

Project: Stradbroke Neighbourhood Plan Job No: 60538603/ DR-01470-

Stradbroke

Subject: Transport Appraisal of Queen Street/ Mill Lane Junction

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Overview

AECOM has been appointed by Locality as part of the Ministry for Housing, Communities and Local Government Neighbourhood Planning programme to assess the future operation and capacity of the Queen Street/ Mill Lane junction in Stradbroke based on the planned delivery of housing and jobs in the village. The study is designed to support the draft Neighbourhood Plan by identifying whether any highway capacity improvements are likely to be required to support the consent of proposed allocation sites at planning stage.

The study assesses the existing and future junction operation during the weekday peak hours considering the development of various residential and employment sites within the village and the forecast increase in traffic arising from the potential cumulative delivery of housing and jobs during the Local Plan period (up to 2036). The study also considers the re-distribution of traffic associated with Stradbroke Primary School as part of proposals to provide alternative parking and drop-off facilities at one of the sites.

Existing Highway Network

Introduction

Queen Street is a two-way single carriageway road which runs in a north-south direction and forms one of the key vehicular routes into the village. Queen Street forms the major arms of a three-arm priority T-junction with Mill Lane approximately 500m to the north of village centre. A footway is situated along the western side of Queen Street which provides access to the village centre and Stradbroke Primary School to the south.

Mill Lane is a no-through road which currently serves the Skinner's pet foods factory as well as four residential dwellings to the west of Queen Street. A footway is situated along the northern side of Mill Lane which provides access to the Skinner's factory and the footway on Queen Street. Both Queen Street and Mill Lane are subject to a 30mph speed limit in the vicinity of the junction.

A site location plan is shown below in Figure 1.

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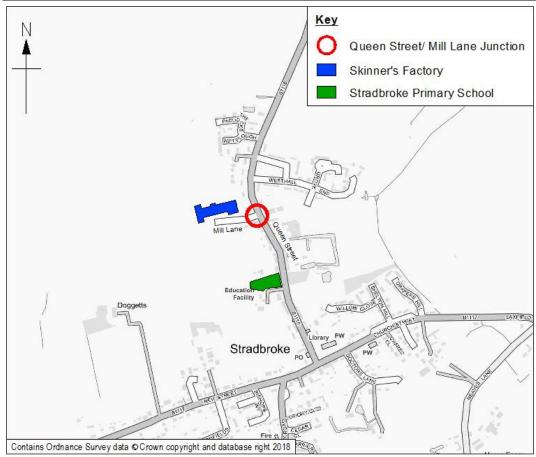


Figure 1: Location of Queen Street/ Mill Lane Priority T-Junction

Queen Street/Mill Lane Junction (Skinner's Factory)

A manually classified traffic count was carried out by Nationwide Data Collection (NDC) at the Queen Street/ Mill Lane junction on Tuesday 16th January 2018. The traffic count was undertaken between 07:00-10:00 and 15:00-19:00. The network weekday peak hours at the junction were identified from the survey data as 08:00-09:00 (AM Peak) and 16:45-17:45 (PM Peak).

For the purposes of this assessment, all trips turning in/ out of Mill Lane have been assumed to be associated with the existing Skinner's factory, in order to provide a robust appraisal of trip attraction for this land use. A summary of the existing trip attraction observed for the Skinner's factory is set out in Table 1 below, separated by vehicle class.

Table 1: Summary of Existing Skinner's Factory Traffic Flows (turning in/out Mill Lane)

| Vehicle Type | Weekday AM Peak (08:00-09:00) | | | Weekday PM Peak (16:45-17:45) | | | |
|----------------|-------------------------------|-----|-------|-------------------------------|-----|-------|--|
| vernicie i ype | Arr | Dep | Total | Arr | Dep | Total | |
| Car | 22 | 4 | 26 | 5 | 23 | 28 | |
| LGV | 3 | 0 | 3 | 0 | 1 | 1 | |
| HGV | 1 | 1 | 2 | 0 | 0 | 0 | |
| Total | 26 | 5 | 31 | 5 | 24 | 29 | |

The full results of the traffic count including turning movements and queue lengths are held within Appendix A. The results have also been used to compile traffic flow diagrams for the network weekday peak hours. The existing traffic flows for the Queen Street/ Mill Lane junction are shown on traffic flow diagrams 1 & 2 which are presented ahead of the appendices. The existing traffic flows for the Skinner's factory are shown on traffic flow diagrams 3 & 4.



Stradbroke Primary School

Stradbroke Primary School is situated on the western side of Queen Street approximately 200m to the south of Mill Lane as shown on Figure 1. The school has a staff car park which contains 11 parking spaces and takes access from Queen Street via a priority T-junction. There are 'School Keep Clear' markings on the western side of the carriageway outside of the school. The school is served by a school bus service which makes use of these markings, as well as a couple of taxis during peak times. Parents and guardians currently park on-street both to the north and south of the keep clear markings to drop-off and pick-up pupils at the start and end of the school day.

There are local concerns about the level of traffic congestion experienced outside of the school due to the drop-off and pick-up trips that occur on Queen Street during peak times. There are also road safety concerns associated with these vehicle manoeuvres (e.g. u-turning movements) and the interactions of vehicular traffic with pedestrians (including school pupils) in the vicinity of the school and HGVs travelling on Queen Street. A total of 17 two-way HGV movements were recorded during the AM peak hour (see traffic flow diagram 1), and this therefore increases the potential risk for vehicle conflict and/ or congestion when HGVs are unable to safely pass parked vehicles.

In view of the above, a traffic survey was carried out by AECOM at Stradbroke Primary School on Tuesday 16th January 2018. The traffic survey was undertaken during the afternoon school peak between 14:55-15:30 and recorded all traffic movements associated with the school including those on Queen Street (school bus, taxi and car pick-up trips) and those entering and exiting the school staff car park. The results of the traffic survey are set out in Table 2 below.

Table 2: Summary of Existing Stradbroke Primary School Traffic Flows (Afternoon Peak, 14:55-15:30)

| Vehicle Type | Location | Arr | Dep | Total |
|--------------|-----------------|-----|-----|-------|
| School Bus | Queen Street | 1 | 1 | 2 |
| Taxi | (on-street) | 2 | 2 | 4 |
| Car | (011-311-661) | 22 | 23 | 45 |
| Car | Staff Car Park* | 2 | 4 | 6 |
| Total | - | 27 | 30 | 57 |

^{*}nine vehicles parked at the start of the survey, seven vehicles parked at the end

The results in Table 2 have been used to estimate the level of existing school-related trips during the network weekday peak hours. For the purposes of this assessment, it is assumed that the same number of vehicles (school bus, taxis and cars) drop-off pupils on Queen Street during the AM peak compared to those observed collecting pupils during the afternoon peak. It is also assumed, for the purposes of a robust appraisal, that nine staff vehicles arrive to the car park during the AM peak (in addition to two drop-off trips), and that all seven vehicles parked within the staff car park at the end of the afternoon peak depart during the PM peak. The results are presented in Table 3 below.

Table 3: Estimate of Existing Weekday Peak Hour Stradbroke Primary School Traffic Flows

| Vehicle Type | Location | Weekday A | AM Peak (08 | 3:00-09:00) | Weekday PM Peak (16:45-17:45) | | | |
|------------------------|-----------------------------|-----------|-------------|-------------|-------------------------------|-----|-------|--|
| vernicie rype Location | | Arr | Dep | Total | Arr | Dep | Total | |
| School Bus | Queen Street (on-street) | 1 | 1 | 2 | 0 | 0 | 0 | |
| Taxi | | 2 | 2 | 4 | 0 | 0 | 0 | |
| Car | (011-311 661) | 23 | 22 | 45 | 0 | 0 | 0 | |
| Car | Staff Car Park | 11 | 2 | 13 | 0 | 7 | 7 | |
| Total | - | 37 | 27 | 64 | 0 | 0 | 7 | |



The staff traffic flows (nine arriving during the AM peak and seven departing during the PM peak) have been distributed across the network based on the 2011 Census Travel to Work Origin-Destination (O-D) database to reflect the likely origins of staff travelling to the school. The data is currently available at Census MSOA level from the www.datashine.org.uk website developed by University College London (UCL) and the Economic & Social Research Council (ESRC).

The village of Stradbroke is located within the Mid Suffolk 003 Middle Super Output Area (MSOA). The trips have therefore been assigned using the Mid Suffolk 003 MSOA (as a destination) and the shortest anticipated journey times to this area during the weekday peak hours based on the www.google.co.uk/maps routefinder. It is assumed that 48% trips travel to/ from Queen Street to the north, and 52% trips travel to/ from Queen Street to the south i.e. via the village centre.

The results indicate that two-way traffic flows on Queen Street during the school peak hours are currently comprised of almost 10% school traffic in the vicinity of Mill Lane to the north of the school, and almost 15% school traffic towards the centre of the village to the south, demonstrating the existing contribution of school traffic to localised congestion on the highway network. The existing afternoon peak and weekday peak hour traffic flows for Stradbroke Primary School are shown on traffic flow diagrams 5-9. The 2011 Census Travel to Work O-D data and supporting calculations are held within Appendix B.

Junction Assessment (Existing Operation)

The existing operation of the Queen Street/ Mill Lane junction has been modelled using the appropriate industry-standard software: PICADY for priority T-junctions, which forms part of the Transport Research Laboratory's 'Junctions 9' suite. The modelling has been informed by on-site junction geometry measurements which were undertaken on Tuesday 16th January 2018.

The PICADY results tables provide the maximum Ratio of Flow to Capacity (RFC) values predicted for each arm, together with the maximum average queue (in vehicles) and average overall delay incurred by each vehicle passing through the junction. An RFC value of 0.85 is usually taken to indicate that the manoeuvre is operating at practical capacity, whilst a value of 1.0 indicates that it is operating at theoretical capacity.

A summary of the modelling results for the existing junction during the network weekday peak hours is set out below in Table 4.

| | 2018 Existing | | | | | | |
|------------------------|---------------|-------------|----------------------|-----------|--|--|--|
| Approach | Weekday A | M Peak Hour | Weekday PM Peak Hour | | | | |
| | (08:00 |)-09:00) | (16:45-17:45) | | | | |
| | RFC Max Queue | | RFC | Max Queue | | | |
| Queen Street (S) | - | - | - | - | | | |
| Mill Lane (W) | 0.01 | 0.01 0 | | 0 | | | |
| Queen Street (N) | 0.03 0 | | 0.00 | 0 | | | |
| Overall junction delay | 0.44 | | 0.52 | | | | |
| / / / / / | U | .44 | 0.32 | | | | |

Table 4: Summary of PICADY Results for Existing Queen Street/ Mill Lane Junction (2018 Existing)

The PICADY results demonstrate that, based on existing flows and geometry, the existing Queen Street/ Mill Lane junction currently operates well within capacity during the weekday peak hours, with negligible queuing experienced at the junction. The results compare well with the queue length surveys which also identify negligible queues on all arms at the junction under existing conditions. The full PICADY results are held within Appendix C.

(secs/veh)



Future Baseline Scenario (2036)

Introduction

This section examines the future baseline operation of the Queen Street/ Mill Lane junction based on forecast background traffic growth on the local highway network and the current configuration of the junction.

Future Year of Assessment

This study considers the future year of 2036 which represents the end of the Local Plan period i.e. the period within which the housing and jobs associated with the proposed allocation sites could be expected to be delivered.

Background Traffic Growth

Forecast background traffic growth has been applied to the baseline traffic flows derived from the 2018 surveys to represent conditions during the future assessment year of 2036. The traffic flows associated with the Skinner's factory and Stradbroke Primary School (see earlier section) have been excluded from the traffic growth, as these uses are not expected to increase vehicle trips under the future baseline scenario. The 2018 baseline weekday peak hour traffic flows (excluding Skinner's factory and Stradbroke Primary School traffic) are shown on traffic flow diagrams 10 & 11.

Growth factors have been derived from projected increases in annual vehicle mileage on roads in the East region from the National Transport Model (NTM). These have been modified by the use of local factors for the increase in car driver trips in each weekday peak period derived from the National Trip End Model (NTEM) dataset v7.0 (July 2016) using the Trip Ends Model program (TEMPro). The growth factors have been derived for Rural Minor Roads together with NTEM for the Mid Suffolk 003 MSOA.

The background growth factors which have been used to convert the 2018 surveyed flows (excluding the Skinner's factory and Stradbroke Primary School flows) to represent the baseline traffic flows during the future assessment year of 2036 are set out in Table 5 below.

Table 5: Adopted Background Traffic Growth Factors

| Road | Weekday AM | Weekday PM | |
|-------------------------------|------------|------------|--|
| Kodu | Peak Hour | Peak Hour | |
| Rural Roads within Stradbroke | 12.6% | 13.0% | |

The TEMPro calculations are held within Appendix D. The factored up background traffic flows following the application of the above growth factors are shown on traffic flow diagrams 12 & 13. The future baseline weekday peak hour traffic flows are subsequently shown on traffic flow diagrams 14 & 15 which include the existing (un-factored) traffic flows associated with the Skinner's factory and Stradbroke Primary School.



Junction Assessment (Future Baseline Operation)

The future baseline operation of the existing Queen Street/ Mill Lane junction has been modelled using PICADY. A summary of the results for the network weekday peak hours is set out below in Table 6.

Table 6: Summary of PICADY Results for Existing Queen Street/Mill Lane Junction (2036 Future Baseline)

| | 2036 Future Baseline | | | | | | |
|------------------------|----------------------|-------------|----------------------|-----------|--|--|--|
| Approach | Weekday A | M Peak Hour | Weekday PM Peak Hour | | | | |
| | (08:00 | -09:00) | (16:45-17:45) | | | | |
| | RFC | Max Queue | RFC | Max Queue | | | |
| Queen Street (S) | - | - | - | - | | | |
| Mill Lane (W) | 0.01 | 0 | 0.03 | 0 | | | |
| Queen Street (N) | 0.03 0 | | 0.00 | 0 | | | |
| Overall junction delay | 0.41 | | 0.47 | | | | |
| (secs/veh) | U. | .41 | 0.47 | | | | |

The PICADY results show that the existing Queen Street/ Mill Lane junction is forecast to operate well within capacity under the 2036 future baseline scenario during the weekday peak hours, with negligible queuing experienced at the junction. The full PICADY results are held within Appendix C.

Proposed Allocation Sites

Introduction

This assessment considers the planned delivery of housing and jobs across the following sites in Stradbroke as identified in Figure 2 below. Further details are subsequently set out further below.

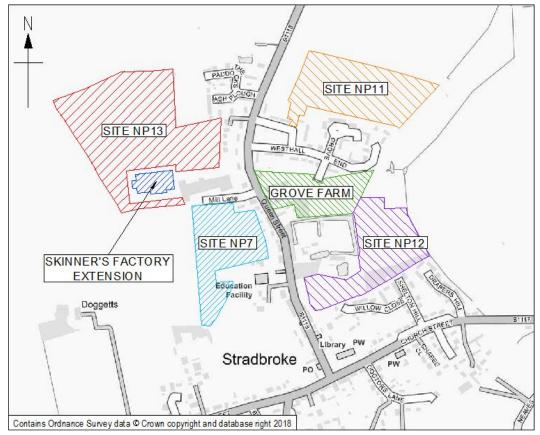


Figure 2: Proposal Sites



Skinner's Factory Extension (Employment)

The Skinner's factory currently takes access from Queen Street via Mill Lane. The factory operates one production line and employs around 50 staff members including office staff, sales staff and factory staff working different shifts. The site manufactures dry dog foods and receives bulk deliveries from HGVs which are required to make use of an off-site weighbridge such as at Rattlerow Farm to the north of the site, or alternative facilities within Eye. These HGVs are currently required to access/ egress the site twice, firstly to unload materials at the site after initially being weighed off-site (loaded weight) and secondly to record the quantity of unloaded materials at the site after being weighed off-site (empty weight) once again.

The proposals for the Skinner's factory extension include an additional building and second production line to expand the operational capabilities of the site. It is envisaged that the expansion will ultimately create around 20 jobs. The proposals also include an on-site weighbridge facility which will enable HGVs to access/ egress the site only once.

The proposals will ensure that the new building is set-back to accommodate the extension of Mill Lane, which will also support future access to Site NP13 (see below).

Site NP13 (Employment)

Site NP13 is situated to the north-west of the Skinner's factory and is currently vacant. It is understood that office/ business use could be developed on this site with an approximate floor area of 27,000 sqm. Vehicular access will be taken directly from Mill Lane and all trips will therefore pass through the Queen Street/ Mill Lane junction. For the purposes of this assessment, it has been assumed that 150 jobs could be supported by the proposed employment use from the outset.

Site NP7 (Housing)

Site NP7 is located to the south of Mill Lane and to the west of Stradbroke Primary School. For the purposes of this assessment, it is assumed that the site has the capacity to deliver up to 82 dwellings.

A key element of the proposals for Site NP7 is to accommodate a school car park and bus drop-off area for Stradbroke Primary School. These facilities will be available to parents/ guardians and staff and will be situated within the southern section of the site to minimise walking distances to the school. Vehicular access will be taken via Mill Lane to the north and it has been assumed (for the purposes of this assessment) that all school-related trips will subsequently pass through the Queen Street/ Mill Lane junction. These proposals will help to reduce the occurrence of drop-off and pick-up trips on Queen Street in the vicinity of the school and the associated road safety concerns arising from localised congestion.

Grove Farm Development (Housing)

This site has consent to deliver 46 dwellings in accordance with the following approved planning applications:

- 4005/14: Erection of 44 dwellings together with associated garages, hardstanding drainage and infrastructure including new accesses; and,
- 4006/14: Works to barns to convert and form two dwellings.

A new vehicular access will be provided on Queen Street to the west of the site. These proposals will result in a four-arm staggered junction arrangement with Queen Street and Mill Lane which has been reflected within the cumulative assessment. The proposed site access junction for the Grove Farm development is shown in Appendix E.

Site NP12 (Housing)

Site NP12 is located to the north-east of the village centre and has the potential to deliver up to 40 dwellings. For the purposes of this assessment, it is assumed that vehicular access will be taken via the consented Grove Farm



development to the north. All trips will therefore pass through the proposed four-arm staggered junction with Queen Street and Mill Lane.

Site NP11 (Housing)

Site NP11 is located to the north of the village and north of the Queen Street/ Mill Lane junction. It has the potential to deliver up to 80 dwellings. Vehicular access will be taken from Queen Street via Westhall to the south of Site NP11.

Summary of Sites for Cumulative Assessment

A summary of the sites considered directly by the cumulative assessment is set out in Table 7 below.

Table 7: Proposal Sites considered by Cumulative Assessment

| Site | Max. Housing | Employment | Vehicular Access |
|--------------------------------|---------------|--|--|
| Skinner's Factory Extension | - | Increase in operational capabilities (20 jobs) | Mill Lane (to be extended to the west) |
| Site NP13 | - | 27,000 sqm office/ business use (150 jobs) | Mill Lane (via site access road) |
| Site NP7 | 82 dwellings | - | Mill Lane (via site access road) including for the school car park and drop-off area |
| Grove Farm | 46 dwellings | - | New staggered junction arrangement with Queen Street/ Mill Lane |
| Site NP12 | 40 dwellings | - | Via Grove Farm development (see above) |
| Site NP11 | 80 dwellings | - | Westhall and Queen Street (north of Mill Ln) |
| Total | 248 dwellings | 170 jobs | - |

Cumulative Assessment (2036)

Introduction

The cumulative assessment considers additional traffic directly associated with the identified residential and employment allocation sites, as well as the proposed four-arm staggered arrangement of the Queen Street/ Mill Lane junction following the implementation of the consented Grove Farm development. Further details of the methodology are provided below.

Skinner's Factory Extension (Employment)

The following assumptions have been applied to the existing trip attraction for the Skinner's factory (Table 1) to reflect the proposed factory extension:

- HGV and LGV movements have been increased by 100% to reflect the potential proposals for expansion and
 increased operational capabilities. It should be noted that for robustness, HGV bulk delivery trips have not
 been reduced to reflect the on-site weighbridge (which would allow these vehicles to access/ egress the site
 once instead of twice); and,
- Car movements have been increased by 40% to reflect the potential increase from 50 to 70 staff members.

The proposed trip generation for the Skinner's factory during the network weekday peak hours is set out below in Table 8.

Table 8: Summary of Proposed Skinner's Factory Traffic Flows (turning in/out Mill Lane)

| Vehicle Type | Weekday AM Peak (08:00-09:00) | | | Weekday PM Peak (16:45-17:45) | | | |
|---------------|-------------------------------|-----|-------|-------------------------------|-----|-------|--|
| vernicie rype | Arr | Dep | Total | Arr | Dep | Total | |
| Car | 31 | 6 | 37 | 7 | 32 | 39 | |
| LGV | 6 | 0 | 6 | 0 | 2 | 2 | |
| HGV | 2 | 2 | 4 | 0 | 0 | 0 | |
| Total | 39 | 8 | 47 | 7 | 34 | 41 | |

The forecast weekday peak hour traffic flows for the Skinner's factory following the proposed expansion are shown on traffic flow diagrams 16-19. It should be noted that the same trip distribution has been adopted as for the existing site.

Site NP13 (Employment)

The forecast vehicular trip attraction of the proposed employment use on Site NP13 has been determined by deriving vehicular trip rates from the TRICS database (v7.4.4). The trip rates are based on an average of observed 'Business Park' employment sites located within the UK (excluding Greater London, Ireland and the Isle of Man) in edge of town or neighbourhood centre locations. A total of five sites have been selected and the TRICS output data including the details of the sites and selection criteria are provided at Appendix F. The typical weekday peak hours are identified as 08:00-09:00 and 16:30-17:30 for this land use.

The vehicular trip rates and forecast trip attraction based on an approximate floor area of 27,000 sqm has been set out below in Table 9.

Table 9: Site NP13 Employment Use Vehicular Trip Rates/ Attraction

| Site NP13 (Employment) | Criteria | Weekday AM Peak (08:00-09:00) | | | Weekday PM Peak (16:30-17:30) | | |
|---------------------------|-------------|----------------------------------|-------|-------|----------------------------------|-------|-------|
| | | Arr | Dep | Total | Arr | Dep | Total |
| Car/ LGV Trip Rates | | 1.076 | 0.153 | 1.229 | 0.115 | 0.932 | 1.047 |
| HGV Trip Rates | Per 100 sqm | 0.016 | 0.017 | 0.033 | 0.005 | 0.012 | 0.017 |
| Vehicular Trip Rates | | 1.092 | 0.170 | 1.262 | 0.120 | 0.944 | 1.064 |
| Car/ LGV Trip Attraction | | 291 | 41 | 332 | 31 | 252 | 283 |
| HGV Trip Attraction | 27,000 sqm | 4 | 5 | 9 | 2 | 3 | 5 |
| Vehicular Trip Attraction | | 295 | 46 | 341 | 33 | 255 | 288 |

The above vehicular trip attraction is significantly higher than the forecast cumulative trip generation for the residential sites (see Table 10 below) and is therefore considered to be robust.

The proposed car/ LGV traffic flows have been distributed at the Queen Street/ Mill Lane junction based on the 2011 Census Travel to Work O-D database to reflect the likely origins of trips travelling to the site. The trips have been assigned using the Mid Suffolk 003 MSOA (as a destination) and the shortest anticipated journey times to this area during the weekday peak hours. It has been assumed that 48% trips would travel to/ from Queen Street to the north, and 52% trips would travel to/ from Queen Street to the south i.e. via the village centre. It has been assumed that all HGV trips would travel to/ from the north i.e. by turning right in and left out of the site.

The forecast weekday peak hour traffic flows for Site NP13 are shown on traffic flow diagrams 20-23. The 2011 Census Travel to Work O-D data and supporting calculations are held within Appendix B.

Residential Sites

The forecast vehicular trip attraction for the proposed residential sites (including the consented Grove Farm development) has been determined by deriving vehicular trip rates from the TRICS database (v7.4.4). The trip rates are based on an average of observed mixed private/ affordable residential sites located within the UK



(excluding Greater London, Ireland and the Isle of Man) in suburban, edge of town or neighbourhood centre locations. The site selection also only included sites up to 100 dwellings with average car ownership levels of more than one vehicle per dwelling (to reflect the high reliance on the car within the village).

A total of seven sites have been selected and the TRICS output data including the details of the sites and selection criteria are provided at Appendix G. The typical weekday peak hours are identified as 08:00-09:00 and 17:00-18:00 for this land use. The vehicular trip rates and estimated trip attraction for each residential site based on the proposed number of dwellings has been set out below in Table 10.

Table 10: Residential Use Vehicular Trip Rates/ Attraction

| | We | ekday AM | Peak | Weekday PM Peak | | |
|---------------------------|-------|-------------|-------|-----------------|-------|-------|
| Residential Sites | (| (08:00-09:0 | 0) | (17:00-18:00) | | |
| | Arr | Dep | Total | Arr | Dep | Total |
| Vehicular Trip Rates | 0.121 | 0.421 | 0.542 | 0.395 | 0.151 | 0.546 |
| (per dwelling) | 0.121 | 0.421 | 0.342 | 0.373 | 0.131 | 0.540 |
| Site NP7 (82 dwellings) | 10 | 35 | 45 | 32 | 13 | 45 |
| Grove Farm (46 dwellings) | 6 | 19 | 25 | 18 | 7 | 25 |
| Site NP12 (40 dwellings) | 5 | 17 | 22 | 16 | 6 | 22 |
| Site NP11 (80 dwellings) | 10 | 34 | 44 | 32 | 12 | 44 |
| Total (248 dwellings) | 31 | 105 | 136 | 98 | 38 | 136 |

The proposed traffic flows have been distributed across the network based on the 2011 Census Travel to Work O-D database to reflect the likely destinations of trips travelling from each site. The trips have been assigned using the Mid Suffolk 003 MSOA (as the point of origin) and the shortest anticipated journey times to each destination during the weekday peak hours. It has been assumed that 43% trips would travel to/ from Queen Street to the north, and 57% trips would travel to/ from Queen Street to the south i.e. via the village centre.

The forecast weekday peak hour traffic flows for the residential sites are shown on traffic flow diagrams 24-27. The 2011 Census Travel to Work O-D data and supporting calculations are held within Appendix B.

Re-distribution of Stradbroke School Traffic (Site NP7)

The existing school traffic for Stradbroke Primary School (Table 2 and traffic flow diagrams 6 & 7) has been redistributed so that all trips travel to/ from the proposed school car park/ drop-off facilities at Site NP7 via the Queen Street/ Mill Lane junction. Vehicles will no longer need to park on Queen Street in the vicinity of the school. It has therefore been assumed that all drop-off and pick-up trips would pass through the Queen Street/ Mill Lane junction (including the school bus), as well as staff trips associated with the existing car park. The redistributed weekday peak hour traffic flows for Stradbroke Primary School are shown on traffic flow diagrams 28 & 29.

Adjusted Background Traffic Growth

The growth factors for each weekday period have been derived from NTEM, using the 'Alternative Assumptions' facility in TEMPro to take account of the site allocations for both employment and residential use as set out in Table 7. As the traffic flows for these sites have been considered explicitly (see traffic flow diagrams 16-29), the associated projected increase in households and jobs (outlined in Table 7) have been excluded from the background growth calculations to avoid double counting.

The projected increases in households and jobs for both employment and residential use between 2018 and 2036 are set out below in Table 11 based on the NTEM dataset for Mid Suffolk 003. The 'Alternative Assumptions' are subsequently shown below to exclude the 248 dwellings and 170 jobs considered explicitly by this study.



Table 11: Projected Increase in Households and Jobs, 2018 to 2036 (Source: NTEM v7.0)

| Area | 2018 | | 2036 | | Difference | |
|---------------------------|------------|-------|------------|-------|------------|------|
| Aica | Households | Jobs | Households | Jobs | Households | Jobs |
| Mid Suffolk 003 | 3,373 | 2,899 | 3,692 | 3.087 | +319 | +188 |
| (Current Assumptions) | 3,373 | 2,099 | 3,092 | 3,007 | +319 | +100 |
| Site Allocations | | | 248 | 170 | +248 | +170 |
| (Table 7) | - | - | 240 | 170 | +240 | +170 |
| Mid Suffolk 003 | 3,373 | 2,899 | 3,444 | 2.917 | +71 | +18 |
| (Alternative Assumptions) | 3,373 | 2,099 | 3,444 | 2,917 | +/1 | +10 |

The background growth factors which have been used to convert the 2018 surveyed flows (again, excluding the Skinner's factory and Stradbroke Primary School flows) to represent the adjusted baseline traffic flows during the network weekday peak hours of the future assessment year of 2036 are set out in Table 12 below.

Table 12: Adopted Adjusted Background Traffic Growth Factors

| Road | Weekday AM | Weekday PM | |
|-------------------------------|------------|------------|--|
| Rodu | Peak Hour | Peak Hour | |
| Rural Roads within Stradbroke | 5.8% | 6.0% | |

The adjusted TEMPro calculations are held within Appendix H. The future baseline weekday peak hour traffic flows are shown on traffic flow diagrams 30 & 31. It should be noted that these continue to exclude the existing traffic flows associated with the Skinner's factory and Stradbroke Primary School, given that these are subsequently applied as part of the cumulative assessment.

Cumulative Traffic Flows

The cumulative traffic weekday peak hour flows for the future year assessment of 2036 are shown on traffic flow diagrams 32 & 33. These include all traffic associated with proposed allocation sites (including Skinner's factory expansion) as well as the re-assigned Stradbroke Primary School trips.

Whilst the AM weekday peak hour is expected to be the same in all cases (08:00-09:00), the forecast levels of vehicular trips to be attracted/ generated during the PM weekday peak hours for Site NP13 (16:30-17:30) and the residential sites (17:00-18:00) have been applied to the network during the worst-case network peak hour (16:45-17:45) for robustness.

Junction Assessment (Cumulative Assessment)

The future operation of the Queen Street/ Mill Lane junction has been modelled using PICADY. The modelling reflects the proposed four-arm staggered arrangement of the junction following the implementation of the Grove Farm development (Appendix E). A summary of the results for the proposed junction is set out below in Table 13.

Table 13: Summary of PICADY Results for Proposed Queen Street/ Mill Lane Junction (2036 Cumulative Assessment)

| Approach | 2036 Future Cumulative Assessment | | | |
|-----------------------------------|-----------------------------------|-----------|----------------------|-----------|
| | Weekday AM Peak Hour | | Weekday PM Peak Hour | |
| | (08:00-09:00) | | (16:45-17:45) | |
| | RFC | Max Queue | RFC | Max Queue |
| Queen Street (S) | 0.01 | 0 | 0.04 | 0 |
| Mill Lane (W) | 0.20 | 1 | 0.41 | 1 |
| Queen Street (N) | 0.38 | 1 | 0.06 | 1 |
| Grove Farm (E) | 0.04 | 0 | 0.02 | 0 |
| Overall junction delay (secs/veh) | 4.15 | | 5.55 | |



The PICADY results show that the proposed Queen Street/ Mill Lane staggered crossroad junction is forecast to operate well within capacity during the network weekday peak hours in the cumulative assessment scenario, with negligible queuing experienced at the junction. The full PICADY results are held within Appendix J.

In view of the above, it is considered that the proposed development of the residential and employment sites considered by this study could, in principle, be brought forward by the future assessment year of 2036 without requiring any additional highway capacity improvements at the Queen Street/Mill Lane junction.

Summary and Conclusion

AECOM has been appointed by Locality to assess the future operation and capacity of the Queen Street/ Mill Lane junction based on the planned delivery of housing and jobs in Stradbroke. The study is designed to support the draft Neighbourhood Plan by identifying whether any highway capacity improvements are likely to be required to support the consent of proposed allocation sites at planning stage.

The study assesses the existing and future junction operation during the weekday peak hours considering the development of various residential and employment sites within the village and the forecast increase in traffic movements at the junction arising from the potential cumulative delivery of housing and jobs during the Local Plan period (up to 2036). The study also considers the re-distribution of traffic associated with Stradbroke Primary School as part of proposals to relieve existing congestion and road safety concerns on Queen Street by providing alternative parking and drop-off facilities at Site NP7.

The existing operation of the Queen Street/ Mill Lane junction has been modelled using the appropriate industry-standard software: PICADY for priority T-junctions. The modelling has been informed by traffic counts carried out at the Queen Street/ Mill Lane junction and at Stradbroke Primary School in 2018. The PICADY results show that the existing Queen Street/ Mill Lane junction currently operates well within capacity during the observed weekday network peak hours of 08:00-09:00 and 16:45-17:45, with negligible queuing experienced at the junction.

This study considers the future year of 2036 which represents the end of the Local Plan period i.e. the period within which the housing and jobs associated with the proposed allocation sites could be expected to be delivered. The future baseline operation of the Queen Street/ Mill Lane junction considers forecast background traffic growth on the local highway network and reflects the current configuration of the junction. The PICADY results show that the existing Queen Street/ Mill Lane junction is forecast to operate well within capacity under the 2036 future baseline scenario during the network weekday peak hours, with negligible queuing experienced at the junction.

The cumulative assessment considers the planned delivery of housing and jobs across the following sites in Stradbroke:

- The Skinner's factory extension including an additional building and second production line to expand the operational capabilities of the site. Access to continue to be taken from Mill Lane.
- Employment (office/ business use) on Site NP13 with an approximate floor area of 27,000 sqm. Vehicular access will be taken directly via Mill Lane.
- Residential use (up to 82 dwellings) on Site NP7 located to the west of Stradbroke Primary School, with
 access to be taken from Mill Lane. The site is also proposed to accommodate a school car park and bus dropoff area for Stradbroke Primary School to relieve existing congestion and road safety concerns along Queen
 Street in the vicinity of the school.
- The consented Grove Farm development (up to 46 dwellings) including a new vehicular access on Queen Street to the west of the site (resulting in a four-arm staggered junction arrangement with Queen Street and Mill Lane).



- Residential use (up to 40 dwellings) on Site NP12 located to the north-east of the village centre, with access to be taken via the consented Grove Farm development to the north.
- Residential use (up to 80 dwellings) on Site NP11 located to the north of the village, with access to be taken from Queen Street via Westhall.

The forecast increase in traffic resulting from the Skinner's factory extension and the re-distribution of traffic associated with Stradbroke Primary School were both derived by applying first principle assumptions based on the 2018 traffic counts. The increase in traffic resulting from the proposed employment use on Site NP13 and residential use on the remaining sites was determined by obtaining trip rates from the TRICS database. Vehicle trips were distributed based on the existing distribution of traffic on the network where applicable, or by applying a forecast trip distribution derived from the 2011 Census Travel to Work O-D database.

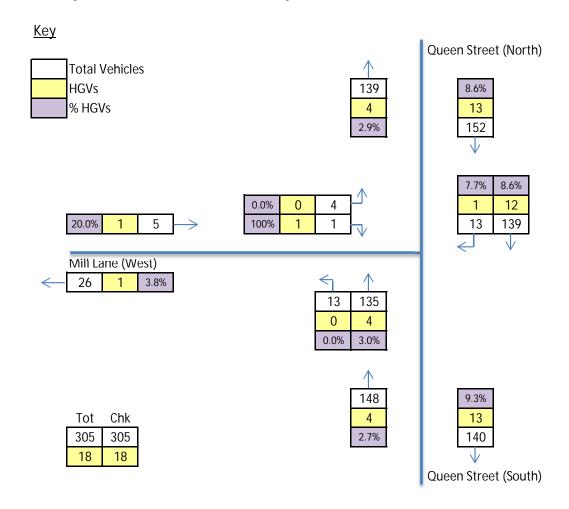
The cumulative traffic flows for the future year assessment of 2036 included all traffic associated with the identified proposal sites. The growth factors for each weekday period were adjusted to take account of the site allocations for both employment and residential uses, to avoid double counting. The future operation of the Queen Street/ Mill Lane junction reflects the proposed four-arm staggered arrangement of the junction following the implementation of the Grove Farm development. The PICADY results demonstrate that the proposed Queen Street/ Mill Lane junction is forecast to operate well within capacity during the network weekday peak hours, with negligible queuing experienced at the junction.

In conclusion, it is considered that the residential and employment sites considered by this study could, in principle, be brought forward by the future assessment year of 2036 without requiring any additional highway capacity improvements at the Queen Street/Mill Lane junction.

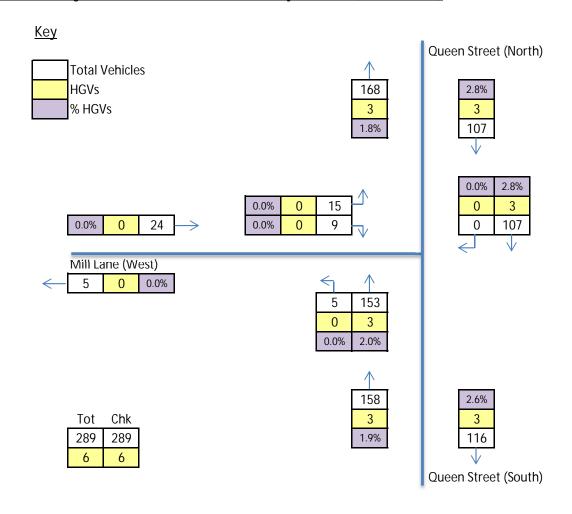


Traffic Flow Diagrams

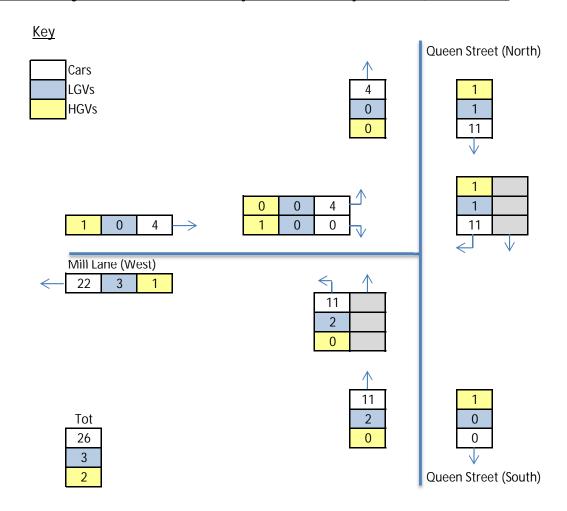
2018 Existing Scenario - Traffic Count - Weekday AM Peak (08:00 - 09:00)



2018 Existing Scenario - Traffic Count - Weekday PM Peak (16:45 - 17:45)



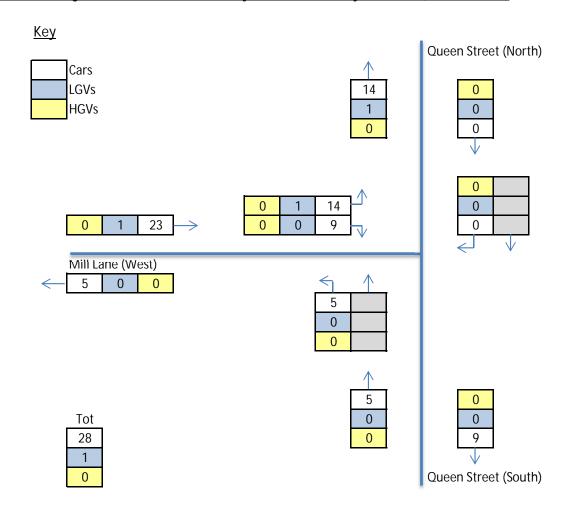
2018 Existing Scenario - Skinner's Factory Traffic - Weekday AM Peak (08:00 - 09:00)



^{*}assumes all traffic in/ out of Mill Lane is related to the Skinner's Factory (worst-case)

Traffic Flow Diagram 3

2018 Existing Scenario - Skinner's Factory Traffic - Weekday PM Peak (16:45 - 17:45)

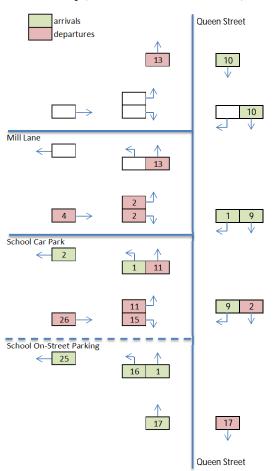


^{*}assumes all traffic in/ out of Mill Lane is related to the Skinner's Factory (worst-case)

Traffic Flow Diagram 4

2018 Existing Scenario - School Traffic

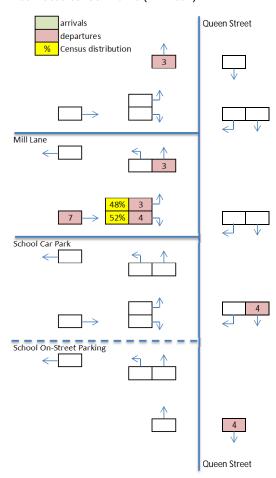
School Survey (Afternoon Peak - 14:55-15:30)



^{*}includes one bus arriving from the south/ departing to the north

Traffic Flow Diagram 5 (Afternoon)

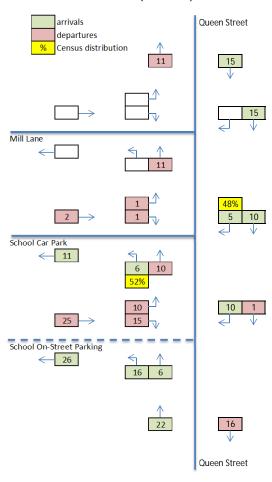
Estimated School Traffic (PM Peak)



^{*}all remaining staff (7) depart during PM peak

Traffic Flow Diagram 6 (PM Peak)

Estimated School Traffic (AM Peak)



^{*9} staff arrive, and 2 parents drop-off within the car park (based on survey)

Traffic Flow Diagram 7 (AM Peak)

^{*}one additional departure due to staff member leaving site to the south

^{*9} vehicles within school car park at start, 7 parked at the end

^{*}no pick-up trips or school bus

^{*}staff split based on 2011 Census (incoming trips)

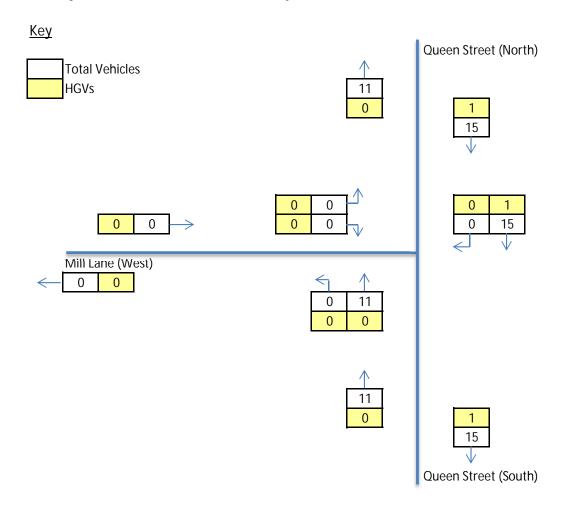
^{*}one additional arrival due to staff member arriving to site from south

^{*}same activity for on-street parking during AM peak (based on survey)

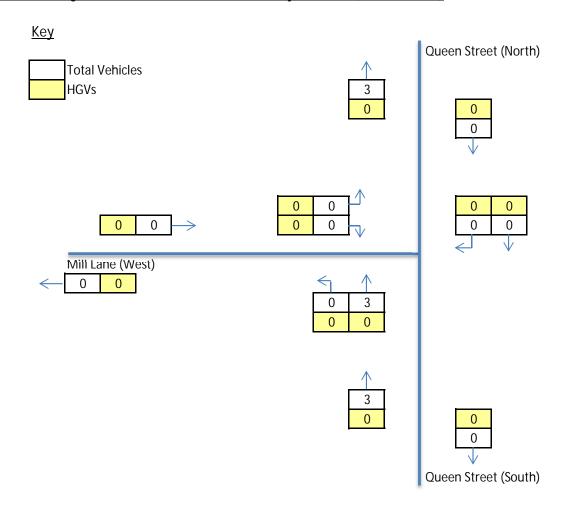
^{*}school bus arrives from north and departs to south (reverse arrangement)

^{*}staff split based on 2011 Census (incoming trips)

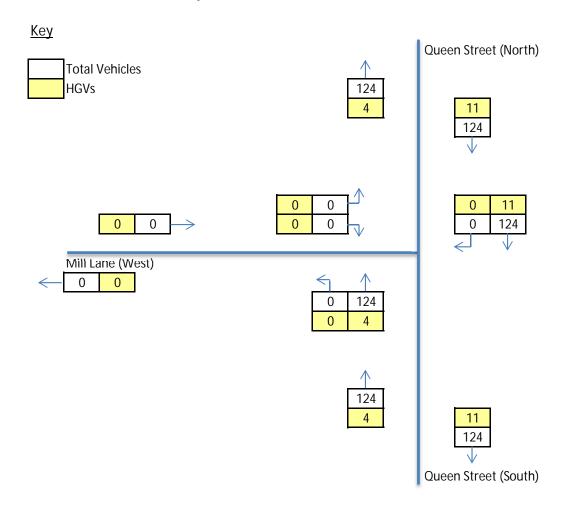
2018 Existing Scenario - School Traffic - Weekday AM Peak (08:00 - 09:00)



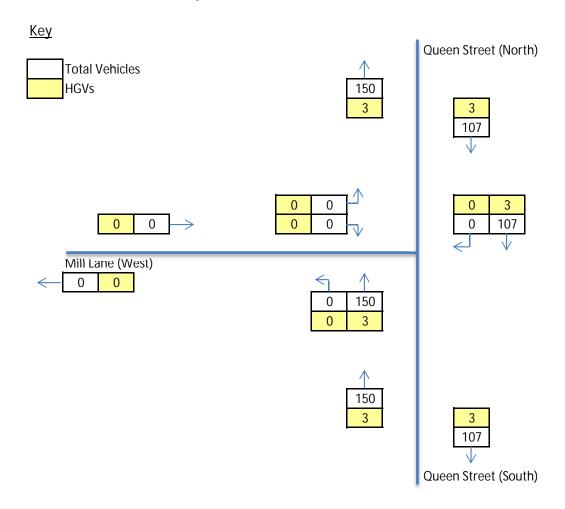
2018 Existing Scenario - School Traffic - Weekday PM Peak (16:45 - 17:45)



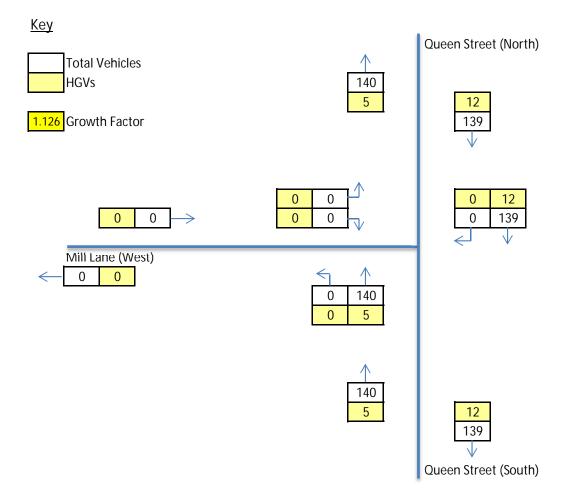
2018 Baseline Scenario - Weekday AM Peak (08:00 - 09:00)



2018 Baseline Scenario - Weekday PM Peak (16:45 - 17:45)

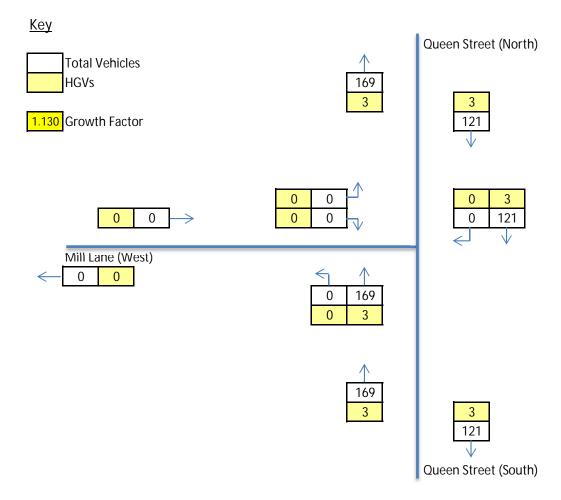


Traffic Growth - 2018 to 2036 (Unadjusted) - Weekday AM Peak



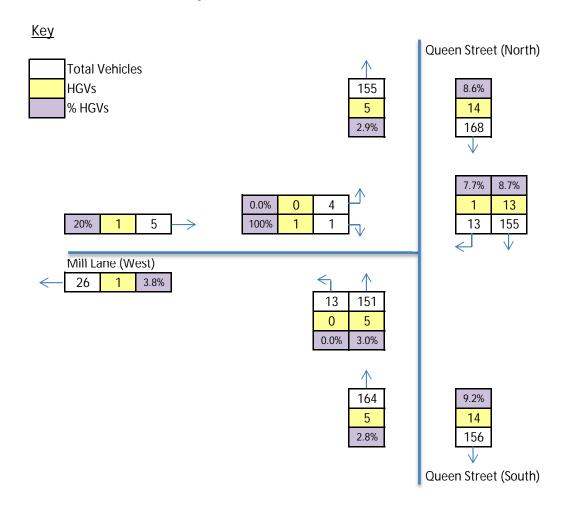
^{*}excludes Skinner's Factory traffic and Stradbroke Primary School traffic

Traffic Growth - 2018 to 2036 (Unadjusted) - Weekday PM Peak

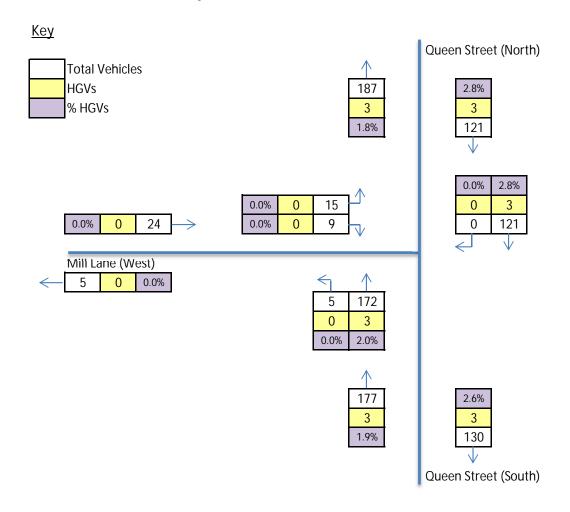


^{*}excludes Skinner's Factory traffic and Stradbroke Primary School traffic

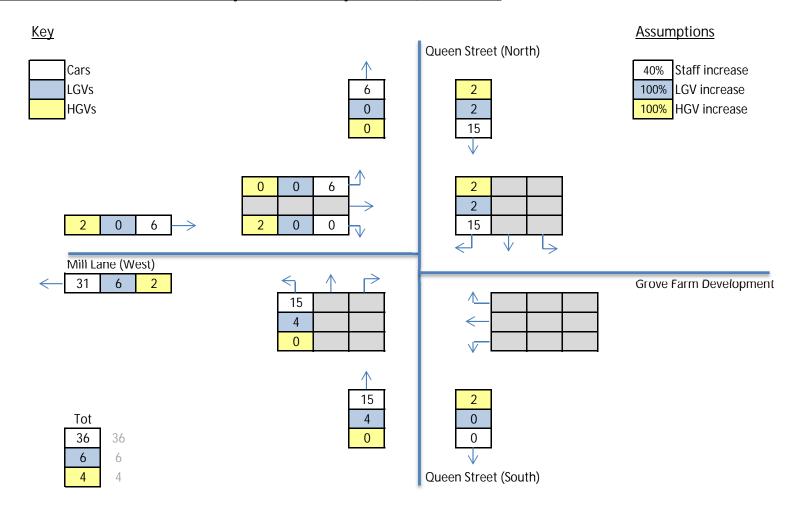
2036 Baseline Scenario - Weekday AM Peak (08:00 - 09:00)



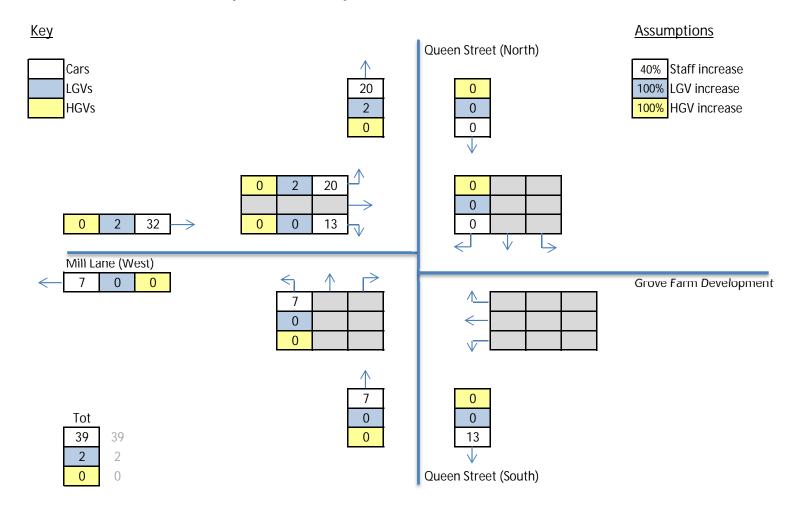
2036 Baseline Scenario - Weekday PM Peak (16:45 - 17:45)



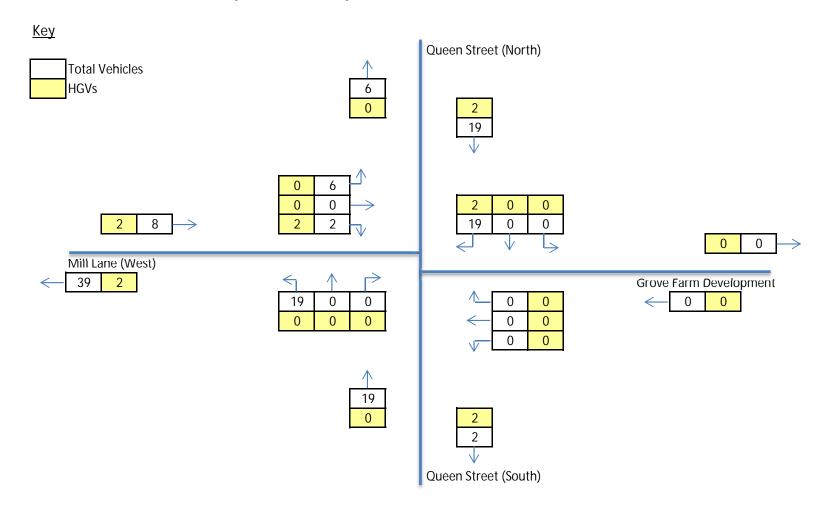
2036 Future Scenario - Skinner's Factory Traffic - Weekday AM Peak (08:00 - 09:00)



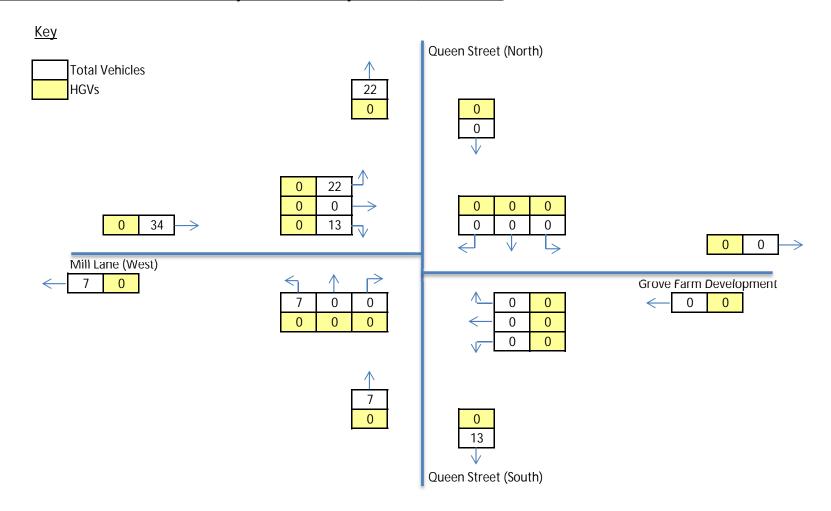
2036 Future Scenario - Skinner's Factory Traffic - Weekday PM Peak (16:45 - 17:45)



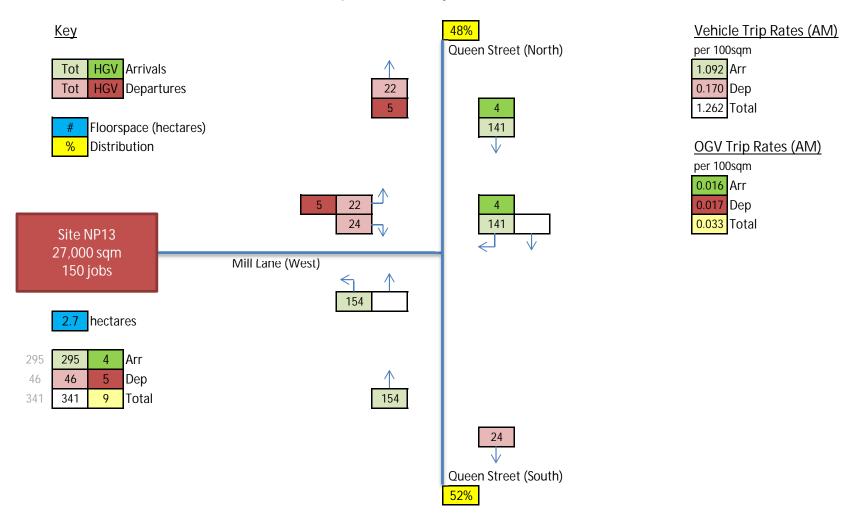
2036 Future Scenario - Skinner's Factory Traffic - Weekday AM Peak (08:00 - 09:00)



2036 Future Scenario - Skinner's Factory Traffic - Weekday PM Peak (16:45 - 17:45)



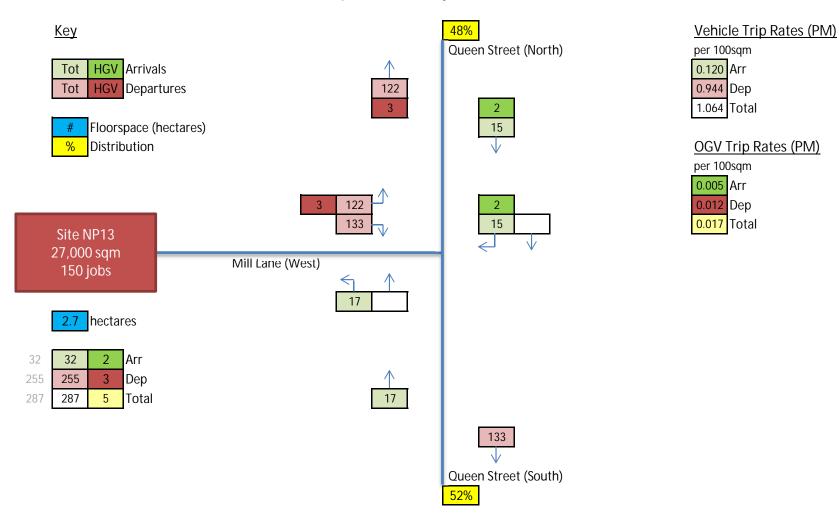
2036 Future Scenario - Site NP13 Commercial Development - Weekday AM Peak (08:00 - 09:00)



^{*}all HGVs assumed to travel to/ from the north

Traffic Flow Diagram 20

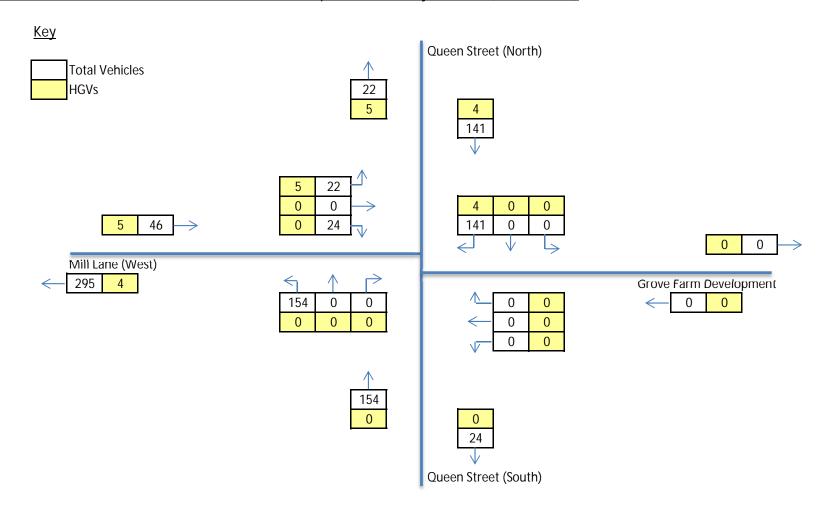
2036 Future Scenario - Site NP13 Commercial Development - Weekday PM Peak (17:00 - 18:00)



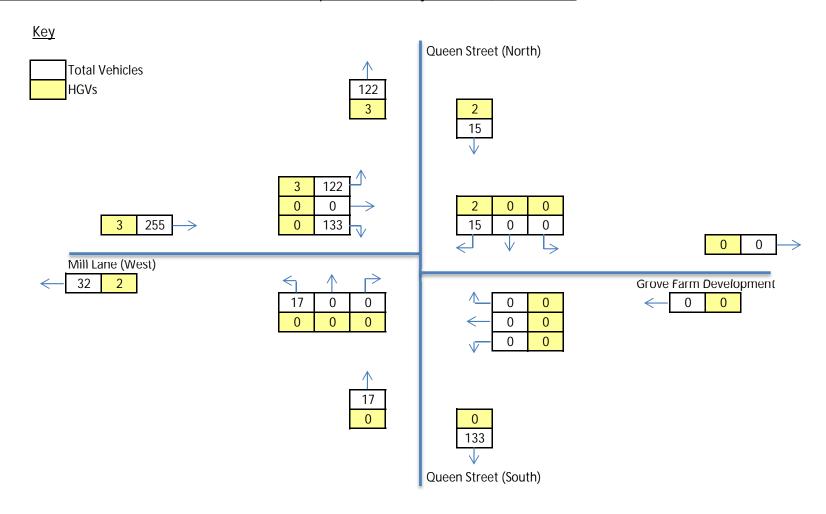
^{*}all HGVs assumed to travel to/ from the north

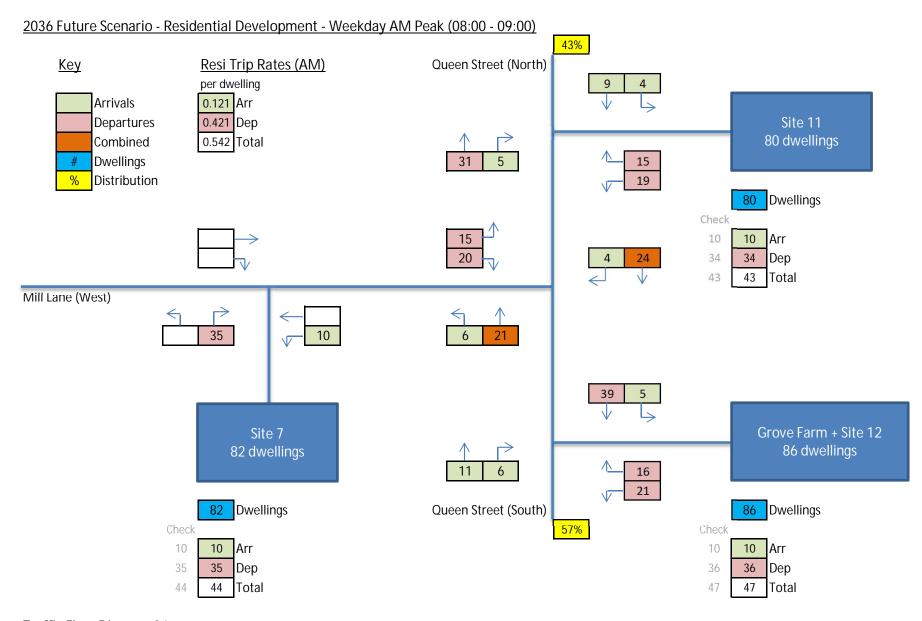
Traffic Flow Diagram 21

2036 Future Scenario - Site NP13 Commercial Development - Weekday AM Peak (08:00 - 09:00)

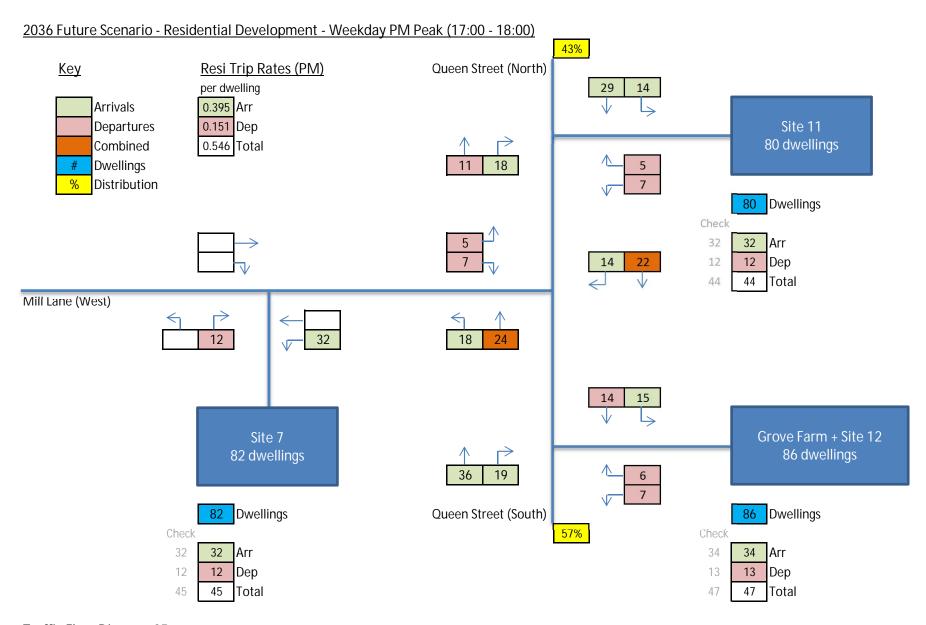


2036 Future Scenario - Site NP13 Commercial Development - Weekday PM Peak (17:00 - 18:00)



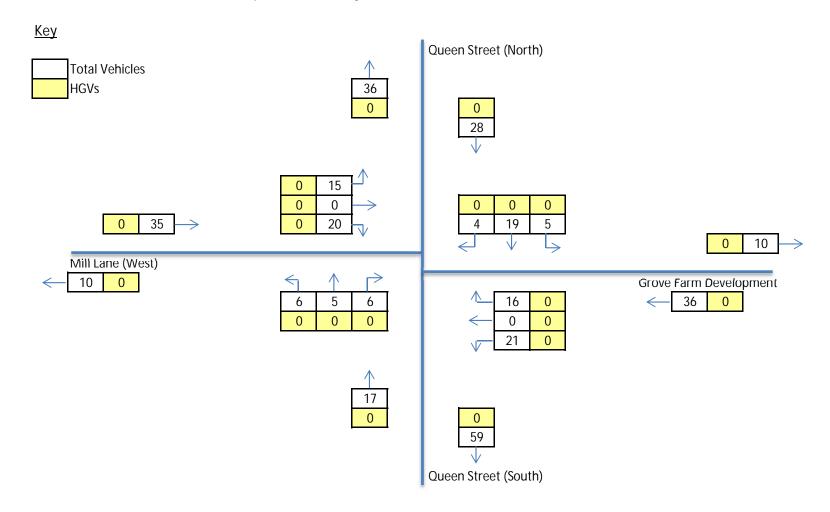


Traffic Flow Diagram 24

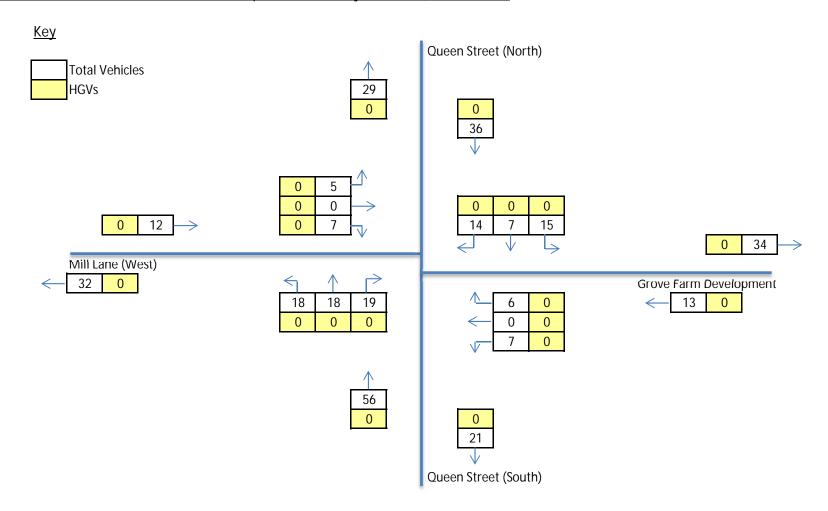


Traffic Flow Diagram 25

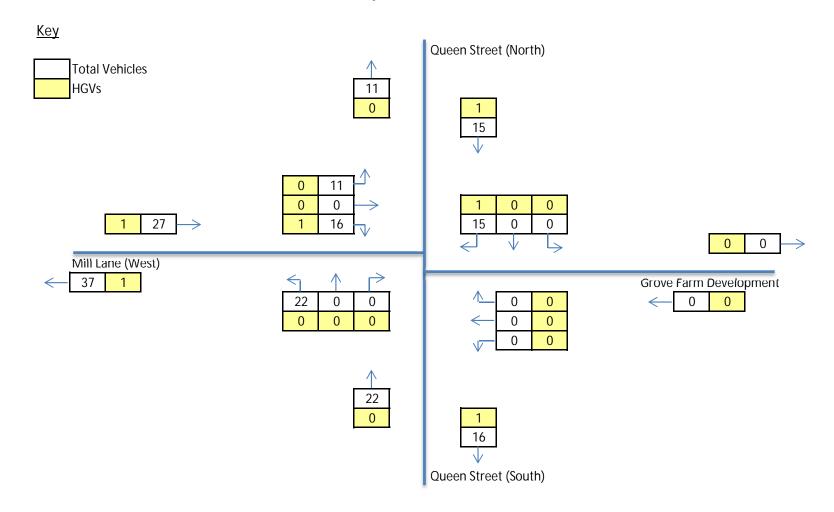
2036 Future Scenario - Residential Development - Weekday AM Peak (08:00 - 09:00)



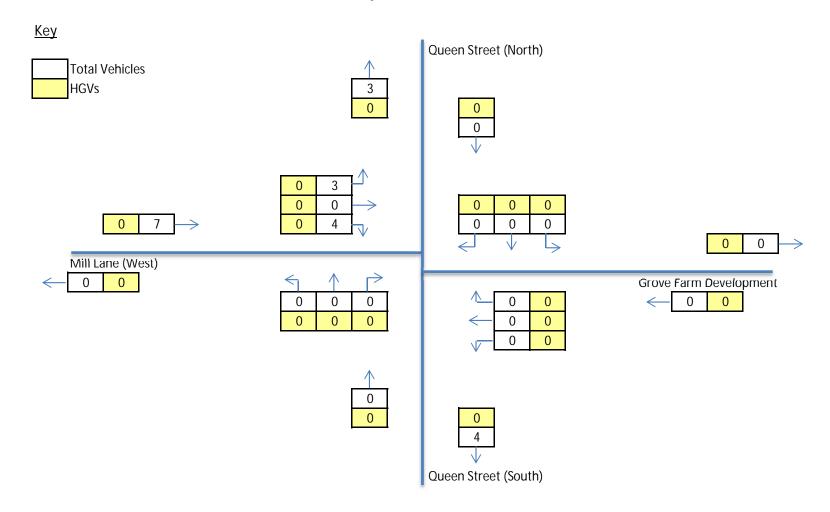
2036 Future Scenario - Residential Development - Weekday PM Peak (17:00 - 18:00)



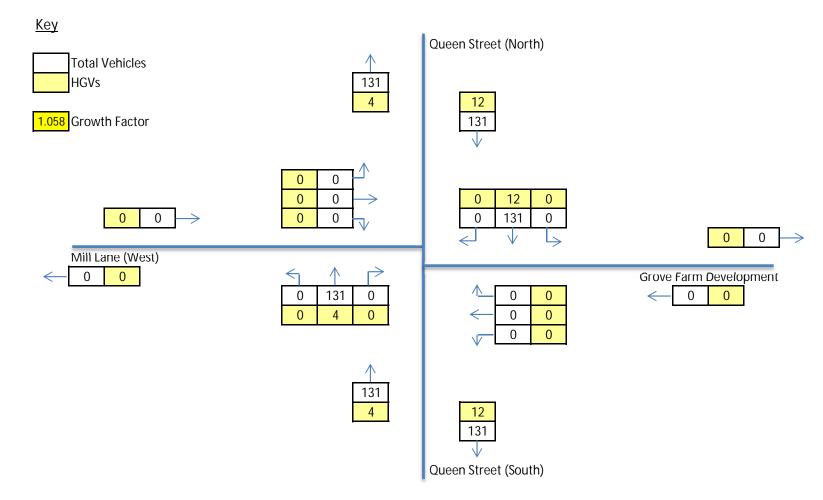
2036 Future Scenario - Redistributed School Traffic - Weekday AM Peak (08:00 - 09:00)



2036 Future Scenario - Redistributed School Traffic - Weekday PM Peak (16:45 - 17:45)

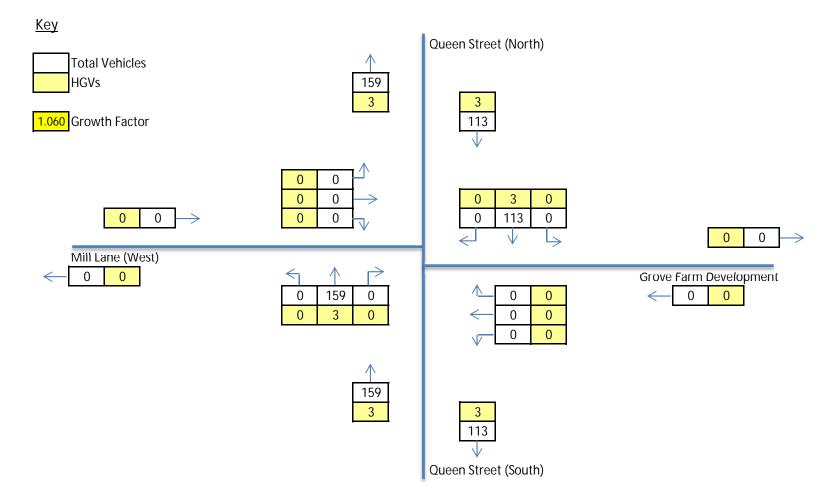


Traffic Growth - 2018 to 2036 (Adjusted) - Weekday AM Peak



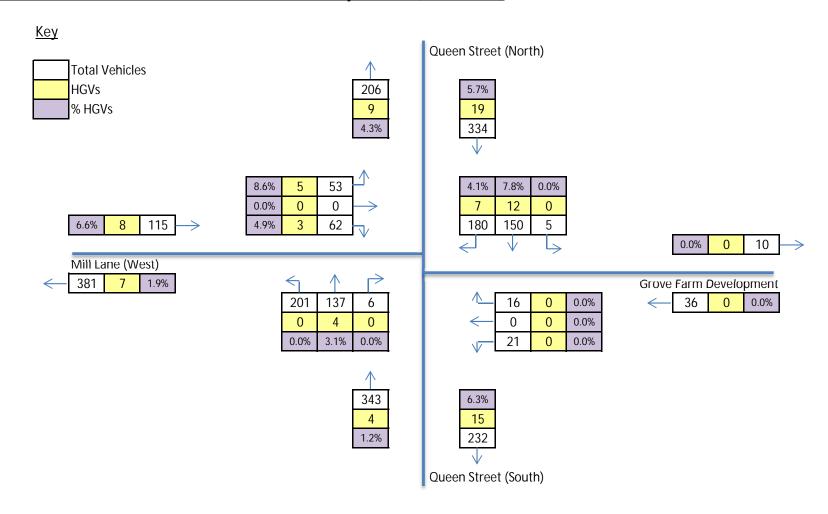
^{*}excludes Skinner's Factory traffic and Stradbroke Primary School traffic

Traffic Growth - 2018 to 2036 (Adjusted) - Weekday PM Peak

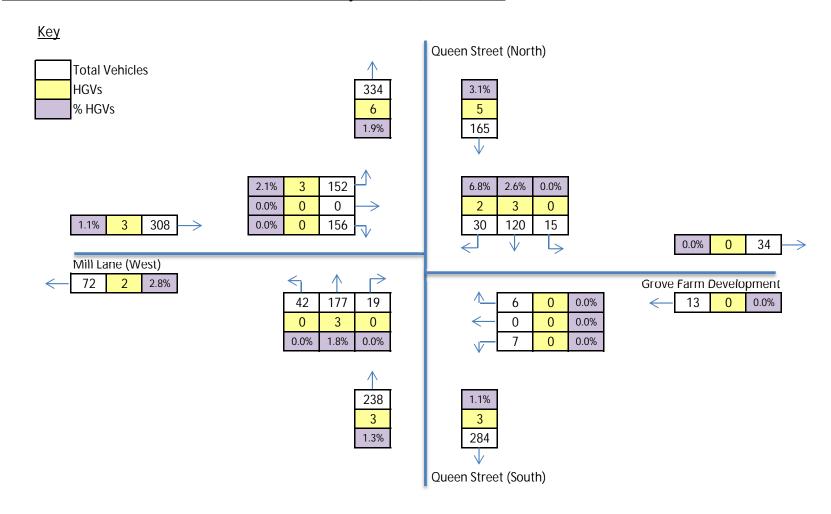


^{*}excludes Skinner's Factory traffic and Stradbroke Primary School traffic

2036 Future Scenario - Cumulative Assessment - Weekday AM Peak (08:00 - 09:00)



2036 Future Scenario - Cumulative Assessment - Weekday PM Peak (16:45 - 17:45)



Technical Note 02



Appendix A: Queen Street/ Mill Lane Traffic Count Results



Midlands

Haseley Office Centre, Firs Lane, Haseley, Warwick, CV35 7LS

Tel: 01926 485504 Fax: 01926 485537

AECOM STRADBROKE TRAFFIC SURVEY

SURVEY REPORT JANUARY 2018

| PROJECT NO. | 8323 |
|-------------|---------------|
| CHECKED | N. TOONE |
| DATE | 18/01/2018 |
| CONTACT | C. WHITEHOUSE |
| REVISION | |



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Drawing 8323-01

Appendix A – Vehicle Categories

Appendix B – Classified Count Data

Appendix C – Queue Length Data



INTRODUCTION

Nationwide Data Collection (NDC) was instructed by Aecom to undertake a classified turning count and queue length survey in Stradbroke, Suffolk. A general location plan is given in Diagram 1.

Classified Turning Count

A classified turning count was undertaken at the Mill Lane / Queen Street junction in Stradbroke, Suffolk. The survey was carried out on Tuesday 16th January 2018; survey hours were 07:00 to 10:00 and 15:00 to 19:00. All information was collected in fifteen-minute intervals and has been tabulated with period totals. Details of the observed movements are given in Drawing 8323-01.

Vehicles were classified into the following categories:

Cars and taxis (CAR), Light Goods Vehicles (LGV), Other Goods Vehicles type 1 (OGV1), Other Goods Vehicles type 2 (OGV2), Public Service Vehicles (PSV), Motorcycles (MCL) and Pedal Cycles (PCL).

A detailed description of the vehicles included in each category is included in Appendix A. The results of the classified count survey are contained in Appendix B.

Queue Length Observation

A queue length survey was carried out on all approaches to the junction at 5-minute intervals, by lane. Lane numbering is always outwards from the kerb in the direction of travel. All observations are in vehicle numbers rather than a linear measurement. Arm labelling is consistent with the classified counts carried out at the junctions. The results of the queue length data are included in Appendix C.

Site Notes

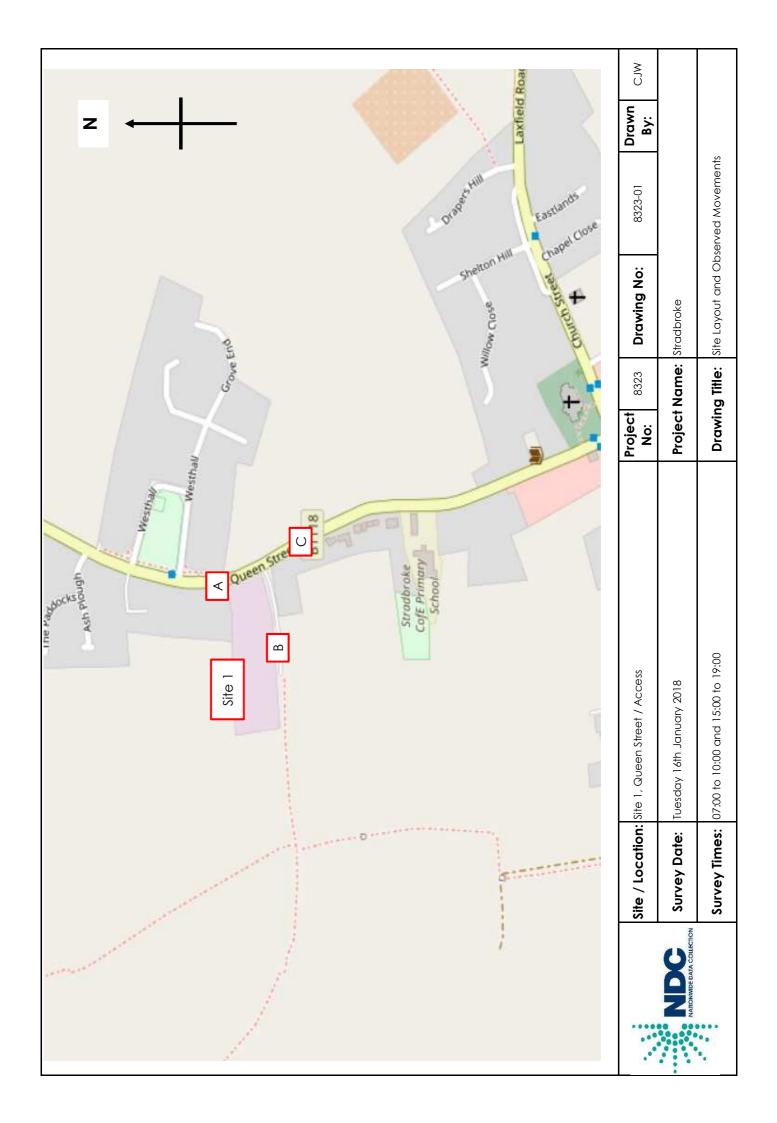
The weather remained dry and cold throughout the survey and there were no incidents or accidents likely to have had an effect on the results.

All data has been emailed to Kimberley Pettingill at Kimberley-pettingill@aecom.com.



<u>Diagram 1 – General Location Plan</u>



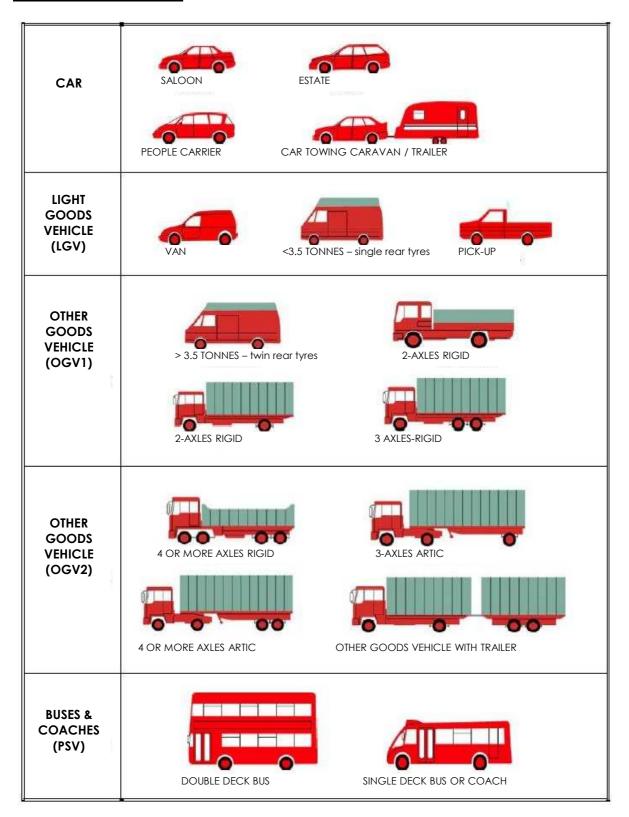




APPENDIX A Vehicle Categories



COBA VEHICLE CATEGORIES





COBA VEHICLE CATEGORIES

Definition of Categories

The various components of traffic have different characteristics in terms of operating costs, growth and occupancy. The most common categories into which the traffic is split in COBA; these are defined as:

Cars (CARS)

Including taxis, estate cars, 'people carriers' and other passenger vehicles (for example, minibuses and camper vans) with a gross vehicle weight of less than 3.5 tonnes, normally ones which can accommodate not more than 15 seats. Three-wheeled cars, motor invalid carriages, Land Rovers, Range Rovers and Jeeps and smaller ambulances are included. Cars towing caravans or trailers are counted as one vehicle unless included as a separate class.

Light Goods Vehicles (LGV)

Includes all goods vehicles up to 3.5 tonnes gross vehicle weight (goods vehicles over 3.5 tonnes have sideguards fitted between axles), including those towing a trailer or caravan. This includes all car delivery vans and those of the next larger carrying capacity such as transit vans. Included here are small pickup vans, three-wheeled goods vehicles, milk floats and pedestrian controlled motor vehicles. Most of this group is delivery vans of one type or another.

Other Goods Vehicles (OGV 1)

Includes all rigid vehicles over 3.5 tonnes gross vehicle weight with two or three axles Includes larger ambulances, tractors (without trailers), road rollers for tarmac pressing, box vans and similar large vans. A two or three axle motor tractive unit without a trailer is also included.

Other Goods Vehicles (OGV 2)

This category includes all rigid vehicles with four or more axles and all articulated vehicles. Also included in this class are OGV1 goods vehicles towing a caravan or trailer.

Buses and Coaches (PSV)

Includes all public service vehicles and works buses with a gross vehicle weight of 3.5 tonnes or more, usually vehicles with more than 16 seats.



APPENDIX B Classified Count Data



| | | | Αt | o C | | | | | | Αt | οВ | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 07:00 | 12 | 2 | 0 | 1 | 0 | 1 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:15 | 15 | 3 | 5 | 0 | 0 | 0 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 07:30 | 17 | 7 | 1 | 3 | 1 | 1 | 30 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 07:45 | 16 | 15 | 4 | 1 | 0 | 0 | 36 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:00 | 25 | 3 | 1 | 2 | 2 | 0 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:15 | 23 | 9 | 1 | 3 | 0 | 1 | 37 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 08:30 | 25 | 9 | 0 | 1 | 0 | 0 | 35 | 2 | 0 | 0 | 1 | 0 | 0 | 3 |
| 08:45 | 26 | 5 | 0 | 1 | 1 | 1 | 34 | 5 | 1 | 0 | 0 | 0 | 0 | 6 |
| 09:00 | 11 | 6 | 1 | 2 | 0 | 0 | 20 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 09:15 | 14 | 6 | 2 | 1 | 0 | 0 | 23 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 09:30 | 15 | 4 | 0 | 1 | 0 | 0 | 20 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 09:45 | 14 | 5 | 1 | 1 | 0 | 0 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| P/TOT | 213 | 74 | 16 | 17 | 4 | 4 | 328 | 19 | 2 | 1 | 2 | 0 | 0 | 24 |

| | | | Αt | o C | | | | | | A t | о В | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 22 | 6 | 2 | 1 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 19 | 3 | 2 | 0 | 0 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 26 | 4 | 0 | 1 | 1 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 14 | 2 | 1 | 1 | 1 | 1 | 20 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 16:00 | 24 | 1 | 1 | 0 | 0 | 1 | 27 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 16:15 | 19 | 5 | 1 | 1 | 1 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 14 | 4 | 0 | 3 | 0 | 0 | 21 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 16:45 | 23 | 7 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 14 | 4 | 0 | 2 | 0 | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 21 | 5 | 0 | 1 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 27 | 2 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 29 | 4 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 20 | 0 | 0 | 0 | 0 | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 17 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 18 | 1 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P/TOT | 325 | 48 | 7 | 10 | 3 | 5 | 398 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |



| | | | B t | o A | | | | | | B to | o C | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 07:00 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 09:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| P/TOT | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 2 | 2 | 0 | 0 | 0 | 5 |

| | | | B t | o A | | | | | | B to | o C | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 15:15 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 15:30 | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 3 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16:45 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 17:00 | 11 | 1 | 0 | 0 | 0 | 0 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 17:45 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18:15 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| P/TOT | 21 | 6 | 0 | 1 | 0 | 0 | 28 | 16 | 4 | 0 | 1 | 0 | 0 | 21 |



| | | | Ct | οВ | | | | | | Ct | o A | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 4 | 0 | 1 | 0 | 1 | 26 |
| 07:15 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 20 | 4 | 0 | 0 | 0 | 0 | 24 |
| 07:30 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 18 | 9 | 0 | 2 | 0 | 0 | 29 |
| 07:45 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 27 | 9 | 0 | 2 | 0 | 0 | 38 |
| 08:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 28 | 10 | 0 | 0 | 0 | 1 | 39 |
| 08:15 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 17 | 1 | 0 | 0 | 0 | 0 | 18 |
| 08:30 | 4 | 1 | 0 | 0 | 0 | 0 | 5 | 18 | 4 | 1 | 0 | 0 | 0 | 23 |
| 08:45 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 43 | 9 | 2 | 1 | 0 | 0 | 55 |
| 09:00 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 3 | 2 | 0 | 0 | 0 | 16 |
| 09:15 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 19 | 1 | 0 | 1 | 1 | 0 | 22 |
| 09:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 11 | 1 | 2 | 0 | 0 | 33 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 8 | 1 | 1 | 0 | 0 | 25 |
| P/TOT | 18 | 4 | 0 | 1 | 0 | 0 | 23 | 255 | 73 | 7 | 10 | 1 | 2 | 348 |

| | | | C | to B | | | | | | Ct | o A | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 9 | 1 | 2 | 0 | 0 | 32 |
| 15:15 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 24 | 4 | 0 | 2 | 1 | 0 | 31 |
| 15:30 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 20 | 4 | 1 | 0 | 0 | 0 | 25 |
| 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 7 | 3 | 0 | 1 | 1 | 36 |
| 16:00 | 1 | 2 | 0 | 0 | 0 | 0 | 3 | 19 | 11 | 1 | 0 | 0 | 0 | 31 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 7 | 0 | 1 | 1 | 0 | 37 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 11 | 0 | 0 | 1 | 0 | 32 |
| 16:45 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 29 | 9 | 0 | 0 | 0 | 1 | 39 |
| 17:00 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 29 | 6 | 0 | 1 | 0 | 0 | 36 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 1 | 0 | 1 | 0 | 0 | 36 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 2 | 1 | 0 | 0 | 0 | 42 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 3 | 1 | 0 | 0 | 0 | 27 |
| 18:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 17 | 3 | 0 | 0 | 0 | 0 | 20 |
| 18:15 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 21 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 2 | 0 | 0 | 0 | 0 | 21 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 1 | 0 | 0 | 0 | 0 | 21 |
| P/TOT | 12 | 3 | 0 | 0 | 0 | 0 | 15 | 386 | 80 | 8 | 7 | 4 | 2 | 487 |



| | | | TO A | RM A | | | | | | FROM | ARM A | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 07:00 | 22 | 4 | 0 | 1 | 0 | 1 | 28 | 13 | 2 | 0 | 1 | 0 | 1 | 17 |
| 07:15 | 20 | 4 | 0 | 0 | 0 | 0 | 24 | 17 | 3 | 5 | 0 | 0 | 0 | 25 |
| 07:30 | 19 | 9 | 0 | 2 | 0 | 0 | 30 | 19 | 7 | 1 | 3 | 1 | 1 | 32 |
| 07:45 | 27 | 9 | 0 | 2 | 0 | 0 | 38 | 17 | 15 | 4 | 1 | 0 | 0 | 37 |
| 08:00 | 28 | 10 | 0 | 0 | 0 | 1 | 39 | 26 | 3 | 1 | 2 | 2 | 0 | 34 |
| 08:15 | 17 | 1 | 0 | 0 | 0 | 0 | 18 | 26 | 9 | 1 | 3 | 0 | 1 | 40 |
| 08:30 | 19 | 4 | 1 | 0 | 0 | 0 | 24 | 27 | 9 | 0 | 2 | 0 | 0 | 38 |
| 08:45 | 46 | 9 | 2 | 1 | 0 | 0 | 58 | 31 | 6 | 0 | 1 | 1 | 1 | 40 |
| 09:00 | 12 | 3 | 2 | 0 | 0 | 0 | 17 | 11 | 6 | 2 | 2 | 0 | 0 | 21 |
| 09:15 | 19 | 1 | 0 | 1 | 1 | 0 | 22 | 15 | 7 | 2 | 1 | 0 | 0 | 25 |
| 09:30 | 19 | 11 | 1 | 2 | 0 | 0 | 33 | 15 | 4 | 0 | 2 | 0 | 0 | 21 |
| 09:45 | 15 | 8 | 1 | 1 | 0 | 0 | 25 | 15 | 5 | 1 | 1 | 0 | 0 | 22 |
| P/TOT | 263 | 73 | 7 | 10 | 1 | 2 | 356 | 232 | 76 | 17 | 19 | 4 | 4 | 352 |

| | | | TO A | RM A | | | | | | FROM | ARM A | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 20 | 9 | 1 | 2 | 0 | 0 | 32 | 22 | 6 | 2 | 1 | 0 | 0 | 31 |
| 15:15 | 26 | 4 | 0 | 2 | 1 | 0 | 33 | 19 | 3 | 2 | 0 | 0 | 1 | 25 |
| 15:30 | 22 | 4 | 1 | 1 | 0 | 0 | 28 | 26 | 4 | 0 | 1 | 1 | 0 | 32 |
| 15:45 | 24 | 7 | 3 | 0 | 1 | 1 | 36 | 15 | 3 | 1 | 1 | 1 | 1 | 22 |
| 16:00 | 19 | 13 | 1 | 0 | 0 | 0 | 33 | 24 | 2 | 1 | 0 | 0 | 1 | 28 |
| 16:15 | 28 | 10 | 0 | 1 | 1 | 0 | 40 | 19 | 5 | 1 | 1 | 1 | 0 | 27 |
| 16:30 | 20 | 11 | 0 | 0 | 1 | 0 | 32 | 15 | 5 | 0 | 3 | 0 | 0 | 23 |
| 16:45 | 31 | 9 | 0 | 0 | 0 | 1 | 41 | 23 | 7 | 0 | 0 | 0 | 0 | 30 |
| 17:00 | 40 | 7 | 0 | 1 | 0 | 0 | 48 | 14 | 4 | 0 | 2 | 0 | 1 | 21 |
| 17:15 | 34 | 1 | 0 | 1 | 0 | 0 | 36 | 21 | 5 | 0 | 1 | 0 | 0 | 27 |
| 17:30 | 40 | 2 | 1 | 0 | 0 | 0 | 43 | 27 | 2 | 0 | 0 | 0 | 0 | 29 |
| 17:45 | 24 | 3 | 1 | 0 | 0 | 0 | 28 | 29 | 4 | 0 | 0 | 0 | 0 | 33 |
| 18:00 | 17 | 3 | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 0 | 0 | 0 | 1 | 21 |
| 18:15 | 22 | 0 | 0 | 0 | 0 | 0 | 22 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| 18:30 | 19 | 2 | 0 | 0 | 0 | 0 | 21 | 17 | 0 | 0 | 0 | 0 | 0 | 17 |
| 18:45 | 21 | 1 | 0 | 0 | 0 | 0 | 22 | 18 | 1 | 0 | 0 | 0 | 0 | 19 |
| P/TOT | 407 | 86 | 8 | 8 | 4 | 2 | 515 | 327 | 51 | 7 | 10 | 3 | 5 | 403 |



| | | | TO A | RM B | | | | | | FROM | ARM B | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 07:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 07:15 | 4 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:45 | 1 | 1 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:15 | 4 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 6 | 1 | 0 | 1 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:45 | 10 | 1 | 0 | 0 | 0 | 0 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:00 | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 09:15 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 09:30 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 09:45 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| P/TOT | 37 | 6 | 1 | 3 | 0 | 0 | 47 | 9 | 2 | 2 | 0 | 0 | 0 | 13 |

| | | | TO A | RM B | | | | | | FROM | ARM B | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 15:15 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 15:30 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 0 | 6 |
| 15:45 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 1 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 4 |
| 16:30 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16:45 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| 17:00 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 15 | 1 | 0 | 0 | 0 | 0 | 16 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 18:00 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18:15 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| P/TOT | 14 | 6 | 0 | 0 | 0 | 0 | 20 | 37 | 10 | 0 | 2 | 0 | 0 | 49 |



| | | | TO A | RM C | | | | | | FROM | ARM C | | | |
|-------|-----|-----|------|------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 07:00 | 12 | 2 | 0 | 1 | 0 | 1 | 16 | 20 | 4 | 0 | 1 | 0 | 1 | 26 |
| 07:15 | 15 | 3 | 5 | 0 | 0 | 0 | 23 | 22 | 5 | 0 | 0 | 0 | 0 | 27 |
| 07:30 | 17 | 7 | 1 | 3 | 1 | 1 | 30 | 20 | 9 | 0 | 2 | 0 | 0 | 31 |
| 07:45 | 16 | 15 | 4 | 1 | 0 | 0 | 36 | 27 | 10 | 0 | 3 | 0 | 0 | 40 |
| 08:00 | 25 | 3 | 2 | 2 | 2 | 0 | 34 | 29 | 10 | 0 | 0 | 0 | 1 | 40 |
| 08:15 | 23 | 9 | 1 | 3 | 0 | 1 | 37 | 18 | 2 | 0 | 0 | 0 | 0 | 20 |
| 08:30 | 25 | 9 | 0 | 1 | 0 | 0 | 35 | 22 | 5 | 1 | 0 | 0 | 0 | 28 |
| 08:45 | 26 | 5 | 0 | 1 | 1 | 1 | 34 | 48 | 9 | 2 | 1 | 0 | 0 | 60 |
| 09:00 | 11 | 7 | 1 | 2 | 0 | 0 | 21 | 13 | 3 | 2 | 0 | 0 | 0 | 18 |
| 09:15 | 14 | 6 | 3 | 1 | 0 | 0 | 24 | 20 | 1 | 0 | 1 | 1 | 0 | 23 |
| 09:30 | 15 | 5 | 0 | 1 | 0 | 0 | 21 | 19 | 11 | 1 | 2 | 0 | 0 | 33 |
| 09:45 | 15 | 5 | 1 | 1 | 0 | 0 | 22 | 15 | 8 | 1 | 1 | 0 | 0 | 25 |
| P/TOT | 214 | 76 | 18 | 17 | 4 | 4 | 333 | 273 | 77 | 7 | 11 | 1 | 2 | 371 |

| | TO ARM C | | | | | | | | FROM | ARM C | | | | |
|-------|----------|-----|------|------|-----|-----|-----|-----|------|-------|------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 24 | 6 | 2 | 1 | 0 | 0 | 33 | 21 | 9 | 1 | 2 | 0 | 0 | 33 |
| 15:15 | 19 | 5 | 2 | 0 | 0 | 1 | 27 | 26 | 4 | 0 | 2 | 1 | 0 | 33 |
| 15:30 | 26 | 6 | 0 | 2 | 1 | 0 | 35 | 21 | 5 | 1 | 0 | 0 | 0 | 27 |
| 15:45 | 14 | 2 | 1 | 1 | 1 | 1 | 20 | 24 | 7 | 3 | 0 | 1 | 1 | 36 |
| 16:00 | 24 | 1 | 1 | 0 | 0 | 1 | 27 | 20 | 13 | 1 | 0 | 0 | 0 | 34 |
| 16:15 | 20 | 5 | 1 | 1 | 1 | 0 | 28 | 28 | 7 | 0 | 1 | 1 | 0 | 37 |
| 16:30 | 15 | 4 | 0 | 3 | 0 | 0 | 22 | 20 | 11 | 0 | 0 | 1 | 0 | 32 |
| 16:45 | 26 | 7 | 0 | 0 | 0 | 0 | 33 | 30 | 9 | 0 | 0 | 0 | 1 | 40 |
| 17:00 | 18 | 4 | 0 | 2 | 0 | 1 | 25 | 33 | 6 | 0 | 1 | 0 | 0 | 40 |
| 17:15 | 21 | 5 | 0 | 1 | 0 | 0 | 27 | 34 | 1 | 0 | 1 | 0 | 0 | 36 |
| 17:30 | 29 | 2 | 0 | 0 | 0 | 0 | 31 | 39 | 2 | 1 | 0 | 0 | 0 | 42 |
| 17:45 | 31 | 4 | 0 | 0 | 0 | 0 | 35 | 23 | 3 | 1 | 0 | 0 | 0 | 27 |
| 18:00 | 21 | 0 | 0 | 0 | 0 | 1 | 22 | 18 | 3 | 0 | 0 | 0 | 0 | 21 |
| 18:15 | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 22 | 0 | 0 | 0 | 0 | 0 | 22 |
| 18:30 | 17 | 0 | 0 | 0 | 0 | 0 | 17 | 19 | 2 | 0 | 0 | 0 | 0 | 21 |
| 18:45 | 18 | 1 | 0 | 0 | 0 | 0 | 19 | 20 | 1 | 0 | 0 | 0 | 0 | 21 |
| P/TOT | 341 | 52 | 7 | 11 | 3 | 5 | 419 | 398 | 83 | 8 | 7 | 4 | 2 | 502 |



| | JUNCTION TOTAL | | | | | | | |
|-------|----------------|-----|------|------|-----|-----|-----|--|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT | |
| 07:00 | 35 | 6 | 0 | 2 | 0 | 2 | 45 | |
| 07:15 | 39 | 8 | 5 | 0 | 0 | 0 | 52 | |
| 07:30 | 40 | 16 | 1 | 5 | 1 | 1 | 64 | |
| 07:45 | 44 | 25 | 4 | 4 | 0 | 0 | 77 | |
| 08:00 | 55 | 13 | 2 | 2 | 2 | 1 | 75 | |
| 08:15 | 44 | 11 | 1 | 3 | 0 | 1 | 60 | |
| 08:30 | 50 | 14 | 1 | 2 | 0 | 0 | 67 | |
| 08:45 | 82 | 15 | 2 | 2 | 1 | 1 | 103 | |
| 09:00 | 25 | 10 | 4 | 2 | 0 | 0 | 41 | |
| 09:15 | 35 | 8 | 3 | 2 | 1 | 0 | 49 | |
| 09:30 | 34 | 16 | 1 | 4 | 0 | 0 | 55 | |
| 09:45 | 31 | 13 | 2 | 2 | 0 | 0 | 48 | |
| P/TOT | 514 | 155 | 26 | 30 | 5 | 6 | 736 | |

| Toosaay | |
|----------------|-----|
| PEAK HOU | R |
| CALCULATION | NC |
| 07:00 to 08:00 | 238 |
| 07:15 to 08:15 | 268 |
| 07:30 to 08:30 | 276 |
| 07:45 to 08:45 | 279 |
| 08:00 to 09:00 | 305 |
| 08:15 to 09:15 | 271 |
| 08:30 to 09:30 | 260 |
| 08:45 to 09:45 | 248 |
| 09:00 to 10:00 | 193 |
| PEAK VALUE | 305 |

| | | | JUNCTIC | N TOTAL | | | |
|-------|-----|-----|---------|---------|-----|-----|-----|
| TIME | CAR | LGV | OGV1 | OGV2 | PSV | MCL | TOT |
| 15:00 | 45 | 15 | 3 | 3 | 0 | 0 | 66 |
| 15:15 | 47 | 9 | 2 | 2 | 1 | 1 | 62 |
| 15:30 | 49 | 11 | 1 | 3 | 1 | 0 | 65 |
| 15:45 | 39 | 10 | 4 | 1 | 2 | 2 | 58 |
| 16:00 | 44 | 17 | 2 | 0 | 0 | 1 | 64 |
| 16:15 | 48 | 15 | 1 | 2 | 2 | 0 | 68 |
| 16:30 | 36 | 16 | 0 | 3 | 1 | 0 | 56 |
| 16:45 | 58 | 16 | 0 | 0 | 0 | 1 | 75 |
| 17:00 | 62 | 11 | 0 | 3 | 0 | 1 | 77 |
| 17:15 | 55 | 6 | 0 | 2 | 0 | 0 | 63 |
| 17:30 | 69 | 4 | 1 | 0 | 0 | 0 | 74 |
| 17:45 | 55 | 7 | 1 | 0 | 0 | 0 | 63 |
| 18:00 | 39 | 3 | 0 | 0 | 0 | 1 | 43 |
| 18:15 | 41 | 0 | 0 | 0 | 0 | 0 | 41 |
| 18:30 | 36 | 2 | 0 | 0 | 0 | 0 | 38 |
| 18:45 | 39 | 2 | 0 | 0 | 0 | 0 | 41 |
| P/TOT | 762 | 144 | 15 | 19 | 7 | 7 | 954 |

| PEAK HOU | PEAK HOUR | | | | | | | |
|----------------|-------------|--|--|--|--|--|--|--|
| CALCULATION | CALCULATION | | | | | | | |
| 15:00 to 16:00 | 251 | | | | | | | |
| 15:15 to 16:15 | 249 | | | | | | | |
| 15:30 to 16:30 | 255 | | | | | | | |
| 15:45 to 16:45 | 246 | | | | | | | |
| 16:00 to 17:00 | 263 | | | | | | | |
| 16:15 to 17:15 | 276 | | | | | | | |
| 16:30 to 17:30 | 271 | | | | | | | |
| 16:45 to 17:45 | 289 | | | | | | | |
| 17:00 to 18:00 | 277 | | | | | | | |
| 17:15 to 18:15 | 243 | | | | | | | |
| 17:30 to 18:30 | 221 | | | | | | | |
| 17:45 to 18:45 | 185 | | | | | | | |
| 18:00 to 19:00 | 163 | | | | | | | |
| PEAK VALUE | 289 | | | | | | | |



APPENDIX C Queue Length Data



LOCATION: QUEEN STREET / ACCESS DAY: Tuesday

All queues are measured in vehicle numbers on the 5-minute interval. Lane numbering is outwards from the kerb in the direction of travel. Notes:

When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

| TIME | ARM A | ARM B | ARM C |
|-----------|-------|-------|-------|
| 07:00 | 0 | 0 | 0 |
| 07:05 | 0 | 0 | 0 |
| 07:10 | 0 | 0 | 0 |
| 07:15 | 0 | 0 | 0 |
| 07:20 | 0 | 0 | 0 |
| 07:25 | 0 | 0 | 0 |
| 07:30 | 0 | 0 | 0 |
| 07:35 | 0 | 0 | 0 |
| 07:40 | 0 | 0 | 0 |
| 07:45 | 0 | 0 | 0 |
| 07:50 | 0 | 0 | 0 |
| 07:55 | 0 | 0 | 0 |
| 08:00 | 0 | 0 | 0 |
| 08:05 | 0 | 0 | 0 |
| 08:10 | 0 | 0 | 0 |
| 08:15 | 0 | 0 | 0 |
| 08:20 | 0 | 1 | 0 |
| 08:25 | 0 | 0 | 0 |
| 08:30 | 0 | 0 | 0 |
| 08:35 | 0 | 0 | 0 |
| 08:40 | 0 | 0 | 0 |
| 08:45 | 0 | 0 | 0 |
| 08:50 | 0 | 0 | 0 |
| 08:55 | 0 | 0 | 0 |
| 09:00 | 0 | 0 | 0 |
| 09:05 | 0 | 0 | 0 |
| 09:10 | 0 | 0 | 0 |
| 09:15 | 0 | 0 | 0 |
| 09:20 | 0 | 0 | 0 |
| 09:25 | 0 | 1 | 0 |
| 09:30 | 0 | 0 | 0 |
| 09:35 | 0 | 0 | 0 |
| 09:40 | 0 | 0 | 0 |
| 09:45 | 0 | 0 | 0 |
| 09:50 | 0 | 0 | 0 |
| 09:55 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 |
| MAX QUEUE | 0 | 1 | 0 |



QUEEN STREET / ACCESS LOCATION: DAY: Tuesday

All queues are measured in vehicle numbers on the 5-minute interval. Lane numbering is outwards from the kerb in the direction of travel. Notes:

When a junction is signalised, queues are taken at the end of the red phase nearest to the time interval.

| TIME | ARM A | ARM B | ARM C |
|-----------|-------|-------|-------|
| 16:00 | 0 | 0 | 0 |
| 16:05 | 0 | 0 | 0 |
| 16:10 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 |
| 16:20 | 0 | 1 | 0 |
| 16:25 | 0 | 0 | 0 |
| 16:30 | 0 | 0 | 0 |
| 16:35 | 0 | 0 | 0 |
| 16:40 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 |
| 16:50 | 0 | 0 | 0 |
| 16:55 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 |
| 17:05 | 0 | 1 | 0 |
| 17:10 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 |
| 17:20 | 0 | 0 | 0 |
| 17:25 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 |
| 17:35 | 0 | 0 | 0 |
| 17:40 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 |
| 17:50 | 0 | 0 | 0 |
| 17:55 | 0 | 0 | 0 |
| 18:00 | 0 | 0 | 0 |
| 18:05 | 0 | 0 | 0 |
| 18:10 | 0 | 0 | 0 |
| 18:15 | 0 | 0 | 0 |
| 18:20 | 0 | 0 | 0 |
| 18:25 | 0 | 0 | 0 |
| 18:30 | 0 | 0 | 0 |
| 18:35 | 0 | 0 | 0 |
| 18:40 | 0 | 0 | 0 |
| 18:45 | 0 | 0 | 0 |
| 18:50 | 0 | 0 | 0 |
| 18:55 | 0 | 0 | 0 |
| 19:00 | 0 | 0 | 0 |
| MAX QUEUE | 0 | 1 | 0 |

Technical Note 02



Appendix B: 2011 Census Travel to Work O-D Data

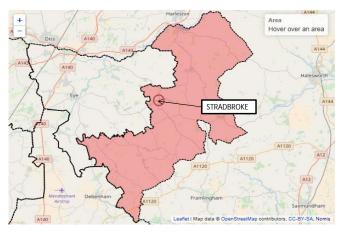
2011 Census Travel to Work O-D Data Source: http://commute.datashine.org.uk/

Outgoing (Residential)

| Home | Work | Number | B1118 (N) | B1117 (E) | B1118 (S) | B1117 |
|-----------------|---------------------|--------|-----------|-----------|-----------|-------|
| Mid Suffolk 003 | No fixed place | 346 | - | - | - | - |
| Mid Suffolk 003 | Mid Suffolk 003 | 281 | 30% | 20% | 30% | 20% |
| Mid Suffolk 003 | Suffolk Coastal 002 | 201 | | 50% | 50% | |
| Mid Suffolk 003 | Mid Suffolk 001 | 165 | 50% | | | 50% |
| Mid Suffolk 003 | South Norfolk 013 | 92 | 100% | | | |
| Mid Suffolk 003 | South Norfolk 015 | 80 | 100% | | | |
| Mid Suffolk 003 | Mid Suffolk 007 | 59 | | | 50% | 50% |
| Mid Suffolk 003 | Mid Suffolk 010 | 48 | 100% | | | |
| Mid Suffolk 003 | South Norfolk 014 | 35 | 100% | | | |
| Mid Suffolk 003 | Suffolk Coastal 010 | 32 | | 100% | | |
| Mid Suffolk 003 | Waveney 015 | 31 | 50% | 50% | | |
| Mid Suffolk 003 | Suffolk Coastal 001 | 30 | | 100% | | |
| Mid Suffolk 003 | Mid Suffolk 011 | 27 | 50% | | | 50% |
| Mid Suffolk 003 | Suffolk Coastal 004 | 27 | | 100% | | |
| Mid Suffolk 003 | Suffolk Coastal 008 | 25 | | 100% | | |
| Mid Suffolk 003 | St Edmundsbury 006 | 24 | 100% | | | |
| Mid Suffolk 003 | Waveney 013 | 24 | 100% | | | |
| Mid Suffolk 003 | Ipswich 007 | 23 | | 50% | 50% | |
| Mid Suffolk 003 | Ipswich 010 | 23 | | 50% | 50% | |
| Mid Suffolk 003 | Mid Suffolk 002 | 21 | 100% | 0070 | 0070 | |
| Mid Suffolk 003 | Suffolk Coastal 006 | 18 | 10070 | 50% | 50% | |
| Mid Suffolk 003 | Suffolk Coastal 005 | 18 | | 100% | 3070 | |
| Mid Suffolk 003 | Ipswich 014 | 18 | | 50% | 50% | |
| Mid Suffolk 003 | Suffolk Coastal 003 | 17 | | 100% | 3070 | |
| Mid Suffolk 003 | Babergh 005 | 16 | | 50% | 50% | |
| Mid Suffolk 003 | Ipswich 003 | 16 | | 50% | 50% | |
| Mid Suffolk 003 | Mid Suffolk 012 | 15 | 50% | 3070 | 3076 | 50% |
| | Ipswich 009 | 14 | 3076 | E00/ | F00/ | 3070 |
| Mid Suffolk 003 | | | E00/ | 50% | 50% | 50% |
| Mid Suffolk 003 | Mid Suffolk 005 | 13 | 50% | | | 50% |
| Mid Suffolk 003 | St Edmundsbury 007 | 13 | 100% | E00/ | E00/ | |
| Mid Suffolk 003 | Ipswich 004 | 13 | 1000/ | 50% | 50% | |
| Mid Suffolk 003 | South Norfolk 012 | 12 | 100% | | | |
| Mid Suffolk 003 | South Norfolk 011 | 12 | 100% | | | |
| Mid Suffolk 003 | Norwich 007 | 11 | 100% | | | |
| Mid Suffolk 003 | Waveney 011 | 11 | 50% | 50% | | |
| Mid Suffolk 003 | St Edmundsbury 009 | 11 | 100% | | | |
| Mid Suffolk 003 | Mid Suffolk 009 | 11 | 100% | | | |
| Mid Suffolk 003 | Suffolk Coastal 007 | 10 | | 100% | | |
| Mid Suffolk 003 | Huntingdonshire 010 | 10 | 100% | | | |
| Mid Suffolk 003 | St Edmundsbury 001 | 10 | 100% | | | |
| Mid Suffolk 003 | South Norfolk 002 | 10 | 100% | | | |
| Mid Suffolk 003 | Breckland 014 | 9 | 100% | | | |
| Mid Suffolk 003 | St Edmundsbury 005 | 8 | 100% | | | |
| Mid Suffolk 003 | Waveney 010 | 7 | 50% | 50% | | |
| Mid Suffolk 003 | Suffolk Coastal 012 | 7 | | 100% | | |
| Mid Suffolk 003 | Norwich 014 | 6 | 100% | | | |
| Mid Suffolk 003 | Mid Suffolk 006 | 6 | 100% | | | |
| Mid Suffolk 003 | Waveney 014 | 6 | | 100% | | |
| Mid Suffolk 003 | St Edmundsbury 008 | 6 | 100% | | | |
| Mid Suffolk 003 | Norwich 010 | 6 | 100% | | | |
| Mid Suffolk 003 | Suffolk Coastal 015 | 6 | | 100% | | |
| Mid Suffolk 003 | Breckland 015 | 6 | 100% | | | |
| Mid Suffolk 003 | Broadland 016 | 6 | 100% | | | |
| | OTAL: | 1606 | 695.8 | 429.7 | 284.8 | 195.7 |
| 10 | * · · · · · · · | 1000 | 075.0 | 727.1 | 204.0 | 173.7 |

Queen Street (North): Queen Street (South):

MID SUFFOLK 003 MSOA



Incoming (Employment)

| Home | Work | Number | B1118 (N) | B1117 (E) | B1118 (S) | B1117 |
|---------------------|-----------------|--------|-----------|-----------|-----------|-------|
| Mid Suffolk 003 | Mid Suffolk 003 | 281 | 30% | 20% | 30% | 20% |
| Mid Suffolk 001 | Mid Suffolk 003 | 99 | 50% | 0% | 0% | 50% |
| South Norfolk 013 | Mid Suffolk 003 | 89 | 100% | 0% | 0% | 0% |
| Suffolk Coastal 002 | Mid Suffolk 003 | 55 | 0% | 50% | 50% | 0% |
| South Norfolk 014 | Mid Suffolk 003 | 42 | 100% | 0% | 0% | 0% |
| Mid Suffolk 007 | Mid Suffolk 003 | 32 | 0% | 0% | 50% | 50% |
| Suffolk Coastal 001 | Mid Suffolk 003 | 26 | 0% | 100% | 0% | 0% |
| South Norfolk 015 | Mid Suffolk 003 | 26 | 100% | 0% | 0% | 0% |
| Waveney 013 | Mid Suffolk 003 | 25 | 100% | 0% | 0% | 0% |
| Ipswich 006 | Mid Suffolk 003 | 16 | | 50% | 50% | |
| Mid Suffolk 002 | Mid Suffolk 003 | 16 | 100% | 0% | 0% | 0% |
| South Norfolk 012 | Mid Suffolk 003 | 15 | 100% | 0% | 0% | 0% |
| South Norfolk 011 | Mid Suffolk 003 | 14 | 100% | 0% | 0% | 0% |
| South Norfolk 010 | Mid Suffolk 003 | 11 | 100% | | | |
| Suffolk Coastal 007 | Mid Suffolk 003 | 11 | 0% | 100% | 0% | 0% |
| Mid Suffolk 005 | Mid Suffolk 003 | 10 | 50% | 0% | 0% | 50% |
| Mid Suffolk 009 | Mid Suffolk 003 | 10 | 100% | 0% | 0% | 0% |
| Suffolk Coastal 003 | Mid Suffolk 003 | 9 | 0% | 100% | 0% | 0% |
| Mid Suffolk 006 | Mid Suffolk 003 | 9 | 100% | 0% | 0% | 0% |
| Suffolk Coastal 004 | Mid Suffolk 003 | 8 | 0% | 100% | 0% | 0% |
| Ipswich 008 | Mid Suffolk 003 | 7 | | 50% | 50% | |
| Suffolk Coastal 008 | Mid Suffolk 003 | 7 | 0% | 100% | 0% | 0% |
| Waveney 011 | Mid Suffolk 003 | 6 | 50% | 50% | 0% | 0% |
| Waveney 010 | Mid Suffolk 003 | 6 | 50% | 50% | 0% | 0% |
| Waveney 007 | Mid Suffolk 003 | 6 | 50% | 50% | | |
| Suffolk Coastal 010 | Mid Suffolk 003 | 6 | 0% | 100% | 0% | 0% |
| South Norfolk 008 | Mid Suffolk 003 | 6 | 100% | | | |
| Suffolk Coastal 006 | Mid Suffolk 003 | 6 | 0% | 50% | 50% | 0% |
| Suffolk Coastal 005 | Mid Suffolk 003 | 6 | 0% | 100% | 0% | 0% |
| lpswich 007 | Mid Suffolk 003 | 6 | 0% | 50% | 50% | 0% |
| Breckland 013 | Mid Suffolk 003 | 6 | 100% | | | |
| TOT | AL: | 872 | 416.8 | 183.2 | 145.3 | 126.7 |
| | | | 47.8% | 21.0% | 16.7% | 14.5% |

Queen Street (North): 47.8% Queen Street (South): 52.2%

Technical Note 02



Appendix C: Queen Street/Mill Lane PICADY Results (Existing Layout)

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 [] © Copyright TRL Limited, 2018

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Filename: Junctions 9 Queen Street Mill Lane Existing Layout AM and PM assessment 070218.j9
Path: P:\Transport Consultancy Projects\Job Folders_605\60538603 - Stradbroke NP Access Review\02 Further Transport Work\10 - Technical\PICADY\Junction Modelling
Report generation date: 07/02/2018 09:53:12

Summary of junction performance

| | Weekday Al | M peak (08 | Weekday PM peak (1645-1745) | | | | | |
|-------------|-------------|------------|-----------------------------|---------|----------------|------------|------|-----|
| | Queue (Veh) | Delay (s) | RFC | LOS | Queue (Veh) | Delay (s) | RFC | LOS |
| | | Existing J | unctio | on - 20 | 018 Existing S | cenario | | |
| Stream B-C | 0.0 | 5.76 | 0.01 | Α | 0.0 | 5.93 | 0.03 | Α |
| Stream B-A | 0.0 | 14.05 | 0.00 | В | 0.0 | 7.00 | 0.02 | Α |
| Stream C-AB | 0.0 | 6.56 | 0.03 | Α | 0.0 | 0.00 | 0.00 | Α |
| Stream C-A | | | | | | | | |
| Stream A-B | | | | | | | | |
| Stream A-C | | | | | | | | |
| | Exi | sting Junc | tion - | 2036 | Future Baseli | ne Scenari | 0 | |
| Stream B-C | 0.0 | 5.80 | 0.01 | Α | 0.0 | 5.99 | 0.03 | Α |
| Stream B-A | 0.0 | 14.28 | 0.00 | В | 0.0 | 7.12 | 0.02 | Α |
| Stream C-AB | 0.0 | 6.60 | 0.03 | Α | 0.0 | 0.00 | 0.00 | Α |
| Stream C-A | | | | | | | | |
| Stream A-B | | | | | | | | |
| Stream A-C | | | | | | | | |

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle

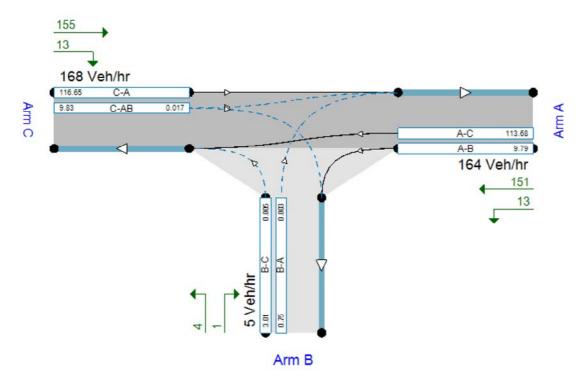
File summary

File Description

| Title | Stradbroke - Junction Modelling |
|-------------|--|
| Location | Queen Street / Mill Lane T-junction - Stradbroke |
| Site number | |
| Date | 02/02/2018 |
| Version | |
| Status | (new file) |
| Identifier | |
| Client | Stradbroke Parish Council |
| Jobnumber | 60538603 |
| Enumerator | NA"joshua.barrett |
| Description | |

Units

| Distance units | Speed units | Traffic units input | Traffic units results | Flow units | Average delay units | Total delay units | Rate of delay units |
|----------------|-------------|---------------------|-----------------------|------------|---------------------|-------------------|---------------------|
| m | kph | Veh | Veh | perHour | s | -Min | perMin |



Showing original traffic demand (Veh/hr), Streams (upstreams) show Total Demand (Veh/hr); Streams (downstreams) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

| Calculate Queue Percentiles | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) |
|-----------------------------|-----------------------------|---------------|-----------------------------|-----------------------|
| | | 0.85 | 36.00 | 20.00 |

Demand Set Summary

| Scenario name | Time Period name | Traffic profile type | Model start time (HH:mm) | Model finish time (HH:mm) | Time segment length (min) |
|-------------------------------|-----------------------------|----------------------|--------------------------|---------------------------|---------------------------|
| 2018 Existing Scenario | Weekday AM peak (0800-0900) | ONE HOUR | 07:45 | 09:15 | 15 |
| 2018 Existing Scenario | Weekday PM peak (1645-1745) | ONE HOUR | 16:30 | 18:00 | 15 |
| 2036 Future Baseline Scenario | Weekday AM peak (0800-0900) | ONE HOUR | 07:45 | 09:15 | 15 |
| 2036 Future Baseline Scenario | Weekday PM peak (1645-1745) | ONE HOUR | 16:30 | 18:00 | 15 |

Existing Junction - 2018 Existing Scenario, Weekday AM peak (0800-0900)

Data Errors and Warnings

No errors or warnings

Analysis Set Details

| ID | Name | Description | Network flow scaling factor (%) | |
|-----------|-------------------|--------------------------|---------------------------------|--|
| A1 | Existing Junction | Queen Street / Mill Lane | 100.000 | |

Junction Network

Junctions

| Junction | Name | Junction Type | Major road direction | Junction Delay (s) | Junction LOS |
|----------|--------------------------|---------------|----------------------|--------------------|--------------|
| 1 | Queen Street / Mill Lane | T-Junction | Two-way | 0.44 | Α |

Junction Network Options

| ı | Driving side | Lighting |
|---|--------------|----------------|
| ı | Left | Normal/unknown |

Arms

Arms

| Arı | n Name | Description | Arm type |
|-----|--------------------|-------------|----------|
| Α | Queen Street (Sou | th) | Major |
| В | Mill Lane (West) | | Minor |
| С | Queen Street (Nort | h) | Major |

Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right turn bay | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|--------------------|-------------------------------|---------|----------------------|
| С | 6.30 | | | 118.0 | ✓ | 1.00 |

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

| Ar | n Minor arm type | Width at give- way (m) | Width at 5m (m) | Width at 10m (m) | Width at 15m (m) | Width at 20m (m) | Estimate flare length | Flare length (PCU) | Visibility to left (m) | Visibility to right (m) |
|----|---------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|-----------------------|--------------------|------------------------|-------------------------|
| Е | One lane plus flare | 10.00 | 4.20 | 2.90 | 2.90 | 2.90 | | 1.00 | 22 | 16 |

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

| Junction | Stream | Intercept (Veh/hr) | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|----------|--------|-----------------------|---------------------|---------------------|---------------------|---------------------|
| 1 | B-A | 591.346 | 0.106 | 0.269 | 0.169 | 0.384 |
| | | | | | | |

| 1 | B-C | 671.025 | 0.102 | 0.257 | - | - |
|---|-----|---------|-------|-------|---|---|
| 1 | C-B | 642.298 | 0.246 | 0.246 | - | - |

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Model start time (HH:mm) | Model finish time (HH:mm) | Time segment length (min) |
|----|------------------------|-----------------------------|----------------------|--------------------------|---------------------------|---------------------------|
| D1 | 2018 Existing Scenario | Weekday AM peak (0800-0900) | ONE HOUR | 07:45 | 09:15 | 15 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓ | ✓ | HV Percentages | 2.00 |

Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (Veh/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| Α | | ✓ | 148.00 | 100.000 |
| В | | ✓ | 5.00 | 100.000 |
| С | | ✓ | 152.00 | 100.000 |

Origin-Destination Data

Demand (Veh/hr)

| | То | | | | | | |
|------|----|---------|--------|---------|--|--|--|
| From | | Α | В | С | | | |
| | Α | 0.000 | 13.000 | 135.000 | | | |
| | В | 1.000 | 0.000 | 4.000 | | | |
| | С | 139.000 | 13.000 | 0.000 | | | |

Vehicle Mix

Heavy Vehicle proportion

| | То | | | |
|--------|----|-----|---|---|
| | | Α | В | С |
| From | Α | 0 | 0 | 3 |
| FIOIII | В | 100 | 0 | 0 |
| | С | 9 | 8 | 0 |

Detailed Demand Data

Demand for each time segment

| | (PCU/hr) |
|-------------------------|----------|
| A 111.42 114.47 | |
| 07:45-08:00 B 3.76 4.52 | |
| C 114.43 124.19 | |
| A 133.05 136.69 | |
| 08:00-08:15 B 4.49 5.39 | |

| | С | 136.64 | 148.29 |
|-------------|---|--------|--------|
| | Α | 162.95 | 167.41 |
| 08:15-08:30 | В | 5.51 | 6.61 |
| | С | 167.36 | 181.62 |
| | Α | 162.95 | 167.41 |
| 08:30-08:45 | В | 5.51 | 6.61 |
| | С | 167.36 | 181.62 |
| | Α | 133.05 | 136.69 |
| 08:45-09:00 | В | 4.49 | 5.39 |
| | С | 136.64 | 148.29 |
| | Α | 111.42 | 114.47 |
| 09:00-09:15 | В | 3.76 | 4.52 |
| | С | 114.43 | 124.19 |

Results

Results Summary for whole modelled period

| Stream | Max RFC | Max delay (s) | Max Queue (Veh) | Max LOS |
|--------|---------|---------------|-----------------|---------|
| B-C | 0.01 | 5.76 | 0.0 | Α |
| B-A | 0.00 | 14.05 | 0.0 | В |
| C-AB | 0.03 | 6.56 | 0.0 | Α |
| C-A | | | | |
| A-B | | | | |
| A-C | | | | |

Main Results for each time segment

Main results: (07:45-08:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| В-С | 3.01 | 642.72 | 0.005 | 2.99 | 0.0 | 5.626 | Α |
| B-A | 0.75 | 269.46 | 0.003 | 0.74 | 0.0 | 13.396 | В |
| C-AB | 9.83 | 572.67 | 0.017 | 9.76 | 0.0 | 6.395 | Α |
| C-A | 104.61 | | | 104.61 | | | |
| A-B | 9.79 | | | 9.79 | | | |
| A-C | 101.64 | | | 101.64 | | | |

Main results: (08:00-08:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.60 | 637.21 | 0.006 | 3.59 | 0.0 | 5.681 | Α |
| B-A | 0.90 | 264.36 | 0.003 | 0.90 | 0.0 | 13.663 | В |
| C-AB | 11.76 | 568.61 | 0.021 | 11.74 | 0.0 | 6.464 | Α |
| C-A | 124.89 | | | 124.89 | | | |
| A-B | 11.69 | | | 11.69 | | | |
| A-C | 121.36 | | | 121.36 | | | |

Main results: (08:15-08:30)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 4.40 | 629.60 | 0.007 | 4.40 | 0.0 | 5.757 | Α |
| B-A | 1.10 | 257.32 | 0.004 | 1.10 | 0.0 | 14.049 | В |
| C-AB | 14.44 | 563.29 | 0.026 | 14.42 | 0.0 | 6.558 | Α |
| C-A | 152.91 | | | 152.91 | | | |
| A-B | 14.31 | | | 14.31 | | | |
| A-C | 148.64 | | | 148.64 | | | |

Main results: (08:30-08:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 4.40 | 629.60 | 0.007 | 4.40 | 0.0 | 5.757 | Α |
| B-A | 1.10 | 257.32 | 0.004 | 1.10 | 0.0 | 14.049 | В |
| C-AB | 14.44 | 563.30 | 0.026 | 14.44 | 0.0 | 6.558 | Α |
| | | | | | | | |

| C-A | 152.91 | 152.91 | | |
|-----|--------|--------|--|--|
| A-B | 14.31 | 14.31 | | |
| A-C | 148.64 | 148.64 | | |

Main results: (08:45-09:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.60 | 637.21 | 0.006 | 3.60 | 0.0 | 5.681 | Α |
| B-A | 0.90 | 264.35 | 0.003 | 0.90 | 0.0 | 13.666 | В |
| C-AB | 11.76 | 568.62 | 0.021 | 11.78 | 0.0 | 6.464 | Α |
| C-A | 124.89 | | | 124.89 | | | |
| A-B | 11.69 | | | 11.69 | | | |
| A-C | 121.36 | | | 121.36 | | | |

Main results: (09:00-09:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.01 | 642.71 | 0.005 | 3.02 | 0.0 | 5.629 | Α |
| B-A | 0.75 | 269.44 | 0.003 | 0.76 | 0.0 | 13.400 | В |
| C-AB | 9.83 | 572.68 | 0.017 | 9.84 | 0.0 | 6.398 | Α |
| C-A | 104.61 | | | 104.61 | | | |
| A-B | 9.79 | | | 9.79 | | | |
| A-C | 101.64 | | | 101.64 | | | |

Existing Junction - 2018 Existing Scenario, Weekday PM peak (1645-1745)

Data Errors and Warnings

No errors or warnings

Analysis Set Details

| ID | Name | Description | Network flow scaling factor (%) | | |
|----|-------------------|--------------------------|---------------------------------|--|--|
| A1 | Existing Junction | Queen Street / Mill Lane | 100.000 | | |

Junction Network

Junctions

| Junction | Name | Junction Type | Major road direction | Junction Delay (s) | Junction LOS |
|----------|--------------------------|---------------|----------------------|--------------------|--------------|
| 1 | Queen Street / Mill Lane | T-Junction | Two-way | 0.52 | А |

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Model start time (HH:mm) | Model finish time (HH:mm) | Time segment length (min) | | |
|-----|----------------------------|-------------------------------|----------------------|--------------------------|---------------------------|---------------------------|--|--|
| D2 | 2018 Existing Scenario | Weekday PM peak (1645-1745) | ONE HOUR | 16:30 | 18:00 | 15 | | |
| | | | | | | | | |
| Vel | nicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU |) | | | |

HV Percentages

2.00

Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (Veh/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| Α | | ✓ | 158.00 | 100.000 |
| В | | ✓ | 24.00 | 100.000 |
| С | | ✓ | 107.00 | 100.000 |

Origin-Destination Data

Demand (Veh/hr)

| | То | | | | | | | | |
|------|----|---------|-------|---------|--|--|--|--|--|
| From | | Α | В | С | | | | | |
| | Α | 0.000 | 5.000 | 153.000 | | | | | |
| | В | 9.000 | 0.000 | 15.000 | | | | | |
| | С | 107.000 | 0.000 | 0.000 | | | | | |

Vehicle Mix

Heavy Vehicle proportion

| | То | | | | | | |
|------|----|---|---|---|--|--|--|
| From | | Α | В | С | | | |
| | Α | 0 | 0 | 2 | | | |
| | В | 0 | 0 | 0 | | | |
| | С | 3 | 0 | 0 | | | |

Detailed Demand Data

Demand for each time segment

| Time Segment | Arm | Demand (Veh/hr) | Demand in PCU (PCU/hr) |
|--------------|-----|-----------------|------------------------|
| | Α | 118.95 | 121.25 |
| 16:30-16:45 | В | 18.07 | 18.07 |
| | С | 80.56 | 82.81 |
| | Α | 142.04 | 144.79 |
| 16:45-17:00 | В | 21.58 | 21.58 |
| | С | 96.19 | 98.88 |
| 17:00-17:15 | Α | 173.96 | 177.33 |
| | В | 26.42 | 26.42 |
| | С | 117.81 | 121.11 |
| | Α | 173.96 | 177.33 |
| 17:15-17:30 | В | 26.42 | 26.42 |
| | С | 117.81 | 121.11 |
| | Α | 142.04 | 144.79 |
| 17:30-17:45 | В | 21.58 | 21.58 |
| | С | 96.19 | 98.88 |
| | Α | 118.95 | 121.25 |
| 17:45-18:00 | В | 18.07 | 18.07 |
| | С | 80.56 | 82.81 |

Results

Results Summary for whole modelled period

| Stream | Max RFC | Max delay (s) | Max Queue (Veh) | Max LOS |
|--------|---------|---------------|-----------------|---------|
| B-C | 0.03 | 5.93 | 0.0 | Α |
| В-А | 0.02 | 7.00 | 0.0 | Α |
| C-AB | 0.00 | 0.00 | 0.0 | Α |
| C-A | | | | |
| A-B | | | | |
| A-C | | | | |

Main Results for each time segment

Main results: (16:30-16:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 11.29 | 638.50 | 0.018 | 11.22 | 0.0 | 5.739 | Α |
| B-A | 6.78 | 545.38 | 0.012 | 6.73 | 0.0 | 6.683 | Α |
| C-AB | 0.00 | 1225.03 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 80.56 | | | 80.56 | | | |
| A-B | 3.76 | | | 3.76 | | | |
| A-C | 115.19 | | | 115.19 | | | |

Main results: (16:45-17:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 13.48 | 632.16 | 0.021 | 13.47 | 0.0 | 5.818 | Α |
| B-A | 8.09 | 536.45 | 0.015 | 8.08 | 0.0 | 6.812 | Α |
| C-AB | 0.00 | 1213.47 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 96.19 | | | 96.19 | | | |
| A-B | 4.49 | | | 4.49 | | | |
| A-C | 137.54 | | | 137.54 | | | |

Main results: (17:00-17:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 16.52 | 623.39 | 0.026 | 16.49 | 0.0 | 5.931 | Α |
| B-A | 9.91 | 524.11 | 0.019 | 9.89 | 0.0 | 7.000 | Α |
| C-AB | 0.00 | 1197.49 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 117.81 | | | 117.81 | | | |
| A-B | 5.51 | | | 5.51 | | | |
| A-C | 168.46 | | | 168.46 | | | |

Main results: (17:15-17:30)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 16.52 | 623.39 | 0.026 | 16.51 | 0.0 | 5.931 | Α |
| В-А | 9.91 | 524.11 | 0.019 | 9.91 | 0.0 | 7.000 | Α |
| C-AB | 0.00 | 1197.49 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 117.81 | | | 117.81 | | | |
| A-B | 5.51 | | | 5.51 | | | |
| A-C | 168.46 | | | 168.46 | | | |

Main results: (17:30-17:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 13.48 | 632.15 | 0.021 | 13.51 | 0.0 | 5.818 | Α |
| B-A | 8.09 | 536.45 | 0.015 | 8.11 | 0.0 | 6.815 | Α |
| C-AB | 0.00 | 1213.47 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 96.19 | | | 96.19 | | | |
| A-B | 4.49 | | | 4.49 | | | |
| A-C | 137.54 | | | 137.54 | | | |

Main results: (17:45-18:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 11.29 | 638.49 | 0.018 | 11.31 | 0.0 | 5.741 | Α |
| B-A | 6.78 | 545.38 | 0.012 | 6.79 | 0.0 | 6.683 | Α |
| C-AB | 0.00 | 1225.03 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 80.56 | | | 80.56 | | | |
| A-B | 3.76 | | | 3.76 | | | |
| | | | | | | | |

| A-C | 115.19 | | 115.19 | | |
|-----|--------|--|--------|--|--|

Existing Junction - 2036 Future Baseline Scenario, Weekday AM peak (0800-0900)

Data Errors and Warnings

No errors or warnings

Analysis Set Details

| ID | Name | Description | Network flow scaling factor (%) |
|----|-------------------|--------------------------|---------------------------------|
| A1 | Existing Junction | Queen Street / Mill Lane | 100.000 |

Junction Network

Junctions

| Junction | Name | Junction Type | Major road direction | Junction Delay (s) | Junction LOS |
|----------|--------------------------|---------------|----------------------|--------------------|--------------|
| 1 | Queen Street / Mill Lane | T-Junction | Two-way | 0.41 | Α |

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

| ID Scenario name | | Time Period name | ne Traffic profile t | | type | Model start time (HH:m | m) Model finish time (HH:mm) | Time segment length (min) |
|----------------------------------|----------------------------|--------------------------------|----------------------|-------------|-----------------------|------------------------|------------------------------|---------------------------|
| D3 2036 Future Baseline Scenario | | enario Weekday AM peak (0800 | -0900) | ONE HOU | R | 07:45 | 09:15 | 15 |
| | | | | | | | | |
| Ver | nicle mix varies over turn | Vehic | le mix source | PCU | Factor for a HV (PCU) | | | |
| | √ | ✓ | HVI | Percentages | | 2.00 | | |

Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (Veh/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| Α | | ✓ | 164.00 | 100.000 |
| В | | ✓ | 5.00 | 100.000 |
| С | | ✓ | 168.00 | 100.000 |

Origin-Destination Data

Demand (Veh/hr)

| | | То | | | | |
|--------|---|---------|--------|---------|--|--|
| | | Α | В | С | | |
| From | Α | 0.000 | 13.000 | 151.000 | | |
| FIOIII | В | 1.000 | 0.000 | 4.000 | | |
| | С | 155.000 | 13.000 | 0.000 | | |

Vehicle Mix

Heavy Vehicle proportion

| | То | | | | | | |
|----------|----|-----|---|---|--|--|--|
| | | Α | В | С | | | |
| - | Α | 0 | 0 | 3 | | | |
| From | В | 100 | 0 | 0 | | | |
| | С | 9 | 8 | 0 | | | |

Detailed Demand Data

Demand for each time segment

| Time Segment | Arm | Demand (Veh/hr) | Demand in PCU (PCU/hr) |
|--------------|-----|-----------------|------------------------|
| | Α | 123.47 | 126.88 |
| 07:45-08:00 | В | 3.76 | 4.52 |
| | С | 126.48 | 137.39 |
| | Α | 147.43 | 151.51 |
| 08:00-08:15 | В | 4.49 | 5.39 |
| | С | 151.03 | 164.05 |
| | Α | 180.57 | 185.55 |
| 08:15-08:30 | В | 5.51 | 6.61 |
| 08:15-08:30 | С | 184.97 | 200.92 |
| | Α | 180.57 | 185.55 |
| 08:30-08:45 | В | 5.51 | 6.61 |
| | С | 184.97 | 200.92 |
| | Α | 147.43 | 151.51 |
| 08:45-09:00 | В | 4.49 | 5.39 |
| | С | 151.03 | 164.05 |
| | Α | 123.47 | 126.88 |
| 09:00-09:15 | В | 3.76 | 4.52 |
| | С | 126.48 | 137.39 |

Results

Results Summary for whole modelled period

| , | | | | | |
|---|--------|---------|---------------|-----------------|---------|
| 5 | Stream | Max RFC | Max delay (s) | Max Queue (Veh) | Max LOS |
| | B-C | 0.01 | 5.80 | 0.0 | Α |
| | B-A | 0.00 | 14.28 | 0.0 | В |
| | C-AB | 0.03 | 6.60 | 0.0 | Α |
| | C-A | | | | |
| | A-B | | | | |
| | A-C | | | | |

Main Results for each time segment

Main results: (07:45-08:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.01 | 639.53 | 0.005 | 2.99 | 0.0 | 5.655 | Α |
| B-A | 0.75 | 266.68 | 0.003 | 0.74 | 0.0 | 13.536 | В |
| C-AB | 9.83 | 570.13 | 0.017 | 9.76 | 0.0 | 6.424 | Α |
| C-A | 116.65 | | | 116.65 | | | |
| A-B | 9.79 | | | 9.79 | | | |
| A-C | 113.68 | | | 113.68 | | | |

Main results: (08:00-08:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.60 | 633.41 | 0.006 | 3.59 | 0.0 | 5.715 | Α |
| B-A | 0.90 | 261.04 | 0.003 | 0.90 | 0.0 | 13.837 | В |
| C-AB | 11.77 | 565.64 | 0.021 | 11.75 | 0.0 | 6.498 | Α |
| C-A | 139.26 | | | 139.26 | | | |
| A-B | 11.69 | | | 11.69 | | | |
| A-C | 135.75 | | | 135.75 | | | |

Main results: (08:15-08:30)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 4.40 | 624.94 | 0.007 | 4.40 | 0.0 | 5.800 | Α |
| B-A | 1.10 | 253.25 | 0.004 | 1.10 | 0.0 | 14.276 | В |
| C-AB | 14.46 | 559.78 | 0.026 | 14.44 | 0.0 | 6.600 | Α |
| C-A | 170.51 | | | 170.51 | | | |
| A-B | 14.31 | | | 14.31 | | | |
| A-C | 166.25 | | | 166.25 | | | |

Main results: (08:30-08:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 4.40 | 624.94 | 0.007 | 4.40 | 0.0 | 5.800 | Α |
| B-A | 1.10 | 253.25 | 0.004 | 1.10 | 0.0 | 14.276 | В |
| C-AB | 14.46 | 559.79 | 0.026 | 14.46 | 0.0 | 6.603 | Α |
| C-A | 170.51 | | | 170.51 | | | |
| A-B | 14.31 | | | 14.31 | | | |
| A-C | 166.25 | | | 166.25 | | | |

Main results: (08:45-09:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.60 | 633.40 | 0.006 | 3.60 | 0.0 | 5.717 | Α |
| B-A | 0.90 | 261.03 | 0.003 | 0.90 | 0.0 | 13.838 | В |
| C-AB | 11.77 | 565.66 | 0.021 | 11.79 | 0.0 | 6.499 | Α |
| C-A | 139.26 | | | 139.26 | | | |
| А-В | 11.69 | | | 11.69 | | | |
| A-C | 135.75 | | | 135.75 | | | |

Main results: (09:00-09:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 3.01 | 639.53 | 0.005 | 3.02 | 0.0 | 5.655 | Α |
| B-A | 0.75 | 266.66 | 0.003 | 0.76 | 0.0 | 13.537 | В |
| C-AB | 9.83 | 570.14 | 0.017 | 9.85 | 0.0 | 6.427 | Α |
| C-A | 116.65 | | | 116.65 | | | |
| A-B | 9.79 | | | 9.79 | | | |
| | | | | | | | |

| A-C | 113.68 | | 113.68 | | |
|-----|--------|--|--------|--|--|

Existing Junction - 2036 Future Baseline Scenario, Weekday PM peak (1645-1745)

Data Errors and Warnings

No errors or warnings

Analysis Set Details

| ID | Name | Description | Network flow scaling factor (%) |
|-----------|-------------------|--------------------------|---------------------------------|
| A1 | Existing Junction | Queen Street / Mill Lane | 100.000 |

Junction Network

Junctions

| Junction | Name | Junction Type | Major road direction | Junction Delay (s) | Junction LOS |
|----------|--------------------------|---------------|----------------------|--------------------|--------------|
| 1 | Queen Street / Mill Lane | T-Junction | Two-way | 0.47 | А |

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

| ID | Scenario name | | Time Period name | | Traffic profile | type | Model start time (HH:mr |) Model finish time (HH:mm) | Time segment length (min) |
|-----|--|--|------------------|---------------|-----------------|-----------------------|-------------------------|-----------------------------|---------------------------|
| D4 | D4 2036 Future Baseline Scenario Weekday PM peak (1645-17 | | 1745) | ONE HOU | R | 16:30 | 18:00 | 15 | |
| | | | | | | | | | |
| Ver | Vehicle mix varies over turn Vehicle mix varies over entry Vehicle | | | le mix source | PCU | Factor for a HV (PCU) | | | |

HV Percentages

2.00

Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (Veh/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| Α | | ✓ | 177.00 | 100.000 |
| В | | ✓ | 24.00 | 100.000 |
| С | | ✓ | 121.00 | 100.000 |

Origin-Destination Data

Demand (Veh/hr)

| | То | | | | |
|--------|----|---------|-------|---------|--|
| | | Α | В | С | |
| From | Α | 0.000 | 5.000 | 172.000 | |
| FIOIII | В | 9.000 | 0.000 | 15.000 | |
| | С | 121.000 | 0.000 | 0.000 | |

Vehicle Mix

Heavy Vehicle proportion

| | То | | | | |
|----------|----|---|---|---|--|
| | | Α | В | С | |
| - | Α | 0 | 0 | 2 | |
| From | В | 0 | 0 | 0 | |
| | С | 3 | 0 | 0 | |

Detailed Demand Data

Demand for each time segment

| Time Segment | Arm | Demand (Veh/hr) | Demand in PCU (PCU/hr) |
|--------------|-----|-----------------|------------------------|
| | Α | 133.25 | 135.84 |
| 16:30-16:45 | В | 18.07 | 18.07 |
| | С | 91.10 | 93.65 |
| | Α | 159.12 | 162.21 |
| 16:45-17:00 | В | 21.58 | 21.58 |
| | С | 108.78 | 111.82 |
| | Α | 194.88 | 198.67 |
| 17:00-17:15 | В | 26.42 | 26.42 |
| | С | 133.22 | 136.95 |
| | Α | 194.88 | 198.67 |
| 17:15-17:30 | В | 26.42 | 26.42 |
| | С | 133.22 | 136.95 |
| | Α | 159.12 | 162.21 |
| 17:30-17:45 | В | 21.58 | 21.58 |
| | С | 108.78 | 111.82 |
| | Α | 133.25 | 135.84 |
| 17:45-18:00 | В | 18.07 | 18.07 |
| | С | 91.10 | 93.65 |

Results

Results Summary for whole modelled period

| ſ | Stream | Max RFC | Max delay (s) | Max Queue (Veh) | Max LOS |
|---|--------|---------|-----------------|------------------|---------|
| L | Stream | Wax KFC | iviax delay (5) | wax Queue (veii) | Wax LOS |
| | B-C | 0.03 | 5.99 | 0.0 | Α |
| | B-A | 0.02 | 7.12 | 0.0 | Α |
| Ī | C-AB | 0.00 | 0.00 | 0.0 | Α |
| Ī | C-A | | | | |
| Ī | A-B | | | | |
| Ī | A-C | | | | |

Main Results for each time segment

Main results: (16:30-16:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 11.29 | 634.75 | 0.018 | 11.22 | 0.0 | 5.773 | Α |
| B-A | 6.78 | 539.63 | 0.013 | 6.73 | 0.0 | 6.755 | Α |
| C-AB | 0.00 | 1217.87 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 91.10 | | | 91.10 | | | |
| A-B | 3.76 | | | 3.76 | | | |
| A-C | 129.49 | | | 129.49 | | | |

Main results: (16:45-17:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 13.48 | 627.67 | 0.021 | 13.47 | 0.0 | 5.860 | Α |
| B-A | 8.09 | 529.58 | 0.015 | 8.08 | 0.0 | 6.902 | Α |
| C-AB | 0.00 | 1204.91 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 108.78 | | | 108.78 | | | |
| A-B | 4.49 | | | 4.49 | | | |
| A-C | 154.62 | | | 154.62 | | | |

Main results: (17:00-17:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 16.52 | 617.89 | 0.027 | 16.49 | 0.0 | 5.985 | Α |
| B-A | 9.91 | 515.70 | 0.019 | 9.89 | 0.0 | 7.116 | Α |
| C-AB | 0.00 | 1187.01 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 133.22 | | | 133.22 | | | |
| A-B | 5.51 | | | 5.51 | | | |
| A-C | 189.38 | | | 189.38 | | | |

Main results: (17:15-17:30)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 16.52 | 617.89 | 0.027 | 16.51 | 0.0 | 5.985 | Α |
| B-A | 9.91 | 515.70 | 0.019 | 9.91 | 0.0 | 7.116 | Α |
| C-AB | 0.00 | 1187.01 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 133.22 | | | 133.22 | | | |
| A-B | 5.51 | | | 5.51 | | | |
| A-C | 189.38 | | | 189.38 | | | |

Main results: (17:30-17:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 13.48 | 627.67 | 0.021 | 13.51 | 0.0 | 5.863 | Α |
| B-A | 8.09 | 529.58 | 0.015 | 8.11 | 0.0 | 6.905 | Α |
| C-AB | 0.00 | 1204.91 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 108.78 | | | 108.78 | | | |
| A-B | 4.49 | | | 4.49 | | | |
| A-C | 154.62 | | | 154.62 | | | |

Main results: (17:45-18:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 11.29 | 634.73 | 0.018 | 11.31 | 0.0 | 5.776 | Α |
| B-A | 6.78 | 539.63 | 0.013 | 6.79 | 0.0 | 6.755 | Α |
| C-AB | 0.00 | 1217.87 | 0.000 | 0.00 | 0.0 | 0.000 | Α |
| C-A | 91.10 | | | 91.10 | | | |
| A-B | 3.76 | | | 3.76 | | | |
| | | | | | | | |

| A-C | 129.49 | | 129.49 | | |
|-----|--------|--|--------|--|--|

Technical Note 02



Appendix D: TEMPro Outputs

Dataset Version: 70

Result Type: Trip ends by time period

2018 Base Year: 2036 Future Year: Trip Purpose Group: All purposes

Weekday AM peak period (0700 - 0959) Time Period:

Origin/Destination Trip End Type:

Alternative Assumptions Applied:

| Area | | Current As | ssumptions | s Alternative Assumptions | | | | |
|----------------------|---------|------------|------------|---------------------------|---------|-----------|-----------|-------------|
| | Base HH | Base Jobs | Future HH | Future Jobs | Base HH | Base Jobs | Future HH | Future Jobs |
| Mid Suffolk 003 (E02 | 3373 | 2899 | 3692 | 3087 | 3373 | 2899 | 3692 | 3087 |

Area Local Growth Figure Level Mid Suffolk 1.12249555 (Rural Minor) Authority E02006263 1.12610133 (Rural Minor) Mid Suffolk 003

Growth Factor

| Growth Factor | Growth Factor | | | | | |
|---------------|------------------|--------------------|--|--|--|--|
| | Area Description | All purposes | | | | |
| Level | Name | Origin Destination | | | | |
| GB | GB | 1.1304 1.1304 | | | | |
| Authority | Mid Suffolk | 1.0215 1.1265 | | | | |
| E02006263 | Mid Suffolk 003 | 1.0263 1.1286 | | | | |

Future Year - Base Year Car Driver

| Area I | All purposes | | |
|-----------|-----------------|-----------|-------------|
| Level | Name | Origin | Destination |
| GB | GB | 1,875,226 | 1,875,226 |
| Authority | Mid Suffolk | 567 | 3,004 |
| E02006263 | Mid Suffolk 003 | 53 | 196 |

Car Driver Base Year

| Area I | All purposes | | | |
|-----------|-----------------|---------------|------------|--|
| Level | Name | Name Origin [| | |
| GB | GB | 14,379,444 | 14,379,444 | |
| Authority | Mid Suffolk | 26,432 | 23,744 | |
| E02006263 | Mid Suffolk 003 | 2,009 | 1,525 | |

Future Year Car Driver

| · ata. o · oa. | | Odi | our Billion | | |
|----------------|------------------|------------|-------------|--|--|
| | Area Description | | | | |
| Level | Name | Origin | Destination | | |
| GB | GB | 16,254,670 | 16,254,670 | | |
| Authority | Mid Suffolk | 26,999 | 26,747 | | |
| E02006263 | Mid Suffolk 003 | 2,062 | 1,721 | | |

Dataset Version:

Result Type: Trip ends by time period

Base Year: 2018 Future Year: 2036 Trip Purpose Group:

All purposes Weekday PM peak period (1600 - 1859) Origin/Destination Time Period:

Trip End Type:

Alternative Assumptions Applied:

| | Current Assumptions | | | | Alternative Assumptions | | | |
|----------------------|---------------------|-----------|-----------|-------------|-------------------------|-----------|-----------|-------------|
| Area | Base HH | Base Jobs | Future HH | Future Jobs | Base HH | Base Jobs | Future HH | Future Jobs |
| Mid Suffolk 003 (E02 | 3373 | 2899 | 3692 | 3087 | 3373 | 2899 | 3692 | 3087 |

Local Growth Figure 1.12484715 (Rural Minor) Level Area Mid Suffolk Authority E02006263 Mid Suffolk 003 1.13002066 (Rural Minor)

Growth Factor

| Growth Factor | Car Driver | | | | |
|---------------|------------|-----------------|--------------|-------------|--|
| | Area De | escription | All purposes | | |
| Level | | Name | Origin | Destination | |
| GB | G | GB | 1.1308 | 1.1308 | |
| Authority | N | Mid Suffolk | 1.1101 | 1.0424 | |
| F02006263 | ٨ | Mid Suffolk 003 | 1 1135 | 1 0489 | |

Future Year - Base Year Car Driver

| Area | All purposes | | |
|-----------|-----------------|-----------|-------------|
| Level | Name | Origin | Destination |
| GB | GB | 2,039,269 | 2,039,269 |
| Authority | Mid Suffolk | 2,830 | 1,160 |
| E02006263 | Mid Suffolk 003 | 195 | 100 |

Base Year Car Driver

| Area I | All purposes | | |
|-----------|-----------------|-------------|------------|
| Level | Origin | Destination | |
| GB | GB | 15,592,415 | 15,592,415 |
| Authority | Mid Suffolk | 25,699 | 27,348 |
| E02006263 | Mid Suffolk 003 | 1,720 | 2,050 |

Future Year Car Driver

| Area I | All purposes | | |
|-----------|-----------------|------------|-------------|
| Level | Name | Origin | Destination |
| GB | GB | 17,631,684 | 17,631,684 |
| Authority | Mid Suffolk | 28,529 | 28,508 |
| E02006263 | Mid Suffolk 003 | 1,915 | 2,150 |

Technical Note 02



Appendix E: Grove Farm Site Access



Technical Note 02



Appendix F: TRICS Outputs (Commercial)

1 days

Calculation Reference: AUDIT-204610-180119-0140

TRIP RATE CALCULATION SELECTION PARAMETERS:

: 02 - EMPLOYMENT Category VEHICLES : B - BUSINESS PARK

05

Selected regions and areas:

EAST ANGLIA CAMBRIDGESHIRE CA

EAST MIDLANDS LN LINCOLNSHIRE 1 days

06 WEST MIDLANDS

> HEREFORDSHIRE 1 days HE WEST MIDLANDS 1 days

YORKSHIRE & NORTH LINCOLNSHIRE 07

> WY WEST YORKSHIRE 1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area

Actual Range: 5000 to 18808 (units: sqm) Range Selected by User: 5000 to 50000 (units: sqm)

Public Transport Provision:

Include all surveys Selection by:

01/01/09 to 28/11/16 Date Range:

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Tuesday 1 days Wednesday 2 days 1 days Thursday Friday 1 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 5 days Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:

Edge of Town 4 Neighbourhood Centre (PPS6 Local Centre)

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Industrial Zone 1 Commercial Zone 1 Development Zone 1 Village 1 No Sub Category 1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

B1 5 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:

| 1,001 to 5,000 | 1 days |
|------------------|--------|
| 5,001 to 10,000 | 2 days |
| 10,001 to 15,000 | 1 days |
| 15,001 to 20,000 | 1 days |

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

| 25,001 to 50,000 | 1 days |
|--------------------|--------|
| 50,001 to 75,000 | 1 days |
| 125,001 to 250,000 | 2 days |
| 250,001 to 500,000 | 1 days |

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

| 0.6 to 1.0 | 2 days |
|------------|--------|
| 1.1 to 1.5 | 3 days |

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No 5 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 5 days

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1 CA-02-B-02 BUSINESS PARK CAMBRIDGESHIRE

LYNCH WOOD

PETERBOROUGH Edge of Town Commercial Zone

Total Gross floor area: 12800 sqm

Survey date: WEDNESDAY 19/10/16 Survey Type: MANUAL

2 HE-02-B-01 BUSINESS PARK HEREFORDSHIRE

A4103 WHITESTONE NEAR HEREFORD Neighbourhood Centre (PPS6 Local Centre) Village

Total Gross floor area: 18808 sqm

Survey date: TUESDAY 13/09/11 Survey Type: MANUAL

3 LN-02-B-02 BUSINESS PARK LINCOLNSHÎRE

CARDINAL CLOSE

LINCOLN Edge of Town Industrial Zone

Total Gross floor area: 5000 sqm

Survey date: THURSDAY 25/06/15 Survey Type: MANUAL

4 WM-02-B-02 BUSINESS PARK WEST MIDLANDS

PARADISE WAY

COVENTRY
Edge of Town
Development Zone

Total Gross floor area: 12800 sqm

Survey date: FRIDAY 11/11/16 Survey Type: MANUAL WY-02-B-02 BUSI NESS PARK WEST YORKSHI RE

ARMITAGE BRIDGE

HUDDERSFIELD Edge of Town No Sub Category

Total Gross floor area: 9200 sqm

Survey date: WEDNESDAY 23/04/14 Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

VEHICLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| Time Range | Trip Rate |
|--|-----------|
| 00:00 - 00:30 00:30 - 01:00 01:00 - 01:30 01:30 - 02:00 02:00 - 02:30 02:30 - 03:00 03:30 - 03:00 03:30 - 03:30 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 06:00 06:00 - 06:30 06:30 - 07:00 07:00 - 07:30 5 11722 08:30 - 09:00 5 11722 0.468 5 11722 08:30 - 09:00 5 11722 0.468 5 11722 08:30 - 09:00 5 11722 0.485 5 11722 09:30 - 09:00 5 11722 0.485 5 11722 09:00 - 09:30 5 11722 0.485 5 11722 09:00 - 10:30 5 11722 0.110 5 1172 10:00 - 10:30 5 11722 0.186 5 11722 0.111 5 1172 10:30 - 11:00 5 11722 0.186 5 11722 0.080 5 1172 11:30 - 12:00 5 11722 0.087 5 11722 0.089 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 <td< td=""><td></td></td<> | |
| 00:00 - 00:30 00:30 - 01:00 01:00 - 01:30 01:30 - 02:00 02:00 - 02:30 02:30 - 03:00 03:30 - 03:30 03:30 - 03:30 03:30 - 04:00 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:30 - 05:30 05:30 - 06:00 06:00 - 06:30 06:30 - 07:00 07:30 - 07:30 5 11722 | 2 0.231 |
| 01:00 - 01:30 01:30 - 02:00 02:00 - 02:30 02:30 - 03:00 03:00 - 03:30 03:30 - 04:00 04:00 - 04:30 04:00 - 04:30 05:30 - 06:00 05:00 - 05:30 06:00 - 06:30 06:00 - 06:30 07:00 - 07:30 5 11722 0.222 5 11722 0.009 5 1172 08:00 - 08:30 5 11722 0.468 5 11722 0.004 5 1172 08:00 - 08:30 5 11722 0.485 5 11722 0.061 5 1172 09:00 - 09:30 5 11722 0.485 5 11722 0.109 5 1172 09:00 - 09:30 5 11722 0.316 5 11722 0.111 5 1172 09:00 - 10:30 5 11722 0.316 5 11722 0.111 5 1172 10:00 - 10:30 5 11722 0.316 5 11722 0.102 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 10:00 - 10:30 5 11722 0.087 5 11722 0.089 5 1172 10:30 - | 2 0.231 |
| 01:30 - 02:00 02:00 - 02:30 02:30 - 03:00 03:30 - 03:30 03:30 - 04:00 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 06:00 06:30 - 07:00 06:30 - 07:00 07:00 - 07:30 5 11722 | 2 0.231 |
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| 02:30 - 03:00 03:00 - 03:30 03:00 - 03:30 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 06:00 06:00 - 06:30 06:30 - 07:00 07:00 - 07:30 5 11722 | 2 0.231 |
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| 03:00 - 03:30 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 06:00 06:00 - 06:30 06:00 - 06:30 07:00 - 07:30 5 11722 0.222 5 11722 0.009 5 1172 08:00 - 08:30 5 11722 0.607 5 11722 0.061 5 1172 08:00 - 08:30 5 11722 0.468 5 11722 0.061 5 1172 08:30 - 09:00 5 11722 0.485 5 11722 0.109 5 1172 09:00 - 09:30 5 11722 0.316 5 11722 0.111 5 1172 09:30 - 10:00 5 11722 0.186 5 11722 0.102 5 1172 10:00 - 10:30 5 11722 0.119 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | 2 0.231 |
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| 07:30 - 08:00 5 11722 0.468 5 11722 0.048 5 1172 08:00 - 08:30 5 11722 0.607 5 11722 0.061 5 1172 08:30 - 09:00 5 11722 0.485 5 11722 0.109 5 1172 09:00 - 09:30 5 11722 0.316 5 11722 0.111 5 1172 09:30 - 10:00 5 11722 0.186 5 11722 0.102 5 1172 10:00 - 10:30 5 11722 0.119 5 11722 0.080 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 </td <td></td> | |
| 08:00 - 08:30 5 11722 0.607 5 11722 0.061 5 1172 08:30 - 09:00 5 11722 0.485 5 11722 0.109 5 1172 09:00 - 09:30 5 11722 0.316 5 11722 0.111 5 1172 09:30 - 10:00 5 11722 0.186 5 11722 0.102 5 1172 10:00 - 10:30 5 11722 0.119 5 11722 0.080 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 08:30 - 09:00 5 11722 0.485 5 11722 0.109 5 1172 09:00 - 09:30 5 11722 0.316 5 11722 0.111 5 1172 09:30 - 10:00 5 11722 0.186 5 11722 0.102 5 1172 10:00 - 10:30 5 11722 0.119 5 11722 0.080 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 09:00 - 09:30 5 11722 0.316 5 11722 0.111 5 1172 09:30 - 10:00 5 11722 0.186 5 11722 0.102 5 1172 10:00 - 10:30 5 11722 0.119 5 11722 0.080 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 09:30 - 10:00 5 11722 0.186 5 11722 0.102 5 1172 10:00 - 10:30 5 11722 0.119 5 11722 0.080 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 10:00 - 10:30 5 11722 0.119 5 11722 0.080 5 1172 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 10:30 - 11:00 5 11722 0.087 5 11722 0.089 5 1172 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 11:00 - 11:30 5 11722 0.087 5 11722 0.096 5 1172 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 11:30 - 12:00 5 11722 0.106 5 11722 0.092 5 1172 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| 12:00 - 12:30 5 11722 0.106 5 11722 0.130 5 1172 | |
| | |
| 1 12.30 - 13.00 + 3.00 + 3.1122 + 3.147 + 3.147 + 3.1424 + 0.137 + 3.1422 | |
| 13:00 - 13:30 5 11722 0.137 5 11722 0.145 5 1172 | |
| 13:30 - 14:00 5 11722 0.174 5 11722 0.121 5 1172 | 2 0.295 |
| 14:00 - 14:30 5 11722 0.106 5 11722 0.113 5 1172 | |
| 14:30 - 15:00 5 11722 0.082 5 11722 0.121 5 1172 | |
| 15:00 - 15:30 5 11722 0.075 5 11722 | |
| 15:30 - 16:00 5 11722 0.087 5 11722 0.184 5 1172 | |
| 16:00 - 16:30 5 11722 0.070 5 11722 0.432 5 1172 | |
| 16:30 - 17:00 5 11722 0.053 5 11722 0.490 5 1172 | |
| 17:00 - 17:30 5 11722 0.067 5 11722 0.454 5 1172 | |
| 17:30 - 18:00 5 11722 0.041 5 11722 0.302 5 1172 | |
| 18:00 - 18:30 4 12352 0.022 4 12352 0.202 4 12352 | |
| 18:30 - 19:00 4 12352 0.016 4 12352 0.117 4 12352 | |
| 19:00 - 19:30 | |
| 19:30 - 20:00 | |
| 20:00 - 20:30 | |
| 20:30 - 21:00 | |
| 21:00 - 21:30 | |
| 21:30 - 22:00 | |
| 22:00 - 22:30 | |
| 22:30 - 23:00 | |
| 23:00 - 23:30 | |
| 23:30 - 24:00 | |
| Total Rates: 3.866 3.932 | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 5000 - 18808 (units: sqm) Survey date date range: 01/01/09 - 28/11/16

Number of weekdays (Monday-Friday): 5
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

TAXIS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | Γ | DEPARTURES | | | TOTALS | |
|--------------------------------|------|----------|--------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | , | | | , | | | , | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | | | | | | | | | |
| 05:30 - 06:00 | | | | | | | | | |
| 06:00 - 06:30 | | | | | | | | | |
| | | | | | | | | | |
| 06:30 - 07:00 07:00 - 07:30 | 5 | 11722 | 0.000 | F | 11722 | 0.000 | 5 | 11722 | 0.000 |
| | | | | 5 | | | | | 0.000 |
| 07:30 - 08:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 08:00 - 08:30 | 5 | 11722 | 0.003 | 5 | 11722 | 0.002 | 5 | 11722 | 0.005 |
| 08:30 - 09:00 | 5 | 11722 | 0.007 | 5 | 11722 | 0.007 | 5 | 11722 | 0.014 |
| 09:00 - 09:30 | 5 | 11722 | 0.007 | 5 | 11722 | 0.007 | 5 | 11722 | 0.014 |
| 09:30 - 10:00 | 5 | 11722 | 0.003 | 5 | 11722 | 0.003 | 5 | 11722 | 0.006 |
| 10:00 - 10:30 | 5 | 11722 | 0.003 | 5 | 11722 | 0.005 | 5 | 11722 | 0.008 |
| 10:30 - 11:00 | 5 | 11722 | 0.002 | 5 | 11722 | 0.000 | 5 | 11722 | 0.002 |
| 11:00 - 11:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 11:30 - 12:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 12:00 - 12:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.002 | 5 | 11722 | 0.002 |
| 12:30 - 13:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 13:00 - 13:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 13:30 - 14:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 14:00 - 14:30 | 5 | 11722 | 0.003 | 5 | 11722 | 0.000 | 5 | 11722 | 0.003 |
| 14:30 - 15:00 | 5 | 11722 | 0.003 | 5 | 11722 | 0.007 | 5 | 11722 | 0.010 |
| 15:00 - 15:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 15:30 - 16:00 | 5 | 11722 | 0.007 | 5 | 11722 | 0.003 | 5 | 11722 | 0.010 |
| 16:00 - 16:30 | 5 | 11722 | 0.007 | 5 | 11722 | 0.010 | 5 | 11722 | 0.017 |
| 16:30 - 17:00 | 5 | 11722 | 0.005 | 5 | 11722 | 0.003 | 5 | 11722 | 0.008 |
| 17:00 - 17:30 | 5 | 11722 | 0.002 | 5 | 11722 | 0.003 | 5 | 11722 | 0.005 |
| 17:30 - 18:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 18:00 - 18:30 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 |
| 18:30 - 19:00 | 4 | 12352 | 0.002 | 4 | 12352 | 0.002 | 4 | 12352 | 0.004 |
| 19:00 - 19:30 | т — | . 2002 | 5.002 | 7 | .2002 | 3.002 | т | .2002 | 3.004 |
| 19:30 - 20:00 | | | | | | | | | |
| 20:00 - 20:30 | | | | | | | + | | |
| 20:30 - 21:00 | | | | | | | | | |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | 0.05.4 | | | 0.057 | | | 0.100 |
| Total Rates: | | | 0.054 | | | 0.054 | | | 0.108 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 5000 - 18808 (units: sqm) Survey date date range: 01/01/09 - 28/11/16

Number of weekdays (Monday-Friday):5Number of Saturdays:0Number of Sundays:0Surveys automatically removed from selection:0Surveys manually removed from selection:0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

OGVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | , | | | , | | | , | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | | | | | | | | | |
| 05:30 - 06:00 | | | | | | | | | |
| 06:00 - 06:30 | | | | | | | | | |
| | | | | | | | | | |
| 06:30 - 07:00 | | 11700 | 0.000 | | 11700 | 0.000 | - | 11700 | 0.004 |
| 07:00 - 07:30 | 5 | 11722 | 0.002 | 5 | 11722 | 0.002 | 5 | 11722 | 0.004 |
| 07:30 - 08:00 | 5 | 11722 | 0.007 | 5 | 11722 | 0.003 | 5 | 11722 | 0.010 |
| 08:00 - 08:30 | 5 | 11722 | 0.007 | 5 | 11722 | 0.007 | 5 | 11722 | 0.014 |
| 08:30 - 09:00 | 5 | 11722 | 0.009 | 5 | 11722 | 0.010 | 5 | 11722 | 0.019 |
| 09:00 - 09:30 | 5 | 11722 | 0.005 | 5 | 11722 | 0.003 | 5 | 11722 | 0.008 |
| 09:30 - 10:00 | 5 | 11722 | 0.009 | 5 | 11722 | 0.007 | 5 | 11722 | 0.016 |
| 10:00 - 10:30 | 5 | 11722 | 0.003 | 5 | 11722 | 0.009 | 5 | 11722 | 0.012 |
| 10:30 - 11:00 | 5 | 11722 | 0.003 | 5 | 11722 | 0.003 | 5 | 11722 | 0.006 |
| 11:00 - 11:30 | 5 | 11722 | 0.003 | 5 | 11722 | 0.005 | 5 | 11722 | 0.008 |
| 11:30 - 12:00 | 5 | 11722 | 0.003 | 5 | 11722 | 0.000 | 5 | 11722 | 0.003 |
| 12:00 - 12:30 | 5 | 11722 | 0.003 | 5 | 11722 | 0.003 | 5 | 11722 | 0.006 |
| 12:30 - 13:00 | 5 | 11722 | 0.010 | 5 | 11722 | 0.007 | 5 | 11722 | 0.017 |
| 13:00 - 13:30 | 5 | 11722 | 0.005 | 5 | 11722 | 0.005 | 5 | 11722 | 0.010 |
| 13:30 - 14:00 | 5 | 11722 | 0.003 | 5 | 11722 | 0.007 | 5 | 11722 | 0.010 |
| 14:00 - 14:30 | 5 | 11722 | 0.002 | 5 | 11722 | 0.003 | 5 | 11722 | 0.005 |
| 14:30 - 15:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.002 | 5 | 11722 | 0.002 |
| 15:00 - 15:30 | 5 | 11722 | 0.012 | 5 | 11722 | 0.009 | 5 | 11722 | 0.021 |
| 15:30 - 16:00 | 5 | 11722 | 0.005 | 5 | 11722 | 0.005 | 5 | 11722 | 0.010 |
| 16:00 - 16:30 | 5 | 11722 | 0.005 | 5 | 11722 | 0.007 | 5 | 11722 | 0.012 |
| 16:30 - 17:00 | 5 | 11722 | 0.005 | 5 | 11722 | 0.010 | 5 | 11722 | 0.015 |
| 17:00 - 17:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.002 | 5 | 11722 | 0.002 |
| 17:30 - 18:00 | 5 | 11722 | 0.002 | 5 | 11722 | 0.002 | 5 | 11722 | 0.004 |
| 18:00 - 18:30 | 4 | 12352 | 0.002 | 4 | 12352 | 0.002 | 4 | 12352 | 0.000 |
| 18:30 - 19:00 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 |
| 19:00 - 19:30 | 7 | 12002 | 0.000 | - | 12002 | 0.000 | | 12002 | 0.000 |
| 19:30 - 20:00 | | | | | | | | | |
| 20:00 - 20:30 | | | | | | | | | |
| 20:30 - 21:00 | | | | | | | | | |
| 21:00 - 21:30 | | | | | | | | | |
| | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.103 | | | 0.111 | | | 0.214 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 5000 - 18808 (units: sqm) Survey date date range: 01/01/09 - 28/11/16

Number of weekdays (Monday-Friday): 5
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK

PSVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | Г | DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | , | | | , | | | , | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | | | | | | | | | |
| 05:30 - 06:00 | | | | | | | | | |
| 06:00 - 06:30 | | | | | | | | | |
| 06:30 - 07:00 | | | | | | | | | |
| 07:00 - 07:30 | 5 | 11722 | 0.000 | F | 11722 | 0.000 | 5 | 11722 | 0.000 |
| | | | | 5 | | | | | 0.000 |
| 07:30 - 08:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 08:00 - 08:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 08:30 - 09:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 09:00 - 09:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 09:30 - 10:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 10:00 - 10:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 10:30 - 11:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 11:00 - 11:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 11:30 - 12:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 12:00 - 12:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 12:30 - 13:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 13:00 - 13:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 13:30 - 14:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 14:00 - 14:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 14:30 - 15:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 15:00 - 15:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 15:30 - 16:00 | 5 | 11722 | 0.002 | 5 | 11722 | 0.002 | 5 | 11722 | 0.004 |
| 16:00 - 16:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 16:30 - 17:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 17:00 - 17:30 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 17:30 - 18:00 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 18:00 - 18:30 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 |
| 18:30 - 19:00 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 | 4 | 12352 | 0.000 |
| 19:00 - 19:30 | • | | | - | | | - | | |
| 19:30 - 20:00 | | | | | | | | | |
| 20:00 - 20:30 | | | | | | | | | |
| 20:30 - 21:00 | | | | | | | | | |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | + | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.002 | | | 0.002 | | | 0.004 |
| Total Nates. | | | 0.002 | | | 0.002 | | | 0.004 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 5000 - 18808 (units: sqm) Survey date date range: 01/01/09 - 28/11/16

Number of weekdays (Monday-Friday): 5
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 02 - EMPLOYMENT/B - BUSINESS PARK CYCLISTS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| Time Range | | ARRIVALS | | | EPARTURES | | TOTALS | | | |
|--|---------------|----------|-------|-------|-----------|-------|--------|------|-------|-------|
| Time Range | | No. | | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| 00:00 - 00:30 | Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 01:30 - 02:00 | 00:00 - 00:30 | , | | | | | | | | |
| 01:30 - 02:00 02:00 - 03:30 02:30 - 03:00 03:30 - 04:00 04:00 - 04:30 05:00 - 03:30 05:00 - 05:30 05:00 - 05:30 06:30 - 06:00 06:00 - 06:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:30 - 08:00 05:30 - 06:00 06:00 - 06:30 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 08:00 06 | 00:30 - 01:00 | | | | | | | | | - |
| 01:30 - 02:00 02:00 - 03:30 02:30 - 03:00 03:30 - 04:00 04:00 - 04:30 05:00 - 03:30 05:00 - 05:30 05:00 - 05:30 06:30 - 06:00 06:00 - 06:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:30 - 08:00 05:30 - 06:00 06:00 - 06:30 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 06:00 07:30 - 08:00 05:30 - 08:00 06 | 01:00 - 01:30 | | | | | | | | | |
| 02:30 - 02:30 | | | | | | | | | | |
| 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 05:30 06:30 - 06:00 06:00 - 06:30 06:30 - 07:00 07:00 - 07:30 08:30 - 07:00 08:30 - 08:30 08:30 - 11722 | 02:00 - 02:30 | | | | | | | | | - |
| 03:30 - 04:00 04:00 - 04:30 04:30 - 05:00 05:00 - 05:30 05:30 - 05:30 06:30 - 06:00 06:00 - 06:30 06:30 - 07:00 07:00 - 07:30 08:30 - 07:00 08:30 - 08:30 08:30 - 11722 | 02:30 - 03:00 | | | | | | | | | |
| 04:30 - 05:00 05:00 - 05:30 06:30 - 06:00 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 07:00 - 07:30 08:30 - 07:00 07:30 - 08:30 08:3 | | | | | | | | | | |
| 04:30 - 05:00 | 03:30 - 04:00 | | | | | | | | | |
| 05:00 - 05:30 | 04:00 - 04:30 | | | | | | | | | |
| 05:30 - 06:00 | 04:30 - 05:00 | | | | | | | | | |
| 05:30 - 06:00 | 05:00 - 05:30 | | | | | | | | | |
| 06:00 - 06:30 06:30 - 07:00 06:30 - 07:00 00:00 - 07:30 5 11722 0.000 5 11722 0 00:00 - 09:30 5 11722 0.000 5 11722 0 00:00 - 08:30 5 11722 0.000 5 11722 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 0 5 11722 0 0 0 0 5 11722 0 0 0 0 5 11722 0 0 0 0 5 11722 0 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 1 < | | | | | | | | | | |
| 06:30 - 07:00 5 11722 0.000 5 11722 0.000 5 11722 0 07:30 - 08:00 5 11722 0.000 5 11722 0 08:00 - 08:30 5 11722 0.007 5 11722 0.000 5 11722 0 08:30 - 09:00 0 5 11722 0.000 5 11722 0 08:30 - 09:00 0 5 11722 0.000 5 11722 0 09:00 - 09:30 5 11722 0.002 5 11722 0.000 5 11722 0 09:30 - 10:00 5 11722 0.000 5 11722 0.000 5 11722 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 5 11722 0 0 5 11722 | | | | | | | | | | |
| 07:00 - 07:30 | | | | | | | | | | |
| 07:30 - 08:00 5 11722 0.005 5 11722 0.000 5 11722 0 08:30 - 09:00 5 11722 0.007 5 11722 0.000 5 11722 0 09:00 - 09:30 5 11722 0.002 5 11722 0.000 5 11722 0 09:30 - 10:00 5 11722 0.002 5 11722 0.000 5 11722 0 09:30 - 10:00 5 11722 0.000 5 11722 0 0 5 11722 0 0 5 11722 0 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 1 1722 0 0 | | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 | 5 | 11722 | 0.000 |
| 08:00 - 08:30 5 11722 0.007 5 11722 0.000 5 11722 0.000 08:30 - 09:00 5 11722 0.000 | | | | | | | | | | 0.005 |
| 08:30 - 09:00 5 11722 0.007 5 11722 0.000 5 11722 0 09:00 - 09:30 5 11722 0.002 5 11722 0.000 5 11722 0 09:30 - 10:00 5 11722 0.002 5 11722 0.002 5 11722 0 10:00 - 10:30 5 11722 0.000 5 11722 0.000 5 11722 0 10:30 - 11:00 5 11722 0.000 5 11722 0.000 5 11722 0 11:00 - 11:30 5 11722 0.000 5 11722 0.000 5 11722 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 1 11722 0 0 1 11722 0 0 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.007</td></t<> | | | | | | | | | | 0.007 |
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| 09:30 - 10:00 | | | | | | | | | | 0.002 |
| 10:00 - 10:30 | | | | | | | | | | 0.004 |
| 10:30 - 11:00 | | | | | | | | | | 0.000 |
| 11:00 - 11:30 5 11722 0.000 5 11722 0.000 5 11722 0 11:30 - 12:00 5 11722 0.002 5 11722 0.002 5 11722 0 12:00 - 12:30 5 11722 0.000 5 11722 0.000 5 11722 0 12:30 - 13:00 5 11722 0.000 5 11722 0.000 5 11722 0 13:00 - 13:30 5 11722 0.000 5 11722 0.000 5 11722 0 13:30 - 14:00 5 11722 0.000 5 11722 0.000 5 11722 0 14:00 - 14:30 5 11722 0.000 5 11722 0.000 5 11722 0 14:30 - 15:00 5 11722 0.000 5 11722 0.000 5 11722 0 15:00 - 15:30 5 11722 0.000 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.000</td></td<> | | | | | | | | | | 0.000 |
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| 12:00 - 12:30 5 11722 0.000 5 11722 0.002 5 11722 0 12:30 - 13:00 5 11722 0.000 5 11722 0 0 5 11722 0 0 11722 0 0 5 11722 0 0 11722 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 5 11722 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 0 5 11722 0 0 0 5 11722 0 0 0 11722 0 0 | | | | | | | | | | 0.004 |
| 12:30 - 13:00 5 11722 0.002 5 11722 0.005 5 11722 | | 5 | | | 5 | | | 5 | | 0.002 |
| 13:00 - 13:30 5 11722 0.000 5 11722 0.000 5 11722 0 13:30 - 14:00 5 11722 0.000 5 11722 0 0 5 11722 0 14:00 - 14:30 5 11722 0.000 5 11722 0.000 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 5 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 1 11722 0 0 0 | | | | | | | | | | 0.000 |
| 13:30 - 14:00 5 11722 0.000 5 11722 0.000 5 11722 0 14:00 - 14:30 5 11722 0.000 5 11722 0.000 5 11722 0 14:30 - 15:00 5 11722 0.000 5 11722 0.000 5 11722 0 15:00 - 15:30 5 11722 0.000 5 11722 0.002 5 11722 0 15:00 - 16:30 5 11722 0.000 5 11722 0.002 5 11722 0 16:00 - 16:30 5 11722 0.000 5 11722 0.002 5 11722 0 16:30 - 17:00 5 11722 0.000 5 11722 0.005 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.000 4 12352 0 0 4 12352 | 13:00 - 13:30 | | | 0.000 | | | 0.000 | | 11722 | 0.000 |
| 14:00 - 14:30 5 11722 0.000 5 11722 0.000 5 11722 0 14:30 - 15:00 5 11722 0.000 5 11722 0.000 5 11722 0 15:00 - 15:30 5 11722 0.000 5 11722 0.002 5 11722 0 15:30 - 16:00 5 11722 0.000 5 11722 0.002 5 11722 0 16:00 - 16:30 5 11722 0.000 5 11722 0.005 5 11722 0 16:30 - 17:00 5 11722 0.000 5 11722 0.002 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0.003 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.000 4 12352 0 19:00 - 19:30 < | 13:30 - 14:00 | | | 0.000 | | | 0.000 | | | 0.000 |
| 14:30 - 15:00 5 11722 0.000 5 11722 0.000 5 11722 0 15:00 - 15:30 5 11722 0.000 5 11722 0.002 5 11722 0 15:30 - 16:00 5 11722 0.000 5 11722 0.002 5 11722 0 16:00 - 16:30 5 11722 0.000 5 11722 0.005 5 11722 0 16:30 - 17:00 5 11722 0.000 5 11722 0.002 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0.005 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.002 4 12352 0 19:00 - 19:30 19:30 - 20:00 20:00 - 20:30 0.000 4 12352 0.000 4 12352 0.000 4 1235 | | | | | | | | | | 0.000 |
| 15:00 - 15:30 5 11722 0.000 5 11722 0.002 5 11722 0 15:30 - 16:00 5 11722 0.000 5 11722 0.002 5 11722 0 16:00 - 16:30 5 11722 0.000 5 11722 0.005 5 11722 0 16:30 - 17:00 5 11722 0.000 5 11722 0.002 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0.003 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.002 4 12352 0 19:00 - 19:30 19:30 - 20:00 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:00 - 20:30 20:0 | | | | | | | | | | 0.000 |
| 15:30 - 16:00 5 11722 0.000 5 11722 0.002 5 11722 0 16:00 - 16:30 5 11722 0.000 5 11722 0.005 5 11722 0 16:30 - 17:00 5 11722 0.000 5 11722 0.002 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0 0 1722 0 0 0 0 0 1722 0 | | | | | | | | | | 0.002 |
| 16:00 - 16:30 5 11722 0.000 5 11722 0.005 5 11722 0 16:30 - 17:00 5 11722 0.000 5 11722 0.002 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0.003 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.002 4 12352 0 18:30 - 19:00 4 12352 0.000 4 12352 0.000 4 12352 0 19:00 - 19:30 19:30 - 20:00 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.002</td></t<> | | | | | | | | | | 0.002 |
| 16:30 - 17:00 5 11722 0.000 5 11722 0.002 5 11722 0 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0.003 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.002 4 12352 0 18:30 - 19:00 4 12352 0.000 4 12352 0.000 4 12352 0 19:00 - 19:30 19:30 - 20:00 | | | | | | | | | | 0.005 |
| 17:00 - 17:30 5 11722 0.000 5 11722 0.005 5 11722 0 17:30 - 18:00 5 11722 0.002 5 11722 0.003 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.002 4 12352 0 18:30 - 19:00 4 12352 0.000 4 12352 0.000 4 12352 0 19:00 - 19:30 19:30 - 20:00 20:00 4 12352 0.000 4 12352 0 20:30 - 20:30 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 20:00 - 20:00 0 | | | | | | | | | | 0.002 |
| 17:30 - 18:00 5 11722 0.002 5 11722 0.003 5 11722 0 18:00 - 18:30 4 12352 0.000 4 12352 0.002 4 12352 0 18:30 - 19:00 4 12352 0.000 4 12352 0.000 4 12352 0 19:00 - 19:30 19:30 - 20:00 20:00 4 12352 0 0 4 12352 0 20:30 - 20:30 21:00 21:00 21:30 22:00 22:00 22:30 22:30 22:30 22:30 22:30 22:30 23:00 | | | | | | | | | | 0.005 |
| 18:00 - 18:30 4 12352 0.000 4 12352 0.000 4 12352 0 18:30 - 19:00 4 12352 0.000 4 12352 0 19:00 - 19:30 19:30 - 20:00 19:30 - 20:30 19:30 - | | | | | | | | | | 0.005 |
| 18:30 - 19:00 4 12352 0.000 4 12352 0 19:00 - 19:30 9:30 - 20:00 9:30 - 20:30 | | | | | | | | | | 0.002 |
| 19:00 - 19:30 19:30 - 20:00 20:00 - 20:30 20:30 - 21:00 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 | | | | | | | | | | 0.000 |
| 19:30 - 20:00 20:00 - 20:30 20:30 - 21:00 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 | | • | | 2.000 | · | .2002 | 2.000 | · | | 3.000 |
| 20:00 - 20:30 20:30 - 21:00 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 | | | | | | | | | | |
| 20:30 - 21:00 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 | | | | | | | | | | |
| 21:00 - 21:30 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 | | | | | | | | | | |
| 21:30 - 22:00 22:00 - 22:30 22:30 - 23:00 | | | | | | | | | | |
| 22:00 - 22:30 22:30 - 23:00 | | | | | | | | | | |
| 22:30 - 23:00 | | + | | - | | + | | | | |
| | | | | | | | | | | |
| | 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | + | | | | | | |
| | | | | 0.027 | | | 0.027 | | | 0.054 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 5000 - 18808 (units: sqm) Survey date date range: 01/01/09 - 28/11/16

Number of weekdays (Monday-Friday): 5
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Technical Note 02



Appendix G: TRICS Outputs (Residential)

Calculation Reference: AUDIT-204610-180119-0127

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

Category : M - MIXED PRIVATE/AFFORDABLE HOUSING

VEHI ČLES

Selected regions and areas:

)2 SOUTH EAST

ES EAST SUSSEX 3 days WEST SUSSEX 3 days

03 SOUTH WEST

DC DORSET 1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Number of dwellings Actual Range: 16 to 92 (units:) Range Selected by User: 9 to 100 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/09 to 17/05/17

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Tuesday 2 days Wednesday 3 days Thursday 1 days Friday 1 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 7 days
Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:

Suburban Area (PPS6 Out of Centre) 1
Edge of Town 4
Neighbourhood Centre (PPS6 Local Centre) 2

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Residential Zone 5 Village 2

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

C3 7 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Secondary Filtering selection (Cont.):

Population within 1 mile:

1,000 or Less 1 days 1,001 to 5,000 3 days 5,001 to 10,000 1 days 2 days 10,001 to 15,000

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles: 25,001 to 50,000 4 days 75,001 to 100,000 1 days 1 days 100,001 to 125,000 1 days 125,001 to 250,000

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

6 days 1.1 to 1.5 1.6 to 2.0 1 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

<u>Travel Plan:</u> Yes 5 days No 2 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 7 days

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1 DC-03-M-02 TERRACED & BUNGALOWS DORSET

KINGS ROAD FORDINGTON DORCHESTER

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 37

Survey date: FRIDAY 16/09/16 Survey Type: MANUAL

ES-03-M-01 HOUSES & FLATS EAST SUSSEX

A26 CROWBOROUGH RD FIVE ASH DOWN VILLAGE

NEAR UCKFIELD

Neighbourhood Centre (PPS6 Local Centre)

Village

Total Number of dwellings: 74

Survey date: WEDNESDAY 20/06/12 Survey Type: MANUAL

3 ES-03-M-08 MIXED HOUSES EAST SUSSEX

FIELD END

MARESFIELD Edge of Town Residential Zone

Total Number of dwellings: 80

Survey date: TÜESDAY 10/05/16 Survey Type: MANUAL

4 ES-03-M-09 DETACHED/SEMI-DETACHED EAST SUSSEX

STATION ROAD

NORTHIAM

Neighbourhood Centre (PPS6 Local Centre)

Village

Total Number of dwellings: 16

Survey date: WEDNESDAY 17/05/17 Survey Type: MANUAL

WS-03-M-05 MIXED HOUSING WEST SÚSSÉX

ELLIS ROAD

S BROADBRIDGE HEATH

WEST HORSHAM Edge of Town Residential Zone

Total Number of dwellings: 92

Survey date: THURSDAY 23/10/14 Survey Type: MANUAL

WS-03-M-06 SEMI DETACHED/DETACHED WEST SUSSEX

SOUTHFIELDS CLOSE

CHICHESTER Edge of Town Residential Zone

Total Number of dwellings: 67

Survey date: TUESDAY 27/01/15 Survey Type: MANUAL

7 WS-03-M-07 HOUSES & FLATS WEST SÚSSÉX

ROSE GREEN ROAD

ALDWICK BOGNOR REGIS Edge of Town Residential Zone

Total Number of dwellings: 90

Survey date: WEDNESDAY 05/03/14 Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | , | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 7 | 65 | 0.075 | 7 | 65 | 0.340 | 7 | 65 | 0.415 |
| 08:00 - 09:00 | 7 | 65 | 0.121 | 7 | 65 | 0.421 | 7 | 65 | 0.542 |
| 09:00 - 10:00 | 7 | 65 | 0.138 | 7 | 65 | 0.158 | 7 | 65 | 0.296 |
| 10:00 - 11:00 | 7 | 65 | 0.145 | 7 | 65 | 0.154 | 7 | 65 | 0.299 |
| 11:00 - 12:00 | 7 | 65 | 0.147 | 7 | 65 | 0.164 | 7 | 65 | 0.311 |
| 12:00 - 13:00 | 7 | 65 | 0.191 | 7 | 65 | 0.178 | 7 | 65 | 0.369 |
| 13:00 - 14:00 | 7 | 65 | 0.151 | 7 | 65 | 0.175 | 7 | 65 | 0.326 |
| 14:00 - 15:00 | 7 | 65 | 0.160 | 7 | 65 | 0.191 | 7 | 65 | 0.351 |
| 15:00 - 16:00 | 7 | 65 | 0.272 | 7 | 65 | 0.189 | 7 | 65 | 0.461 |
| 16:00 - 17:00 | 7 | 65 | 0.232 | 7 | 65 | 0.154 | 7 | 65 | 0.386 |
| 17:00 - 18:00 | 7 | 65 | 0.395 | 7 | 65 | 0.151 | 7 | 65 | 0.546 |
| 18:00 - 19:00 | 7 | 65 | 0.329 | 7 | 65 | 0.193 | 7 | 65 | 0.522 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 2.356 | | | 2.468 | | | 4.824 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 16 - 92 (units:)
Survey date date range: 01/01/09 - 17/05/17

Number of weekdays (Monday-Friday): 7
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 3
Surveys manually removed from selection: 0

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING

TAXIS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 7 | 65 | 0.004 | 7 | 65 | 0.002 | 7 | 65 | 0.006 |
| 08:00 - 09:00 | 7 | 65 | 0.004 | 7 | 65 | 0.007 | 7 | 65 | 0.011 |
| 09:00 - 10:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 10:00 - 11:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 11:00 - 12:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 12:00 - 13:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 13:00 - 14:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 14:00 - 15:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 15:00 - 16:00 | 7 | 65 | 0.015 | 7 | 65 | 0.013 | 7 | 65 | 0.028 |
| 16:00 - 17:00 | 7 | 65 | 0.009 | 7 | 65 | 0.007 | 7 | 65 | 0.016 |
| 17:00 - 18:00 | 7 | 65 | 0.000 | 7 | 65 | 0.002 | 7 | 65 | 0.002 |
| 18:00 - 19:00 | 7 | 65 | 0.007 | 7 | 65 | 0.007 | 7 | 65 | 0.014 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.043 | | | 0.042 | | | 0.085 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 16 - 92 (units:)
Survey date date range: 01/01/09 - 17/05/17

Number of weekdays (Monday-Friday): 7
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 3
Surveys manually removed from selection: 0

TRIP RATE for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING

OGVS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 08:00 - 09:00 | 7 | 65 | 0.000 | 7 | 65 | 0.002 | 7 | 65 | 0.002 |
| 09:00 - 10:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 10:00 - 11:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 11:00 - 12:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 12:00 - 13:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 13:00 - 14:00 | 7 | 65 | 0.004 | 7 | 65 | 0.004 | 7 | 65 | 0.008 |
| 14:00 - 15:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 15:00 - 16:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 16:00 - 17:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 17:00 - 18:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 18:00 - 19:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.012 | | | 0.014 | | | 0.026 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 16 - 92 (units:)
Survey date date range: 01/01/09 - 17/05/17

Number of weekdays (Monday-Friday): 7
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 3
Surveys manually removed from selection: 0

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING

PSVS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 08:00 - 09:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 09:00 - 10:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 10:00 - 11:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 11:00 - 12:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 12:00 - 13:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 13:00 - 14:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 14:00 - 15:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 15:00 - 16:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 16:00 - 17:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 17:00 - 18:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 18:00 - 19:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.002 | | | 0.002 | | | 0.004 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 16 - 92 (units:)
Survey date date range: 01/01/09 - 17/05/17

Number of weekdays (Monday-Friday): 7
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 3
Surveys manually removed from selection: 0

AECOM High Holborn London

Licence No: 204610

TRIP RATE for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/AFFORDABLE HOUSING CYCLISTS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 7 | 65 | 0.004 | 7 | 65 | 0.002 | 7 | 65 | 0.006 |
| 08:00 - 09:00 | 7 | 65 | 0.000 | 7 | 65 | 0.004 | 7 | 65 | 0.004 |
| 09:00 - 10:00 | 7 | 65 | 0.000 | 7 | 65 | 0.004 | 7 | 65 | 0.004 |
| 10:00 - 11:00 | 7 | 65 | 0.000 | 7 | 65 | 0.002 | 7 | 65 | 0.002 |
| 11:00 - 12:00 | 7 | 65 | 0.002 | 7 | 65 | 0.002 | 7 | 65 | 0.004 |
| 12:00 - 13:00 | 7 | 65 | 0.000 | 7 | 65 | 0.004 | 7 | 65 | 0.004 |
| 13:00 - 14:00 | 7 | 65 | 0.004 | 7 | 65 | 0.002 | 7 | 65 | 0.006 |
| 14:00 - 15:00 | 7 | 65 | 0.000 | 7 | 65 | 0.000 | 7 | 65 | 0.000 |
| 15:00 - 16:00 | 7 | 65 | 0.007 | 7 | 65 | 0.002 | 7 | 65 | 0.009 |
| 16:00 - 17:00 | 7 | 65 | 0.009 | 7 | 65 | 0.020 | 7 | 65 | 0.029 |
| 17:00 - 18:00 | 7 | 65 | 0.013 | 7 | 65 | 0.004 | 7 | 65 | 0.017 |
| 18:00 - 19:00 | 7 | 65 | 0.004 | 7 | 65 | 0.002 | 7 | 65 | 0.006 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.043 | | | 0.048 | | | 0.091 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 16 - 92 (units:)
Survey date date range: 01/01/09 - 17/05/17

Number of weekdays (Monday-Friday): 7
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 3
Surveys manually removed from selection: 0

Technical Note 02



Appendix H: TEMPro Outputs (Alternative Assumptions)

Dataset Version:

Trip ends by time period

Result Type: Base Year: 2018 Future Year: 2036 Trip Purpose Group: Time Period:

All purposes Weekday AM peak period (0700 - 0959) Origin/Destination

Trip End Type:

Alternative Assumptions Applied:

| | | Current As | ssumptions | | Alternative Assumptions | | | |
|----------------------|---------|------------|------------|-------------|-------------------------|-----------|-----------|-------------|
| Area | Base HH | Base Jobs | Future HH | Future Jobs | Base HH | Base Jobs | Future HH | Future Jobs |
| Mid Suffolk 003 (E02 | 3373 | 2899 | 3692 | 3087 | 3373 | 2899 | 3444 | 2917 |

Local Growth Figure Level Area E02006263 Mid Suffolk 003 1.057539 (Rural Minor)

Growth Factor Car Driver

| Area I | All purposes | | |
|-----------|-----------------|-------------|--------|
| Level | Origin | Destination | |
| E02006263 | Mid Suffolk 003 | 0.9593 | 1.0644 |

| Future Year - Base Year | Car Driver | | | |
|-------------------------|-------------|-----------------|----------|-------------|
| | Description | All p | ourposes | |
| Level | | Name | Origin | Destination |
| E02006263 | | Mid Suffolk 003 | 82 | 00 |

| Base Year Car Driver | | | | | | |
|----------------------|-----------------|--------|-------------|--|--|--|
| Area I | All purposes | | | | | |
| Level | Name | Origin | Destination | | | |
| E02006263 | Mid Suffolk 003 | 2,009 | 1,525 | | | |

| Future Year | Car Driver | | | | |
|-------------|------------------|--------|-------------|--|--|
| Area | Area Description | | | | |
| Level | Name | Origin | Destination | | |
| E02006263 | Mid Suffolk 003 | 1,927 | 1,623 | | |

Dataset Version: 70

Result Type: Trip ends by time period Base Year: 2018

Base Year: 2018
Future Year: 2036
Trip Purpose Group: All purpo

Trip Purpose Group:
All purposes
Time Period:
Weekday PM peak period (1600 - 1859)

Trip End Type: Origin/Destination

Alternative Assumptions Applied: Yes

| | | Current As | ssumptions | | Alternative Assumptions | | | |
|----------------------|---------|------------|------------|-------------|-------------------------|-----------|-----------|-------------|
| Area | Base HH | Base Jobs | Future HH | Future Jobs | Base HH | Base Jobs | Future HH | Future Jobs |
| Mid Suffolk 003 (E02 | 3373 | 2899 | 3692 | 3087 | 3373 | 2899 | 3444 | 2917 |

LevelAreaLocal Growth FigureAuthorityMid Suffolk1.060204 (Rural Minor)

Growth Factor Car Driver

| Area [| All purposes | | |
|-----------|-----------------|-------------|--------|
| Level | Origin | Destination | |
| E02006263 | Mid Suffolk 003 | 1.0476 | 0.9812 |

Future Year - Base Year Car Driver

| Area Description | | | ourposes |
|------------------|-----------------|----|-------------|
| Level Name | | | Destination |
| E02006263 | Mid Suffolk 003 | 82 | -39 |

Base Year Car Driver

| Area Description | | | ourposes |
|------------------|-----------------|-------|-------------|
| Level Name | | | Destination |
| E02006263 | Mid Suffolk 003 | 1,720 | 2,050 |

Future Year Car Driver

| Area Description | | | ourposes |
|------------------|-----------------|-------|-------------|
| Level Name | | | Destination |
| E02006263 | Mid Suffolk 003 | 1,801 | 2,012 |

Technical Note 02



Appendix I: Queen Street/Mill Lane PICADY Results (Proposed Layout)

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 [] © Copyright TRL Limited, 2018

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Filename: Junctions 9 Queen Street Mill Lane Proposed Layout AM and PM assessment 190218.j9
Path: P:\Transport Consultancy Projects\Job Folders_605\60538603 - Stradbroke NP Access Review\02 Further Transport Work\10 - Technical\PICADY\Junction Modelling
Report generation date: 19/02/2018 12:08:38

Summary of junction performance

| | Weekday AM peak (0800-0900) | | | Weekday PM peak (1645-1745) | | | | |
|--------------|-----------------------------|-------------|-------|-----------------------------|--------------|-----------|------|------|
| | Queue (Veh) | Delay (s) | RFC | LOS | Queue (Veh) | Delay (s) | RFC | LOS |
| | Proposed Ju | ınction - 2 | 036 F | uture | Cumulative A | ssessment | Scen | ario |
| Stream B-C | 0.1 | 6.72 | 0.10 | Α | 0.4 | 8.87 | 0.29 | Α |
| Stream B-AD | 0.2 | 13.07 | 0.20 | В | 0.7 | 14.48 | 0.41 | В |
| Stream A-BCD | 0.0 | 6.45 | 0.01 | Α | 0.0 | 6.77 | 0.04 | Α |
| Stream A-B | | | | | | | | |
| Stream A-C | | | | | | | | |
| Stream D-A | 0.0 | 6.49 | 0.04 | Α | 0.0 | 6.47 | 0.01 | Α |
| Stream D-BC | 0.0 | 9.44 | 0.04 | Α | 0.0 | 8.98 | 0.02 | Α |
| Stream C-ABD | 0.7 | 9.80 | 0.38 | Α | 0.1 | 6.92 | 0.06 | Α |
| Stream C-D | | | | | | | | |
| Stream C-A | | | | | | | | |

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle

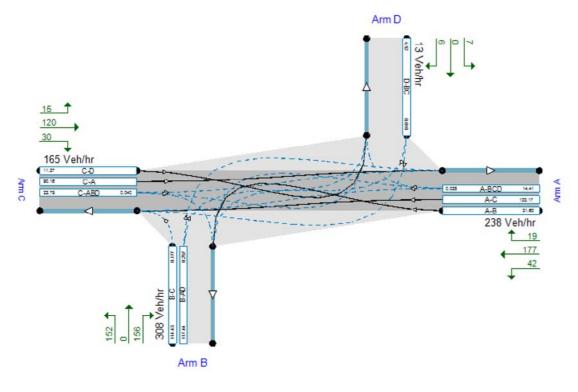
File summary

File Description

| Title | Stradbroke - Junction Modelling |
|-------------|--|
| Location | Queen Street / Mill Lane T-junction - Stradbroke |
| Site number | |
| Date | 02/02/2018 |
| Version | |
| Status | (new file) |
| Identifier | |
| Client | Stradbroke Parish Council |
| Jobnumber | 60538603 |
| Enumerator | NA"joshua.barrett |
| Description | |

Units

| Distance units | Speed units | Traffic units input | Traffic units results | Flow units | Average delay units | Total delay units | Rate of delay units |
|----------------|-------------|---------------------|-----------------------|------------|---------------------|-------------------|---------------------|
| m | kph | Veh | Veh | perHour | s | -Min | perMin |



Showing original traffic demand (Veh/hr), Streams (upstreams) show Total Demand (Veh/hr); Streams (downstreams) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

| Calculate Queue Percentiles | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) |
|-----------------------------|-----------------------------|---------------|-----------------------------|-----------------------|
| | | 0.85 | 36.00 | 20.00 |

Demand Set Summary

| Scenario name | Time Period name | Traffic profile type | Model start time (HH:mm) | Model finish time (HH:mm) | Time segment length (min) |
|--|-----------------------------|----------------------|--------------------------|---------------------------|---------------------------|
| 2036 Future Cumulative Assessment Scenario | Weekday AM peak (0800-0900) | ONE HOUR | 07:45 | 09:15 | 15 |
| 2036 Future Cumulative Assessment Scenario | Weekday PM peak (1645-1745) | ONE HOUR | 16:30 | 18:00 | 15 |

Proposed Junction - 2036 Future Cumulative Assessment Scenario, Weekday AM peak (0800-0900)

Data Errors and Warnings

No errors or warnings

Analysis Set Details

| ID | Name | Description | Network flow scaling factor (%) |
|----|-------------------|---------------------------------------|---------------------------------|
| A1 | Proposed Junction | Queen Street / Mill Lane / Grove Farm | 100.000 |

Junction Network

Junctions

| Junction | Name | Junction Type | Major road direction | Junction Delay (s) | Junction LOS |
|----------|--------------------------|--------------------|----------------------|--------------------|--------------|
| 1 | Queen Street / Mill Lane | Right-Left Stagger | Two-way | 4.15 | Α |

Junction Network Options

| Driving side | Lighting | l |
|--------------|----------------|---|
| Left | Normal/unknown | Ì |

Arms

Arms

| Arm | Name | Description | Arm type |
|-----|----------------------|-------------|----------|
| Α | Queen Street (South) | | Major |
| В | Mill Lane (West) | | Minor |
| С | Queen Street (North) | | Major |
| D | Grove Farm | | Minor |

Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right turn bay | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|--------------------|-------------------------------|---------|----------------------|
| Α | 6.30 | | | 82.0 | ✓ | 1.00 |
| С | 6.30 | | | 118.0 | ✓ | 1.00 |

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

| Arm | Minor arm type | Width at give- way (m) | Width at 5m (m) | Width at 10m (m) | Width at 15m (m) | Width at 20m (m) | Estimate flare length | Flare length (PCU) | Visibility to left (m) | Visibility to right (m) |
|-----|---------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|-----------------------|--------------------|------------------------|-------------------------|
| В | One lane plus flare | 10.00 | 4.20 | 2.90 | 2.90 | 2.90 | | 1.00 | 22 | 16 |
| D | One lane plus flare | 8.00 | 3.00 | 2.80 | 2.80 | 2.80 | | 1.00 | 21 | 18 |

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

| Junction | Stream | Intercept (Veh/hr) | Slope for A-B | Slope for A-C | Slope for A-D | Slope for B-A | Slope for B-D | Slope for C-A | Slope for C-B | Slope for C-D | Slope for D-B | Slope for D-C |
|----------|--------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1 | A-D | 621.450 | - | - | - | 0.238 | 0.238 | 0.238 | - | 0.238 | - | - |
| 1 | B-AD | 521.302 | 0.094 | 0.237 | - | - | - | 0.149 | 0.338 | 0.149 | 0.094 | 0.237 |
| 1 | B-C | 761.186 | 0.115 | 0.291 | - | - | - | - | - | - | 0.115 | 0.291 |
| 1 | С-В | 642.298 | 0.246 | 0.246 | - | - | - | - | - | - | 0.246 | 0.246 |
| 1 | D-A | 647.232 | - | - | - | 0.248 | 0.098 | 0.248 | - | 0.098 | - | - |
| 1 | D-BC | 515.957 | 0.147 | 0.147 | 0.335 | 0.234 | 0.093 | 0.234 | - | 0.093 | - | - |

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

| II | D Scenario name | Time Period name | Traffic profile type | Model start time (HH:mm) | Model finish time (HH:mm) | Time segment length (min) |
|----|---|---------------------------------|----------------------|-----------------------------|------------------------------|---------------------------|
| D | 2036 Future Cumulative Assessment Scenario | Weekday AM peak (0800- 0900) | ONE HOUR | 07:45 | 09:15 | 15 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓ | ✓ | HV Percentages | 2.00 |

Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (Veh/hr) | Scaling Factor (%) |
|-----|------------|--------------|-------------------------|--------------------|
| Α | | ✓ | 344.00 | 100.000 |
| В | | ✓ | 115.00 | 100.000 |
| С | | ✓ | 335.00 | 100.000 |
| D | | ✓ | 37.00 | 100.000 |

Origin-Destination Data

Demand (Veh/hr)

| | То | | | | | | | | | |
|------|----|---------|---------|---------|-------|--|--|--|--|--|
| | | Α | В | С | D | | | | | |
| | Α | 0.000 | 201.000 | 137.000 | 6.000 | | | | | |
| From | В | 62.000 | 0.000 | 53.000 | 0.000 | | | | | |
| | С | 150.000 | 180.000 | 0.000 | 5.000 | | | | | |
| | D | 21.000 | 0.000 | 16.000 | 0.000 | | | | | |

Vehicle Mix

Heavy Vehicle proportion

| | | | То | | | | | | | |
|------|---|---|----|---|---|--|--|--|--|--|
| | | Α | В | С | D | | | | | |
| | Α | 0 | 0 | 3 | 0 | | | | | |
| From | В | 5 | 0 | 9 | 0 | | | | | |
| | С | 8 | 4 | 0 | 0 | | | | | |
| | D | 0 | 0 | 0 | 0 | | | | | |

Detailed Demand Data

Demand for each time segment

| Time Segment | Arm | Demand (Veh/hr) | Demand in PCU (PCU/hr) |
|--------------|-----|-----------------|------------------------|
| | Α | 258.98 | 262.08 |
| 07:45-08:00 | В | 86.58 | 92.34 |
| 07:45-08:00 | С | 252.21 | 266.43 |
| | D | 27.86 | 27.86 |
| | Α | 309.25 | 312.94 |
| 08:00-08:15 | В | 103.38 | 110.27 |
| 00:00-00:15 | С | 301.16 | 318.15 |
| | D | 33.26 | 33.26 |
| | Α | 378.75 | 383.28 |
| 08:15-08:30 | В | 126.62 | 135.05 |
| 00.15-00.30 | С | 368.84 | 389.65 |
| | D | 40.74 | 40.74 |
| | Α | 378.75 | 383.28 |
| 08:30-08:45 | В | 126.62 | 135.05 |
| 00:30-00:45 | С | 368.84 | 389.65 |
| | D | 40.74 | 40.74 |
| | Α | 309.25 | 312.94 |
| 08:45-09:00 | В | 103.38 | 110.27 |
| 00.45-09:00 | С | 301.16 | 318.15 |
| | D | 33.26 | 33.26 |
| | Α | 258.98 | 262.08 |
| 09:00-09:15 | В | 86.58 | 92.34 |
| 09:00-09:15 | С | 252.21 | 266.43 |
| | D | 27.86 | 27.86 |

Results

Results Summary for whole modelled period

| Stream | Max RFC | Max delay (s) | Max Queue (Veh) | Max LOS |
|--------|---------|---------------|-----------------|---------|
| B-C | 0.10 | 6.72 | 0.1 | Α |
| B-AD | 0.20 | 13.07 | 0.2 | В |
| A-BCD | 0.01 | 6.45 | 0.0 | Α |
| A-B | | | | |
| A-C | | | | |
| D-A | 0.04 | 6.49 | 0.0 | Α |
| D-BC | 0.04 | 9.44 | 0.0 | Α |
| C-ABD | 0.38 | 9.80 | 0.7 | Α |
| C-D | | | | |
| C-A | | | | |

Main Results for each time segment

Main results: (07:45-08:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| В-С | 39.90 | 632.59 | 0.063 | 39.63 | 0.1 | 6.068 | Α |
| B-AD | 46.68 | 392.85 | 0.119 | 46.14 | 0.1 | 10.368 | В |
| A-BCD | 4.53 | 581.96 | 0.008 | 4.50 | 0.0 | 6.233 | Α |
| A-B | 151.31 | | | 151.31 | | | |
| A-C | 103.13 | | | 103.13 | | | |
| D-A | 15.81 | 600.41 | 0.026 | 15.70 | 0.0 | 6.157 | Α |
| D-BC | 12.05 | 436.07 | 0.028 | 11.93 | 0.0 | 8.486 | Α |
| C-ABD | 142.89 | 584.06 | 0.245 | 141.54 | 0.3 | 8.113 | Α |
| | | | | | | | |

| C-D | 3.53 | | 3.53 | | |
|-----|--------|--|--------|--|--|
| C-A | 105.79 | | 105.79 | | |

Main results: (08:00-08:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 47.65 | 617.23 | 0.077 | 47.58 | 0.1 | 6.319 | Α |
| B-AD | 55.74 | 372.14 | 0.150 | 55.57 | 0.2 | 11.366 | В |
| A-BCD | 5.42 | 574.64 | 0.009 | 5.41 | 0.0 | 6.323 | Α |
| A-B | 180.68 | | | 180.68 | | | |
| A-C | 123.15 | | | 123.15 | | | |
| D-A | 18.88 | 590.96 | 0.032 | 18.85 | 0.0 | 6.292 | Α |
| D-BC | 14.38 | 420.57 | 0.034 | 14.36 | 0.0 | 8.862 | Α |
| C-ABD | 174.85 | 584.95 | 0.299 | 174.38 | 0.5 | 8.759 | Α |
| C-D | 4.07 | | | 4.07 | | | |
| C-A | 122.23 | | | 122.23 | | | |

Main results: (08:15-08:30)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 58.35 | 594.40 | 0.098 | 58.25 | 0.1 | 6.715 | Α |
| B-AD | 68.26 | 343.89 | 0.199 | 67.98 | 0.2 | 13.035 | В |
| A-BCD | 6.66 | 564.97 | 0.012 | 6.65 | 0.0 | 6.447 | Α |
| A-B | 221.27 | | | 221.27 | | | |
| A-C | 150.82 | | | 150.82 | | | |
| D-A | 23.12 | 578.07 | 0.040 | 23.09 | 0.0 | 6.486 | Α |
| D-BC | 17.62 | 399.06 | 0.044 | 17.57 | 0.0 | 9.435 | Α |
| C-ABD | 223.48 | 591.06 | 0.378 | 222.62 | 0.7 | 9.753 | Α |
| C-D | 4.69 | | | 4.69 | | | |
| C-A | 140.67 | | | 140.67 | | | |

Main results: (08:30-08:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 58.35 | 594.17 | 0.098 | 58.35 | 0.1 | 6.717 | Α |
| B-AD | 68.26 | 343.61 | 0.199 | 68.25 | 0.2 | 13.073 | В |
| A-BCD | 6.66 | 564.87 | 0.012 | 6.66 | 0.0 | 6.448 | Α |
| А-В | 221.27 | | | 221.27 | | | |
| A-C | 150.82 | | | 150.82 | | | |
| D-A | 23.12 | 577.91 | 0.040 | 23.12 | 0.0 | 6.488 | Α |
| D-BC | 17.62 | 399.02 | 0.044 | 17.62 | 0.0 | 9.438 | Α |
| C-ABD | 223.48 | 591.38 | 0.378 | 223.45 | 0.7 | 9.799 | Α |
| C-D | 4.69 | | | 4.69 | | | |
| C-A | 140.67 | | | 140.67 | | | |

Main results: (08:45-09:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 47.65 | 616.93 | 0.077 | 47.74 | 0.1 | 6.325 | Α |
| B-AD | 55.74 | 371.71 | 0.150 | 56.00 | 0.2 | 11.414 | В |
| A-BCD | 5.42 | 574.49 | 0.009 | 5.43 | 0.0 | 6.325 | Α |
| A-B | 180.68 | | | 180.68 | | | |
| A-C | 123.15 | | | 123.15 | | | |
| D-A | 18.88 | 590.72 | 0.032 | 18.91 | 0.0 | 6.295 | Α |
| D-BC | 14.38 | 420.54 | 0.034 | 14.42 | 0.0 | 8.866 | Α |
| C-ABD | 174.85 | 585.56 | 0.299 | 175.68 | 0.5 | 8.817 | Α |
| C-D | 4.07 | | | 4.07 | | | |
| C-A | 122.23 | | | 122.23 | | | |

Main results: (09:00-09:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 39.90 | 632.16 | 0.063 | 39.97 | 0.1 | 6.081 | Α |
| B-AD | 46.68 | 392.21 | 0.119 | 46.85 | 0.1 | 10.430 | В |
| A-BCD | 4.53 | 581.75 | 0.008 | 4.54 | 0.0 | 6.238 | Α |
| A-B | 151.31 | | | 151.31 | | | |
| A-C | 103.13 | | | 103.13 | | | |
| D-A | 15.81 | 600.06 | 0.026 | 15.83 | 0.0 | 6.163 | Α |
| D-BC | 12.05 | 436.13 | 0.028 | 12.07 | 0.0 | 8.489 | Α |
| C-ABD | 142.89 | 584.27 | 0.245 | 143.38 | 0.3 | 8.182 | Α |
| C-D | 3.53 | | | 3.53 | | | |
| C-A | 105.79 | | | 105.79 | | | |

Proposed Junction - 2036 Future Cumulative Assessment Scenario, Weekday PM peak (1645-1745)

Data Errors and Warnings

No errors or warnings

Analysis Set Details

| ID | Name | Description | Network flow scaling factor (%) |
|----|-------------------|---------------------------------------|---------------------------------|
| A1 | Proposed Junction | Queen Street / Mill Lane / Grove Farm | 100.000 |

Junction Network

Junctions

| Junction | Name | Junction Type | Major road direction | Junction Delay (s) | Junction LOS |
|----------|--------------------------|--------------------|----------------------|--------------------|--------------|
| 1 | Queen Street / Mill Lane | Right-Left Stagger | Two-way | 5.55 | Α |

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

| | ID | Scenario name | Time Period name | Traffic profile type | Model start time (HH:mm) | Model finish time (HH:mm) | Time segment length (min) |
|--|----|---|---------------------------------|----------------------|-----------------------------|------------------------------|---------------------------|
| | D2 | 2036 Future Cumulative Assessment Scenario | Weekday PM peak (1645- 1745) | ONE HOUR | 16:30 | 18:00 | 15 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓ | ✓ | HV Percentages | 2.00 |

Demand overview (Traffic)

| Arm | Linked arm | Use O-D data | Average Demand (Veh/hr) | Scaling Factor (%) | |
|-----|------------|--------------|-------------------------|--------------------|--|
| Α | ✓ | | 238.00 | 100.000 | |
| В | | ✓ | 308.00 | 100.000 | |
| С | | ✓ | 165.00 | 100.000 | |
| D | | ✓ | 13.00 | 100.000 | |

Origin-Destination Data

Demand (Veh/hr)

| | | То | | | | | | |
|------|---|---------|--------|---------|--------|--|--|--|
| | | Α | В | С | D | | | |
| | Α | 0.000 | 42.000 | 177.000 | 19.000 | | | |
| From | В | 156.000 | 0.000 | 152.000 | 0.000 | | | |
| | С | 120.000 | 30.000 | 0.000 | 15.000 | | | |
| | D | 7.000 | 0.000 | 6.000 | 0.000 | | | |

Vehicle Mix

Heavy Vehicle proportion

| | | То | | | | | |
|------|---|----|---|---|---|--|--|
| | | Α | В | С | D | | |
| | Α | 0 | 0 | 2 | 0 | | |
| From | В | 0 | 0 | 2 | 0 | | |
| | С | 3 | 7 | 0 | 0 | | |
| | D | 0 | 0 | 0 | 0 | | |

Detailed Demand Data

Demand for each time segment

| | | | _ | | |
|--------------|--------------|-----------------|--|--|--|
| Time Segment | Arm | Demand (Veh/hr) | Demand in PCU (PCU/hr) | | |
| | Α | 179.18 | 181.84 | | |
| 16:30-16:45 | В | 231.88 | 234.28 | | |
| 16:30-16:45 | С | 124.22 | 128.29 | | |
| | D | 9.79 | 9.79 | | |
| | Α | 213.96 | 217.14 | | |
| 16:45-17:00 | В | 276.89 | 279.76 | | |
| | С | 148.33 | 153.19 | | |
| | D | 11.69 | 11.69 | | |
| 17:00-17:15 | Α | 262.04 | 265.94 | | |
| | В | 339.11 | 342.63 | | |
| | С | 181.67 | 187.61 | | |
| | D | 14.31 | 14.31 | | |
| | Α | 262.04 | 265.94 | | |
| 17:15-17:30 | В | 339.11 | 342.63 | | |
| 17:15-17:30 | С | 181.67 | 187.61 | | |
| | D | 14.31 | 14.31 | | |
| 17:30-17:45 | Α | 213.96 | 217.14 | | |
| | В | 276.89 | 279.76 | | |
| | С | 148.33 | 153.19 | | |
| | D | 11.69 | 11.69 | | |
| | - | | | | |

| | Α | 179.18 | 181.84 |
|-------------|---|--------|--------|
| 17:45-18:00 | В | 231.88 | 234.28 |
| | С | 124.22 | 128.29 |
| | D | 9.79 | 9.79 |

Results

Results Summary for whole modelled period

| Stream | Max RFC | Max delay (s) | Max Queue (Veh) | Max LOS |
|--------|---------|---------------|-----------------|---------|
| B-C | 0.29 | 8.87 | 0.4 | Α |
| B-AD | 0.41 | 14.48 | 0.7 | В |
| A-BCD | 0.04 | 6.77 | 0.0 | Α |
| A-B | | | | |
| A-C | | | | |
| D-A | 0.01 | 6.47 | 0.0 | Α |
| D-BC | 0.02 | 8.98 | 0.0 | Α |
| C-ABD | 0.06 | 6.92 | 0.1 | Α |
| C-D | | | | |
| C-A | | | | |

Main Results for each time segment

Main results: (16:30-16:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| в-с | 114.43 | 646.36 | 0.177 | 113.58 | 0.2 | 6.745 | Α |
| B-AD | 117.44 | 457.78 | 0.257 | 116.09 | 0.3 | 10.503 | В |
| A-BCD | 14.41 | 572.93 | 0.025 | 14.31 | 0.0 | 6.444 | Α |
| A-B | 31.60 | | | 31.60 | | | |
| A-C | 133.17 | | | 133.17 | | | |
| D-A | 5.27 | 589.86 | 0.009 | 5.23 | 0.0 | 6.157 | Α |
| D-BC | 4.52 | 445.82 | 0.010 | 4.48 | 0.0 | 8.157 | Α |
| C-ABD | 22.79 | 566.85 | 0.040 | 22.62 | 0.0 | 6.613 | Α |
| C-D | 11.27 | | | 11.27 | | | |
| C-A | 90.16 | | | 90.16 | | | |

Main results: (16:45-17:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 136.64 | 618.90 | 0.221 | 136.38 | 0.3 | 7.458 | Α |
| B-AD | 140.24 | 443.08 | 0.317 | 139.78 | 0.5 | 11.832 | В |
| A-BCD | 17.26 | 564.25 | 0.031 | 17.24 | 0.0 | 6.580 | Α |
| A-B | 37.72 | | | 37.72 | | | |
| A-C | 158.97 | | | 158.97 | | | |
| D-A | 6.29 | 578.87 | 0.011 | 6.29 | 0.0 | 6.286 | Α |
| D-BC | 5.39 | 429.76 | 0.013 | 5.38 | 0.0 | 8.482 | Α |
| C-ABD | 27.32 | 561.35 | 0.049 | 27.28 | 0.1 | 6.740 | Α |
| C-D | 13.45 | | | 13.45 | | | |
| C-A | 107.57 | | | 107.57 | | | |

Main results: (17:00-17:15)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 167.36 | 574.27 | 0.291 | 166.85 | 0.4 | 8.825 | Α |
| B-AD | 171.76 | 420.45 | 0.409 | 170.88 | 0.7 | 14.373 | В |
| A-BCD | 21.28 | 553.25 | 0.038 | 21.24 | 0.0 | 6.766 | Α |
| A-B | 46.17 | | | 46.17 | | | |
| A-C | 194.59 | | | 194.59 | | | |
| D-A | 7.71 | 564.08 | 0.014 | 7.70 | 0.0 | 6.469 | Α |
| D-BC | 6.61 | 407.74 | 0.016 | 6.59 | 0.0 | 8.974 | Α |
| C-ABD | 33.69 | 554.39 | 0.061 | 33.63 | 0.1 | 6.913 | Α |
| C-D | 16.44 | | | 16.44 | | | |
| C-A | 131.54 | | | 131.54 | | | |

Main results: (17:15-17:30)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 167.36 | 573.36 | 0.292 | 167.34 | 0.4 | 8.866 | Α |
| B-AD | 171.76 | 420.27 | 0.409 | 171.72 | 0.7 | 14.479 | В |
| A-BCD | 21.28 | 553.07 | 0.038 | 21.28 | 0.0 | 6.771 | Α |
| A-B | 46.17 | | | 46.17 | | | |
| A-C | 194.59 | | | 194.59 | | | |
| D-A | 7.71 | 563.84 | 0.014 | 7.71 | 0.0 | 6.472 | Α |
| D-BC | 6.61 | 407.58 | 0.016 | 6.61 | 0.0 | 8.977 | Α |
| C-ABD | 33.69 | 554.32 | 0.061 | 33.69 | 0.1 | 6.916 | Α |
| C-D | 16.44 | | | 16.44 | | | |
| C-A | 131.54 | | | 131.54 | | | |

Main results: (17:30-17:45)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 136.64 | 617.81 | 0.221 | 137.13 | 0.3 | 7.496 | Α |
| B-AD | 140.24 | 442.89 | 0.317 | 141.08 | 0.5 | 11.963 | В |
| A-BCD | 17.27 | 563.98 | 0.031 | 17.30 | 0.0 | 6.587 | Α |
| A-B | 37.72 | | | 37.72 | | | |
| A-C | 158.97 | | | 158.97 | | | |
| D-A | 6.29 | 578.49 | 0.011 | 6.30 | 0.0 | 6.291 | Α |
| D-BC | 5.39 | 429.54 | 0.013 | 5.41 | 0.0 | 8.489 | Α |
| C-ABD | 27.32 | 561.21 | 0.049 | 27.37 | 0.1 | 6.742 | Α |
| C-D | 13.45 | | | 13.45 | | | |
| C-A | 107.57 | | | 107.57 | | | |

Main results: (17:45-18:00)

| Stream | Total Demand (Veh/hr) | Capacity (Veh/hr) | RFC | Throughput (Veh/hr) | End queue (Veh) | Delay (s) | LOS |
|--------|-----------------------|-------------------|-------|---------------------|-----------------|-----------|-----|
| B-C | 114.43 | 645.11 | 0.177 | 114.71 | 0.2 | 6.790 | Α |
| B-AD | 117.44 | 457.56 | 0.257 | 117.93 | 0.4 | 10.614 | В |
| A-BCD | 14.41 | 572.50 | 0.025 | 14.43 | 0.0 | 6.450 | Α |
| A-B | 31.60 | | | 31.60 | | | |
| A-C | 133.17 | | | 133.17 | | | |
| D-A | 5.27 | 589.31 | 0.009 | 5.28 | 0.0 | 6.165 | Α |
| D-BC | 4.52 | 445.57 | 0.010 | 4.53 | 0.0 | 8.163 | Α |
| C-ABD | 22.79 | 566.79 | 0.040 | 22.83 | 0.0 | 6.619 | Α |
| C-D | 11.27 | | | 11.27 | | | |
| C-A | 90.16 | | | 90.16 | | | |