

A46 Newark Bypass

TR010065/APP/6.3

6.3 Environmental Statement

Appendix 12.2 Population and Human Health Supplementary Information

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

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Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

A46 Newark Bypass

Development Consent Order 202[x]

ENVIRONMENTAL STATEMENT

**APPENDIX 12.2 POPULATION AND HUMAN HEALTH SUPPLEMENTARY
INFORMATION**

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Contents

- 1 Population and human health supplementary information 1**
- 1.1 Introduction 1
- 1.2 Demographic profile 1
- 1.3 Assessment of impacts on individual farms..... 2
- 1.4 Construction phase traffic management and diversion routes..... 6
- 1.5 Community resources in the LIA 10

1 Population and human health supplementary information

1.1 Introduction

1.1.1 The information contained within this technical appendix provides supplementary information referenced in Chapter 12 (Population and Human Health) of the Environmental Statement (ES) **(TR010065/APP/6.1)**.

1.2 Demographic profile

1.2.1 Tables 1-1 to 14 provide demographic data that has been used to support the population and human health assessment provided in Chapter 12 (Population and Human Health) of the ES **(TR010065/APP/6.1)**. The tables show population age averages for the Local Impact Area (LIA), Wider Impact Area (WIA – defined as the district of Newark and Sherwood), region (East Midlands), and England.

Table 1-1: Population: children (under 16 years)

Location	Total population, 2021	Children (under 16 years)	%
Local Impact Area	9,759	1,537	16%
Newark & Sherwood	122,954	20,991	17%
East Midlands	4,880,056	882,009	18%
England	56,490,045	10,483,091	19%

Source: Office for National Statistics, Census 2021. Available at: [Nomis - Official Census and Labour Market Statistics \(nomisweb.co.uk\)](https://www.nomisweb.co.uk)

Table 1-2: Population: young people (16-24 years)

Location	Total population, 2021	Young people (16-24 years)	%
Local Impact Area	9,759	921	9%
Newark & Sherwood	122,954	11,042	9%
East Midlands	4,880,056	538,525	11%
England	56,490,045	5,989,233	11%

Source: Office for National Statistics, Census 2021. Available at: [Nomis - Official Census and Labour Market Statistics \(nomisweb.co.uk\)](https://www.nomisweb.co.uk)

Table1-3: Population: working age (16-64)

Location	Total population, 2021	Working age (16-64 years)	%
Local Impact Area	9,759	6,240	64%
Newark & Sherwood	122,954	74,301	60%
East Midlands	4,880,056	3,046,270	62%

Location	Total population, 2021	Working age (16-64 years)	%
England	56,490,045	35,605,658	63%

Source: Office for National Statistics, Census 2021. Available at: [Nomis - Official Census and Labour Market Statistics \(nomisweb.co.uk\)](https://nomisweb.co.uk)

Table 1-4: Population: older people (65+ years)

Location	Total population, 2021	Older people (65+ years)	%
Local Impact Area	9,759	1,982	20%
Newark & Sherwood	122,954	27,665	23%
East Midlands	4,880,056	951,775	20%
England	56,490,045	10,401,301	18%

Source: Office for National Statistics, Census 2021. Available at: [REDACTED]

1.3 Assessment of impacts on individual farms

1.3.1 The assessment of impacts on individual farms is detailed in Table 1-5 below.

Table 1-5: Assessment of impacts on individual farms

Farm ID	Farm area located within LIA	Severance	Land take	Husbandry specific
01	136ha	One field on the right of the A46 near Farndon roundabout to be acquired in its entirety and half a field on the right of the A46 to be acquired. One field at Cattle Market Roundabout to be acquired in its entirety.	47 hectares to be permanently acquired.	47 hectares of land used for arable production to be permanently used which represents 34% of this landowner's farmland within the LIA.
02	117ha	Three fields would be required in full on the west side of the A46 and a further three quarters of two fields and half of a field would need to be required.	16 hectares to be permanently acquired.	16 hectares of land used for arable production and sheep grazing to be permanently acquired which represents 14% of this landowner's farmland within the LIA.
			0.5ha to be temporarily required.	0.5% hectares of land used for arable production and sheep grazing to be temporarily used which represents 0.4% of this landowner's farmland within the LIA.
03	240ha	Three fields to be acquired in	18 hectares	18 hectares of land used

Farm ID	Farm area located within LIA	Severance	Land take	Husbandry specific
		their entirety.	to be permanently acquired.	for arable production and horticulture to be permanently acquired which represents 8% of this landowner's farmland within the LIA.
04	112 ha	Two fields to be acquired in their entirety and half of one field to be used for flood compensation purposes. This may result in access routes to fields in the south being severed.	6 hectares to be temporarily used to establish floodplain compensation uses.	6 hectares of land used for arable production and horticulture to be temporarily used to establish use for floodplain compensation purposes which represents 5% of this landowner's farmland within the LIA.
05	Farm 05 is no longer required			
06	81 ha	<p>A third of one field to be used temporarily and part of this to be acquired permanently on the east side of the A46.</p> <p>A third of one field to be acquired permanently on the west side of the A46. Towards the north of the Scheme only part of two fields will be affected by acquisition as these currently adjoin the existing A46. Access routes will be severed between these fields.</p>	2 hectares of land to be permanently acquired.	2 hectares of land to be permanently acquired which represents 3% of this landowner's farmland within the LIA.
			2 hectares of land to be temporarily affected.	2 hectares of land to be temporarily used which represents 3% of this landowner's farmland within the LIA.
			0.08 hectares of land to be used temporarily but subject to permanent rights.	0.08 hectares of land to be used temporarily but subject to permanent rights which represents 0.1% of this landowners farmland within the LIA.
07	50 ha	Whole of one field to be required and one eighth of a strip of another along the A617 required to establish floodplain compensation area. Small section of another field to be required permanently and a further area where rights will be acquired. Access to this area unlikely to be affected.	7.5 hectares to be permanently acquired.	7.5 hectares of land used for arable production and horticulture to be permanently acquired for flood compensation purposes which represents 15% of this landowner's farmland within the LIA.
			2 hectares to be used temporarily but subject to permanent rights.	2 hectares of land used for arable production and horticulture to be used temporarily with permanent rights to access a drainage ditch which represents 4% of this landowner's farmland within the LIA

Farm ID	Farm area located within LIA	Severance	Land take	Husbandry specific
08	13 ha	A small section of one field used for two types of agriculture to be required for environmental mitigation purposes. Access routes into the field from the A46 may become restricted.	1 hectare to be permanently acquired.	1 hectare of land used for pasture to be permanently acquired, which represents 7% of this landowner's farmland within the LIA.
			0.1 hectare to be temporarily required.	0.1 hectare of land used for pasture required for temporary use which represents 0.5% of this landowner's farmland within the LIA.
09	8 ha	Six fields required in their entirety on the north side of the A46. The majority of one field to be used on the south side of the A46. Half of one field between the A46 and Kelham Road to be required.	5 hectares of land to be permanently acquired.	5 hectares of land used for horse grazing and arable production to be permanently acquired which represents 60% of this landowner's farmland within the LIA.
			0.08 hectares of land to be used temporarily	0.08 hectares of land used for horse grazing and arable production to be temporarily acquired which represents 0.1% of this landowner's farmland within the LIA.
			0.26 hectares of land to be used temporarily but subject to permanent rights acquisition	0.26ha of land used for horse grazing and arable production to be used temporarily but subject to permanent rights acquisition which represents 3% of this landowner's farmland within the LIA
10	5.4 ha	One field to be acquired nearly in its entirety.	1.6 hectares to be permanently acquired.	1.6 hectares of land used for arable production and sheep pasture to be permanently acquired which represents 30% of this landowner's farmland within the LIA.
11	28 ha	Access route in the south A46 underpass between fields to be severed temporarily.	1.5 hectares to be used temporarily.	1.5 hectares of land used for arable production to be used temporarily which represents 6% of this landowner's farmland within the LIA.
			1.3 hectares to be acquired	1.3 hectares of land used for arable production to be acquired permanently

Farm ID	Farm area located within LIA	Severance	Land take	Husbandry specific
			permanently.	which represents 5% of this landowner's farmland within the LIA.
12	0.78 ha	Less than a quarter of one field to be acquired.	0.14 hectares to be acquired permanently.	0.14 hectares of land used for horse grazing to be permanently acquired which represents 18% of this landowner's farmland within the LIA.
			0.01 hectare to be used temporarily.	0.01 hectare of land used for horse grazing to be used temporarily which represents 1% of this landowner's farmland within the LIA
			0.02 hectares to be to be used temporarily but subject to permanent rights acquisition.	0.02 hectares of land used for horse grazing to be used temporarily but subject to permanent rights acquisition which represents 2.5% of this landowner's farmland within the LIA.
13	Farm 13 is no longer required			
14	17.2	A quarter of a field to be used temporarily and a quarter of the same field to be acquired for planting.	2.7 hectares to be permanently used.	2.7 hectares of land used for sheep grazing to be permanently acquired which represents 15% of this landowner's farmland within the LIA.
			2.7 hectares of land to be temporarily acquired.	2.7 hectares of land used for sheep grazing to be temporarily acquired which represents 15% of this landowner's farmland within the LIA.
15	9.8	Half of two fields required, and one third of two adjacent fields required. Access routes on to the fields via Quibell's Lane are required.	2.3 hectares of land to be used temporarily.	2.3 hectares of land used for horse grazing to be temporarily acquired which represents 24% of this landowner's farmland within the LIA.
			0.14 hectares to be used temporarily but subject to permanent rights	0.14 hectares of land used for horse grazing to be used temporarily but subject to permanent rights which represents 1.4% of this landowner's farmland within the LIA.
16	12	One field to be acquired in its entirety.	1.7 hectares to be acquired	1.7 hectares of land used for cattle grazing will be permanently acquired

Farm ID	Farm area located within LIA	Severance	Land take	Husbandry specific
			permanently.	which represents 17% of landowner's farmland within the LIA

1.4 Construction phase traffic management and diversion routes

1.4.1 Construction phase traffic management and diversion routes for roads and WCH routes are presented in Table 1-6 and Table 1-7 below.

Table 1-6: Construction phase traffic management and diversion routes for roads

Road closure	Proposed diversion route	Magnitude of impact
A46 between Farndon and 750m north of Winthorpe Roundabout.	Speed restrictions would be in place from when the works requiring traffic management commence, until completion. Lane closures during weekdays would be between the hours of 20:00 and 06:00 (traffic count dependent) and full closures from 21:00 to 06:00 (traffic count dependent). During weekends, closures could be in effect for 24 hours. Two-lane running would be maintained on the A46 between Friendly Farmer and Winthorpe roundabouts and the A1 during weekday peak traffic hours (between 06:00 and 21:00) to minimise the disruption to traffic flows. The exception to this would be for the installation of the A1 bridge crossing and the tie-in of the new A46 alignment to the existing. All diversion routes for full closures would be pre-signed, and advance warning signs would be installed prior to the closure dates.	Negligible
Crees Lane	Temporary traffic lights and lane closures for the construction of the works access points.	Negligible
Farndon Roundabout	Narrow lanes and temporary barrier with speed restrictions to construct new lane inside the existing roundabout. Full and lane closures to complete pavement and road markings.	Negligible
Construction of northbound carriageway	Traffic management would predominantly take the form of narrow lanes and speed restrictions.	Negligible
Cattle Market Junction	Multi-phased traffic management solution to maintain traffic movements and create safe working areas to construct the new junction. This would require off peak lane and full closures of the A46, A616 and the Great North Road.	Negligible
Great North Road	Narrow lanes and temporary barrier with speed restrictions to widen the Grade II Causeway Arches 500m north west of level crossing.	Negligible
Quibell's Lane	Temporary traffic lights to construct Bellmouth for temporary access track.	Negligible

Road closure	Proposed diversion route	Magnitude of impact
	Diversion required for the closure of Quibell's Lane during the construction of the Sewage Treatment Works.	
Winthorpe Road	Multi-phased traffic management solution to maintain traffic movements and create safe working areas to construct the new junction.	Minor
A1	Night-time lane closures and full closure of the A1 northbound to construct the works access into the bridge fabrication area. Full weekend closure of the A1 (Friday night to Sunday afternoon) to install the A1 bridge deck.	Negligible
Friendly Farmer roundabout to Winthorpe Roundabout	Multi-phased traffic management solution to maintain traffic movements and create safe working areas to construct the new junction.	Minor
Winthorpe Junction	Multi-phased traffic management solution to maintain traffic movements and create safe working areas to construct the new junction.	Minor
Southbound carriageway	Traffic would be moved onto the new northbound carriageway to allow the modifications to be undertaken to the existing carriageway. Temporary speed restrictions would be retained due to the anticipated tie-in works at the junctions.	Negligible
Kelham flood compensation	Traffic lights, narrow lanes and speed restrictions on the A617 for the construction of the work access points.	Negligible

Table1-7: Construction phase traffic management and diversion route for WCH routes

Public Right of Way	Impact	Duration	Proposed diversion route
Newark BW2	Temporary closure and diversion during construction of Windmill Viaduct.	24 months	<p>Walkers and cyclists Divert west along Farndon FP4 then south along Farndon FP2 onto Marsh Lane and Farndon FP5, south through field adjacent to Cress Lane, across temporary crossing at Cress Lane, under A46 underpass, along footway/cycleway and north on Newark FP3 to rejoin BW2.</p> <p>Equestrians Divert west along access track from Marsh Lane, head north along Newark FP5, head south through field adjacent to Cress Lane, across temporary crossing at Cress Lane, under A46 underpass, along footway/cycleway and north on Newark FP3 to rejoin BW2. The segregation between BW2 and the working area for the Windmill Viaduct will be design and installed such as to permit access to the driveway to Windmill cottage.</p>
Newark FP14	Permanent closure	Closed in enabling works	Crossing is not currently used due to safety hazards associated with crossing the A46. Foot traffic diverted along Kelham Road and Great North Road and utilise the route of the existing Trent Valley Way.
Footpath/cycleway along Great North Road	Temporary diversions during construction and permanent re-alignment	30 months	The construction of the new Cattle Market grade separated junction requires multiple construction phases to manage the traffic movements around the existing junction. Temporary signalised crossings would be installed during construction to segregate active travel users from the construction operations.
Newark BW6	Temporary closures with marshals	10 weeks - 4 weeks of marshal control in enabling works and 6 weeks of marshal control in main works.	The bridleway would need to be temporarily closed during the construction and demobilisation of the temporary bridge crossing at Nether Lock. A diversion of BW6, would be installed around the works area during this period. Access along the Bridleway would be controlled by

Public Right of Way	Impact	Duration	Proposed diversion route
			marshals during the installation of the new bridge deck elements to the Nether Lock Viaduct. Temporary bridge abutment working area on the south side of the riverbank would be segregated from the WCH route during the works.
Newark FP48#1	Temporary closure and diversion	24 months	Footpath would be impacted during the construction of the Crankley Point Sewage Treatment Works underpass extension and the earthworks operations associated with the embankment widening. The footpath would be diverted south on Quibell's Lane to Newark BW10, cross the Lincoln Road railway bridge and join the Trent Valley Way to join Newark BW5.
National Cycle Network 64 and Trent Valley Way along Winthorpe Road	Temporary closure and diversion during construction and diversion onto new permanent alignment.	Phased diversions over 24 months	National Cycle Network 64 and the Trent Valley Way along the Winthorpe Road would be impacted by the construction of the new A46 dual carriageway and slip road at the Brownhills Junction. The existing footway on the southbound side of the road would be cleared and segregated to provide a segregated route along Winthorpe Road. The construction of the new junction would be phased, such that the new footway/cycleway would be constructed and put into operation before the earthwork operations commence over the Winthorpe Road.
Winthorpe FP2	Permanent realignment	Section stopped up in pre-commencement works	There is currently no link between Winthorpe FP2 and FP3 across the A46. During construction FP2 would be permanently stopped up approximately 100 metres before the A46. A new WCH alignment would be constructed along the alignment of the private means of access creating a circular WCH route between Winthorpe roundabout and the Friendly Farmer roundabout.
Winthorpe FP3	Permanent realignment	Section stopped up in	There is currently no link between Winthorpe FP2 and

Public Right of Way	Impact	Duration	Proposed diversion route
		pre-commencement works	FP3 across the A46. FP3 currently joins the footway/cycleway along the southbound carriageway of the A46. FP3 would rejoin the new footpath/cycleway that would be constructed in the verge of the new Friendly Farmer link road.
Footway along the A46 between Drove Lane and Friendly Farmer Roundabout	Temporary closure and diversion during construction and diversion onto new permanent alignment.	18 months	The footway would be temporarily diverted to the south of its existing alignment prior to the start of the construction of the new Friendly Farmer Link.

1.5 Community resources in the LIA

1.5.1 Table 1-8 below lists out all community resources within the LIA identified on the community resources map Figure 12.4 (Community Resources in the Local Impact Area) of the ES Figures (TR010065/APP/6.2). The identified resources are grouped by type.

Table 1-1: Community resources in the LIA

Type of receptor	Name	Address
Care / Nursing Home	Red Rose Nursing Home	Brockton Avenue
	Branching Out Young Persons Service	Kings Road
	Red Firs Residential Care Home	Strawberry Hall Lane
Children's Nursery / Crèche	Rainbow Day Nursery	Great North Road
	Tolney Lane Nursery	Tolney Lane
	Breedon House	Great North Road
	The Appleton Day Nursery	Appleton Gate
	Serendipity Day Nursery	Appleton Gate
	Explorers Childcare Day Nursery	Wolsey Road
	Country Kids Day Nursery	Lincoln Road
	Children's Nursery	Fosse Road
Place of Worship / Church Hall / Religious Meeting Place / Hall	St Michael's Church	Church Lane
	St Wilfrid's Church	Main Road
	All Saints Church	Gainsborough Road
	St Leonards Hall	Lovers Lane
	St Leonards Church	Lincoln Road
	Church Of Promise	Winthorpe Road
	Kingdom Hall Of Jehovah's Witnesses	Parliament Street
College	Newark College The Sherwood Centre	Kirk Gate
Community Service Centre /	Resource Centre, Stephenson House	Mather Road

Type of receptor	Name	Address
Office	Canals And River Trust	Mill Lane
	Bridge Community Centre	Lincoln Road
	Kirkgate Dental Surgery	Kirk Gate
Hospital / Hospice	Farndon Unit	Farndon Road
Indoor / Outdoor Leisure / Sporting Activity / Centre	Dms Grp Ltd	Farndon Road
	Anytime Fitness	Castle Gate
	Farndon Bowling Club	Marsh Lane
	Newark Marina Ltd	Farndon Road
	Newark Castle Line Ltd	Castle Gate
	Newark Martial Arts	Castle Gate
	Farndon Cricket Club	Marsh Lane
	UK Superbowl	Castle Gate
	Newark Rowing Club	Farndon Road
	Sports Ground	Kelham Road
	Cycle Hub	Great North Road
	P H P Gymnasium	Hawton Lane
	The Renaissance at Kelham Hall	Main Road
	British Sugar Corporation Ltd Sports Ground	Great North Road
	Arena Health And Fitness UK	Warwick Brewery
	Premier Health and Fitness Club	Appleton Gate
	Newark And District Scout Headquarters	George Street
	Studio 54 Fitness	Queens Road
	Jolly Jungle Playland Ltd	Northern Road
	S D I Fitness (Newark) Ltd	Northern Road
	776 Gymnastics	Malkiln Lane
	Robin Hood Entertainment & Soft Play	Malkiln Lane
	Laycock And Pollock	Appleton Gate
	Outdoor Bowls Club	Fosse Road
	Fosse Way Crossfit	Brunel Drive
	Elk Motorsport	Fosse Road
Newark Indoor Bowls Centre Ltd	Fosse Road	
Job Centre	Jobcentre Plus	Great North Road
Medical	Clark & English Newark Chiropractor Clinic	Castle Gate
Other Educational Establishment	Sues Kitchen	Kelham Road
	Inspire Buttermarket	Middle Gate
	Lovers Lane Primary & Nursery School	Warburton Street
	Bishop Alexander Lead Academy	Wolsey Road
Primary School	St. Peters Cross Keys Academy	Sandhill Road
	Winthorpe Primary School	Gainsborough Road
Public / Village Hall / Other Community Facility	Winthorpe Community Centre	Woodlands
	George Stephenson Exhibition Hall	Fosse Road

Type of receptor	Name	Address
	Family Action Beaumont Walk Food Club	Beaumont Walk
	Winthorpe Village Hall	Gainsborough Road
	Bridge Childrens Centre	Fosse Road
Public Open Space / Nature Reserve	Land to the rear of De Havilland Way	De Havilland Way