



North of England Commissioning Support

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# Rothbury Travel Impact Analysis

July 2017

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Criteria	
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Checked By	Richard Sims

## Version History

Version	Author	Comments
1	AH	





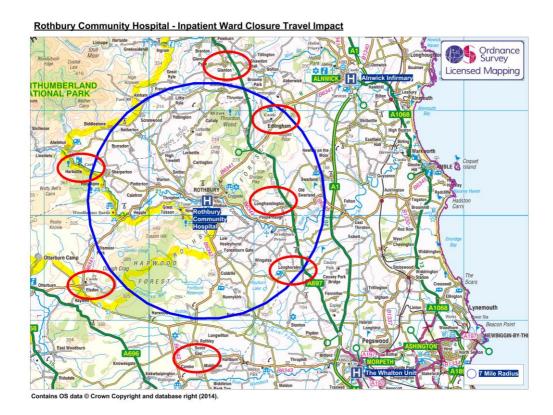
#### Introduction

This paper will explore the travel impact (journey costs and times) for residents having to travel to Alnwick Infirmary or The Whalton Unit, Morpeth as a result of the closure of the inpatient ward at the Rothbury Community Hospital.

The map below shows where these three hospitals are located across Northumberland. The areas circled in **red** have been selected as most affected areas. The **blue** circle represents the average distance travelled for patients attending Rothbury Community Hospital (7 miles) during April 2014 to October 2016.

The modes of transport being explored in this paper include bus routes, fastest and shortest car journeys and taxi services.

Travel distances and costs by car, bus and taxi have been identified from Rothbury to Alnwick & Morpeth and from the settlements circled on the map to Rothbury, Alnwick & Morpeth, using Northumberland.gov.uk (links to Traveline North East & Arriva) for the bus routes, google maps for the car journeys and Blue line taxis for the taxi services.



## **Population Statistics**

The areas which are being considered for where patients are traveling form are:

Area	Population	Area (Hectares)	Population density
North East	2,596,886	857,317	3.0
Northumberland	316,028	501,302	0.5





Area	Parish	Population	Area (hectares)	Density
Central	Rothbury	2107	393	5.6
North	Glanton	239	514	0.6
North	Edlingham	191	4,237	0
West	Harbottle	256	4,145	0.1
West	Elsdon	242	4,969	0
South	Scots Gap*	369	2,837	0.1
East	Longhorsley	887	2,513	0.3
East	Longframlington	1,032	2,063	0.5
Total		5,323	21,671	0.2

Value derived by aggregating data supplied using the Neighbourhood Statistics Geography Hierarchy – Parish boundaries\*Scot Gap is within the Parish of Wallington Demesne – Northumberland

With the exception of central Rothbury the population density is relatively small total population of these areas are 5,323, within an area or 21,671 hectares population density of 0.24 people per hectare.

## **Rothbury Community Hospital**

Rothbury Community Hospital is located in the south side of the village. With effect from Friday 2 September 2016, the 12-bed inpatient ward has been temporarily closed to admissions. All other services that operate from the hospital will continue as normal, such as physiotherapy, occupational therapy, outpatient, child health clinics and community paramedic services.

This paper will be looking at the inpatient activity at Rothbury Community Hospital for the 30 month period April 2014 to September 2016. During this period:

#### **Inpatient Activity**

203 patients, with a total of 367 admissions.

This is based on patients admitted to Rothbury for the complete consultant episode only. A small number of additional patients were transferred to Rothbury from another site during their hospital episode, and although these do not form part of the work described here, analysis shows that inclusion of these patients would have had no impact on the findings.

#### **Admissions**

- Average number of admissions per patient was 1.8
- 69% (140/203) of the patients having only one stay

#### Length of stay – hospital duration

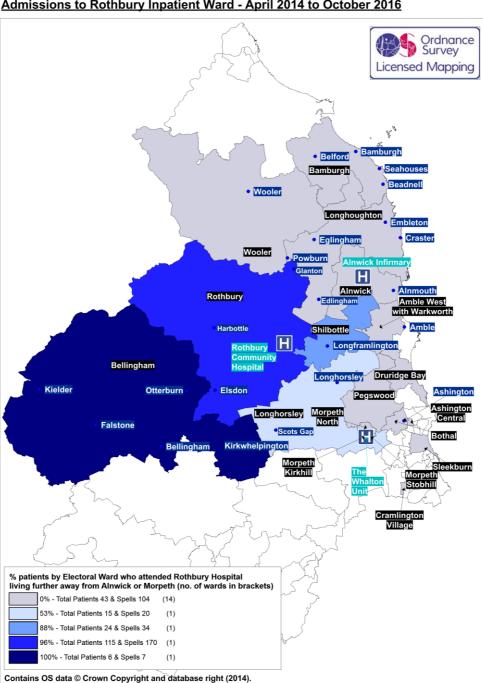
- Longest length of stay 89 days
- Average (mean) length of stay 12 days
- 3.2% (12/367) of admissions were completed on the same day, as day cases





## **Travel Impact**

Based on the patients' ward of residence, 21% (43 of 203) would be closer to Alnwick Infirmary or The Whalton Unit, Morpeth than Rothbury Community Hospital. The map below shows the areas which would have been most affected if patients had to travel to Alnwick Infirmary or The Whalton Unit, Morpeth.



Rothbury Community Hospital - Inpatient Ward Closure Travel Impact Admissions to Rothbury Inpatient Ward - April 2014 to October 2016

All of the patients living in the Bellingham ward, 96% of the patients living in the Rothbury ward, 87% of the patients living in Shilbottle ward and 53% of patients living in Longhorsley ward who had attended Rothbury Community Hospital would have had to travel further to Alnwick Infirmary or The Whalton Unit Morpeth.





#### Distance travelled

Patients on average travelled 7 miles from their usual place of residence to Rothbury Community Hospital for the time period covered in this analysis. This would have been a total of 1,416 miles one way if each patient attended only once. Due to multiple attendances by 29% of patients this journey distance increased to 2,489 miles for the total admissions.

From the 203 patients, 145 would have to travel further if they were either admitted to Alnwick Infirmary or The Whalton Unit, Morpeth and all lived in the following wards

- Bellingham
- Rothbury
- Shilbottle
- Longhorsley

These 145 patients on average travelled 3.8 miles with the closest patient only travelling 0.4 miles from the site and the furthest had a 15 mile journey. The overall distance travelled by these patients was 841 (average 5.8) miles for the 214 admissions from the 145 patients living nearer to Rothbury. If they were to go to the next nearest site this would increase by 1,994 miles with the average journey increasing by 13.8 miles.

The remaining 58 patients admitted to Rothbury Community Hospital would have to travel less if they were either admitted to Alnwick Infirmary or The Whalton Unit, Morpeth. These patient on average travelled 15 miles, with the closest patient only 8.8 miles from the site and the furthest 27 miles away. The overall distance travelled by these patients was 1,648 (average 28.4) miles for the 121 admissions. If they were to go to the next nearest site this would reduce by 823 miles, with the average journey being 14.2 miles less.

## **Mode of transport**

The information used in this analysis does not contain the mode of transport each patient used. It has been assumed that one of the following has been used: bus, car, taxi or patient transport. NECS does receive information about the use of the patient transport system, but it is not detailed enough to show which patient used it to either convey them to Rothbury Community Hospital as an inpatient or their return journey. Appendix I details direction and transport to each site.

## **Travel Impact**

This section looks at bus journeys between selected areas and the hospital sites and excludes any further commute from the closest bus stop to the final destination.

The journey time from Rothbury to Alnwick Infirmary is 25 minutes, this would have added an extra 68 hours to travel times if all the 165 admissions (110 patients resident in the Rothbury Ward) attended Alnwick Infirmary and used public transport. The journey time from Rothbury to The Whalton Unit, Morpeth is 36 minutes adding an extra 99 hours travelling times for the same cohort of patients.

Patients travelling from Edlingham or Glanton would have a shorter journey and travelling time to Alnwick Infirmary. Patients in Longhorsley would see little change if they need to commute to The Whalton Unit.

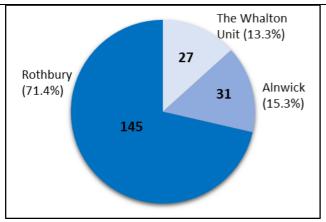




If a patient travelled to Alnwick Infirmary from the various locations identified in Appendix III the patient journey times would increase on average by 7 miles adding an extra 9.5 minutes and if Blueline Taxis were used this would equate to £10.55 per journey. Similarly if patient were to travel to The Whalton Unit the impact would on average increase the commute to 5.5 miles, 9.5 minutes and £8.48 if a taxi was used.

## **Closest site for patient**

# The site which would be closest for the 203 patients with Rothbury Community Hospital open



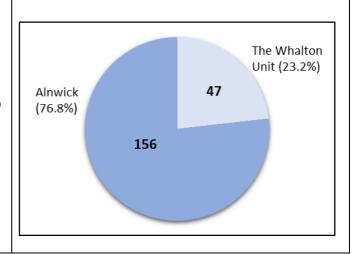
This illustration shows the proportion of which site would be closest if the hospital remained open for the 203 patients who attended Rothbury Community Hospital during April 2014 to September 2016:

- 71.4% (145 patients) Rothbury was their closest site
- 15.3% (31 patients) Alnwick Infirmary was their closest site
- 13.3% (27 patients) The Whalton Unit,
  Morpeth was their closest site

# The site which would be closest for the 203 patients with Rothbury Community Hospital closed

This illustration shows the proportion of which site would be closest with the hospital closed for the 203 patients who attended Rothbury Community Hospital during April 2014 to September 2016:

- 76.8% (156 patients of 203) Alnwick Infirmary would be the closest site
  - with 31 of the 156 patients living closer to Alnwick than Rothbury
- 23.2% (47 patients of 203) The Whalton Unit, Morpeth would be the closest site
  - with 27 of the 47 patients living closer to Morpeth than Rothbury



## **Summary**

Over a 30 month period from April 2014 to September 2016, 203 patients were admitted to Rothbury Community Hospital, 59% were discharged on the same day.





From the 203 patients admitted 31 lived closer to Alnwick Infirmary and 27 closer to The Whalton Unit. If these 58 patients attended their closest site on average the patient commute to hospital would be 14.2 miles less per admission.

The total distance for the 203 patients from their place of residence to Rothbury Community Hospital was 1,416 miles, this would increase by 837 miles if each patient travelled to the next nearest site.

Alnwick Infirmary would be the next closest site for 86% of those patients who lived closer to Rothbury Community Hospital.

Patients living in wards west of Rothbury (Rothbury & Bellingham) would be most affected having to travel further to Alnwick Infirmary or The Whalton Unit. From Harbottle there are only 2 bus services to Rothbury on a Tuesday and Thursday and no bus services direct to Alnwick or Morpeth. By car there would be an additional 12 miles (20 minutes) to Alnwick Infirmary. From Elsdon there are no direct bus services to Rothbury, Alnwick or Morpeth. By car there would be an additional 6 miles (7 minutes) to The Whalton Unit, Morpeth.

The additional travelling distance, both by care and bus would clearly also result in increased travelling time for those concerned.





## **Appendix I**

**Directions & Transport** 

#### **Rothbury Community Hospital**

#### Location

Rothbury Cottage Hospital is located in the village on south side of the River Coquet.

#### By road

From the A1 turn left onto A697 signposted Rothbury/Coldstream. Turn left onto B6344 signposted for Rothbury. Continue straight ahead onto B6341 (Town Foot). Once you have reached Rothbury follow the signs to turn left at the Jubilee Hall onto Bridge Street, and then turn right onto Whitton Bank Road with the hospital is on the right.

#### By bus

There are a number of services which stop directly in the centre of Rothbury. The community hospital is a ten minute walk from the bus stop. Up-to-date bus information is available from the Traveline service (http://www.traveline.info/).

#### By rail

Rothbury is not accessible by rail.

#### **Alnwick Infirmary**

#### Location

Alnwick Infirmary is located on the outskirts of the town of Alnwick Infirmary, Northumberland.

#### By road

From the north: From the A1 take the second exit for Alnwick Infirmary. At the first roundabout turn right, then turn left at second roundabout. Continue for about 400 metres with the hospital on the right. From the south: From the A1 take the first exit for Alnwick Infirmary. At the first roundabout go straight on, then turn left at second roundabout. Continue for about 400 metres with the hospital on the right.

#### By bus

Up-to-date bus information is available from the Traveline service (http://www.traveline.info/).

#### By rail

Closest railway station is Alnmouth (for Alnwick Infirmary) Station. Timetables of all services are available from The Trainline (www.thetrainline.com).





#### **Whalton Unit, Morpeth**

#### Location

The Whalton Unit is situated, off the A1, on the approach road into the town of Morpeth.

#### By road

From the A1 South: Take the first exit for Morpeth, continue along A197 for 1.5 miles with the hospital on your right.

From the A1 North: Take the first exit for Morpeth continue along A192. Turn left at roundabout, continue along the A192. Turn right at roundabout, continue along the A192, Turn right at roundabout continue for 0.5 miles with the unit on your left.

#### By bus

Up-to-date bus information is available from the Traveline service (http://www.traveline.info/).

#### By rail

The Whalton Unit is a 10 - 15 minute walk from Morpeth railway station. Timetables of all services are available from The Trainline (www.thetrainline.com).





## **Appendix II**

Rothbury Community Hospital - Inpatient Ward Closure Travel Impact

### **Bus Routes and Travelling Times (Week Days)**

Harbottle - The number 16 (PCL Travel), runs only two services to Rothbury, Queens Head on a Tuesday and Thursday. There is no bus services direct to Morpeth or Alnwick.

Elsdon - There is no bus services direct to Rothbury, Morpeth or Alnwick.

	Scots Gap													
					Rothbury Community Hospital									
	Depart	Arrive	Changes	Duration (bus & Walking)	Services	Comments								
Scate Can	11:18	14:34	1	03:16	M1 (PCL Travel) to Morpeth & X14 to Thropton (Arriva Northumbria)	No Return from Scots Gap to Rothbury in the same day								
Scots Gap	15:03	15:47	0	00:44	M1 to Thropton (PCL Travel)									
Return	10:50	11:24	0	00:34	M1 to Morpeth (PCL Travel)									
Return	12:51	15:09	1	02:18	X14 to Newcastle (Arriva Northumbria), M1 to Thropton (PCL Travel)									
					The Whalton Unit, Morpeth									
Ct- C	11:18	11:58	1	00:40	M1 to Morpeth (PCL Travel) & X15 to Newcastle (Arriva Northumbria)	1 return bus on the same day								
Scots Gap	15:03	16:46	2	01:43	M1 to Thropton (PCL Travel), M1 to Morpeth (PCL Travel), X14 Newcastle (Arriva Nor	thumbria)								
Dations	09:39	11:24	2	01:45	X14 to Morpeth (Arriva Northumbria), M1 to Thropton (PCL Travel), M1 to Morpeth (I	PCL Travel)								
Return	14:24 15:09 1 00:45 X18 to Berwick (Arriva Northumbria), M1 to Thropton (PCL Travel)				X18 to Berwick (Arriva Northumbria), M1 to Thropton (PCL Travel)									

	Longhorsley												
		Rothbury Community Hospital											
	Depart Arrive Changes Duration (bus & Walking) Services Comments												
Longhorsley			0	00:35	X14 to Thropton (Arriva Northumbria)	Sevices run from 6:53 am until 19:13 pm							
Longitorsiey			0	00:29	M1 to Thropton (P C L Travel)	Sevices full from 0.33 and until 13.13 pm							
						·							
Return			0	00:36	X14 to Newcastle (Arriva Northumbria)	Sevices run from 6:32 am until 18:57 pm							
Ketuiii			0	00:23	M1 to Thropton (P C L Travel)	Sevices full from 0.32 am until 18.37 pm							
					The Whalton Unit, Morpeth								
			0	00:26	X14 to Newcastle (Arriva Northumbria)	Sevices run from 7:00 am until 17:25 pm							
Longhorsley			•			19:25 is the last bus, travelling on the X14 and changing							
Longitorsiey						to the X18 at Morpeth Bus Station. Duration 1 hour 11							
						minutes.							
Return			0	00:32	X14 to Thropton (Arriva Northumbria)	Services run from 8:34 am unti 18:49 pm							

	Rothbury Community Hospital													
	Depart	Arrive	Changes	Duration (bus & Walking)	Services	Comments								
Longframlington			0	00:29	X14 to Thropton (Arriva Northumbria)	Services run from 6:59 am unti 19:19 pm								
Return			0	00:30	X14 to Newcastle (Arriva Northumbria)	Services run from 6:32 am unti 18:57 pm								
					The Whalton Unit, Morpeth									
			0	00:34	X14 to Newcastle (Arriva Northumbria)	Services run from 6:52 am unti 17:17 pm								
						19:17 is the last bus, travelling on the X14 and changin								
Longframlington						to the X18 at Morpeth Bus Station. Duration 1 hour 19								
						minutes.								
Return			0	00:40	X14 to Thropton (Arriva Northumbria)	Services run from 8:34 am unti 18:49 pm								
					Alnwick Infirmary									
			1	Various times from 57	X14 to Thropton (Arriva Northumbria) & 15 (P C L Travel) from Rothbury									
Longframlington			1	mins to 2 hours 20 mins	X14 to Morpeth (Arriva Northumbria) & X15 to Alnwick (Arriva Northumbria)	Services run from 6:59 am unti 19:17 pm								
			1	(Majority 1 hour 48	X14 to Newcastle (Arriva Northumbria) & X18 (Arriva Northumbria) from Morpeth									
Return			1	Various times from 59	15 (P C L Travel) & X14 (Arriva Northumbria)									
			1	mins to 2 hours 3 mins	X15 (Arriva Northumbria) & X14 (Arriva Northumbria)	Services run from 7:42 am unti 18:07 pm								
			1	(Majority 1 hour 22	X18 (Arriva Northumbria) & X14 (Arriva Northumbria)									

					Rothbury Community Hospital						
					Alnwick Infirmary						
	Depart	Arrive	Changes	Duration (bus & Walking)	Services	Comments					
						Services run from 7:45 am unti 11:45 am and a bus at					
						15:50. Other Services with a change take 2 hours (Last					
Rothbury Hospital			0	00:39	15 (P C L Travel)	bus is 19:01 with a duartion of 2 hours 4 minutes					
						Services run from 8:48 am unti 17:28 pm. Other services					
						with a change take around 1 hour 37 mins (Last bus is					
Return			18:07 with a duration of 1 hour 37 minutes)								
					The Whalton Unit, Morpeth						
						Services run from 6:36 am until 17:01 pm. Other services					
						with a change take around 1 to 2 hours. 19:01 is the last					
						bus, travelling on the X14 and changing to the X18 at					
Rothbury Hospital			0	00:50	X14 to Newcastle (Arriva Northumbria)	Morpeth Bus Station. Duration 1 hour 35 minutes.					
						Services run from 8:34 am until 18:49 pm. Other services					
Return			0	00:55	X14 to Thropton (Arriva Northumbria)	with a change take around 1 to 1 hour 45 mins					





## **Appendix III**

Part		R	othbury Cor	nmunity H	ospital						Alnwick Inf	irmary						The Whalton Unit, Morpeth												
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Series Se						28.18 £25.90				14	15	29.25	47.12	£46.90	13.07	18.94	£21.00				5.7	/	19.31	30.5	131.90	3.73	8.32	£6.00		
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Set Monthorn   Val 86342	West Woodburn	via B6342	21.9	37			via A1	35.6	56									via A696 and B6524	24.5	38										
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Harthum Via 96342 145 26 14.54 25.5 [22.49] via A1 22.5 [22.49] vi	,					32.22 £30.40				9.4	11	27.53	42.27	£43.90	9.45	10.05	£13.50	0 via B6524	8.7	16	-9.4	-17	8.68	16.08	£15.40	-9.4	-16.14	-£15.00		
Hartburn   wia Longwitton and 8634   1.7   2.9	-																													
Stanton wia B6344 12.3 27 12.5 26.8 22.1 wia A697 22.9 3.8 wia A697 and A192 7.5 16 7.23 15 £13.00 wia A1 19 30 11.5 14 19.15 30.58 £3.10 11.9 15.50 £13.00 wia A1 13.3 28 wia A697 and B6341 10.9 23 12.77 22.1 £21.40 wia A697 and B6341 11.9 12.8 21 12.77 22.1 £21.40 wia A697 and B6341 12.8 21 12.8 wia A697 and B6341 11.9 18 11.87 18.38 £19.00 wia A697 and B6341 11.9 18 11.87 18.38 £19.00 wia A697 and B6341 11.9 18 11.87 18.38 £19.00 wia A697 and B6341 11.9 18 11.87 18.38 £19.00 wia A697 and B6341 11.9 18 11.87 18.38 £19.00 wia A697 and B6341 11.0 0 10.79 17.77 £18.40 1.0 0.05 11.5 15.0 0.05 11.5 15.0 0.05 11.5 12.8 7.9 11.1 5.0 0.05 2.0 0.05 11.5 12.0 0.05 11.5			-			25.5 £22.40				9	8	3 23.51	34.02	£37.90	8.97	8.52	£15.50				-5.9	-9	8.64	16.85	£15.40	-5.9	-8.65	-£7.00		
Stanton via 86342 12.5 28						25 02 524 4						10.00	20.00	ca= 40		4.05	CC 04				-	_	7.00	40.75	542.00	4.07	0.00	67.50		
Numykirk Via B6342 7.5 16 7.2 15 £13.90 via A1 19 30 11.5 14 19.1 30.8 £31.90 11.9 15.8 £18.00 via A93 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 30 3.8 14 13.27 26.8 £22.90 6.04 11.8 £9.00 via A93 30 30 3.8 14 13.27 26.8 £22.90 12.3 13.2					-	26.83 £21.40				4.4		2 16.66	28.68	£27.40	4.41	1.85	±6.00				-5	-/	7.28	18.75	£13.90	-4.97	-8.08	-£7.50		
Numykirk via Ritton Bank and B634 8.6 23			-			15 612 00				11 5	1/	1 10.15	20.50	C21 00	11.02	15 50	C10 O		_		2.0	14	12 27	26.0	C22.0C	6.04	11 0	60.00		
Newton-on-the   via B6344   10.9   23   12.77   21.1   21.40   via A11   5.4   9   5.5   -14   5.41   8.6   f10.90   -7.36   -12.5   -12.5   -12.5   via A697 and B6341   12.8   21   via A697 and B6341   12.8   21   via A697 and B6341   12.8   21   via A697 and B6341   12.8   via A697 and B6341   12.8   via A697 and B6341   13.3   3   via A697 and B6341   13.3   3   via A697 and B6341   13.9   via A697 and B6341   13.8   via A697 and B6341   13.9   via A697 and B6341   13.8   via A697 and B6341   13.8	,					15 115.90				11.5	14	19.15	30.36	131.90	11.92	13.36	110.00				5.0	14	15.27	20.0	122.90	0.04	11.0	19.00		
Newton-on-the Na A697 and B6341	,					21 1 F21 A(			Ψ.	-5.5	-1/	1 5./1	8.6	F10 90	-7 36	-12 5	-£10 50				3.1	0	1/1	22 52	£22 90	1 22	1 //2	£1 50		
Eglingham Via A697 and B6341 14.3 26 14.27 25.68 £24.40 Via B6346 7.8 16 -6.5 -10 7.85 15.75 £13.90 -6.42 -9.93 £10.50 Via A697 7 25.5 42 11.2 16 27.99 39.45 £43.90 13.77 £19.50 Via A697 and B6341 11.9 18 11.87 18.38 £19.90 Via A697 and B6341 11.9 18 11.87 18.38 £19.90 Via A697 and B6341 11.9 18 11.87 18.38 £19.90 Via A697 and B6341 11.9 18 11.87 18.38 £19.90 Via A697 and B6341 11.9 18 11.87 18.38 £19.90 Via A697 and B6341 11.9 18 11.87 18.38 £19.90 Via A697 and B6341 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11						21.1 121.40	OVIUNI	5.4		5.5		3.41	0.0	L10.50	7.50	12.5	110.50				5.1	- 0	17	22.32	122.50	1.23	1.42	11.50		
Felingham Via B6346 and B6341 19,3 33						25 68 £24 AI	0 via B6346	7.8	16	-6.5	-10	7.85	15.75	£13 QN	-6.42	-0 03	-£10.50				11.2	16	27 99	39.45	£13 dC	13 72	13 77	£19.50		
Powburn via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 10.8 18 11.87 18.38 £19.90 via A697 and B6341 10.8 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.87 18.38 £19.90 via A697 and B6341 11.9 18 11.2 16 19.37 30.08 £31.90 11.22 15.64 £18.00 £18.00 via A697 and B6341 11.9 18 11.87 18.90 £18.00 via A697 and B6341 11.9 18 11.2 16 19.37 30.08 £31.90 11.22 15.64 £18.00 £31.00 via A697 and B6341 11.9 18 11.90 via A697 and B6341 11.9 18 11.90 via A697 and A192 27.4 45 11.90 via A697 and A192 27.4 45 11.90 via A697 and A192 27.4 45 11.90 via A697 and B6341 11.9 19.90 via A697 and A192 27.4 45 11.90 via A696 and B6342 11.90 via A697 and A192 27.4 45 11.90 via A696 and B6342 11.90 via A697 and A192 27.4 45 11.90 via A696 and B6342 11.90 via A696 and B6342 11.90 via A698 and B6341 11.90 via A698 and B6344 11.90 via A697 11.90 via A698 and B6342 11.90 via A698 and B6342 11.90 via A698 and B6342 11.90 via A698 and B6344 11.90 via A698 and B	0 0		_			25.00 124.40	0 110 00340	7.0	10	0.5	- 10	7.03	13.75	L13.30	0.42	5.55	110.50				11.2	10	27.55	33.43	143.30	15.72	13.77	113.50		
Problem Via Roman Road 12.7 29						18.38 £19.90	0 via A697 and B6341	10.8	18	-1.1	(	10.79	17.77	f18.40	-1.08	-0.61	-£1.50				11.2	17	23.09	34.02	£37.90	11.22	15.64	£18.00		
Thruston   Section   Secti									22										_											
Thruston   Section   Secti	Thrunton	via A697 and B6341	8.2	15	8.16	14.45 £15.40	0 via B6341	8.4	15	0.2	(	8.45	15.28	£15.40	0.29	0.83	£0.00	0 via A697	19.4	31	11.2	16	19.37	30.08	£31.90	11.21	15.63	£16.50		
Netherton	Thrunton							10.7	19									via A1	23.4											
Otterburn		via B6341	7.2	17	7.25	17.05 £13.90				7.9	11	1 15.08	28.22	£25.90	7.83	11.17	£12.00				15.8	28	23.05	44.07	£37.90	15.8	27.02	£24.00		
Otterburn	Netherton	via B6341 and Whitton B	8.4	21			via B6341 and B6346	19	36									via A697 and A192	27.4	45										
Lorbottle Via B6341 5.2 13 5.2 13 5.2 13 5.2 13 5.2 13 5.2 13.0 £10.9 Via B6341 13.4 27 8.2 14 13.3 26.4 £12.9 8.1 13.4 £12.9 8.1 13.4 £12.0 Via B6342 and A697 20.9 48 15.7 35 21.0 40.0 £34.9 15.8 27.0 £24.00 Lorbottle Via B6342 and A697 21 41 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Otterburn	via B6341	15.3	30	15.29	29.45 £25.90	0 via B6341	27	49	11.7	19	27.04	48.35	£43.90	11.75	18.9	£18.00	via A696 and B6343	24.6	40	9.3	10	25.23	34.82	£40.90	9.94	5.37	£15.00		
Lorbottle via B6344 and A697 21 41 S S S S S S S S S S S S S S S S S S	Otterburn	via A696 and B6342	22.7	34			via A1	36.4	53									via A696 and B6524	25.2	35										
	Lorbottle	via B6341	5.2	13	5.21	13.02 £10.90	0 via B6341			8.2	14	13.36	26.48	£22.90	8.15	13.46	£12.00	0 via B6342 and A697	20.9		15.7	35	21.01	40.03	£34.90	15.8	27.01	£24.00		
Travell impact £8.48	Lorbottle						via A1	15.6	31										21	41										
	Travell impact									6.8	9.5	5					£10.5	5			5.5	9.5						£8.48		