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West Winch Housing Access Road

Environmental Statement Chapter 16: Traffic and Transport

Appendix 16.3: Construction Phase Significance Effect

Author: WSP

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ES Chapter 16: Traffic and Transport: Appendix 16.3

Construction Phase Significance Effect

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Contents

1	Introd	uction	3
	1.1	Construction Phase Significance Effect	3

ES Chapter 16: Traffic and Transport: Appendix 16.3

Construction Phase Significance Effect

Document Reference: ncc/3.16. 3

1 Introduction

1.1 Construction Phase Significance Effect

- 1.1.1 A table showing the significance of the traffic and transport effect during the construction phase. The significance effect is a product of the receptors' sensitivity shown in Appendix 16.2 and magnitude of impact shown in Appendix 16.1. The effects are classified Substantial, Moderate, Minor or Negligible
- 1.1.2 Some users may not be able to access all technical details. If you require this document in a more accessible format please contact westwinchhar@norfolk.gov.uk

	Sever	ance_2027	7	Road	Scheme	e Impact	Assess	ment		
Key	Change in Traffic Flow	LTN 120 Cycle Frien	dly Routes					Receptor		
High	<90%	0 - 2500	Most suitable for cycling				(Sensitiv	/ity / Value / Im	portance)	
Medium	<=60 and >90%	2501 - 5000	Suitable for some cyclists			High	Medium	Low	Very Low	Negligible
Low	<=30 and >60%	>5000	Unlikely to be suitable for cycling on carriageway		High	Substantial	Substantial	Moderate	Minor	Negligible
Negligible	<= 0 and >30%				Medium	Substantial	Moderate	Minor	Minor	Negligible
				(Magnitude / Probability / Reversibility etc)	Low	Moderate	Minor	Minor	Negligible	Negligible
Scenario	DS1			navaransmiy atay	Very Low	Minor	Minor	Negligible	Negligible	Negligible
DS1	Road Scheme Impact Assessment	1			Negligible	Negligible	Negligible	Negligible	Negligible	Negligible
DS2	Road Scheme+4000 Homes Impact Assessment			·						

DS2	Road Scheme+4000 Homes Impact Assessment									
	2	5	15	25						
Link ID	Link Name	Two-way AADT (DM)	Two-way AADT (DS1)	Two-way AADT (DS2)	DS1-DM	DS1-DM (%)	Receptor Sensitivity	Magnitude	Effect Signi	ificance DS1
2655-2857	School Road (Middleton)	598	728	730	130	22%	High	Very Low	Minor	Adverse

	Sever	rance_202	7	Road Scheme	e+4000	Homes	Impact A	Asses	sment	
Key	Change in Traffic Flow	LTN 120 Cycle Frie	ndly Routes					Receptor		
High	<90%	0 - 2500	Most suitable for cycling				(Sensitiv	vity / Value / Im	portance)	
Medium	<=60 and >90%	2501 - 5000	Suitable for some cyclists			High	Medium	Low	Very Low	Negligible
Low	<=30 and >60%	>5000	Unlikely to be suitable for cycling on carriageway		High	Substantial	Substantial	Moderate	Minor	Negligible
Negligible	<= 0 and >30%				Medium	Substantial	Moderate	Minor	Minor	Negligible
				(Magnitude / Probability / Reversibility etc)	Low	Moderate	Minor	Minor	Negligible	Negligible
Scenario	DS2			ite versions mity etcy	Very Low	Minor	Minor	Negligible	Negligible	Negligible
DS1	Road Scheme Impact Assessment	7			Negligible	Negligible	Negligible	Negligible	Negligible	Negligible
DS2	Road Scheme+4000 Homes Impact Assessment			·				-		•

		1								
DS2	Road Scheme+4000 Homes Impact Assessment					-				
	2	5	15	25						
Link ID	Link Name	Two-way AADT (DM)	Two-way AADT (DS1)	Two-way AADT (DS2)	DS2-DM	DS2-DM (%)	Receptor Sensitivity	Magnitude	Effect Sign	ificance DS1
2655-2857	School Road (Middleton)	598	728	730	132	22%	High	Very Low	Minor	Adverse

	NMU Dela	y_2042								
Kev	Change in Traffic Flow/Day (DMRB LA112) Table 3.11	TAG Unit A4	.1 Severance Sensitivity Tab	ile 5.1				Receptor		
High	>16000	None	Very Low				(Ser	sitivity / Value / Import	ance)	
Medium	>8,000 - 16,000	Slight	Low			High	Medium	Low	Vary Low	Negligible
Low	>4000 - 8000	Moderate	Medium		High	Substantial	Substantial	Moderate	Minor	Negligible
Very Low	<4000	Severe	High	(Magnitude /	Medium	Substantial	Moderate	Mnor	Mnor	Negligible
		_		Probability /	Low	Moderate	Minor	Mnor	Negligible	Negligible
Scenario	DS1			Reversibility etc)	Very Low	Mnor	Minor	Negligible	Negligible	Negligible
DS1	Road Scheme Impact Assessment			1	Negligible	Negligible	Neglgible	Negligible	Negligible	Negligible
DS2	Road Scheme+4000 Homes Impact Assessment									

-	2	5	15	25		Change is	n Traffic Flow/Da	ay (DMRB LA112)	Table 3.11			TAG Unit	44.1 Severance Sens	itivity Table 5.1		1			Assessmer	nt of Effect	
Link ID	Link Name	Two-way AADT (DM)		Two-way AADT (DS2)	Traffic Flow DSM	Traffic Flow DS1	Traffic Flow DS2		Magnitude Step Change_DM- DS1	Magnitude Step Change_DM- DS2	DM Severance (without Scheme)	DS1 Severance (with Road Scheme)	DS2 Severance (Road +Home Scheme)	Change in Severance (DM DS1)	Change in Severance (DM- DS2)	Combined Magnitude of Change (DM-DS1)		Magnitude of Change (DM- DS1)	Receptor Sensitivity	Effect Sig	nificance
2655-2857	School Road (Middleton)	598	720	722	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Low	Low	Low	Very Low	Very Low	Very Low	Very Low	Very Low	High	Minor	Adverse

			TAG U	nit A4.1	
		W	th-scheme Se	werance Scot	ing
		Very Low	Low	Medium	High
	Very Low	Negligible	Minor	Moderate	Substantial
Without-scheme	Low	Minor	Neglgible	Mnor	Moderate
leverance Scoring	Medium	Moderate	Minor	Neglgible	Mnor
	High	Substantial	Moderate	Mnor	Negligible

Severance may be classified according to the following four broad levels.

- None Life or no inferience to podestial micromoment.

 None Life to or no inferience to podestial micromoment.

 Life to the second of the s

	NMU Delay									Road Scheme+4000 Homes Impact Assessment	
Key	Change in Traffic Flow/Day (DMRB LA112) Table 3.11	TAG Unit A4.	1 Severance Sensitivity Tabl	e 5.1				Receptor			
High	>16000	None	Very Low				(Sec	altivity / Value / Import	ance)		
Medium	>8,000 - 16,000	Slight	Low			High	Medium	Low	Very Low	Negligible	
Low	>4000 - 8000	Moderate	Medium		High	Substantial	Substantial	Moderate	Minor	Negligible	i
Very Low	<4000	Severe	High	(Magnitude /	Medium	Substantial	Moderate	Mnor	Mnor	Negligible	i
				Probability /	Low	Moderate	Minor	Mnor	Negligible	Negligible	i
Scenario	DS2	1		Reversibility etc)	Very Low	Mnor	Minor	Negligible	Negligible	Negligible	i
DS1	Road Scheme Impact Assessment	1			Negligible	Negligible	Neglgbis	Negligible	Negligible	Negligible	i
DS2	Road Scheme+4000 Homes Impact Assessment	1									

DS2	Road Scheme+4000 Homes Impact Assessment	1																			
	2	5	15	25		Change is	Traffic Flow/Da	ay (DMRB LA112) T				TAG Unit	A4.1 Severance Sens	itivity Table 5.1					Assessme	at of Effect	_
Link ID	Link Name	Two-way AADT (DM)	Two-way AADT (DS1)	Two-way AADT (DS2)	Traffic Flow DSM	Traffic Flow DS1	Traffic Flow DS2	Traffic Flow DM	Magnitude Step Change_DM- DS1	Step	DM Severance (without Scheme)	Severance (with Road Scheme)	DS2 Severance (Road +Home Scheme)	Change in Severance (DM DS1)	Change in Severance (DM- DS2)	Combined Magnitude of Change (DM-DS1)		Magnitude of Change (DM- DS2)	Receptor Sensitivity	Effect Sig	nificance
2655-2857	School Road (Middleton)	598	720	722	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Low	Low	Low	Very Low	Very Low	Very Low	Very Low	Very Low	High	Minor	Adverse

Very Low Low Medium Very Low Negligble Minor Moderate					
With-scheme Severance Scoring Very Low Low Medium Very Low Neglighin Minor Michael Sci With Neglighin Minor Michael Sci Without-scheme Low Minor Neglighin Minor Michael Sci Without-scheme Low Minor Neglighin Minor Mi		ing			
				Medium	High
	Very Low	Negligible	Minor	Moderate	Substantial
	Low	Minor	Neglgbis	Mnor	Moderate
everance Scoring	Medium	Moderate	Minor	Negligible	Mnor

Severance may be classified according to the following four broad levels.

- Nome Little or inharized by policitation movement.

 Nome Little or inharized by policitation movement.

 Nome Little or inharized by policitation movement.

 So but those will probably be some hindrance to movement.

 No formation Description journeys will be larger or less attractions; some people of the contractions; some people or some probably to the contraction of the described or some or some

	NMU An	nenity_202	7		Road	Sche	me Im _l	pact As	sessm	ent	
Key High	Change in Traffic Flow >160%	LTN 120 Cycle Friend 0 - 2500	Most suitable for cycling				Receptor (Sensitivity /				
Medium	>130 and <=160%	2501 - 5000	Suitable for some cyclists				High	Medium	Low	Very Low	Negligible
Low	>100% and <=130%	5000	Unlikely to be suitable for c	ycling on carriageway		High	Substantial	Substantial	Moderate	Minor	Negligible
Very Low	<100%	Key	Footway Width (m)		 (Magnitude /	Medium	Substantial	Moderate	Minor	Minor	Negligible
		High	0.0-2.0m		Probability /	Low	Moderate	Minor	Minor	Negligible	Negligible
Scenario	DS1	Medium	2.0-2.2m		Reversibility etc	Very Low	Minor	Minor	Negligible	Negligible	Negligible
DS1	Road Scheme Impact Assessment	Low	2.2m-3.3m			Negligible	Negligible	Negligible	Negligible	Negligible	Negligible
DS2	Road Scheme+4000 Homes Impact Assessment	Very Low	>3.3m			-	_	-	-	•	-
		?	5 15	25							

Link ID	Link Name	Two-way AADT (DM)	Two-way AADT (DS1)	Two-way AADT (DS2)	DS1-DM	DS1-DM (%)	Footway Width (DM)	Footway Width Sensitivity	Receptor Sensitivity	Overall Receptor Sensitivity	Magnitude	Effect Significance	
2655-2857	School Road (Middleton)	598	720	722	122	20%	1.00	High	High	High	Very Low	Minor	Adverse

	NMU An	nenity_202	27	Road Scheme+4000 Homes Impact Assessment											
Key	Change in Traffic Flow	LTN 120 Cycle Frier	dly Routes						Receptor						
High	>160%	0 - 2500	Most suitable for cycling			1			(Sensitivity	ı					
Medium	>130 and <=160%	2501 - 5000	Suitable for some cyclists						High	Medium	Low	Very Low	Negligible		
Low	>100% and <=130%	5000	Unlikely to be suitable for o	cycling on carriagewa	ıy			High	Substantial	Substantial	Moderate	Minor	Negligible		
Very Low	<100%	Key	Footway Width (m)			_	(Magnitude /	Medium	Substantial	Moderate	Minor	Minor	Negligible		
		High	0.0-2.0m				Probability /	Low	Moderate	Minor	Minor	Negligible	Negligible		
Scenario	DS2	Medium	2.0-2.2m				Reversibility etc)	Very Low	Minor	Minor	Negligible	Negligible	Negligible		
DS1	Road Scheme Impact Assessment	Low	2.2m-3.3m					Negligible	Negligible	Negligible	Negligible	Negligible	Negligible		
DS2	Road Scheme+4000 Homes Impact Assessment	Very Low	>3.3m				-								
	2	?	5 15	25											
								_							

Link ID	Link Name	Two-way AADT (DM)	Two-way AADT (DS1)	Two-way AADT (DS2)	DS1-DM	DS1-DM (%)	Footway Width (DM)	Footway Width Sensitivity	Receptor Sensitivity	Overall Receptor Sensitivity	Magnitude	Effect Significance	
2655-2857	School Road (Middleton)	598	720	722	124	21%	1.00	High	High	High	Very Low	Minor	Adverse

				DI	M								DS1							DS2							FALS		
		Traffic Flows			Fear and Intimic	lation Degree	of Hazard			Traffic Flows			Fear and Intir	midation Deg	ree of Hazard		Tr	affic Flows	5	Fear an	Intimidation D	egree of I	Hazard		Resul	ts for D	S1 _Road	Scheme	ē
Link ID Link Name	Average 18_Hour Daily Flow	al 18-hour heavy icle flow (b)	Average Speed	Average traffic flow over 18- hour day – all vehicles/hour 2- way (a)	Total 18-hour heavy vehicle flow (b)	Average vehicle speed ©	Total hazard score (a) + (b) + (C)	Level of fear and intimidation	Average 18_Hour Daily Flow	Total 18-hour heavy vehicle flow (b)	werage Speed	flow over 18- hour day – all	Total 18-hour heavy vehicle flow (b)	Average vehicle speed ©	Total hazard score (a) + (b) + (C)	Level of fear and intimidation	Average 18_Hour Daily Flow	hour heavy A vehicle flow S	verage peed	over 18-hour day – all vehicles/hour 2-way	hour heavy vehicle flow speed ©	hazard score (a)	Level of fear and intimidation	DS1_Step Change Level of F&I	Change in Total 18hr Traffic	Change in 18hr HGV Traffic	agnitude of Receptor spact Sensitivit	Eff	fect Significance
2655-2857 School Road (Middleton)	33	151	29	0	0	10	+10	Small	37	70	29	0	0	10	+10	Small	37	70	29	0	0 10	+10	Small	0	<400	<500	Negligible High	Negligi	ble Adverse

Fear and Intimidation Degree of Hazard 2027 Road Scheme+4000 Homes Impact Assessment | The contract of the c

Traffic Flows

Fear and Intimidation Degree of Hazard

Traffic Flows

Traffic Flows

Fear and Intimidation Degree of Hazard

Fear and Intimidation Degree of Hazard

Results for DS2 _Road + Housing Scheme

									Road Sa	fety O	erall Link Sens	tivity As	ssessmer	t_2027										
Key	IRAP Rating Adapted	Accident Clusters showing						Receptor																
			SCENARIO				(Ser	sitivity / Value / Impo	rtance)															
High	1	2 or more killed (K) and or 5 or more serious injuries (SI)		_																				
Medium	1	1 or more killed (K) and or 5 or more serious injuries (SI)	DS1			High	Medium	Low	Very Low	Negligible														
Low		3 2 or more serious injuries (SI)			High	Substantial	Substantial	Moderate	Minor	Negligible														
Very Low	4	5 or more slight injuries			Medium	Substantial	Moderate	Minor	Minor	Negligible														
Negligible		5		(Magnitude /	Low	Moderate	Minor	Minor	Negligible	Negligible														
	Change in Traffic Flow/Day (DMRB I A112)			Probability / Reversibility etc)	Very Low	Minor	Minor	Negligible	Negligible	Negligible														
Key	>16000	4																						
High Medium	>8.000 - 16.000				Negligible	Negligible	Negligible	Negligible	Negligible	Negligible														
Medium	>8,000 - 16,000																							
LOW		1	—			D116						DC C				1								
Very Low	<4000					DM Sen	sitivity					DS Sens	itivity			5	15	25						
Link ID	Paramics ID	Link Name	IRAP Rating	Accident Cluster Rating	Safety Sensitivity (IRAP)	Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + iRAP+Receptor Sensitivity)	IRAP Rating	ccident Cluster Safety Sensitiv Rating (IRAP)	ty Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + iRAP Sensitivity)		Traffic Flow DS1	Traffic Flow DS2	Traffic Flow Magnitude DM	Traffic Flow Magnitude DS1	Traffic Flow Magnitude DS2	Traffic Magnitude Step Change_DM- DS1	Sensitivity Step Change (DM-DS)	Effect Significance
2655-2857	19	School Road (Middleton)	3	4	Low	Very Low	Very Low	High	Low	3	4 Low	Very Low	Very Low	High	Low	584	714	716	Very Low	Very Low	Very Low	Very Low	Very Low	Negligible Neutral

Key IRAP	P Rating Adapted																					
Key IRAP	P Rating Adapted								Road Sa	fety Ov	erall Link Sensi	tivity As	sessment_20	27								
		Accident Clusters showing	1					Receptor				•	_									
			SCENARIO				/9	sitivity / Value / Impor														
High		2 or more killed (K) and or 5 or more serious injuries (SI)		_			(56)	anivity / value / impor	ionice)													
Medium	2	1 or more killed (K) and or 5 or more serious injuries (SI)	DS2			High	Medium	Low	Very Low	Negligible												
Low		2 or more serious injuries (SI)			High	Substantial	Substantial	Moderate	Minor	Negligible												
Very Low	4	5 or more slight injuries			Medium	Substantial	Moderate	Minor	Minor	Negligible												
Negligible	5			(Magnitude /	Low	Moderate	Minor	Minor	Negligible	Negligible												
Char	inge in Traffic w/Day (DMRB			Probability / Reversibility etc)																		
Key LA1					Very Low	Minor	Minor	Negligible	Negligible	Negligible												
High >160					Negligible	Negligible	Negligible	Negligible	Negligible	Negligible												
	000 - 16,000																					
Low >400	00 - 8000														_							
Very Low <400	00					DM Sens	sitivity					DS Sens	itivity		5							
Link ID	Paramics ID	Link Name	IRAP Rating	Accident Cluster Rating	Safety Sensitivity (IRAP)	Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + iRAP+Receptor Sensitivity)	IRAP Rating	cident Cluster Safety Sensitivi Rating (IRAP)	y Accident Cluster	Overall Safety + Recep Accident Sensiti	Overall Sensitivity (Accident + iRAP Sensitivity)	Traffic Flow DM		Traffic Flow DS2 Magnitude D	Traffic Flow M Magnitude DS1	Traffic Flow Magnitude DS2	Traffic Magnitude Step Change_DM- DS2	Sensitivity Step Change (DM-DS)	Effect Significance
2655-2857	19	School Road (Middleton)	3	4	Low	Very Low	Very Low	High	Low	3	4 Low	Very Low	Very Low High	Low	584	714	716 Very Low	Very Low	Very Low	Very Low	Very Low	Negligible Neutral

									Road Sa	fety O	erall Link Sens	itivity As	sessmer	nt_2027										
Key	IRAP Rating Adapted	Accident Clusters showing						Receptor																
Mak		1 2 or more killed (K) and or S or more serious injuries (SI)	SCENARIO				(Ser	sitivity / Value / Impo	rtance)															
High																								
Medium	2	1 or more killed (K) and or 5 or more serious injuries (SI)	DM			High	Medium	Low	Very Low	Negligible														
Low	3	3 2 or more serious injuries (SI)			High	Substantial	Substantial	Moderate	Minor	Negligible														
Very Low	4	5 or more slight injuries	1		Medium	Substantial	Moderate	Minor	Minor	Negligible														
Negligible	5	5]	(Magnitude /	Low	Moderate	Minor	Minor	Negligible	Negligible														
	Change in Traffic Flow/Day (DMRB		=	Probability / Reversibility etc)	Very Low	Minor	Minor	Negligible	Negligible	Negligible														
Key	LA112)																							
High	>16000				Negligible	Negligible	Negligible	Negligible	Negligible	Negligible														
Medium	>8,000 - 16,000																							
Low	>4000 - 8000															-								
Very Low	<4000					DM Sen	sitivity					DS Sens	itivity			5	15	25						
Link ID	Paramics ID	Link Name	IRAP Rating	Accident Cluster Rating	Safety Sensitivity (IRAP)	Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + iRAP+Receptor Sensitivity)	IRAP Rating	Accident Cluster Safety Sensiti Rating (IRAP)	rity Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + iRAP Sensitivity)		Traffic Flow DS1	Traffic Flow DS2	Traffic Flow Magnitude DM	Traffic Flow Magnitude DS1	Traffic Flow Magnitude DS2	ERROR	Sensitivity Step Change (DM-DS)	Effect Significance
2655-2857	19	School Road (Middleton)	3	4	Low	Very Low	Very Low	High	Low	3	4 Low	Very Low	Very Low	High	Low	584	714	716	Very Low	Very Low	Very Low	Very Low	Very Low	Negligible Neutral