

# REIGATE AND BANSTEAD BOROUGH COUNCIL LOCAL PLAN

Strategic Highway Assessment Report: London Cancer Hub Sensitivity Test

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Date:	10 <sup>th</sup> October 2017
Prepared By:	Abigail Hardie & Georgina Sharpe
Authorised By:	William Bryans

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## 1 INTRODUCTION

#### 1.1 <u>Overview</u>

- 1.1.1 Reigate and Banstead is in the process of finalising their Development Management Plan, which sets out where the level of development established in the 2014 adopted Core Strategy will be accommodated with the borough. Surrey County Council has been commissioned to assess the traffic impact of the preferred development option using the county's strategic highway model, SINTRAM. The overall aim is to help inform the likely cumulative impact of the development sites which have been identified, and to highlight junctions and sections of road to focus mitigation solutions. This will aid the borough by providing the transport evidence base to inform the Regulation 19 consultation.
- 1.1.2 The development and validation of the model, the forecasting methodology, as well as the results and appraisal of the cumulative traffic impact of the potential development sites and potential highway mitigation proposals is contained within the main report *Reigate and Banstead Borough Council Local Plan, Strategic Highway Assessment Report'*, *document number 53613T41/02*. This report accompanies the main report and specifically considers the combined effect of the potential development in Reigate and Banstead, together with the London Cancer Hub, located just outside the borough in the London Borough of Sutton.

## 2 LONDON CANCER HUB SENSITIVITY TEST

2.1.1 The London Cancer Hub is a proposal in its early stages, with the majority of the elements yet to seek planning permission. It is a collaboration between The Institute of Cancer Research, London, and the London Borough of Sutton, with the support of The Royal Marsden NHS Foundation Trust and the Greater London Authority, and is comprised of a variety of land uses, including a hospital, research centre, offices and a secondary school.

#### 2.2 <u>Scenarios</u>

- 2.2.1 In order to undertake a sensitivity test to assess the combined impact of Reigate and Banstead's Development Management Plan development with the London Cancer Hub, an additional scenario, Scenario D was created, with results compared against Scenario B. Note that a full assessment of scenarios A to C is contained within the main Strategic Highway assessment Report. The composition of the scenarios which form this sensitivity test is detailed below:
  - Scenario B includes committed developments identified from the base year of 2014 to the forecast year 2031, plus windfalls and the preferred options for development. Committed developments comprise of sites which have already been built or are in the process of construction or have planning permission. The preferred options for development are those supplied by Reigate and Banstead Borough Council for the Strategic Highway Assessment in relation to their Local Plan and Regulation 19 Consultation.
  - Scenario D is similar to Scenario B containing the preferred options for development, although it also contains the London Cancer Hub development, located just outside Reigate and Banstead at the Royal Marsden site in the London borough of Sutton.

# 2.2.2 <u>Zones</u>

2.2.3 An additional zone, zone 575 was added to the model to represent the London Cancer Hub, as shown in **Figure 2.1**. Access to this zone is from the B2218 Sutton Lane.



Figure 2.1: Zone plan

#### 2.3 <u>Trip Generation & Distribution</u>

- 2.3.1 Trip generation and distribution was derived from the following report *'London Cancer Hub, Development Framework Transportation Report, January 2017'* prepared by WSP, together with background data supplied by WSP. Trip generation in the WSP report was derived from TRICS and staff surveys whilst trip distribution is based on a gravity model based on existing staff journeys.
- 2.3.2 The London Cancer Hub is estimated to give a net increase in vehicle trips of 1568 in the weekday average AM peak hour and 1567 vehicle trips in the weekday average PM peak hour compared to Scenario B.

Γ	Scenario	Arrivals	Departures	Total
Γ	В	1202	1333	2536
Γ	D	2670	1404	4104

 Table 2.1: Net trip generation summary for all the Reigate and Banstead development sites captured in the pro-forma, weekday average AM peak hour (0700-1000)

Scenario	Arrivals	Departures	Total
В	1687	1436	3123
D	1773	2917	4690

 Table 2.2: Net trip generation summary for all the Reigate and Banstead development sites captured in the pro-forma, weekday average PM peak hour (1600-1900)

#### 2.4 <u>Assignment</u>

2.4.1 The forecast matrices were assigned to the network using a fixed trip equilibrium assignment. This was performed using the method of successive averages (MSA) for 700 assignment iterations.

#### 3 MODEL RESULTS AND ANALYSES

#### 3.1 <u>Overview</u>

- 3.1.1 All results presented within this report represent modelled forecast traffic impacts on highways in the borough of Reigate and Banstead. In this section of the report the results are presented for the Do-Something Scenario B, and the Do-Something plus London Cancer Hub Scenario D.
- 3.1.2 Scenario A is the Do-Minimum scenario which represents a future in which there is only the currently committed development in Reigate and Banstead borough between 2014 and 2031, but accounts for full development in the rest of Great Britain to 2031, based on the Department for Transport's forecasts.
- 3.1.3 Scenario B represents the committed development in Reigate and Banstead borough between 2014 and 2031, but accounts for full development in the rest of the Great Britain to 2031, based on the Department for Transport's forecasts. It also adds to the above all planned development in Reigate and Banstead Borough Council's submission draft Local Plan to 2031.
- 3.1.4 Scenario D is the same as Scenario B but with the addition of the London Cancer Hub in the London Borough of Sutton.
- 3.1.5 The strategic highway assessment therefore accounts for the transport demand from all planned development proposed by Reigate and Banstead Borough in the period to 2031, including the new homes, employment space, retail space and schools.
- 3.1.6 The strategic highway assessment does not take into account the potential for modal shift, or any new or improved sustainable transport choices provided by rail, bus and active modes.
- 3.1.7 The effect of the potential London Cancer Hub development can be identified by comparing the Scenario B Do-Something with the Scenario D Do-Something plus London Cancer Hub.
- 3.1.8 The morning weekday average AM peak hour (0700-1000) and evening weekday average PM peak hour (1600-1900) were assessed.

## 3.2 Network Statistics

- 3.2.1 **Tables 3.1** and **3.2** present the network summary statistics for the study area of Reigate and Banstead borough, for the weekday average AM (0700 1000) and PM (1600-1900) peak hours. This is broken down by road type and for each model scenario.
- 3.2.2 During the AM peak, the addition of the London cancer Hub in scenario D results in a 4% increase in total vehicle kilometres compared to Scenario B. The largest percentage increases occur on B roads and minor roads with increases of 8% on each. During the PM peak, the impact is slightly greater with the total vehicle kilometres increasing by 5%, with the greatest increases occurring on B roads and minor roads with 7% and 8% respectively.
- 3.2.3 Along with the increase in vehicle kilometres, there are corresponding increases in vehicle hours and decreases in average speed in scenario D when compared to Scenario B.
- 3.2.4 Further analysis of the traffic impact on the motorways contained within the borough of Reigate and Banstead is provided in **Section 3.8**

Statistic	Road Type	Scenario B	Scenario D
	Values		
	Motorway	170,555	171,246
Vahiele kilometree	Trunk	5,914	5,947
	A Principal Road	106,698	106,999
(ven km)	B Road	40,979	42,908
	Minor Road	48,012	48,844
Total		372,158	375,944
	Motorway	1,805	1,813
	Trunk	109	110
Vehicle hours (veh hr)	A Principal Road	2,644	2,663
	B Road	1,046	1,187
	Minor Road	1,027	1,049
Total		6,631	6,821
	Motorway	94.5	94.5
	Trunk	54.3	54.1
Average speed (kph)	A Principal Road	40.4	40.2
	B Road	39.2	36.2
	Minor Road	46.7	46.6
Weighted A	verage	56.1	55.1
Di	fference from Scena	ario B	
	Motorway	-	691
Vehicle kilometres	Trunk	-	33
(veh km)	A Principal Road	-	301
	B Road	-	1,929
	Minor Road	-	832
Total		-	3,785
	Motorway	-	8
	Trunk	-	1
Vehicle hours (veh hr)	A Principal Road	-	19
	B Road	-	141
	Minor Road	-	22
Total		-	190
	Motorway	-	0
	Trunk	-	0
Average speed (kph)	A Principal Road	-	0
	B Road	-	-3
	Minor Road	-	0
Weighted A	verage	-	-1
Percer	tage change from S	Scenario B	
	Motorway	-	3%
Vehicle kilometres	Trunk	-	2%
(veh km)	A Principal Road	-	4%
()	B Road	-	8%
	Minor Road	-	8%
lotal		-	4%
	Motorway	-	4%
	Irunk	-	5%
venicie nours (ven hr)	A Principal Road	-	6%
	B Road	-	1/%
	Minor Road	-	9%
Total	NA - 1 -	-	8%
	Iviotorway	-	-1%
A	Irunk	-	-2%
Average speed (kph)	A Principal Road	-	-2%
	B Road	-	-9%
	Minor Road	-	-1%

 Average
 -4%

 Table 3.1: Weekday average AM peak hour (0700 – 1000) network summary statistics for Reigate and Banstead
 Banstead

Road Type		Scenario B	Scenario D
	Γ		
	Motorway	186,898	187,673
Vehicle kilometres		6,881	6,863
(veh km)	A Principal Road	114,148	115,/1/
	B Road	42,896	44,622
Tata	Minor Road	51,256	51,899
lota	Matamuau	402,078	406,774
		2,031	2,044
Vahiela haure (yah hr)	A Dringing Dood	130	2 050
venicie nouis (ven ni)	R Pood	2,095	2,909
	D Rudu Minor Bood	1,102	1,204
Tota		7 271	7.469
Tota	Motorway	02.0	1, <b>400</b>
	Truck	92.0 50.7	91.0 50.2
Average speed (kph)	A Dringing Road	30.7	20.2
Average speed (kpii)		39.4	39.1
	Minor Pood	30.9	37.0
Woightod A		40.3 55.2	40.2 54.5
Weighted P	Difference from Scor	JJ.J	54.5
	Motorway		775
	Trunk		-18
Vehicle kilometres	A Principal Road		1 569
(veh km)	R Road	-	1,509
	Minor Road		6/3
Tota			4 696
1014	Motorway		13
	Trunk		10
Vehicle hours (veh hr)			64
	B Road	_	102
	Minor Road	-	17
Tota		-	197
	Motorway	-	0
	Trunk	-	-1
Average speed (kph)	A Principal Road	-	0
	B Road	-	-2
	Minor Road	-	0
Weighted A	verage	-	-1
Perc	entage change from	Scenario B	
	Motorway	-	3%
Vahiala kilometree	Trunk	-	1%
	A Principal Road	-	6%
(ven km)	B Road	-	7%
	Minor Road	-	8%
Tota		-	5%
	Motorway	-	4%
	Trunk	-	4%
Vehicle hours (veh hr)	A Principal Road	-	9%
	B Road	-	13%
	Minor Road	-	10%
Tota	l	-	8%
	Motorway	-	-1%
	Trunk	-	-3%
Average speed (kph)	A Principal Road	-	-3%
	B Road	-	-6%
	Minor Road	-	-1%
Δνοτα	ne	-	-3%

 Table 3.2: Weekday average PM peak hour (1600 – 1900) network summary statistics for Reigate and Banstead

3.3 Level of Service (LOS)

#### 3.3 Level of Service

3.3.1 Level of service (LOS) is a term used to qualitatively describe the operating conditions of a section of road or turning movement at a junction based on factors such as speed, travel time and delay. The level of service is designated with a letter, A to F, with A representing the best operating conditions and F the worst. **Table 3.3** describes the performance rating of each letter A to F.

А	Free flow	Traffic flows at or above the posted speed limit and motorists have complete mobility between lanes.
В	Reasonable free flow	LOS A speeds are maintained, manoeuvrability within the traffic stream is slightly restricted. Motorists still have a high level of physical and psychological comfort.
С	Stable flow	Ability to manoeuvre through lanes is noticeably restricted and lane changes require more driver awareness. Most experienced drivers are comfortable, roads remain safely below but efficiently close to capacity, and posted speed is maintained. This is the target LOS for some urban and most rural roads.
D	Approaching unstable flow	Speeds slightly decrease as traffic volume slightly increases. Freedom to manoeuvre within the traffic stream is much more limited and driver comfort levels decrease.
E	Unstable flow, operating at capacity	Flow becomes irregular and speed varies rapidly because there are virtually no usable gaps to manoeuvre in the traffic stream and speeds rarely reach the posted limit. Any disruption to traffic flow, such as merging or lane changes will create a shock wave affecting traffic upstream. Drivers' level of comfort becomes poor.
F	Forced or breakdown of flow	Every vehicle moves in lockstep with the vehicle in front of it, with frequent slowing required. Travel time cannot be predicted, with generally more demand than capacity.

Table 3.3: A to F Level of Service (LOS) categories

- 3.3.2 The methodology for calculating the LOS is set out in *The Highway Capacity Manual* (1994) and has been applied to the analysis of both link flow and junction delay to aid the interpretation of the model results. The calculated LOS has been colour coded using the traffic light colours: green; amber; and red.
- 3.4 Ratio of Flow to Capacity (RFC)
- 3.4.1 Another tool for assessing the performance of a stretch of road or a turning movement at a junction is the ratio of flow to capacity (RFC) measure.
- 3.4.2 An RFC value greater than 1 means that the stretch of road or turning movement has a higher level of traffic flow than its theoretical capacity. This can be generated as a result flow breakdown and extensive queues.
- 3.4.3 With the exception of signalised junctions, an RFC value below 0.85 is considered acceptable as there is still scope to accommodate future growth. For signalled junctions the threshold is higher at 0.90. A value of between 0.85 and 1, or 0.90 and 1 for signalled junctions, suggests the stretch of road or junction is beginning to struggle with the weight of traffic causing delay, queues and driver stress.
- 3.4.4 As with LOS, RFC has been applied to the analysis of both link flow and junction delay to aid the interpretation of the model results. All presented RFC values between 0.85 and 1, or 0.90 and 1 for signalled junctions, have been marked in orange text, and in red text for RFC values greater than 1.

#### 3.5 Increase in Link Flow

- 3.5.1 **Tables 3.4** and **3.5** show the top 10 links with the greatest increase in flow in scenario D when compared to scenario B for the average weekday AM (0700 1000) and PM (1600 1900) peak hours respectively. These illustrate the impact of the London Cancer Hub located just outside the borough boundary, with all of the top 10 increases being located in and around Banstead. **Figures 3.1** and **3.2** present the flow difference plot for the entire study area of Reigate and Banstead for Scenario D compared to Scenario B. Bandwidths coloured red show an increase in flow, whereas those coloured blue represent a decrease in flow, with their size being proportional to the increase or decrease.
- 3.5.2 The largest increases in flow in both the AM and PM peaks are on the B2218 Sutton Lane northbound. Zone 575, representing the London Cancer Hub is directly connected to this link in the model. The precise access arrangements of the London Cancer Hub are not known and therefore the way that the development has been coded within the model is simplified. Consequently the B2218 Sutton Lane is the only access to the site within the model and would therefore be expected to suffer the greatest increase in flow.

Rank	Name	Link Ref.	Increase in Flow from Scenario B (vph)	RFC* (pcu)	LOS*
	2031 Scenario D compared to Scenario B to	see the effe	ct of the London Canc	er Hub	
1	B2218 Sutton Lane, Banstead, northbound	8266,1	505	1.30 (0.88)	F (E)
2	B2230 Brighton Road, Banstead, northbound	1915,2	425	1.99 (1.46)	F
3	B278 Park Road, Banstead, northbound	16108,1	230	0.36 (0.17)	C (B)
4	B2219 Lower Park Road, Banstead, westbound	8275,2	190	1.25 (1.01)	F
5	B2219 Lower Park Road, Banstead, westbound	17625,2	169	0.57 (0.43)	D
6	A217 Belmont Rise, Banstead, southbound	16258,2	150	1.30 (1.12)	F
7	B2032 Outwood Lane, Banstead, northbound	8279,2	143	0.68 (0.57)	E (D)
8	B278 Park Road, Banstead, southbound	16108,2	120	0.51 (0.41)	D (C)
9	B2218 Sutton Lane, Banstead, southbound	8266,2	116	1.07 (0.97)	F (E)
10	A217 Brighton Road, Banstead, northbound	8255,2	110	0.59 (0.56)	D

\*If the RFC and LOS values differ between the two comparative scenarios, the reference scenario RFC and LOS values are displayed in brackets

# Table 3.4: Weekday average AM peak hour (0700 – 100) top 10 links with the highest increase in flowfrom Scenario B to Scenario D.

Rank	Name	Link Ref.	Increase in Flow from Scenario B (vph)	RFC* (pcu)	LOS*
	2031 Scenario D compared to Scenario B to	o see the eff	ect of the London Car	ncer Hub	
1	B2218 Sutton Lane, Banstead, northbound	8266,2	612	1.48 (0.97)	F (E)
2	B2217 Sutton Lane, Banstead, southbound	8265,1	392	1.06 (1.57)	F (D)
3	B2219 Lower Park Road, Banstead, westbound	17625,1	216	0.41 (0.23)	C (B)
4	B2032 Outwood Lane, Banstead, southbound	8279,1	211	0.70 (0.52)	E (D)
5	A2022 Croydon Lane, Banstead, eastbound	8268,1	185	0.73 (0.62)	E (D)
6	Park Road, Banstead, northbound	16101,2	164	0.23 (0.10)	B (A)
7	A217 Brighton Road, Kingswood, southbound	12137,1	163	0.93 (0.88)	Е
8	A217 Brighton Road, Banstead, southbound	8255,1	152	0.54 (0.50)	D
9	A217 Brighton Road, Banstead, southbound	8253,2	149	0.51 (0.47)	D
10	B2217 High Street, Banstead, westbound	8269,2	149	0.44 (0.25)	D (B)

If the RFC and LOS values differ between the two comparative scenarios, the reference scenario RFC and LOS values are displayed in brackets

# Table 3.5: Weekday average PM peak hour (1600 – 1900) top 10 links with the highest increase in flowfrom Scenario B to Scenario D.



Figure 3.1: Weekday average AM peak hour (0700 – 1000) flow difference plot of Scenario D compared to Scenario B.



Figure 3.2: Weekday average PM peak hour (1600 – 1900) flow difference plot of Scenario D compared to Scenario B.

#### 3.6 Link Capacity

- 3.6.1 **Figures 3.3** to **3.6** show which links are nearly operating at, or above capacity, for scenarios B and D. Links shaded orange have an RFC value of between 0.85 and 0.99, whereas those shaded red have an RFC value above 1.
- 3.6.2 Scenario B contains all of the potential development sites in Reigate and Banstead, with Scenario D also including the London Cancer Hub. In comparison to Scenario B, the following additional sections of roads have declined in capacity by having a higher RFC value:
  - New areas, now shown to be operating with limited capacity:
    - o B2219 Holly Lane
    - A240 Reigate Road
  - Areas exacerbated by new development, now shown to be operating above capacity:
    - o B2218 Sutton Lane
    - B2219 Lower Park Road
    - o B2032 Chipstead Valley Road



Figure 3.3: Scenario B link values RFC greater than 0.85 for the weekday average AM peak hour (0700 – 1000)



Figure 3.4: Scenario B link values RFC greater than 0.85 for the weekday average PM peak hour (1600 – 1900)

![](_page_15_Figure_2.jpeg)

Figure 3.5: Scenario D link values RFC greater than 0.85 for the weekday average AM peak hour (0700 – 1000)

![](_page_16_Figure_2.jpeg)

Figure 3.6: Scenario D link values RFC greater than 0.85 for the weekday average PM peak hour (1600 – 1900)

#### 3.7 Increase in Junction Delay

3.7.1 **Tables 3.6** and **3.7** presents the top 10 junctions which have the greatest increase in average delay for the weekday average AM peak hour (0700–1000) and PM Peak hour (1600-1900) respectively, when comparing Scenario B with Scenario D. It can be seen that the increases in junction delay as a result of the addition of the London Cancer Hub development in Scenario D largely occur at junctions with existing congestion issues and therefore exacerbate delays in these locations.

Rank	Name	Туре	Node Ref.	Increase in Average Delay from Sc. B (seconds)	Sc.D RFC*	Sc.D LOS*
	Compared to Scenario B					
1	A2022 Winkworth Road/Croydon Lane, B2218 Sutton Lane, B2217 Sutton Lane	Roundabout	13079	75.6	1.11 (1.07)	F
2	A217 Brighton Road, Reigate Hill Interchange (M25 J8)	Signal	13298	27.0	1.08 (1.06)	F
3	A23 London Road, Star Lane	Signal	13095	26.4	0.84 (0.82)	F
4	A217 Brighton Rd, A217 Belmont Rise, B2230 Brighton Road	Roundabout	13078	20.0	1.16 (1.04)	F
5	B290 Station Approach Road and B2220 Tadworth Street	Signal	13433	14.8	0.88 (0.86)	F (E)
6	B2032 Dorking Road, Tadworth Roundabout	Signal	14543	11.1	0.76 (0.75)	E (D)
7	B2032 Dorking Road, B290 New Road, B290 Mill Road	Priority	13068	8.5	0.59 (0.58)	D (C)
8	A217 Reigate Hill and Gatton Bottom	Priority	13141	7.9	1.25 (1.00)	D
9	Frenches Road, Battlebridge Lane	Signal	15130	1.2	0.65 (0.66)	F
10	B2032 Dorking Road, B2220 Chequers Lane	Priority	14257	0.9	0.42 (0.39)	A

\*If the RFC and LOS values differ between the two comparative scenarios, the reference scenario RFC and LOS values are displayed in brackets

Table 3.6: Weekday average AM peak hour (0700 – 1000) top 10 junctions with the highest increase in average vehicle delay of Scenario D compared with Scenario B.

Rank	Name	Туре	Node Ref.	Increase in Average Delay from Sc. B (seconds)	Sc.D RFC*	Sc.D LOS*
	Compared to Scenario B					
1	A217 Brighton Rd, A217 Belmont Rise, B2230 Brighton Road	Roundabout	13078	23.3	1.02 (1.02)	F
2	A2022 Winkworth Road, B2219 Bolters Lane	Roundabout	14412	10.5	0.88 (0.83)	D (C)
3	A23 Brighton Road, Dean Lane	Priority	14659	9.9	0.98 (0.97)	D (C)
4	A2022 Winkworth Road/Croydon Lane, B2218 Sutton Lane, B2217 Sutton Lane	Roundabout	13079	7.3	1.36 (1.07)	F
5	A217 Brighton Road (N), Tadworth Roundabout	Signal	13073	5.2	0.79 (0.79)	E
6	A217 Brighton Road (S), Tadworth Roundabout	Signal	14542	5.2	0.73 (0.70)	D (C)
7	B290 Station Approach Road and B2220 Tadworth Street	Signal	13433	4.7	1.01 (1.04)	F
8	B2032 Dorking Road. B290 New Road. B290 Mill Road	Priority	13068	4.0	0.54 (0.52)	B (A)
9	A23 London Road, Star Lane	Signal	13095	3.0	0.96 (0.94)	F
10	A217 Reigate Hill, Reigate Hill Interchange (M25 J8)	Signal	14132	3.0	0.96 (0.95)	D

\*If the RFC and LOS values differ between the two comparative scenarios, the reference scenario RFC and LOS values are displayed in brackets

Table 3.7: Weekday average PM peak hour (1600 – 1900) top 10 junctions with the highest increase in average vehicle delay of Scenario D compared with Scenario B.

- 3.7.2 **Figures 3.7** to **3.10** present the average junction delay in Reigate and Banstead borough for Scenarios B and D for all modelled junctions for the weekday average AM (0700-1000) and PM (1600-1900) peak hours. The diameter of the circles corresponds to the estimated level of delay.
- 3.7.3 Junctions with an average delay value of 50 seconds or more are individually reported and have been listed below in a descending order of magnitude for scenario D;
  - A217 Brighton Road, Reigate Hill Interchange (M25 J8);
  - A2022 Winkworth Road/Croydon lane, B2218 Sutton Lane, B2217 Sutton lane, Banstead;
  - A23 London Road, Star Lane, Hooley;
  - A217 Brighton Road, A217 Belmont rise, B2230 Brighton Road, Banstead;
  - A217 Brighton Road, A2022 Fir Tree Road, A2022 Winkworth Road, Banstead;
  - A217 Brighton Road signalled northbound approach arm to Bonsor Drive roundabout, Tadworth;
  - A217 Reigate Hill and Gatton Bottom, Reigate; and
  - Frenches Road, Battlebridge Lane, Redhill.

![](_page_18_Figure_12.jpeg)

Figure 3.7: Average junction delay for Scenario B for the weekday average AM peak hour (0700 – 1000)

![](_page_19_Figure_2.jpeg)

Figure 3.8: Average junction delay for Scenario B for the weekday average PM peak hour (1600 – 1900)

![](_page_20_Figure_2.jpeg)

Figure 3.9: Average junction delay for Scenario D for the weekday average AM peak hour (0700 – 1000)

![](_page_21_Figure_2.jpeg)

Figure 3.10: Average junction delay for Scenario D for the weekday average PM peak hour (1600 – 1900)

# 3.8 The Motorway Network

- 3.8.1 Reigate and Banstead borough contains sections of the strategic network, namely the M25, M23 and A23 trunk. These roads are the responsibility of Highways England. The impact of scenarios B and D on the Highways England road network within Reigate and Banstead is set out in **Tables 3.8** and **3.9** for the weekday average AM (0700–1000) and PM (1600 1900) peak hours respectively.
- 3.8.2 The only link which incurs an increase greater than 100 vph in Scenario D compared against Scenario B is listed below for the AM Peak:
  - M23 mainline junctions 8 to 7 northbound (108 vph, 13%)
- 3.8.3 In the PM peak, no links incurred an increase greater than 100 vph or 10% in Scenario D compared against Scenario B.

3.8.4 For the majority of links on the strategic route network managed by Highways England, there is little difference in impact between Scenarios B and D.

Section of Motorway or Trunk Road	Scenario B	Scenario D			
Absolute flow (vph)					
M25 mainline junctions 9 to 8 anticlockwise	4698	4735			
M25 mainline junctions 8 to 9 clockwise	5677	5626			
M25 junction 8 anticlockwise off-slip	790	799			
M25 junction 8 anticlockwise on-slip	795	789			
M25 junction 8 clockwise off-slip	1190	1194			
M25 junction 8 clockwise on-slip	797	733			
M25 mainline junctions 8 to 7 anticlockwise	4704	4725			
M25 mainline junction 7 to 8 clockwise	6069	6088			
M25 junction 7 anticlockwise exit to M23 junction 8	2255	2270			
M25 junction 7 clockwise exit to M23 junction 8	1599	1665			
M25 mainline junctions 7 to 6 anticlockwise	4370	4373			
M25 mainline junctions 6 to 7 clockwise	5376	5444			
M23 junction 8 northbound exit to M25 junction 7	3825	3830			
M23 junction 8 southbound exit to M25 junction 7	1921	1918			
A23 between Church Lane and Star Lane northbound	1363	1408			
A23 between Church Lane and Star Lane southbound	1756	1747			
M23 mainline junctions 8 to 7 northbound	850	959			
M23 mainline junctions 7 to 8 southbound	1179	1179			
M23 mainline junctions 9 to 8 northbound	4383	4424			
M23 mainline junctions 8 to 9 southbound	4352	4353			
M23 junction 9 northbound off-slip	849	848			
M23 junction 9 northbound on-slip	1186	1192			
M23 junction 9 southbound off-slip	1329	1329			
M23 junction 9 southbound on-slip	354	352			
M23 mainline junctions 9 to 9a westbound	2178	2177			
M23 mainline junction 9a to 9 eastbound	1540	1544			
M23 mainline junctions 10 to 9 northbound	4046	4080			
M23 mainline junctions 9 to 10 southbound	3377	3376			
Difference from Scenario B and Percentage Cha	nge from Scer	nario B			
M25 mainline junctions 9 to 8 anticlockwise	-	37 (1%)			
M25 mainline junctions 8 to 9 clockwise	-	-51 (-1%)			
M25 junction 8 anticlockwise off-slip	-	10 (1%)			
M25 junction 8 anticlockwise on-slip	-	-6 (-1%)			
M25 junction 8 clockwise off-slip	-	5 (0%)			
M25 junction 8 clockwise on-slip	-	-64 (-8%)			
M25 mainline junctions 8 to 7 anticlockwise	-	21 (0%)			
M25 mainline junction 7 to 8 clockwise	-	18 (0%)			
M25 junction 7 anticlockwise exit to M23 junction 8	-	15 (1%)			
M25 junction 7 clockwise exit to M23 junction 8	-	66 (4%)			
M25 mainline junctions 7 to 6 anticlockwise	-	3 (0%)			
M25 mainline junctions 6 to 7 clockwise	-	68 (1%)			
M23 junction 8 northbound exit to M25 junction 7	-	5 (0%)			
M23 junction 8 southbound exit to M25 junction 7	-	-3 (0%)			
A23 between Church Lane and Star Lane northbound	-	46 (3%)			
A23 between Church Lane and Star Lane southbound	-	-8 (0%)			
M23 mainline junctions 8 to 7 northbound	-	108 (13%)			
M23 mainline junctions 7 to 8 southbound	-	0 (0%)			
M23 mainline junctions 9 to 8 northbound	-	41 (1%)			
M23 mainline junctions 8 to 9 southbound	-	0 (0%)			
M23 junction 9 northbound off-slip	-	-1 (0%)			
M23 junction 9 northbound on-slip	-	6 (1%)			
M23 junction 9 southbound off-slip	-	0 (0%)			
M23 junction 9 southbound on-slip	-	-2 (-1%)			
M23 mainline junctions 9 to 9a westbound	-	-1 (0%)			
M23 mainline junction 9a to 9 easthound	-	4 (0%)			
M23 mainline junctions 10 to 9 porthbound	-	34 (1%)			
M23 mainline junctions 9 to 10 southbound	-	-2 (0%)			
RFC and Level of Service		_ (0,0)			

Section of Motorway or Trunk Road	Scenario B	Scenario D
M25 mainline junctions 9 to 8 anticlockwise	0.70 <mark>C</mark>	0.71 <mark>C</mark>
M25 mainline junctions 8 to 9 clockwise	0.84 D	0.83 D
M25 junction 8 anticlockwise off-slip	0.23 A	0.23 A
M25 junction 8 anticlockwise on-slip	0.23 A	0.23 A
M25 junction 8 clockwise off-slip	0.33 B	0.33 B
M25 junction 8 clockwise on-slip	0.47 B	0.43 B
M25 mainline junctions 8 to 7 anticlockwise	0.70 <mark>C</mark>	0.71 <mark>C</mark>
M25 mainline junction 7 to 8 clockwise	0.88 D	0.89 D
M25 junction 7 anticlockwise exit to M23 junction 8	0.68 <mark>C</mark>	0.68 <mark>C</mark>
M25 junction 7 clockwise exit to M23 junction 8	0.45 B	0.46 B
M25 mainline junctions 7 to 6 anticlockwise	0.65 <mark>C</mark>	0.65 <mark>C</mark>
M25 mainline junctions 6 to 7 clockwise	0.79 D	0.80 D
M23 junction 8 northbound exit to M25 junction 7	1.09 F	1.09 F
M23 junction 8 southbound exit to M25 junction 7	0.57 <mark>C</mark>	0.57 <mark>C</mark>
A23 between Church Lane and Star Lane northbound	1.06 F	1.09 F
A23 between Church Lane and Star Lane southbound	1.33 F	1.32 F
M23 mainline junctions 8 to 7 northbound	0.17 A	0.19 A
M23 mainline junctions 7 to 8 southbound	0.17 A	0.17 A
M23 mainline junctions 9 to 8 northbound	0.83 D	0.84 <mark>D</mark>
M23 mainline junctions 8 to 9 southbound	0.83 D	0.83 <mark>D</mark>
M23 junction 9 northbound off-slip	0.23 A	0.23 A
M23 junction 9 northbound on-slip	0.33 B	0.34 B
M23 junction 9 southbound off-slip	0.36 B	0.36 B
M23 junction 9 southbound on-slip	0.09 A	0.09 A
M23 mainline junctions 9 to 9a westbound	0.59 C	0.59 C
M23 mainline junction 9a to 9 eastbound	0.43 B	0.43 B
M23 mainline junctions 10 to 9 northbound	0.76 D	0.77 D
M23 mainline junctions 9 to 10 southbound	0.65 C	0.65 <mark>C</mark>

 Table 3.8: Weekday average AM peak hour (0700 – 1000) traffic flow summary for the motorway network

Section of Motorway or Trunk Road	Scenario B	Scenario D					
Absolute flow (vph)	Absolute flow (vph)						
M25 mainline junctions 9 to 8 anticlockwise	6353	6348					
M25 mainline junctions 8 to 9 clockwise	5167	5174					
M25 junction 8 anticlockwise off-slip	695	672					
M25 junction 8 anticlockwise on-slip	1216	1280					
M25 junction 8 clockwise off-slip	974	991					
M25 junction 8 clockwise on-slip	887	892					
M25 mainline junctions 8 to 7 anticlockwise	6875	6956					
M25 mainline junction 7 to 8 clockwise	5255	5273					
M25 junction 7 anticlockwise exit to M23 junction 8	2928	3010					
M25 junction 7 clockwise exit to M23 junction 8	1353	1345					
M25 mainline junctions 7 to 6 anticlockwise	5932	5995					
M25 mainline junctions 6 to 7 clockwise	4816	4817					
M23 junction 8 northbound exit to M25 junction 7	3283	3296					
M23 junction 8 southbound exit to M25 junction 7	1985	2049					
A23 between Church Lane and Star Lane northbound	1699	1692					
A23 between Church Lane and Star Lane southbound	1851	1882					
M23 mainline junctions 8 to 7 northbound	1158	1154					
M23 mainline junctions 7 to 8 southbound	1180	1209					
M23 mainline junctions 9 to 8 northbound	4157	4171					
M23 mainline junctions 8 to 9 southbound	4683	4732					
M23 junction 9 northbound off-slip	754	749					
M23 junction 9 northbound on-slip	823	824					
M23 junction 9 southbound off-slip	616	632					
M23 junction 9 southbound on-slip	1096	1098					
M23 mainline junctions 9 to 9a westbound	1371	1381					
M23 mainline junction 9a to 9 eastbound	1919	1922					
M23 mainline junctions 10 to 9 northbound	4089	4096					
M23 mainline junctions 9 to 10 southbound	5162	5199					
Difference from Scenario B and Percentage change from Scenario B							

Section of Motorway or Trunk Road	Scenario B	Scenario D
M25 mainline junctions 9 to 8 anticlockwise	-	-6 (0%)
M25 mainline junctions 8 to 9 clockwise	-	6 (0%)
M25 junction 8 anticlockwise off-slip	-	-23 (-3%)
M25 junction 8 anticlockwise on-slip	-	64 (5%)
M25 junction 8 clockwise off-slip	-	17 (2%)
M25 junction 8 clockwise on-slip	-	<u>5 (1%)</u>
M25 mainline junctions 8 to 7 anticlockwise	-	81 (1%)
M25 mainline junction / to 8 clockwise	-	18 (0%)
M25 junction 7 anticlockwise exit to M23 junction 8	-	$\frac{82(3\%)}{0(1\%)}$
M25 junction 7 clockwise exit to M25 junction 6	-	<u>-9 (-1%)</u> 62 (1%)
M25 mainline junctions 7 to 6 anticiockwise	-	1 (0%)
M23 junction 8 porthbound exit to M25 junction 7		13 (0%)
M23 junction 8 southbound exit to M25 junction 7	-	64 (3%)
A23 between Church Lane and Star Lane northbound	-	-7 (0%)
A23 between Church Lane and Star Lane southbound	-	31 (2%)
M23 mainline junctions 8 to 7 northbound	-	-4 (0%)
M23 mainline junctions 7 to 8 southbound	-	30 (3%)
M23 mainline junctions 9 to 8 northbound	-	13 (0%)
M23 mainline junctions 8 to 9 southbound	-	49 (1%)
M23 junction 9 northbound off-slip	-	-5 (-1%)
M23 junction 9 northbound on-slip	-	1 (0%)
M23 junction 9 southbound off-slip	-	15 (2%)
M23 junction 9 southbound on-slip	-	2 (0%)
M23 mainline junctions 9 to 9a westbound	-	10 (1%)
M23 mainline junction 9a to 9 eastbound	-	3 (0%)
M23 mainline junctions 10 to 9 northbound	-	7 (0%)
M23 mainline junctions 9 to 10 southbound	-	36 (1%)
M25 mainline junctions 9 to 8 anticlockwise	0 00 D	0.90 D
M25 mainline junctions 8 to 9 clockwise	0.30 D	0.30 D
M25 iunction 8 anticlockwise off-slip	0.70 D	0.19 A
M25 junction 8 anticlockwise on-slip	0.33 B	0.35 B
M25 junction 8 clockwise off-slip	0.28 A	0.28 A
M25 junction 8 clockwise on-slip	0.49 B	0.49 B
M25 mainline junctions 8 to 7 anticlockwise	0.97 E	0.98 E
M25 mainline junction 7 to 8 clockwise	0.77 <mark>D</mark>	0.77 <mark>D</mark>
M25 junction 7 anticlockwise exit to M23 junction 8	0.83 D	0.85 <mark>D</mark>
M25 junction 7 clockwise exit to M23 junction 8	0.37 <mark>B</mark>	0.37 <mark>B</mark>
M25 mainline junctions 7 to 6 anticlockwise	0.85 D	0.85 D
M25 mainline junctions 6 to 7 clockwise	0.71 <mark>C</mark>	0.71 C
M23 junction 8 northbound exit to M25 junction 7	0.92 E	0.93 E
M23 junction 8 southbound exit to M25 junction 7	0.57 C	0.59 C
A23 between Church Lane and Star Lane northbound	1.28 F	1.28 F
A23 between Church Lane and Star Lane southbound	1.36 F	1.38 F
M23 mainline junctions 8 to 7 northbound	0.22 A	0.22 A
M22 mainline junctions 7 to 8 parthbound	0.16 A	0.10 A
M23 mainline junctions 8 to 9 southbound	0.86 D	0.77 D
M23 iunction 9 porthbound off-slip	0.00 D	
M23 junction 9 northbound on-slip	0.22 A	0.22 A
M23 junction 9 southbound off-slip	0.17 A	0.18 A
M23 junction 9 southbound on-slip	0.33 B	0.33 B
M23 mainline junctions 9 to 9a westbound	0.39 B	0.39 B
M23 mainline junction 9a to 9 eastbound	0.55 <mark>C</mark>	0.55 C
M23 mainline junctions 10 to 9 northbound	0.77 D	0.77 D
M23 mainline junctions 9 to 10 southbound	0.96 E	0.96 E
Table 3.9: Weekday average PM peak hour (1600 - 1900) t	traffic flow su	mmary for the

motorway network

### 3.9 <u>Cross Boundary Impacts</u>

- 3.9.1 Traffic flows on A principal and B roads which cross into neighbouring authorities have been analysed for all scenarios in **Tables 3.10 3.13**. The roads have been listed in a clockwise direction, starting with the London borough of Sutton.
- 3.9.2 **Tables 3.10** and **3.11** show the traffic flows for each Scenario on A principal and B roads which enter into Reigate and Banstead borough from neighbouring authorities for the weekday average AM (0700 1000) and PM (1600-1900) peak hours.
- 3.9.3 When comparing scenario D to Scenario B, the maximum increases in vehicles entering the borough occur in the weekday average PM peak, with 612 vph entering the borough of Reigate and Banstead from Sutton via the B2218 Sutton Lane. This equates to a 55% increase in flow on this route which is in the immediate vicinity of the London Cancer Hub. As stated in **section 3.5.2** Zone 575, representing the London Cancer Hub is directly connected to this link in the model.
- 3.9.4 **Tables 3.12** and **3.13** present the flow of vehicles leaving Reigate and Banstead borough and travelling into neighbouring local authorities in the weekday average AM (0700 1000) and PM (1600-1900) peak hours.
- 3.9.5 When comparing scenario D to Scenario B, the maximum increases in vehicles exiting the borough occur in the weekday average AM peak, with 505 vph exiting the borough of Reigate and Banstead towards Sutton via the B2218 Sutton Lane. This equates to a 51% increase in flow on this route. As stated above, this link provides direct access to the London cancer Hub in the model.

Travel         Trips Travelling To         Scenario B         Scenario B         Scenario C           16258.2         A217 Belmont Rise         Southbound         Sutton         868         1018           1915.1         B2200 Enghon Road         Southbound         Sutton         1107         1144           2866.2         B2218 Sutton Lane         Southbound         Sutton         1107         1144           1915.1         B276 Carshalton Road         Southbound         Crowdon         469         599           1948.1         B276 Carshalton Road         Southbound         Crowdon         670         724           1952.1         A23 Brighton Road         Northbound         Trandridge         511         513           1957.1         B203 Bakombe Road         Northbound         Meet Valley         785         787           8856.1         A217 Reliate Road         Northbound         Meet Valley         782         907           1701.1         B203 Ealend Road         Easthound         Meet Valley         782         907           1778.2         B220 Tatenham Crone Road         Southbound         Easthound         Easthound         Easthound         127         727           1778.2         B220 Tatenham Crone	Link Ref.	Road	Direction of	Local Authority	2031	2031
Vehicle flows (vpn)           16288.2         A217 Belmont Rise         Southbound         Sutton         1018           1915.1         B2203 Binghon Road         Southbound         Sutton         1007         1124           28268.2         B218 Binton Road         Southbound         Covidon         863         580           1948.1         B2020 Carobine Road         Weithbound         Covidon         667         724           1952.1         A23 Binthon Road         Southbound         Crowdon         1522         514           1952.1         A23 Binthon Road         Westbound         Tandridae         512         514           1952.1         A23 Binthon Road         Northbound         Mest Sussex         913         911           1956.1         R2032 Biacombe Road         Northbound         Mest Sussex         913         911           1958.5         A23 Binthon Road         Northbound         Melvalley         720         720           1761.1         B2032 Biacombe Road         Northbound         Melvalley         787         787           8861.4         A217 Rejache Road         Northbound         Easton         787         720           17713.1         B2032 Binthon Road         Southb			Travel	Trips Travelling To	Scenario B	Scenario D
Incells         Partial         Bazzab         Environ         Station         Bazzab         Environ           1915.1         Bazzab         Bazzab         Station Read         Southbound         Station         1107         1144           2658.2         Bazzab         Bazzab         Southbound         Southbound         Corodon         1067         124           1949.1         Bazzab         Corodon         469         590         1310           1952.1         Az3 Brighton Road         Southbound         Crowdon         670         724           1952.1         Az3 Brighton Road         Westbound         Tandridoe         511         5130           1952.1         Bazzab         Bazzab         Rombound         Tandridoe         512         514           892.1         Az3 Brighton Road         Northbound         Meet Sussex         913         911           8656.1         Az1 Brighton Road         Northbound         Meet Sussex         913         911           8656.1         Az1 Brighton Road         Northbound         Meet Sussex         913         911           8656.1         Az1 Brighton Road         Northbound         Meet Sussex         912         722         720	40050.0		Vehicle flows (vph	)	000	1010
19.1.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1         19.2.1.1         19.2.1.1         19.2.1.1         1	16258,2	A217 Belmont Rise	Southbound	Sutton	868	1018
Bessie 2         Action 2 Double Line         Distinguing         Distinguing <thdistinguing< th="">         Distinguing</thdistinguing<>	1910,1	B2230 Brighton Road	Southbound	Sutton	107	1104
16109.1         B278 Carshalton Road         Southbound         Crowdon         469         590           1946.1         B2032 Outwood Lane         Westbound         Crowdon         670         724           1952.1         A238 Brighton Road         Southbound         Crowdon         670         724           17601.1         B2035 Beachame         Westbound         Tandridge         512         514           1802.1         B2036 Beachame         Westbound         Tandridge         512         514           1803.6         A217 Reignate Road         Northbound         Meet Suisex         913         911           8866.1         A217 Reignate Road         Northbound         Mole Valley         729         720           71611.1         B2032 Headley Common Rd         Eastbound         Eosom & Ewell         271         274           17781.2         B204 Tetrahama Coner Road         Southbound         Eosom & Ewell         283         401           11388.1         B244 Yet Vree Bottom Road         Southbound         Essom & Ewell         292         251           11398.1         B244 Yet Vree Bottom Road         Southbound         Southbound         -         150 (175)           114915.1         B2242 Brighton Road	8268.2	A2022 Croydon Lane	Westhound	Croydon	859	850
1948.1         18232 Gutwood Lane         Westbound         Crowdon         1670         724           1952.1         A23 Bröhno Road         Southbound         Trandridge         512         514           8927.1         A25 Nutfield Road         Westbound         Trandridge         371         373           15678.1         B2036 Balcombe Road         Northbound         West Sussex         913         911           8858.1         A23 Bröhnon Road         Northbound         Mole Valley         786         787           8816.1         A217 Reigate Road         Northbound         Mole Valley         729         720           17613.1         B2032 Pebie Hill Road         Northbound         Mole Valley         296         334           17781.2         B203 Tatenham Creer Road         Southbound         Essom & Ewell         363         401           11888.1         B244 Yew Tree Bottom Road         Southbound         Essom & Ewell         224         281           17781.2         B220 Tatenham Creer Road         Southbound         Essom & Ewell         224         281           17618.1         B221 Fartneham Creer Road         Southbound         Essom & Ewell         224         281           17618.1         B224 Vew T	16109.1	B278 Carshalton Road	Southbound	Croydon	469	590
1952.1         A23 Brighton Road         Southbound         Croydon         1325         1310           8927.1         A25 Nuffield Road         Westbound         Tandridge         371         373           15678.1         A23 Brahton Road         Northbound         West Suesk         913         911           8358.1         A23 Brahton Road         Northbound         Mole Valley         786         787           8316.1         A25 Buckland Road         Northbound         Mole Valley         729         720           17611.1         E2033 Headley Common Rd         Eastbound         Mole Valley         872         907           17611.1         E2033 Headley Common Rd         Eastbound         Ecsom & Ewell         271         274           17789.2         E2221 Tattenham Corner Read         Southbound         Ecsom & Ewell         222         251           17619.1         E294 Fir Tree Road         Northbound         Ecsom & Ewell         224         246           10200.2         A240 Reinen Read         Southbound         Sutton         -         150 (17%)           1151.1         E2230 Brighton Road         Southbound         Sutton         -         150 (17%)           1161.8         E2230 Brighton Road	1948.1	B2032 Outwood Lane	Westbound	Croydon	670	724
117601.1         B2031 Dean Lane         Westbound         Tandridge         512         514           8827.1         A25 Nutfield Road         Westbound         West Sussex         913         911           8458.1         A23 Brighton Road         Northbound         Mole Valley         1120         1120           8866.1         A217 Reigate Road         Northbound         Mole Valley         729         720           17611.1         B2032 Pebble Hill Road         Northbound         Mole Valley         296         334           17791.2         B220 Tattenham Corner Road         Southbound         Epsom & Ewell         363         401           1388.1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         363         401           1388.1         B284 Yew Tree Bottom Road         Southbound         Epsom & Ewell         324         246           1200.2         A240 Reicate Road         Southbound         Sutton         -         150 (17%)           1825.1         RA217 Behmont Rise         Southbound         Sutton         -         151 (15%)           1926.2         A217 Behmont Rise         Southbound         Croydon         -         9 (13%)           1915.1         B2203 Brighton Road<	1952,1	A23 Brighton Road	Southbound	Croydon	1325	1310
8927.1         A25 Nutfield Road         Westbound         Tardridge         371         373           8958.1         A23 Brabton Road         Northbound         Mole Valley         786         787           8866.1         A21 Reigate Road         Northbound         Mole Valley         786         787           8816.1         A25 Buckland Road         Eastbound         Mole Valley         729         720           17611.1         E2033 Headley Common Rd         Eastbound         Mole Valley         872         907           17611.2         E203 Tatenham Comer Road         Southbound         Epsorn & Evell         271         274           17799.2         E2221 Tatenham Comer Road         Southbound         Epsorn & Evell         324         225         251           11368.1         E284 PV Tree Botom Road         Southbound         Epsorn & Evell         691         795           12020.2         A240 Reinate Road         Southbound         Sutton         -         150 (175)           1915.1         E2230 Brahton Road         Southbound         Sutton         -         150 (175)           1915.4         E2230 Brahton Road         Southbound         Croydon         -         120 (265)           2028.2         <	17601,1	B2031 Dean Lane	Westbound	Tandridge	512	514
1678,1         22036 Balcombe Road         Northbound         West Sussex         913         911           8858,1         A23 Brichton Road         Northbound         Mole Valley         1120         1120           8866,1         A217 Reidate Road         Eastbound         Mole Valley         729         720           17611,1         B2032 Pebble Hil Road         Northbound         Mole Valley         296         334           17791,2         B209 Tattenham Corner Road         Southbound         Ensom & Ewell         363         401           11386,1         B284 Yew Tree Bottom Road         Eastbound         Ensom & Ewell         364         244           1200,2         A240 Reicate Road         Southbound         Ensom & Ewell         363         401           1386,1         B284 Yew Tree Bottom Road         Southbound         Ensom & Ewell         364         244           1200,2         A240 Reicate Road         Southbound         Sutton         -         150 (17%)           1915,1         B221 Brichton Road         Southbound         Sutton         -         191 (51 (54)           3278 Carshalton Road         Southbound         Curydon         -         191 (51 (54)           3278 Carshalton Road         Southbound </td <td>8927,1</td> <td>A25 Nutfield Road</td> <td>Westbound</td> <td>Tandridge</td> <td>371</td> <td>373</td>	8927,1	A25 Nutfield Road	Westbound	Tandridge	371	373
8858.1         A23 Brighton Road         Northbound         Mole Vallev         1120         1120           8816.1         A217 Reigate Road         Eastbound         Mole Vallev         722         720           17611.1         B2032 Peable Hill Road         Northbound         Mole Vallev         722         907           17613.1         B2033 Headley Common Rd         Eastbound         Mole Vallev         226         334           17791.2         B290 Tattenham Corner Road         Southbound         Esson & Ewell         363         401           11368.1         B284 Yew Tree Bottom Road         Eastbound         Epson & Ewell         363         401           1120.2         A240 Reigate Road         Southbound         Epson & Ewell         324         246           10200.2         A240 Reigate Road         Southbound         Sutton         -         150 (17%)           1915.1         B2230 Brighton Road         Southbound         Sutton         -         150 (17%)           28268.2         A2022 Croydon Lane         Westbound         Croydon         -         15 (13%)           1948.1         B2032 Outwood Lane         Westbound         Tandridge         -         10%)           1952.1         A23 Brighton Road	15678,1	B2036 Balcombe Road	Northbound	West Sussex	913	911
8866.1         A217 Reigate Road         Northbound         Mole Valley         729         720           17611.1         B2032 Pebble Hill Road         Eastbound         Mole Valley         872         907           17613.1         B2033 Pebble Hill Road         Northbound         Epson & Ewell         286         334           17791.2         B203 Tatenham Corner Road         Southbound         Epson & Ewell         283         401           11368.1         B284 Yew Tree Bottom Road         Eastbound         Epson & Ewell         324         246           10200.2         A240 Reigate Road         Southbound         Epson & Ewell         691         795           Difference from Scenario B         and percentace change from Scenario D         150 (17%)         150 (17%)           1915.1         B230 Eric Toxidon Lane         Westbound         Cirvdon         -         121 (26%)           1948.1         B203 Zuvodol Lane         Westbound         Cirvdon         -         121 (26%)           1952.1         A23 Brighton Road         Southbound         Cirvdon         -         121 (26%)           1963.1         B203 Evolon Road         Southbound         Cirvdon         -         121 (26%)           1952.1         A23 Brighton Road<	8858,1	A23 Brighton Road	Northbound	Mole Valley	1120	1120
B816.1         A25 Buckland Road         Lastbound         Mole Valley         729         720           17611.1         B2033 Headley Common Rd         Eastbound         Mole Valley         872         907           177612.1         B203 Headley Common Rd         Eastbound         Epson & Ewell         236         334           17789.2         B2221 Tattenham Corner Road         Southbound         Epson & Ewell         363         401           11368.1         B244 Yew Tree Bottom Road         Eastbound         Epson & Ewell         363         401           1200.2         A240 Reigate Road         Southbound         Epson & Ewell         324         246           1200.2         A240 Reigate Road         Southbound         Staton         -         150 (17%)           18256.2         A217 Belmont Rise         Southbound         Suthon         -         150 (17%)           18268.2         A2022 Crowon Lane         Westbound         Crowdon         -         192 (15%)           1948.1         B2032 Outwood Lane         Westbound         Crowdon         -         151 (3%)           1952.1         A23 Brighton Road         Southbound         Crowdon         -         10 (5%)           1952.4         B2032 Outwood Lane	8866,1	A217 Reigate Road	Northbound	Mole Valley	786	787
11         B2032 FebDie Fill Road         Northbound         Mole Valley         262         307           17613.1         B2033 Headley Common Rd         Eastbound         Epson & Ewell         271         274           17791.2         B2201 Tatenham Corner Road         Southbound         Epson & Ewell         363         401           11368.1         B224 Yew Tree Bottom Road         Eastbound         Epson & Ewell         324         246           10200.2         A240 Reigate Road         Southbound         Epson & Ewell         324         246           10200.2         A240 Reigate Road         Southbound         Esson & Ewell         324         246           10200.2         A240 Reigate Road         Southbound         Sutton         -         571530           11915.1         B2230 Erichton Road         Southbound         Sutton         -         150 (17%)           1202.2         A217 Belmont Rise         Southbound         Croydon         -         161 (11%)           1203.2         A212 Cordyon Lane         Westbound         Croydon         -         16 (13%)           1204.2         A23 Brighton Road         Southbound         Croydon         -         15 (13%)           1204.2         B40 <t< td=""><td>8816,1</td><td>A25 Buckland Road</td><td>Eastbound</td><td>Mole Valley</td><td>729</td><td>720</td></t<>	8816,1	A25 Buckland Road	Eastbound	Mole Valley	729	720
17613.1         B2033 Headev Common Road         Eastbound         Mole Valley         296         334           17791.2         B2201 Tattenham Corescent         Eastbound         Epsom & Ewell         363         401           11368.1         B2241 Tattenham Corescent         Eastbound         Epsom & Ewell         363         401           11368.1         B224 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         324         246           10200.2         A240 Relate Road         Southbound         Epsom & Ewell         324         246           10200.2         A247 Relamont Rise         Southbound         Epsom & Ewell         324         246           10200.2         A247 Relamont Rise         Southbound         Epsom & Ewell         324         246           10200.2         A247 Relamont Rise         Southbound         Epsom & Ewell         324         246           10200.2         A247 Relamont Rise         Southbound         Sutton         150 (17%)         150 (17%)           1952.1         A251 Brighton Road         Southbound         Crowdon         -         19 (1%)           1962.1         A232 Archibiton Road         Southbound         Crowdon         -         12 (1%)           1962.1	1/611,1	B2032 Pebble Hill Road	Northbound	Mole Valley	872	907
17791_2         B2201 Tattenham Conter Road         Southbound         Epson & Ewell         271         274           17799_2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         252         251           11368_1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         363         401           10200_2         A240 Reicate Road         Southbound         Epsom & Ewell         691         795           11915_1         B2218 Dathton Road         Southbound         Sutton         -         150 (17%)           1915_1         B2208 Dathton Road         Southbound         Sutton         -         150 (17%)           1916_1         B2278 Carshalton Road         Southbound         Crowdon         -         120 (26%)           1948_1         B2032 Outwood Lane         Westbound         Crowdon         -         120 (26%)           1948_1         B2032 Outwood Lane         Westbound         Tandnidge         -         3158)           8927_1         A25 Mutfield Road         Northbound         Westbound         Tandnidge         -         106%)           1952_1         A23 Brichton Road         Northbound         Motfidge         -         106%)           8927_1	17613,1	B2003 Headley Common Rd	Eastbound		296	334
Integra         Description         Description <thdescription< th=""> <thdescription< th=""> <th< td=""><td>17780.2</td><td>B2221 Tattenham Crescent</td><td>Easthound</td><td>Epsom &amp; Ewell</td><td>271</td><td><u> </u></td></th<></thdescription<></thdescription<>	17780.2	B2221 Tattenham Crescent	Easthound	Epsom & Ewell	271	<u> </u>
Instant         Description         Description <thdescription< th=""> <thdescription< th=""> <th< td=""><td>11368 1</td><td>B284 Yew Tree Bottom Road</td><td>Eastbound</td><td>Epsom &amp; Ewell</td><td>252</td><td>251</td></th<></thdescription<></thdescription<>	11368 1	B284 Yew Tree Bottom Road	Eastbound	Epsom & Ewell	252	251
International         Descrite	17619.1	B291 Fir Tree Road	Northbound	Epsom & Ewell	324	246
Difference from Scenario B and percentage charge from Scenario D           16258.2         A217 Belmon Rise         Southbound         Sutton         -         150117%)           1915.1         B2230 Brighton Road         Southbound         Sutton         -         150117%)           8266.2         B2216 Sutton Lane         Southbound         Sutton         -         116(11%)           8268.2         A2022 Croydon Lane         Westbound         Croydon         -         120(26%)           1948.1         B2030 Zutwood Lane         Westbound         Croydon         -         15(13%)           1952.1         A23 Brighton Road         Southbound         Croydon         -         15(13%)           1952.1         A23 Brighton Road         Nouthieud         Tandridge         -         10%)           8277.1         A25 Nutfield Road         Westbound         Tandridge         -         10%)           16578.1         B2036 Balcombe Road         Northbound         Mole Valley         -         10%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         34 (4%)           17611.1         B2032 Pebble Hill Road         Northbound         Eastbound         Mole Valley         -         <	10200.2	A240 Reigate Road	Southbound	Epsom & Ewell	691	795
16258.2         A217 Belmont Rise         Southbound         Sutton         -         150 (17%)           1915.1         B2230 Brighton Road         Southbound         Sutton         -         157 (5%)           8266.2         B2218 Sutton Lane         Southbound         Croydon         -         116 (11%)           8268.2         A2022 Croydon Lane         Westbound         Croydon         -         120 (26%)           1948.1         B2032 Outwood Lane         Westbound         Croydon         -         155 (8%)           1952.1         A23 Brighton Road         Southbound         Croydon         -         155 (8%)           1957.1         A25 Muffield Road         Westbound         Tandridge         -         1 (0%)           8927.1         A25 Muffield Road         Westbound         Morthbound         Meet Sussex         -         - 2 (0%)           8866.1         A217 Reliane Road         Northbound         Mole Valley         -         1 (0%)           17613.1         B2033 Headley Common Rd         Eastbound         Mole Valley         -         38 (13%)           17791.2         B2921 Tattenham Creescent         Eastbound         Epsom & Ewell         -         10 (1%)           17781.2         B29	10200,2	Difference from Scenar	rio B and percentage	change from Scenario I		100
1915.1         B2230 Brighton Road         Southbound         Sutton         -         57 (5%)           8266.2         B2216 Sutton Lane         Southbound         Sutton         -         116 (113)           8268.2         A2022 Crovdon Lane         Westbound         Crovdon         -         9(-1%)           1948.1         B2032 Outwood Lane         Westbound         Crovdon         -         15 (13%)           1948.1         B2032 Outwood Lane         Westbound         Crovdon         -         15 (13%)           8927.1         A25 Nutfield Road         Westbound         Tandridge         -         2 (0%)           8957.1         A25 Nutfield Road         Northbound         West Sussex         -         -         2 (0%)           8856.1         A23 Brighton Road         Northbound         Mole Valley         -         -         1 (0%)           8866.1         A25 Euckland Road         Bactbound         Mole Valley         -         1 (0%)           17611.1         B2032 Pebble Hill Road         Northbound         Mole Valley         -         10 (13%)           17712.2         B2201 Tatenham Comer Road         Southbound         Epsom & Ewell         -         -         1 (0%)           17781	16258,2	A217 Belmont Rise	Southbound	Sutton	-	150 (17%)
B266.2         B2218         Sutton Lane         Southbound         Sutton         -         116 (11%)           B268.2         A2022         Croydon Lane         Westbound         Croydon         -         9 (1%)           1948.1         B2032         Outwood Lane         Westbound         Croydon         -         15 (1%)           1952.1         A23 Brighton Road         Southbound         Croydon         -         15 (1%)           17601.1         B2036         Balcombe Road         Westbound         Tandridge         -         3 (1%)           1952.1         A23 Brighton Road         Westbound         Tandridge         -         1 (0%)           8856.1         A217 Reigate Road         Northbound         Mest Sussex         -         - 2 (0%)           8816.1         A217 Reigate Road         Northbound         Mole Valley         -         10 (1%)           17613.1         B2033 Headley Common Rd         Eastbound         Mole Valley         -         38 (13%)           1779.2         B2217 Tatenham Cerseent         Eastbound         Epsom & Ewell         -         -         10 (1%)           1781.1         B203 Tatenham Cerseent         Eastbound         Epsom & Ewell         -         -	1915,1	B2230 Brighton Road	Southbound	Sutton	-	57 (5%)
B268.2         A2022 Crovdon Lane         Westbound         Crovdon         -         -         -9 (-1%)           16109.1         B278 Carshalton Road         Southbound         Crovdon         -         15 (1%)           1948.1         B2032 Outwood Lane         Westbound         Crovdon         -         15 (1%)           1952.1         A23 Brighton Road         Southbound         Tandridge         -         -         15 (1%)           8927.1         A25 Nutfield Road         Westbound         Tandridge         -         2 (0%)           8858.1         A23 Brighton Road         Northbound         Meest Sussex         -         - 2 (0%)           8856.1         A217 Reigate Road         Northbound         Mole Valley         -         - 10 (0%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         34 (4%)           17611.1         B203 Headley Common Rd         Eastbound         Mole Valley         -         34 (1%)           17781.2         B2221 Tattenham Cremer Road         Southbound         Epsom & Ewell         -         1 (0%)           17781.2         B221 Tattenham Cremer Road         Southbound         Epsom & Ewell         -         -         2 (1%)	8266,2	B2218 Sutton Lane	Southbound	Sutton	-	116 (11%)
16109.1         B278 Carshalton Road         Southbound         Crowdon         -         120 (26%)           1948.1         B2032 Outwood Lane         Westbound         Crowdon         -         55 (8%)           1952.1         A23 Brighton Road         Southbound         Crowdon         -         15 (1%)           17601.1         B2031 Dean Lane         Westbound         Tandridge         -         3 (1%)           8927.1         A25 Nutfield Road         Westbound         Tandridge         -         2 (0%)           18568.1         A23 Brighton Road         Northbound         Mole Valley         -         -         2 (0%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         -         10 (0%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         -         10 (1%)           17611.1         B2032 Pebble Hill Road         Northbound         Epsom & Ewell         -         4 (1%)           17791.2         B2921 Tattenham Corner Road         Southbound         Epsom & Ewell         -         -         10 (0%)           1781.1         B204 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -	8268,2	A2022 Croydon Lane	Westbound	Croydon	-	-9 (-1%)
1948,1         B2032 Outwood Lane         Westbound         Croydon         -         55 (8%)           1952.1         A23 Brighton Road         Southbound         Tandridge         -         15 (13%)           8927.1         A25 Nutfield Road         Westbound         Tandridge         -         1 (0%)           8958.1         A23 Brighton Road         Northbound         West Sussex         -         -         2 (0%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         -         1 (0%)           17611.1         B2032 Pebble Hill Road         Northbound         Mole Valley         -         -         1 (0%)           17611.1         B2032 Pebble Hill Road         Northbound         Mole Valley         -         38 (13%)           17712.2         B220 Tattenham Corner Road         Southbound         Epsom & Ewell         -         4 (1%)           17781.2         B224 Tatenham Crescent         Eastbound         Epsom & Ewell         -         1 (0%)           17613.1         B203 Brighton Road         Southbound         Epsom & Ewell         -         -         2 (24%)           17619.1         B224 Yew Tree Bottom Road         Southbound         Epsom & Ewell         -	16109,1	B278 Carshalton Road	Southbound	Croydon	-	120 (26%)
1952.1         A23 Brighton Road         Southbound         Croydon         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         10%           1857.1         B2036 Dean Lane         Westbound         Tandridge         -         -         10%         3         1%         -         -         10%         3         1%         -         -         10%         3         16%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%	1948,1	B2032 Outwood Lane	Westbound	Croydon	-	55 (8%)
17601,1         B2031 Dean Lane         Westbound         Tandridge         -         3 (1%)           98927.1         A25 Nutfield Road         Westbound         Tandridge         -         10%)           15678.1         B2036 Balcombe Road         Northbound         Westb Sussex         -         -2 (0%)           8856.1         A21 Reigate Road         Northbound         Mole Valley         -         -1 (0%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         -1 (0%)           8816.1         A25 Buckland Road         Eastbound         Mole Valley         -         -10 (-1%)           17611.1         B2033 Headley Common Rd         Eastbound         Mole Valley         -         34 (4%)           17712.2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         -         4 (1%)           11789.2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<	1952,1	A23 Brighton Road	Southbound	Croydon	-	-15 (-1%)
B827.1         A25 Nutfield Koad         Westbound         Tandhdoge         -         1 (0%)           15678.1         B2036 Balcombe Road         Northbound         West Sussex         -         -         2 (0%)           8858.1         A23 Brighton Road         Northbound         Mole Valley         -         0 (0%)           8866.1         A217 Reigate Road         Northbound         Mole Valley         -         0 (0%)           17611.1         B2032 Pebble Hill Road         Eastbound         Mole Valley         -         34 (4%)           17761.2         B290 Tattenham Corner Road         Southbound         Epsom & Ewell         -         4 (1%)           17789.2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         -         10%)           17619.1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -         10%)           17619.1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -         -         10%)           10200.2         A240 Reigate Road         Southbound         Sutton         1.12         1.30           1915.1         B2230 Brighton Road         Southbound         Sutton         0.97         1.07 </td <td>17601,1</td> <td>B2031 Dean Lane</td> <td>Westbound</td> <td>landridge</td> <td>-</td> <td>3 (1%)</td>	17601,1	B2031 Dean Lane	Westbound	landridge	-	3 (1%)
Instruction         Decision Bacconnet Road         Northbound         West Sussex         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         10%         -         -         10%         -         -         10%         -         -         10%         -         -         10%         -         -         10%         -         -         10%         -         -         10%         -         -         10%         -         -         -         10%         -         -         10%         -         -         -         10%         -         -         10%         -         10%         -         10%         -         10%         11%         10%         11%         10%         11%         10%	8927,1	A25 Nutfield Road	Westbound	Landridge	-	1 (0%)
Bots, 1         Acs Bridition Road         Northbound         Mode Valley         -         -         10%           8866,1         A217 Reigate Road         Northbound         Mole Valley         -         00%           8816,1         A25 Buckland Road         Eastbound         Mole Valley         -         34 (4%)           17611,1         B2032 Pebble Hill Road         Northbound         Mole Valley         -         34 (4%)           17611,2         B290 Tattenham Corner Road         Southbound         Epsom & Ewell         -         4 (1%)           17789,2         B2221 Tattenham Corner Road         Southbound         Epsom & Ewell         -         -         10%)           11368,1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -         10%)           10200,2         A240 Reigate Road         Southbound         Epsom & Ewell         -         -         104 (15%)           10200,2         A217 Belmont Rise         Southbound         Sutton         1.12         1.30           1915,1         B2230 Brighton Road         Southbound         Sutton         0.97         1.07           8268,2         A2022 Croydon Lane         Westbound         Croydon         0.61 <t< td=""><td>10070,1</td><td>A22 Prighton Pood</td><td>Northbound</td><td>Mele Velley</td><td>-</td><td>-2 (0%)</td></t<>	10070,1	A22 Prighton Pood	Northbound	Mele Velley	-	-2 (0%)
Boldor,1       Az5 Buckland Road       Northbound       Mole Valley       -       -10 (-1%)         17611,1       B2032 Pebble Hill Road       Northbound       Mole Valley       -       34 (4%)         17613,1       B2033 Headley Common Rd       Eastbound       Mole Valley       -       38 (13%)         17791,2       B290 Tattenham Corner Road       Southbound       Epsom & Ewell       -       4 (1%)         17789,2       B2221 Tattenham Crescent       Eastbound       Epsom & Ewell       -       -       10%)         11368,1       B284 Yew Tree Bottom Road       Southbound       Epsom & Ewell       -       -       -       79 (-24%)         10200,2       A240 Reigate Road       Southbound       Epsom & Ewell       -       -       10%)         16258,2       A217 Belmont Rise       Southbound       Sutton       1.12       1.30         1915,1       B2230 Brighton Road       Southbound       Sutton       0.97       1.07         8266,2       B2218 Sutton Lane       Southbound       Croydon       0.52       0.51         16109,1       B278 Carshalton Road       Southbound       Croydon       0.61       0.77         1948,1       B2032 Outwood Lane       Westbound	8866 1	A217 Reigate Road	Northbound	Mole Valley	-	-1 (0%)
ObjectThe Debte Hill RoadNorthboundMole Valley-34 (4%)17613.1B2032 Pebble Hill RoadNorthboundMole Valley-38 (13%)17711.2B290 Tattenham Corner RoadSouthboundEpsom & Ewell-4 (1%)17789.2B2221 Tattenham CrescentEastboundEpsom & Ewell-38 (10%)11368.1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell10%)17619.1B291 Fir Tree RoadNorthboundEpsom & Ewell104 (15%)1020.2A240 Reigate RoadSouthboundEpsom & Ewell104 (15%)RFC (pcu)***********************************	8816.1	A25 Buckland Road	Fastbound	Mole Valley		-10 (-1%)
17613,1         B2033 Headley Common Rd         Eastbound         Mole Valley         -         38 (13%)           17791,2         B290 Tattenham Corner Road         Southbound         Epsom & Ewell         -         4 (1%)           17789,2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         -         4 (1%)           11368,1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -         10%)           17619,1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -         104(15%)           17619,1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -         104(15%)           176258,2         A217 Belmont Rise         Southbound         Sutton         1.12         1.30           1915,1         B2230 Brighton Road         Southbound         Sutton         0.97         1.07           8266,2         B2218 Sutton Lane         Westbound         Croydon         0.61         0.77           1948,1         B2032 Outwood Lane         Westbound         Croydon         0.47         0.46           17601,1         B2033 Dean Lane         Westbound         Tandridge         0.32         0.32	17611.1	B2032 Pebble Hill Road	Northbound	Mole Valley	-	34 (4%)
17791.2         B290 Tattenham Corner Road         Southbound         Epsom & Ewell         -         4 (1%)           17789.2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         -         38 (10%)           11368.1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -         10%)           11368.1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -         10%)           11368.1         B284 Yew Tree Bottom Road         Southbound         Epsom & Ewell         -         -         -         10%)           10200.2         A240 Reigate Road         Southbound         Epsom & Ewell         -         104 (15%) <i>RFC (pcu)</i> 16258.2         A217 Belmont Rise         Southbound         Sutton         1.12         1.30           1915.1         B2230 Brighton Road         Southbound         Croydon         0.52         0.51           16109.1         B278 Carshalton Road         Southbound         Croydon         0.61         0.77           1948.1         B2032 Outwood Lane         Westbound         Croydon         0.44         0.44           1952.1         A23 Brighton Road	17613.1	B2033 Headley Common Rd	Eastbound	Mole Valley	-	38 (13%)
17789.2         B2221 Tattenham Crescent         Eastbound         Epsom & Ewell         -         38 (10%)           11368.1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -         10%)           17619.1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -79 (-24%)           10200.2         A240 Reigate Road         Southbound         Epsom & Ewell         -         104 (15%) <i>RFC (pcu)</i> ***********************************	17791,2	B290 Tattenham Corner Road	Southbound	Epsom & Ewell	-	4 (1%)
11368,1         B284 Yew Tree Bottom Road         Eastbound         Epsom & Ewell         -         -1(0%)           17619,1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -79 (-24%)           10200,2         A240 Reigate Road         Southbound         Epsom & Ewell         -         -79 (-24%)           10200,2         A240 Reigate Road         Southbound         Epsom & Ewell         -         -79 (-24%)           10200,2         A240 Reigate Road         Southbound         Sutton         1.12         1.30           1915,1         B2230 Brighton Road         Southbound         Sutton         1.42         1.49           8266,2         B2218 Sutton Lane         Southbound         Sutton         0.97         1.07           8268,2         A2022 Croydon Lane         Westbound         Croydon         0.61         0.77           1948,1         B2032 Outwood Lane         Westbound         Croydon         0.44         0.44           8927,1         A25 Nutfield Road         Westbound         Tandridge         0.32         0.32           15678,1         B2036 Balcombe Road         Northbound         Mole Valley         0.67         0.67           8858,1         A23 Brighton Road	17789,2	B2221 Tattenham Crescent	Eastbound	Epsom & Ewell	-	38 (10%)
17619.1         B291 Fir Tree Road         Northbound         Epsom & Ewell         -         -         -79 (-24%)           10200,2         A240 Reigate Road         Southbound         Epsom & Ewell         -         104 (15%)           RFC (pcu)           16258,2         A217 Belmont Rise         Southbound         Sutton         1.12         1.30           1915.1         B2230 Brighton Road         Southbound         Sutton         1.42         1.49           8266.2         B2218 Sutton Lane         Southbound         Sutton         0.97         1.07           8268.2         A2022 Croydon Lane         Westbound         Croydon         0.52         0.51           16109.1         B278 Carshalton Road         Southbound         Croydon         0.61         0.77           1948.1         B2032 Outwood Lane         Westbound         Croydon         0.44         0.44           1952.1         A23 Brighton Road         Southbound         Tandridge         0.32         0.32           17601.1         B2030 Bealcombe Road         Northbound         Meet Sussex         0.55         0.55           8858.1         A23 Brighton Road         Northbound         Mole Valley         0.67         0.67	11368,1	B284 Yew Tree Bottom Road	Eastbound	Epsom & Ewell	-	-1 (0%)
10200,2         A240 Reigate Road         Southbound         Epsom & Ewell         -         104 (15%)           RFC (pcu)         RFC (pcu)         -         -         104 (15%)           1915,1         B2230 Brighton Road         Southbound         Sutton         1.42         1.49           8266,2         B2218 Sutton Lane         Southbound         Sutton         0.97         1.07           8268,2         A2022 Croydon Lane         Westbound         Croydon         0.52         0.51           16109,1         B278 Carshalton Road         Southbound         Croydon         0.61         0.77           1948,1         B2032 Outwood Lane         Westbound         Croydon         0.89         0.96           1952,1         A23 Brighton Road         Southbound         Tandridge         0.44         0.44           8927,1         A25 Nutfield Road         Westbound         Tandridge         0.32         0.32           15678,1         B2036 Balcombe Road         Northbound         Mole Valley         1.45         1.45           8866,1         A217 Reigate Road         Northbound         Mole Valley         0.67         0.67           17611,1         B2032 Pebble Hill Road         Northbound         Mole Valley <td>17619,1</td> <td>B291 Fir Tree Road</td> <td>Northbound</td> <td>Epsom &amp; Ewell</td> <td>-</td> <td>-79 (-24%)</td>	17619,1	B291 Fir Tree Road	Northbound	Epsom & Ewell	-	-79 (-24%)
RFC (pcu)16258,2A217 Belmont RiseSouthboundSutton1.121.301915,1B2230 Brighton RoadSouthboundSutton1.421.498266,2B2218 Sutton LaneSouthboundSutton0.971.078268,2A2022 Croydon LaneWestboundCroydon0.520.5116109,1B278 Carshalton RoadSouthboundCroydon0.610.771948,1B2032 Outwood LaneWestboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.440.448927,1A25 Nutfield RoadWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundMeet Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317613,1B2033 Headley Common RdEastboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.6640.6317791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.470.5217791,2B291 Fir Tree RoadNorthboundEpsom & Ewell0.470.5217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3117600,2A240 Reigate Road <t< td=""><td>10200,2</td><td>A240 Reigate Road</td><td>Southbound</td><td>Epsom &amp; Ewell</td><td>-</td><td>104 (15%)</td></t<>	10200,2	A240 Reigate Road	Southbound	Epsom & Ewell	-	104 (15%)
16258,2A217 Belmont RiseSouthboundSutton1.121.301915,1B2230 Brighton RoadSouthboundSutton1.421.498266,2B2218 Sutton LaneSouthboundSutton0.971.078268,2A2022 Croydon LaneWestboundCroydon0.610.771948,1B2032 Outwood LaneWestboundCroydon0.890.961952,1A23 Brighton RoadSouthboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.6717613,1B2032 Pebble Hill RoadNorthboundMole Valley0.640.6317613,1B2033 Headley Common RdEastboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.640.6317791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.470.5217789,2B221 Tattenham CrescentEastboundEpsom & Ewell0.470.5217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Rejagate RoadSouthboundEpsom & Ewell0.410.31	40050.0		RFC (pcu)	0	4.40	4.00
1915,1B2230 Brighton RoadSouthboundSutton1.421.498266,2B2218 Sutton LaneSouthboundSutton0.971.078268,2A2022 Croydon LaneWestboundCroydon0.610.771948,1B278 Carshalton RoadSouthboundCroydon0.610.771948,1B2032 Outwood LaneWestboundCroydon0.470.4617601,1B2031 Dean LaneWestboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.6717611,1B2032 Pebble Hill RoadNorthboundMole Valley0.640.6317791,2B203 Headley Common RdEastboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.470.5211368,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.410.31	16258,2	A217 Belmont Rise	Southbound	Sutton	1.12	1.30
8266,2B2218 Sutton LaneSouthboundSouthboundSouthboundO.971.078268,2A2022 Croydon LaneWestboundCroydon0.520.5116109,1B278 Carshalton RoadSouthboundCroydon0.610.771948,1B2032 Outwood LaneWestboundCroydon0.470.461952,1A23 Brighton RoadSouthboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEastboundEpsom & Ewell0.470.5217789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadNorthboundEpsom & Ewell0.410.31	1915,1	B2230 Brighton Road	Southbound	Sutton	1.42	1.49
16109,1B278 Carshalton RoadNestboundCroydon0.610.771948,1B2032 Outwood LaneWestboundCroydon0.610.771952,1A23 Brighton RoadSouthboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.320.3215678,1B2036 Balcombe RoadWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEastboundEpsom & Ewell0.160.1717613,1B203 Headley Common RdEastboundEpsom & Ewell0.470.520.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.470.520.3211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.410.310.3110200,2A240 Reigate RoadNorthboundEpsom & Ewell0.410.310.31	8268.2	A2022 Croydon Lane	Westbound	Croydon	0.57	0.51
101011D210 Continue0101010101011948,1B2032 Outwood LaneWestboundCroydon0.890.961952,1A23 Brighton RoadSouthboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.320.3215678,1B2036 Balcombe RoadWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.470.5217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.410.31	16109.1	B278 Carshalton Road	Southbound	Croydon	0.61	0.77
1952,1A23 Brighton RoadSouthboundCroydon0.470.4617601,1B2031 Dean LaneWestboundTandridge0.440.448927,1A25 Nutfield RoadWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham CrescentEastboundEpsom & Ewell0.160.1717789,2B221 Tattenham CrescentEastboundEpsom & Ewell0.320.3211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadNorthboundEpsom & Ewell0.410.31	1948.1	B2032 Outwood Lane	Westbound	Croydon	0.89	0.96
17601,1B2031 Dean LaneWestboundTandridge0.440.448927,1A25 Nutfield RoadWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B221 Tattenham CrescentEastboundEpsom & Ewell0.320.3211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.410.31	1952.1	A23 Brighton Road	Southbound	Crovdon	0.47	0.46
8927,1A25 Nutfield RoadWestboundTandridge0.320.3215678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	17601,1	B2031 Dean Lane	Westbound	Tandridge	0.44	0.44
15678,1B2036 Balcombe RoadNorthboundWest Sussex0.550.558858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	8927,1	A25 Nutfield Road	Westbound	Tandridge	0.32	0.32
8858,1A23 Brighton RoadNorthboundMole Valley1.451.458866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	15678,1	B2036 Balcombe Road	Northbound	West Sussex	0.55	0.55
8866,1A217 Reigate RoadNorthboundMole Valley0.670.678816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	8858,1	A23 Brighton Road	Northbound	Mole Valley	1.45	1.45
8816,1A25 Buckland RoadEastboundMole Valley0.640.6317611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	8866,1	A217 Reigate Road	Northbound	Mole Valley	0.67	0.67
1/611,1B2032 Pebble Hill RoadNorthboundMole Valley0.740.7717613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	8816,1	A25 Buckland Road	Eastbound	Mole Valley	0.64	0.63
17613,1B2033 Headley Common RdEastboundMole Valley0.250.2817791,2B290 Tattenham Corner RoadSouthboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	17611,1	B2032 Pebble Hill Road	Northbound	Mole Valley	0.74	0.77
17791,2B290 Fatterman Corner RoadSournboundEpsom & Ewell0.160.1717789,2B2221 Tattenham CrescentEastboundEpsom & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	1/613,1	B200 Tottonhom Correct Dec.	Eastbound		0.25	0.28
11109,2D2221 Fattermann CrescentEastboundEpson & Ewell0.470.5211368,1B284 Yew Tree Bottom RoadEastboundEpsom & Ewell0.320.3217619,1B291 Fir Tree RoadNorthboundEpsom & Ewell0.410.3110200,2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	17790.2	B2221 Tattenham Corner Koad	Southbound		0.10	0.17
17619,1B291 Fir Tree RoadNorthboundEpson & Ewell0.320.3210200.2A240 Reigate RoadSouthboundEpsom & Ewell0.891.02	11362 1	B284 Vew Tree Bottom Pood	Eastbound	Epson & Ewall	0.47	0.32
10200.2 A240 Reigate Road Southbound Epson & Ewell 0.89 1.02	17610.1	B291 Fir Tree Road	Northbound	Epsom & Ewell	0.32	0.32
	10200.2	A240 Reigate Road	Southbound	Epsom & Ewell	0.89	1.02

 Table 3.10: Weekday average AM Peak Hour (0700 – 1000) traffic flow summary entering

 Reigate and Banstead borough for A principal and B roads which cross into neighbouring authorities

Link Ref	Road	Direction of	Local Authority	2031	2031
	Koad	Travel	Trips Travelling To	Scenario B	Scenario D
10050.0		Vehicle flows (vpl	h)	0.40	0.47
16258,2	A217 Belmont Rise	Southbound	Sutton	648	647
8266.2	B2230 Bilgillon Road	Southbound	Sutton	1113	1724
8268.2	A2022 Crovdon Lane	Westbound	Crovdon	879	869
16109.1	B278 Carshalton Road	Southbound	Crovdon	331	379
1948,1	B2032 Outwood Lane	Westbound	Croydon	534	542
1952,1	A23 Brighton Road	Southbound	Croydon	1345	1307
17601,1	B2031 Dean Lane	Westbound	Tandridge	328	333
8927,1	A25 Nutfield Road	Westbound	Tandridge	403	402
15678,1	B2036 Balcombe Road	Northbound	West Sussex	585	595
8858,1	A23 Brighton Road	Northbound	Mole Valley	1000	997
8866,1	A217 Reigate Road	Northbound	Mole Valley	751	750
8816,1	A25 Buckland Road	Eastbound		1005	986
17611,1	B2032 Peoble Hill Road			753	763
17701.2	B2003 Readley Common Ru	Southbound		210	<u>221</u> 456
17790.2	B2221 Tattonham Croscont	Eactbound	Epsom & Ewell	470	430
11368.1	B284 Yew Tree Bottom Road	Eastbound	Epsom & Ewell	228	220
17619.1	B291 Fir Tree Road	Northbound	Epsom & Ewell	458	455
10200.2	A240 Reigate Road	Southbound	Epsom & Ewell	750	752
10200,2	Difference from Scena	rio B and percentad	e change from Scenario	D 700	102
16258,2	A217 Belmont Rise	Southbound	Sutton	-	-2 (0%)
1915,1	B2230 Brighton Road	Southbound	Sutton	-	50 (5%)
8266,2	B2218 Sutton Lane	Southbound	Sutton	-	612 (55%)
8268,2	A2022 Croydon Lane	Westbound	Croydon	-	-10 (-1%)
16109,1	B278 Carshalton Road	Southbound	Croydon	-	48 (14%)
1948,1	B2032 Outwood Lane	Westbound	Croydon	-	9 (2%)
1952,1	A23 Brighton Road	Southbound	Croydon	-	-38 (-3%)
17601,1	B2031 Dean Lane	Westbound	Tandridge	-	5 (1%)
8927,1	A25 Nutfield Road	Westbound	landridge	-	-1 (0%)
15678,1	B2036 Balcombe Road	Northbound	VVest Sussex	-	10 (2%)
8858,1	A23 Brighton Road	Northbound		-	-3 (0%)
0000,1	A25 Ruckland Road	Footbound		-	-1 (0%)
17611 1	B2032 Pebble Hill Road	Northbound		-	-19(-2%)
17613.1	B2032 Headley Common Rd	Fastbound	Mole Valley		5(2%)
17791.2	B290 Tattenham Corner Road	Southbound	Epsom & Ewell	-	_1/ (_3%)
17789.2	B2221 Tattenham Crescent	Eastbound	Epsom & Ewell	-	1 (0%)
11368.1	B284 Yew Tree Bottom Road	Eastbound	Epsom & Ewell	-	-8 (-3%)
17619,1	B291 Fir Tree Road	Northbound	Epsom & Ewell	-	-4 (-1%)
10200,2	A240 Reigate Road	Southbound	Epsom & Ewell	-	2 (0%)
	1	RFC (pcu)	r		
16258,2	A217 Belmont Rise	Southbound	Sutton	0.84	0.84
1915,1	B2230 Brighton Road	Southbound	Sutton	1.33	1.40
8266,2	B2218 Sutton Lane	Southbound	Sutton	0.97	1.48
8268,2	A2022 Croydon Lane	Westbound	Croydon	0.53	0.53
16109,1	B278 Carshalton Road	Southbound	Croydon	0.45	0.51
1948,1	A22 Drighton Dood	Vestbound	Croydon	0.70	0.72
17601.1	R2021 Doop Long	Westbound	Tandridgo	0.40	0.43
8027.1	A25 Nutfield Road	Westbound	Tandridge	0.20	0.20
15678.1	B2036 Balcombe Road	Northbound	West Sussex	0.35	0.36
8858 1	A23 Brighton Road	Northbound	Mole Valley	1.30	1.30
8866.1	A217 Reigate Road	Northbound	Mole Valley	0.64	0.64
8816.1	A25 Buckland Road	Eastbound	Mole Valley	0.86	0.85
17611.1	B2032 Pebble Hill Road	Northbound	Mole Vallev	0.63	0.64
17613,1	B2033 Headley Common Rd	Eastbound	Mole Valley	0.18	0.18
17791,2	B290 Tattenham Corner Road	Southbound	Epsom & Ewell	0.28	0.27
17789,2	B2221 Tattenham Crescent	Eastbound	Epsom & Ewell	0.53	0.53
11368,1	B284 Yew Tree Bottom Road	Eastbound	Epsom & Ewell	0.29	0.28
17619,1	B291 Fir Tree Road	Northbound	Epsom & Ewell	0.58	0.57
10200,2	A240 Reigate Road	Southbound	Epsom & Ewell	0.98	0.98

 Table 3.11: Weekday average PM Peak Hour (1600 – 1900) traffic flow summary entering

 Reigate and Banstead borough for A principal and B roads which cross into neighbouring authorities

Link Ref.	Road	Direction of Travel	Local Authority Trips Travelling From	2031 Scenario B	2031 Scenario D
	1	Vehicle flows (vpl	h)		
16258,1	A217 Belmont Rise	Northbound	Sutton	1111	1068
1915,2	B2230 Brighton Road	Northbound	Sutton	1131	1556
8266,1	B2218 Sutton Lane	Northbound	Sutton	994	1500
8268,1	A2022 Croydon Lane	Eastbound	Croydon	807	533
16109,2	B278 Carshalton Road	Northbound	Croydon	198	428
1948,2	A22 Brighten Bood	Eastbound	Croydon	559	547
1952,2	R2021 Doop Lopo	Factbound	Tandridgo	212	212
8027.2	A25 Nutfield Road	Eastbound	Tandridge	420	313 421
15678.2	B2036 Balcombe Road	Southbound	West Sussex	580	580
8858.2	A23 Brighton Road	Southbound	Mole Valley	985	984
8866.2	A217 Reigate Road	Southbound	Mole Valley	811	806
8816.2	A25 Buckland Road	Westbound	Mole Valley	1154	1156
17611.2	B2032 Pebble Hill Road	Southbound	Mole Valley	574	567
17613,2	B2033 Headley Common Rd	Westbound	Mole Valley	583	633
17791,1	B290 Tattenham Corner Road	Northbound	Epsom & Ewell	481	484
17789,1	B2221 Tattenham Crescent	Westbound	Epsom & Ewell	430	442
11368,2	B284 Yew Tree Bottom Road	Westbound	Epsom & Ewell	455	461
17619,2	B291 Fir Tree Road	Southbound	Epsom & Ewell	370	366
10200,1	A240 Reigate Road	Northbound	Epsom & Ewell	982	996
	Difference from Scena	rio B and percentag	e change from Scenario	D	
16258,1	A217 Belmont Rise	Northbound	Sutton	-	-43 (-4%)
1915,2	B2230 Brighton Road	Northbound	Sutton	-	425 (38%)
8266,1	B2218 Sutton Lane	Northbound	Sutton	-	505 (51%)
8268,1	A2022 Croydon Lane	Eastbound	Croydon	-	-274 (-34%)
16109,2	B278 Carshalton Road	Northbound	Croydon	-	230 (116%)
1948,2	B2032 Outwood Lane	Eastbound	Croydon	-	-12 (-2%)
1952,2	A23 Brighton Road	Northbound	Croydon	-	4 (1%)
<u>17001,2</u>	A25 Nutfield Bood	Eastbound	Tandidge	-	1 (0%)
<u>0927,2</u> 15678.2	R2036 Balcombe Road	Southbound	West Sussey	-	1 (0%)
8858.2	A23 Brighton Road	Southbound	Mole Valley		-1 (0%)
8866.2	A217 Reigate Road	Southbound	Mole Valley	-	-5 (-1%)
8816.2	A25 Buckland Road	Westbound	Mole Valley	-	2 (0%)
17611.2	B2032 Pebble Hill Road	Southbound	Mole Valley	-	-7 (-1%)
17613,2	B2033 Headley Common Road	Westbound	Mole Valley	-	50 (9%)
17791,1	B290 Tattenham Corner Road	Northbound	Epsom & Ewell	-	3 (1%)
17789,1	B2221 Tattenham Crescent	Westbound	Epsom & Ewell	-	13 (3%)
11368,2	B284 Yew Tree Bottom Road	Westbound	Epsom & Ewell	-	5 (1%)
17619,2	B291 Fir Tree Road	Southbound	Epsom & Ewell	-	-4 (-1%)
10200,1	A240 Reigate Road	Northbound	Epsom & Ewell	-	14 (1%)
40075.1		RFC (pcu)	<b>•</b> •	4.10	1.00
16258,1	A217 Belmont Rise	Northbound	Sutton	1.43	1.38
1915,2	B2230 Brighton Road	Northbound	Sutton	1.46	1.99
8266,1	BZ218 Sutton Lane	INORTINDOUND	Sutton	0.40	1. <u>30</u>
<u>ŏ∠oŏ,1</u>	AZUZZ Croydon Lane	Lastoound	Croydon	0.49	0.33
10109,2	B278 Carshalton Road	Footbound	Croydon	0.26	0.54
1940,2	A23 Brighton Road	Northbound	Croydon	0.74	0.72
17601.2	B2031 Dean Lane	Easthound	Tandridge	0.20	0.20
8927.2	A25 Nutfield Road	Eastbound	Tandridge	0.35	0.35
15678.2	B2036 Balcombe Road	Southbound	West Sussex	0.35	0.35
8858.2	A23 Brighton Road	Southbound	Mole Vallev	1.27	1.27
8866.2	A217 Reigate Road	Southbound	Mole Valley	0.69	0.69
8816.2	A25 Buckland Road	Westbound	Mole Vallev	1.01	1.01
17611.2	B2032 Pebble Hill Road	Southbound	Mole Valley	0.49	0.49
17613.2	B2033 Headley Common Rd	Westbound	Mole Valley	0.50	0.54
17791,1	B290 Tattenham Corner Road	Northbound	Epsom & Ewell	0.29	0.29
17789,1	B2221 Tattenham Crescent	Westbound	Epsom & Ewell	0.55	0.56
11368,2	B284 Yew Tree Bottom Road	Westbound	Epsom & Ewell	0.58	0.59
17619,2	B291 Fir Tree Road	Southbound	Epsom & Ewell	0.47	0.47
10200.1	A240 Reigate Road	Northbound	Ensom & Ewell	1 26	1 28

Table 3.12: Weekday average AM Peak Hour (0700 – 1000) traffic flow summary <u>exiting</u> Reigate and Banstead borough for A principal and B roads which cross into neighbouring authorities

Link Ref.	Road	Direction of Travel	Local Authority Trips Travelling From	2031 Scenario B	2031 Scenario D
		Vehicle flows (vph	1)		
16258,1	A217 Belmont Rise	Northbound	Sutton	899	869
1915,2	B2230 Brighton Road	Northbound	Sutton	1098	1107
8266,1	B2218 Sutton Lane	Northbound	Sutton	1069	1109
0200,1 16100.2	B278 Carshalton Road	Northbound	Croydon	271	206
1948.2	B2032 Outwood Lane	Fastbound	Croydon	870	908
1952.2	A23 Brighton Road	Northbound	Crovdon	1072	1073
17601,2	B2031 Dean Lane	Eastbound	Tandridge	619	616
8927,2	A25 Nutfield Road	Eastbound	Tandridge	694	704
15678,2	B2036 Balcombe Road	Southbound	West Sussex	721	724
8858,2	A23 Brighton Road	Southbound	Mole Valley	899	898
8866,2	A217 Reigate Road	Southbound	Mole Valley	893	894
8816,2	A25 Buckland Road	Westbound	Mole Valley	1284	1296
17611,2	B2032 Pebble Hill Road	Southbound	Mole Valley	806	803
1/613,2	B2033 Headley Common Rd	Westbound	Mole Valley	282	324
17791,1	B290 Tattenham Corner Road	Northbound	Epsom & Ewell	241	244
11269,1	B2221 Tattennam Crescent	Westbound		447	480
17610.2	B204 Few Tree Bollom Road	Southbound	Epsom & Ewell	435	300
10200.1	A240 Reigate Road	Northbound	Epsom & Ewell	435 663	738
10200,1	Difference from Scena	rio R and percentage	e change from Scenario I		750
16258.1	A217 Belmont Rise	Northbound	Sutton	-	-30 (-3%)
1915.2	B2230 Brighton Road	Northbound	Sutton	-	9 (1%)
8266.1	B2218 Sutton Lane	Northbound	Sutton	-	40 (4%)
8268,1	A2022 Croydon Lane	Eastbound	Croydon	-	185 (18%)
16109,2	B278 Carshalton Road	Northbound	Croydon	-	-65 (-24%)
1948,2	B2032 Outwood Lane	Eastbound	Croydon	-	38 (4%)
1952,2	A23 Brighton Road	Northbound	Croydon	-	1 (0%)
17601,2	B2031 Dean Lane	Eastbound	Tandridge	-	-3 (0%)
8927,2	A25 Nutfield Road	Eastbound	Tandridge	-	11 (2%)
15678,2	B2036 Balcombe Road	Southbound	West Sussex	-	4 (1%)
8858,2	A23 Brighton Road	Southbound		-	-1 (0%)
8866,2	A217 Reigate Road	Southbound		-	1 (0%)
17611.2	R2032 Rebble Hill Road	Southbound	Mole Valley	-	12 (1%)
17613.2	B2032 Febble Fill Road	Westbound	Mole Valley		-2 (0%)
17791.1	B290 Tattenham Corner Road	Northbound	Epsom & Ewell	-	41 (13/8)
17789.1	B2221 Tattenham Crescent	Westbound	Epsom & Ewell	-	33 (7%)
11368,2	B284 Yew Tree Bottom Road	Westbound	Epsom & Ewell	-	45 (14%)
17619,2	B291 Fir Tree Road	Southbound	Epsom & Ewell	-	-13 (-3%)
10200,1	A240 Reigate Road	Northbound	Epsom & Ewell	-	75 (11%)
		RFC (pcu)			
16258,1	A217 Belmont Rise	Northbound	Sutton	1.15	1.11
1915,2	B2230 Brighton Road	Northbound	Sutton	1.43	1.44
8266,1	B2218 Sutton Lane	Northbound	Sutton	0.92	0.95
8268,1	A2022 Croydon Lane	Eastbound	Croydon	0.62	0.73
10109,2	B278 Carshalton Road	Footbound	Croydon	0.35	0.20
1940,2	A23 Brighton Road	Northbound	Croydon	0.38	0.38
17601.2	B2031 Dean Lane	Fastbound	Tandridge	0.50	0.50
8927.2	A25 Nutfield Road	Eastbound	Tandridge	0.58	0.59
15678.2	B2036 Balcombe Road	Southbound	West Sussex	0.45	0.45
8858.2	A23 Brighton Road	Southbound	Mole Valley	1.18	1.18
8866,2	A217 Reigate Road	Southbound	Mole Valley	0.76	0.76
8816,2	A25 Buckland Road	Westbound	Mole Valley	1.10	1.11
17611,2	B2032 Pebble Hill Road	Southbound	Mole Valley	0.68	0.67
17613,2	B2033 Headley Common Rd	Westbound	Mole Valley	0.24	0.27
17791,1	B290 Tattenham Corner Road	Northbound	Epsom & Ewell	0.15	0.15
17789,1	B2221 Tattenham Crescent	Westbound	Epsom & Ewell	0.57	0.61
11368,2	B284 Yew Tree Bottom Road	Westbound	Epsom & Ewell	0.40	0.46
1/619,2	BZYI FIL IFEE KOad	Southbound		0.57	0.56

 10200,1
 A240 Reigate Road
 Northbound
 Epsom & Ewell
 0.84
 0

 Table 3.13: Weekday average PM Peak Hour (1600 – 1900) traffic flow summary exiting Reigate and Banstead borough for A principal and B roads which cross into neighbouring authorities

### 4 OVERVIEW

- 4.1.1 A sensitivity test has been undertaken to review the impact of the London Cancer Hub development together with Reigate and Banstead's potential development sites contained within their draft Regulation 19 Development Management Plan. Surrey County Council's strategic highway model for the forecast year 2031 was used.
- 4.1.2 Two model scenarios have been assessed. Scenario B, the do-minimum baseline growth, includes committed developments identified from the base year of 2014 to the forecast year 2031, plus windfalls and the preferred options for development. Committed developments comprise of sites which have already been built or are in the process of construction or have planning permission. The preferred options for development are those supplied by Reigate and Banstead Borough Council for the Strategic Highway Assessment in relation to their Local Plan and Regulation 19 Consultation.
- 4.1.3 Scenario D is similar to Scenario B containing the preferred options for development, although it also contains the London Cancer Hub development, located just outside Reigate and Banstead at the Royal Marsden site in the London borough of Sutton.
- 4.1.4 The impact of the London Cancer Hub in Scenario D has been shown to be largely restricted to the north of the borough of Reigate and Banstead. Nevertheless, the addition of traffic related to this development is in an already congested area and consequently existing congestion and delays are exacerbated.