North Runcton Scout Hut	Slight adverse (not significant)	No mitigation required.	Slight adverse (not significant)
	P/D/LT		P/D/LT
West Winch Primary School	Neutral (not significant)	No mitigation required.	Neutral (not significant)
	P/D/LT		P/D/LT
Other community assets including shops,	Slight adverse (not significant)	No mitigation required.	Slight adverse (not significant)
places of worship, sports and recreational	P/D/LT		P/D/LT
facilities			
Indigo Flamingo Home Furniture	Neutral (not significant)	No mitigation required.	Neutral (not significant)
	P/D/LT		P/D/LT
Cool Stak	Slight beneficial (not significant)	No mitigation required.	Slight beneficial (not significant)
	P/D/LT		P/D/LT
Dragonfly Hotel	Neutral (not significant)	No mitigation required.	Neutral (not significant)
	P/D/LT		P/D/LT
King's Lynn Caravan and Camping Park	Neutral (not significant)	No mitigation required.	Neutral (not significant)
	P/D/LT		P/D/LT
Yew Cottage B&B	Neutral (not significant)	No mitigation required.	Neutral (not significant)
	P/D/LT		P/D/LT



ignificant) ignificant) ignificant)	Measures No mitigation required. No mitigation required. No mitigation required.	P / D / LT Neutral (P / D / LT
ignificant)	No mitigation required.	Neutral (I P / D / LT Neutral (I P / D / LT
		P/D/LT Neutral (P/D/LT
		P / D / LT
ignificant)	No mitigation required.	Neutral (
ignificant)	No mitigation required.	-
ignificant)	No mitigation required.	-
ignificant)	No mitigation required.	-
		-
		P/D/LT
ignificant)	No mitigation required.	Neutral (
		P/D/LT
ignificant)	No mitigation required.	Neutral (
·9·····		P/D/LT
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	No mitigation required.	Negligibl
erse	Proposed mitigation planting as stated in	Minor ad
	Chapter 9: Landscape and Visual	
e to minor beneficial	No mitigation required.	Minor ad
raffic and Transport	Chapter 16- Traffic and Transport	Chapter '
	Construction Phase	Construc
e	verse e to minor beneficial Traffic and Transport Phase	verse Proposed mitigation planting as stated in Chapter 9: Landscape and Visual e to minor beneficial No mitigation required. Traffic and Transport Chapter 16- Traffic and Transport

ance of Residual Effects (i.e. After the
entation of Mitigation / Enhancement)
(not significant) ⊤
(not significant) ⊤
(not significant) ⊤
(not significant) ⊤
(not significant) ⊤
ble
dverse
dverse to minor beneficial
16- Traffic and Transport
iction Phase



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Severance	Minor Adverse (Not significant)	Construction access, traffic and temporary	Negligibl
	T / D / ST	diversions will be controlled through the CEMP.	T/D/ST
		Construction traffic will be routed mainly via A	
		and B Roads and avoid local roads where	
		possible.	
Driver Delay	Minor Adverse (Not significant)	Construction access, traffic and temporary	Negligibl
		diversions will be controlled through the CEMP	
	T / D / ST		T / D / ST
Pedestrian and Cyclist Delay	Minor Adverse (Not significant)	CEMP, Diversion of Non-Motorised Users,	Negligibl
		advisory signage on approach routes.	
	T / D / ST		T / D / ST
Pedestrian and Cyclist Amenity	Minor Adverse (Not significant)	CEMP, Public Rights of Way closures and	Negligibl
		diversions to prevent conflicts of Non-Motorised	
	T/D/ST	Users with construction vehicles.	T / D / ST
Fear and Intimidation	Minor Adverse (not significant)	CEMP, Diversion of Non-Motorised Users,	Negligibl
		advisory signage on approach routes.	
	T / D / ST		T / D / ST
Accidents and Safety	Minor Adverse (not significant)	CEMP, advisory signage on approach routes.	Negligibl
	T / D / ST		T / D / ST

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ible to Minor Adverse (Not significant)

ST



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Hazardous/abnormal Load	NA	Hazardous/abnormal loads require specific	NA
		permission from National Highways via the	
		ESDAL (Electronic Service Delivery for Abnormal	
		Loads) system and notification will be made for	
		any Abnormal Loads which can dealt with on a	
		case by case basis. Specific permission and	
		notifications would be made to the Local	
		Planning Authority (LPA) and National Highways.	
		Details of the access routing, timings and	
		number of abnormal load movements would be	
		discussed and agreed with the LPA. A specific	
		abnormal loads assessment would be carried out	
		by a competent contractor. However, routes to	
		be considered on approach to site would include	
		A47 and A10. Appropriate Traffic Management	
		Measures would be in place on relevant roads to	
		prevent conflicts with public vehicles. This may	
		include temporary road closures on minor rural	
		roads of short duration in accordance with the	
		New Roads and Street Works Act 1991. This is	
		consistent with the approach taken by other DCO	
		applications within the local area. Co-operation	
		agreements will be in place to manage in-	
		combination effects with other major schemes.	
Operation Phase(2027_DS1/DS2)	Operation Phase (2027_DS1/DS2)	Operation Phase(2027_DS1/DS2)	Operatio
Severance	Moderate Adverse (Significant)	NMU Provision (See Sustainable Transport	Minor Ac
		Strategy (STS) Document Reference 4.02.00).	
	T/D/LT		T / D / LT

tion Phase(2027_DS1/DS2)

Adverse (Not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Driver Delay	Minor Adverse (Not significant)	Proposed Scheme + mitigation including junction	Negligib
		capacity improvement at Beveridge Way and	
	T/D/LT	A47 approaches to A47 / WWHAR	
			T/D/LT
Pedestrian and Cyclist Delay	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligibl
		Strategy (STS) Document Reference 4.02.00).	
	T/D/LT		T/D/LT
Pedestrian and Cyclist Amenity	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligibl
		Strategy (STS) Document Reference 4.02.00).	
	T/D/LT		T/D/LT
Fear and Intimidation	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligib
	inition / lavoroo (itor olginioant)	Strategy (STS) Document Reference 4.02.00).	nogiigioi
	T/D/LT		T/D/LT
Accidents and Safety	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligib
	inition / lavoroo (itor olginioant)	Strategy (STS) Document Reference 4.02.00).	nogiigio
	T/D/LT		T/D/LT

ible to Minor Adverse (Not significant)

LT

ible to Minor Adverse (not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Hazardous/abnormal Load	NA	Hazardous/abnormal loads require specific	NA
		permission from National Highways via the	
		ESDAL (Electronic Service Delivery for Abnormal	
		Loads) system and notification will be made for	
		any Abnormal Loads which can dealt with on a	
		case by case basis. Specific permission and	
		notifications would be made to the Local	
		Planning Authority (LPA) and National Highways.	
		Details of the access routing, timings and	
		number of abnormal load movements would be	
		discussed and agreed with the LPA. A specific	
		abnormal loads assessment would be carried out	
		by a competent contractor. However, routes to	
		be considered on approach to site would include	
		A47 and A10. Appropriate Traffic Management	
		Measures would be in place on relevant roads to	
		prevent conflicts with public vehicles. This may	
		include temporary road closures on minor rural	
		roads of short duration in accordance with the	
		New Roads and Street Works Act 1991. This is	
		consistent with the approach taken by other DCO	
		applications within the local area. Co-operation	
		agreements will be in place to manage in-	
		combination effects with other major schemes.	
Operation Phase(2042_DS1)	Operation Phase(2042_DS1)	Operation Phase (2042_DS1)	Operatio
Severance	Moderate Adverse (Significant)	NMU Provision (See Sustainable Transport	Negligib
		Strategy (STS) Document Reference 4.02.00).	
	T / D / MT		T/D/LT

tion Phase (2042_DS1)

ible to Minor Adverse (not Significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Driver Delay	Minor Adverse (not Significant)	Proposed Scheme + mitigation including junction capacity improvement at Beveridge Way and	Negligibl
	T / D / MT	A47 approaches to A47 / WWHAR	T/D/LT
Pedestrian and Cyclist Delay	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligible
	T/D/MT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
Pedestrian and Cyclist Amenity	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligibl
	T / D / MT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
Fear and Intimidation	Moderate Adverse (Significant)	NMU Provision (See Sustainable Transport	Negligibl
	T / D / MT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
Accidents and Safety	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligibl
	T/D/MT	Strategy (STS) Document Reference 4.02.00).	T/D/LT

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ble to Minor Adverse (Not significant)

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ble to Minor Adverse (Not significant)

ble to Minor Adverse (Not significant)

ble to Minor Adverse (Not significant) .T



Sensitive Receptor	Significance of Effects Prior to Mitigation / Enhancement	Summary of Mitigation / Enhancement Measures	Significa Impleme
	permission from National Highways via the		
		ESDAL (Electronic Service Delivery for Abnormal	
		Loads) system and notification will be made for	
		any Abnormal Loads which can dealt with on a	
		case by case basis. Specific permission and	
		notifications would be made to the Local	
		Planning Authority (LPA) and National Highways.	
		Details of the access routing, timings and	
		number of abnormal load movements would be	
		discussed and agreed with the LPA. A specific	
		abnormal loads assessment would be carried out	
		by a competent contractor. However, routes to	
		be considered on approach to site would include	
		A47 and A10. Appropriate Traffic Management	
		Measures would be in place on relevant roads to	
		prevent conflicts with public vehicles. This may	
		include temporary road closures on minor rural	
		roads of short duration in accordance with the	
		New Roads and Street Works Act 1991. This is	
		consistent with the approach taken by other DCO	
		applications within the local area. Co-operation	
		agreements will be in place to manage in-	
		combination effects with other major schemes.	
Operation Phase (2042_DS2)	Operation Phase(2042_DS2)	Operation Phase (2042_DS2)	Operatio
Severance	Significant Adverse (Significant)	NMU Provision (See Sustainable Transport	Significa
	T/D/LT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
		Housing development will provide additional	
		mitigation on Long Lane	

tion Phase (2042_DS2)

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Sensitive Receptor	Significance of Effects Prior to Mitigation /	Summary of Mitigation / Enhancement	Significa
	Enhancement	Measures	Impleme
Driver Delay	Minor Adverse (Not significant)	Proposed Scheme + mitigation including junction	Negligibl
		capacity improvement at Beveridge Way and	
	T/D/LT	A47 approaches to A47 / WWHAR	T / D / LT
Pedestrian and Cyclist Delay	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligibl
	T/D/LT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
Pedestrian and Cyclist Amenity	Moderate Adverse (Significant)	NMU Provision (See Sustainable Transport	Minor Ac
	T/D/LT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
		Housing development will provide additional	
		mitigation on Long Lane	
Fear and Intimidation	Moderate Adverse (Significant)	NMU Provision (See Sustainable Transport	Negligibl
	T/D/LT	Strategy (STS) Document Reference 4.02.00).	T/D/LT
Accidents and Safety	Minor Adverse (Not significant)	NMU Provision (See Sustainable Transport	Negligibl
		Strategy (STS) Document Reference 4.02.00).	
	T/D/LT		T/D/LT

ible to Minor Adverse (Not significant)

LT

ible to Minor Adverse (Not significant)

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Adverse (Not significant)

LT

ible to Minor Adverse (Not significant) LT

ible to Minor Adverse (Not significant)



Sensitive Receptor	Significance of Effects Prior to Mitigation / Enhancement	Summary of Mitigation / Enhancement	Significa Impleme
		Measures	
Hazardous/abnormal Load	NA	Hazardous/abnormal loads require specific	NA
		permission from National Highways via the	
		ESDAL (Electronic Service Delivery for Abnorma	
		Loads) system and notification will be made for	
		any Abnormal Loads which can dealt with on a	
		case by case basis. Specific permission and	
		notifications would be made to the Local	
		Planning Authority (LPA) and National Highways.	
		Details of the access routing, timings and	
		number of abnormal load movements would be	
		discussed and agreed with the LPA. A specific	
		abnormal loads assessment would be carried out	
		by a competent contractor. However, routes to	
		be considered on approach to site would include	
		A47 and A10. Appropriate Traffic Management	
		Measures would be in place on relevant roads to	
		prevent conflicts with public vehicles. This may	
		include temporary road closures on minor rural	
		roads of short duration in accordance with the	
		New Roads and Street Works Act 1991. This is	
		consistent with the approach taken by other DCO	
		applications within the local area. Co-operation	
		agreements will be in place to manage in-	
		combination effects with other major schemes.	



18.3 Summary of Cumulative effects

- 18.3.1 In terms of cumulative effects, the assessment of effect interactions of construction and operational stages has concluded that no additional mitigation over and above that stated in **Technical Chapters 6 - 16** has been considered of value.
- 18.3.2 The assessment of in-combination effects has identified that the significance of effects remains as outlined at the project level (i.e. that concluded in **Technical Chapters 6 – 16**).

18.4 Monitoring Obligations

18.4.1 A summary of monitoring obligations is summarised in Table 18.2



Table 18.2 – Summary of Monitoring Obligations

Technical Discipline	Monitoring Obligation
Biodiversity	A post-construction monitoring programme should be carried out during the first five years after construction. of the ecological mitigation measures, including offsite compensation areas, help inform future management implementation of remedial measures.
	Ecological monitoring surveys are required to assess the efficacy of the mitigation for significant effects state findings of this impact assessment. The monitoring would be secured by planning conditions and through the
	An aftercare plan will be included as part of the LEMP. The Strategy would provide an auditable record of the and the requirements for regular maintenance. It is anticipated that the following monitoring activities will be mitigation is successful.
	Habitats
	Surveys of landscape and habitat creation and mitigation areas should be completed following completions of assess the success of habitat mitigation measures and ensure that any remedial management and planting it
	Should any ecological mitigation measures be identified as failing by the monitoring exercises, the Ecology N remedial works to ensure that the objectives are achieved may be necessary.
	Bats
	Site surveys of reinstated, created and enhanced habitats on and off-site to assess suitability for foraging an completed. Monitoring of any bat boxes or roost features installed for mitigation should also be undertaken if
	Badger
	Monitoring of underpasses and fencing will be carried out to ensure that fencing and underpasses remain eff combination of site visits to check fencing and underpasses for signs of use and condition, as well as camera longer periods of time.
	Reptiles
	Monitoring of translocated populations and habitat assessments will need to be carried out to ensure that rep translocation and to ensure that management interventions are carried out where required.
Water and Flood Risk	Any monitoring requirements during construction will be set out in the CEMP.

on. This will focus on the establishment nt and, if necessary, allow for the ated in Section 9 and confirm the the provision of a LEMP. the mitigation commitments identified e required to ensure implemented s of the construction phase. This would g is identified and completed. y Management Plan will be reviewed and and commuting bats should be a if required for licensing purposes. effective. This monitoring will use a era traps where required to monitor for

eptile populations remain stable post