

**T20517**

**Brascote Lane, Newbold Verdon**

---

## Appendix P

### B585/Heath Road – PICADY Assessment

| Junctions 10                                                                                                                                                     |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| PICADY 10 - Priority Intersection Module                                                                                                                         |  |  |  |  |
| Version: 10.0.4.1693                                                                                                                                             |  |  |  |  |
| © Copyright TRL Software Limited, 2021                                                                                                                           |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:<br>+44 (0)1344 379777 software@trl.co.uk trlsoftware.com           |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |

Filename: T20517 - B585-Heath Rd PRTM.j10

Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs

Report generation date: 28/04/2023 13:57:52

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

### Summary of junction performance

|             | AM                  |             |           |      |     | PM     |             |           |      |     |
|-------------|---------------------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|
|             | Set ID              | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |
|             | 2023 Base           |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D1                  | 0.0         | 5.91      | 0.01 | A   | D2     | 0.0         | 6.20      | 0.02 | A   |
| Stream B-A  |                     | 0.1         | 8.08      | 0.09 | A   |        | 0.2         | 8.95      | 0.19 | A   |
| Stream C-AB |                     | 0.1         | 5.78      | 0.04 | A   |        | 0.0         | 5.01      | 0.01 | A   |
|             | 2024 Growth Base    |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D3                  | 0.0         | 5.91      | 0.01 | A   | D4     | 0.0         | 6.21      | 0.02 | A   |
| Stream B-A  |                     | 0.1         | 8.09      | 0.09 | A   |        | 0.2         | 8.99      | 0.19 | A   |
| Stream C-AB |                     | 0.1         | 5.78      | 0.04 | A   |        | 0.0         | 5.00      | 0.01 | A   |
|             | 2029 Adjusted Base  |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D5                  | 0.0         | 6.26      | 0.01 | A   | D6     | 0.0         | 6.53      | 0.02 | A   |
| Stream B-A  |                     | 0.2         | 8.84      | 0.15 | A   |        | 0.4         | 10.43     | 0.29 | B   |
| Stream C-AB |                     | 0.1         | 6.40      | 0.04 | A   |        | 0.0         | 5.05      | 0.01 | A   |
|             | 2029 + Dev Adjusted |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D7                  | 0.0         | 6.62      | 0.02 | A   | D8     | 0.0         | 6.62      | 0.02 | A   |
| Stream B-A  |                     | 0.4         | 10.87     | 0.29 | B   |        | 0.4         | 10.49     | 0.30 | B   |
| Stream C-AB |                     | 0.0         | 5.69      | 0.01 | A   |        | 0.0         | 5.21      | 0.01 | 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       | B585/Heath Road     |
| Location    | Newbold Verdon      |
| Site number |                     |
| Date        | 03/04/2023          |
| Version     |                     |
| Status      | (new file)          |
| Identifier  |                     |
| Client      | Richborough Estates |
| Jobnumber   | T20517              |
| Enumerator  | AzureAD/MaxLaw      |
| 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         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Show lane queues in feet / metres | Show all PICADY stream intercepts | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use iterations with HCM roundabouts | Max number of iterations for roundabouts |
|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|-------------------------------------|------------------------------------------|
| 5.75               |                             |                                   |                                   |                                   |                             | 0.85          | 38.00                       | 20.00                 |                                     | 500                                      |

## Demand Set Summary

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base           | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D2 | 2023 Base           | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D3 | 2024 Growth Base    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D4 | 2024 Growth Base    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D5 | 2029 Adjusted Base  | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D6 | 2029 Adjusted Base  | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D7 | 2029 + Dev Adjusted | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2023 Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.10               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.10              | A           |

## Arms

### Arms

| Arm | Name       | Description | Arm type |
|-----|------------|-------------|----------|
| A   | B585 (NW)  |             | Major    |
| B   | Heath Road |             | Minor    |
| C   | B585 (SE)  |             | Major    |

### Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right-turn storage | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|------------------------|-------------------------------|---------|----------------------|
| C   | 6.40                     |                            |                        | 210.0                         | ✓       | 0.00                 |

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) |
|-----|---------------------|-----------------------|-----------------|------------------|------------------|------------------|-----------------------|--------------------|------------------------|-------------------------|
| B   | One lane plus flare | 10.00                 | 10.00           | 8.00             | 4.80             | 3.00             | ✓                     | 2.00               | 45                     | 50                      |

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

| Stream | Intercept (PCU/hr) | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|--------------------|---------------|---------------|---------------|---------------|
| B-A    | 594                | 0.106         | 0.269         | 0.169         | 0.384         |
| B-C    | 677                | 0.102         | 0.258         | -             | -             |
| C-B    | 696                | 0.265         | 0.265         | -             | -             |

The slopes and intercepts shown above include custom intercept adjustments only.

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 | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base     | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 237                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 43                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 176                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
|      | A  | B   | C  |     |
| From | A  | 0   | 94 | 143 |
|      | B  | 40  | 0  | 3   |
|      | C  | 154 | 22 | 0   |
|      |    |     |    |     |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |    |   |
|------|----|---|----|---|
|      | A  | B | C  |   |
| From | A  | 0 | 7  | 3 |
|      | B  | 3 | 0  | 0 |
|      | C  | 7 | 14 | 0 |
|      |    |   |    |   |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.01    | 5.91          | 0.0             | A       | 3                       | 4                             |
| B-A    | 0.09    | 8.08          | 0.1             | A       | 37                      | 55                            |
| C-AB   | 0.04    | 5.78          | 0.1             | A       | 25                      | 38                            |
| C-A    |         |               |                 |         | 136                     | 204                           |
| A-B    |         |               |                 |         | 86                      | 129                           |
| A-C    |         |               |                 |         | 131                     | 197                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 2                     | 0.56                    | 633               | 0.004 | 2                   | 0.0               | 0.0             | 5.704     | A                             |
| B-A    | 30                    | 8                       | 532               | 0.057 | 30                  | 0.0               | 0.1             | 7.385     | A                             |
| C-AB   | 20                    | 5                       | 723               | 0.027 | 20                  | 0.0               | 0.0             | 5.778     | A                             |
| C-A    | 113                   | 28                      |                   |       | 113                 |                   |                 |           |                               |
| A-B    | 71                    | 18                      |                   |       | 71                  |                   |                 |           |                               |
| A-C    | 108                   | 27                      |                   |       | 108                 |                   |                 |           |                               |

### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.67                    | 624               | 0.004 | 3                   | 0.0               | 0.0             | 5.789     | A                             |
| B-A    | 36                    | 9                       | 520               | 0.069 | 36                  | 0.1               | 0.1             | 7.667     | A                             |
| C-AB   | 24                    | 6                       | 728               | 0.034 | 24                  | 0.0               | 0.1             | 5.762     | A                             |
| C-A    | 134                   | 33                      |                   |       | 134                 |                   |                 |           |                               |
| A-B    | 85                    | 21                      |                   |       | 85                  |                   |                 |           |                               |
| A-C    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |

### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.83                    | 612               | 0.005 | 3                   | 0.0               | 0.0             | 5.910     | A                             |
| B-A    | 44                    | 11                      | 503               | 0.088 | 44                  | 0.1               | 0.1             | 8.079     | A                             |
| C-AB   | 32                    | 8                       | 737               | 0.043 | 31                  | 0.1               | 0.1             | 5.736     | A                             |
| C-A    | 162                   | 41                      |                   |       | 162                 |                   |                 |           |                               |
| A-B    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |
| A-C    | 157                   | 39                      |                   |       | 157                 |                   |                 |           |                               |

### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.83                    | 612               | 0.005 | 3                   | 0.0               | 0.0             | 5.910     | A                             |
| B-A    | 44                    | 11                      | 503               | 0.088 | 44                  | 0.1               | 0.1             | 8.083     | A                             |
| C-AB   | 32                    | 8                       | 737               | 0.043 | 32                  | 0.1               | 0.1             | 5.732     | A                             |
| C-A    | 162                   | 41                      |                   |       | 162                 |                   |                 |           |                               |
| A-B    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |
| A-C    | 157                   | 39                      |                   |       | 157                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.67                    | 624               | 0.004 | 3                   | 0.0               | 0.0             | 5.790     | A                             |
| B-A    | 36                    | 9                       | 519               | 0.069 | 36                  | 0.1               | 0.1             | 7.670     | A                             |
| C-AB   | 24                    | 6                       | 728               | 0.034 | 25                  | 0.1               | 0.1             | 5.752     | A                             |
| C-A    | 134                   | 33                      |                   |       | 134                 |                   |                 |           |                               |
| A-B    | 85                    | 21                      |                   |       | 85                  |                   |                 |           |                               |
| A-C    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 2                     | 0.56                    | 633               | 0.004 | 2                   | 0.0               | 0.0             | 5.708     | A                             |
| B-A    | 30                    | 8                       | 532               | 0.057 | 30                  | 0.1               | 0.1             | 7.394     | A                             |
| C-AB   | 20                    | 5                       | 723               | 0.027 | 20                  | 0.1               | 0.0             | 5.775     | A                             |
| C-A    | 113                   | 28                      |                   |       | 113                 |                   |                 |           |                               |
| A-B    | 71                    | 18                      |                   |       | 71                  |                   |                 |           |                               |
| A-C    | 108                   | 27                      |                   |       | 108                 |                   |                 |           |                               |

# 2023 Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.75               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.75              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2023 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 234                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 95                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 160                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
|      | A  | B   | C  |     |
| From | A  | 0   | 46 | 188 |
|      | B  | 86  | 0  | 9   |
|      | C  | 155 | 5  | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 4 | 3 |
|      | B  | 1 | 0 | 0 |
|      | C  | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.02    | 6.20          | 0.0             | A       | 8                       | 12                            |
| B-A    | 0.19    | 8.95          | 0.2             | A       | 79                      | 118                           |
| C-AB   | 0.01    | 5.01          | 0.0             | A       | 6                       | 9                             |
| C-A    |         |               |                 |         | 141                     | 212                           |
| A-B    |         |               |                 |         | 42                      | 63                            |
| A-C    |         |               |                 |         | 173                     | 259                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 619               | 0.011 | 7                   | 0.0               | 0.0             | 5.874     | A                             |
| B-A    | 65                    | 16                      | 530               | 0.122 | 64                  | 0.0               | 0.1             | 7.794     | A                             |
| C-AB   | 4                     | 1                       | 724               | 0.006 | 4                   | 0.0               | 0.0             | 5.006     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 35                    | 9                       |                   |       | 35                  |                   |                 |           |                               |
| A-C    | 142                   | 35                      |                   |       | 142                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 607               | 0.013 | 8                   | 0.0               | 0.0             | 6.007     | A                             |
| B-A    | 77                    | 19                      | 518               | 0.149 | 77                  | 0.1               | 0.2             | 8.247     | A                             |
| C-AB   | 6                     | 1                       | 730               | 0.008 | 6                   | 0.0               | 0.0             | 4.971     | A                             |
| C-A    | 138                   | 35                      |                   |       | 138                 |                   |                 |           |                               |
| A-B    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-C    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 590               | 0.017 | 10                  | 0.0               | 0.0             | 6.201     | A                             |
| B-A    | 95                    | 24                      | 501               | 0.189 | 94                  | 0.2               | 0.2             | 8.938     | A                             |
| C-AB   | 7                     | 2                       | 739               | 0.010 | 7                   | 0.0               | 0.0             | 4.921     | A                             |
| C-A    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |
| A-B    | 51                    | 13                      |                   |       | 51                  |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 590               | 0.017 | 10                  | 0.0               | 0.0             | 6.202     | A                             |
| B-A    | 95                    | 24                      | 501               | 0.189 | 95                  | 0.2               | 0.2             | 8.946     | A                             |
| C-AB   | 7                     | 2                       | 739               | 0.010 | 7                   | 0.0               | 0.0             | 4.923     | A                             |
| C-A    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |
| A-B    | 51                    | 13                      |                   |       | 51                  |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 607               | 0.013 | 8                   | 0.0               | 0.0             | 6.008     | A                             |
| B-A    | 77                    | 19                      | 518               | 0.149 | 78                  | 0.2               | 0.2             | 8.280     | A                             |
| C-AB   | 6                     | 1                       | 730               | 0.008 | 6                   | 0.0               | 0.0             | 4.973     | A                             |
| C-A    | 138                   | 35                      |                   |       | 138                 |                   |                 |           |                               |
| A-B    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-C    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 619               | 0.011 | 7                   | 0.0               | 0.0             | 5.879     | A                             |
| B-A    | 65                    | 16                      | 530               | 0.122 | 65                  | 0.2               | 0.1             | 7.818     | A                             |
| C-AB   | 4                     | 1                       | 724               | 0.006 | 4                   | 0.0               | 0.0             | 5.006     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 35                    | 9                       |                   |       | 35                  |                   |                 |           |                               |
| A-C    | 142                   | 35                      |                   |       | 142                 |                   |                 |           |                               |

# 2024 Growth Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.09               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.09              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2024 Growth Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 239                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 43                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 177                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |    |     |
|--|----|-----|----|-----|
|  |    | A   | B  | C   |
|  | A  | 0   | 95 | 144 |
|  | B  | 40  | 0  | 3   |
|  | C  | 155 | 22 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |    |   |
|--|----|---|----|---|
|  |    | A | B  | C |
|  | A  | 0 | 7  | 3 |
|  | B  | 3 | 0  | 0 |
|  | C  | 7 | 14 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.01    | 5.91          | 0.0             | A       | 3                       | 4                             |
| B-A    | 0.09    | 8.09          | 0.1             | A       | 37                      | 55                            |
| C-AB   | 0.04    | 5.78          | 0.1             | A       | 25                      | 38                            |
| C-A    |         |               |                 |         | 137                     | 208                           |
| A-B    |         |               |                 |         | 87                      | 131                           |
| A-C    |         |               |                 |         | 132                     | 198                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 2                     | 0.58                    | 633               | 0.004 | 2                   | 0.0               | 0.0             | 5.707     | A                             |
| B-A    | 30                    | 8                       | 531               | 0.057 | 30                  | 0.0               | 0.1             | 7.392     | A                             |
| C-AB   | 20                    | 5                       | 723               | 0.027 | 20                  | 0.0               | 0.0             | 5.777     | A                             |
| C-A    | 114                   | 28                      |                   |       | 114                 |                   |                 |           |                               |
| A-B    | 72                    | 18                      |                   |       | 72                  |                   |                 |           |                               |
| A-C    | 108                   | 27                      |                   |       | 108                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.67                    | 624               | 0.004 | 3                   | 0.0               | 0.0             | 5.792     | A                             |
| B-A    | 38                    | 9                       | 519               | 0.089 | 38                  | 0.1               | 0.1             | 7.674     | A                             |
| C-AB   | 24                    | 6                       | 729               | 0.034 | 24                  | 0.0               | 0.1             | 5.760     | A                             |
| C-A    | 135                   | 34                      |                   |       | 135                 |                   |                 |           |                               |
| A-B    | 85                    | 21                      |                   |       | 85                  |                   |                 |           |                               |
| A-C    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.83                    | 612               | 0.005 | 3                   | 0.0               | 0.0             | 5.914     | A                             |
| B-A    | 44                    | 11                      | 502               | 0.088 | 44                  | 0.1               | 0.1             | 8.089     | A                             |
| C-AB   | 32                    | 8                       | 737               | 0.043 | 31                  | 0.1               | 0.1             | 5.734     | A                             |
| C-A    | 163                   | 41                      |                   |       | 163                 |                   |                 |           |                               |
| A-B    | 105                   | 26                      |                   |       | 105                 |                   |                 |           |                               |
| A-C    | 159                   | 40                      |                   |       | 159                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.83                    | 612               | 0.005 | 3                   | 0.0               | 0.0             | 5.914     | A                             |
| B-A    | 44                    | 11                      | 502               | 0.088 | 44                  | 0.1               | 0.1             | 8.094     | A                             |
| C-AB   | 32                    | 8                       | 737               | 0.043 | 32                  | 0.1               | 0.1             | 5.729     | A                             |
| C-A    | 163                   | 41                      |                   |       | 163                 |                   |                 |           |                               |
| A-B    | 105                   | 26                      |                   |       | 105                 |                   |                 |           |                               |
| A-C    | 159                   | 40                      |                   |       | 159                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.67                    | 624               | 0.004 | 3                   | 0.0               | 0.0             | 5.795     | A                             |
| B-A    | 36                    | 9                       | 519               | 0.069 | 36                  | 0.1               | 0.1             | 7.681     | A                             |
| C-AB   | 25                    | 6                       | 729               | 0.034 | 25                  | 0.1               | 0.1             | 5.750     | A                             |
| C-A    | 135                   | 34                      |                   |       | 135                 |                   |                 |           |                               |
| A-B    | 85                    | 21                      |                   |       | 85                  |                   |                 |           |                               |
| A-C    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 2                     | 0.56                    | 633               | 0.004 | 2                   | 0.0               | 0.0             | 5.708     | A                             |
| B-A    | 30                    | 8                       | 531               | 0.057 | 30                  | 0.1               | 0.1             | 7.400     | A                             |
| C-AB   | 20                    | 5                       | 723               | 0.027 | 20                  | 0.1               | 0.0             | 5.774     | A                             |
| C-A    | 113                   | 28                      |                   |       | 113                 |                   |                 |           |                               |
| A-B    | 72                    | 18                      |                   |       | 72                  |                   |                 |           |                               |
| A-C    | 108                   | 27                      |                   |       | 108                 |                   |                 |           |                               |

# 2024 Growth Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.76               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.76              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D4 | 2024 Growth Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 236                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 96                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 161                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
| From |    | A   | B  | C   |
|      | A  | 0   | 46 | 190 |
|      | B  | 87  | 0  | 9   |
|      | C  | 156 | 5  | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
| From |    | A | B | C |
|      | A  | 0 | 4 | 3 |
|      | B  | 1 | 0 | 0 |
|      | C  | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.02    | 6.21          | 0.0             | A       | 8                       | 12                            |
| B-A    | 0.19    | 8.99          | 0.2             | A       | 80                      | 120                           |
| C-AB   | 0.01    | 5.00          | 0.0             | A       | 6                       | 9                             |
| C-A    |         |               |                 |         | 142                     | 213                           |
| A-B    |         |               |                 |         | 42                      | 63                            |
| A-C    |         |               |                 |         | 174                     | 262                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 619               | 0.011 | 7                   | 0.0               | 0.0             | 5.881     | A                             |
| B-A    | 65                    | 16                      | 530               | 0.124 | 65                  | 0.0               | 0.1             | 7.815     | A                             |
| C-AB   | 4                     | 1                       | 724               | 0.006 | 4                   | 0.0               | 0.0             | 5.005     | A                             |
| C-A    | 117                   | 29                      |                   |       | 117                 |                   |                 |           |                               |
| A-B    | 35                    | 9                       |                   |       | 35                  |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 606               | 0.013 | 8                   | 0.0               | 0.0             | 6.015     | A                             |
| B-A    | 78                    | 20                      | 517               | 0.151 | 78                  | 0.1               | 0.2             | 8.275     | A                             |
| C-AB   | 6                     | 1                       | 730               | 0.008 | 6                   | 0.0               | 0.0             | 4.970     | A                             |
| C-A    | 139                   | 35                      |                   |       | 139                 |                   |                 |           |                               |
| A-B    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-C    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 589               | 0.017 | 10                  | 0.0               | 0.0             | 6.212     | A                             |
| B-A    | 96                    | 24                      | 500               | 0.191 | 96                  | 0.2               | 0.2             | 8.975     | A                             |
| C-AB   | 7                     | 2                       | 739               | 0.010 | 7                   | 0.0               | 0.0             | 4.920     | A                             |
| C-A    | 170                   | 43                      |                   |       | 170                 |                   |                 |           |                               |
| A-B    | 51                    | 13                      |                   |       | 51                  |                   |                 |           |                               |
| A-C    | 209                   | 52                      |                   |       | 209                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 589               | 0.017 | 10                  | 0.0               | 0.0             | 6.213     | A                             |
| B-A    | 96                    | 24                      | 500               | 0.191 | 96                  | 0.2               | 0.2             | 8.987     | A                             |
| C-AB   | 7                     | 2                       | 739               | 0.010 | 7                   | 0.0               | 0.0             | 4.922     | A                             |
| C-A    | 170                   | 43                      |                   |       | 170                 |                   |                 |           |                               |
| A-B    | 51                    | 13                      |                   |       | 51                  |                   |                 |           |                               |
| A-C    | 209                   | 52                      |                   |       | 209                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 806               | 0.013 | 8                   | 0.0               | 0.0             | 6.019     | A                             |
| B-A    | 78                    | 20                      | 517               | 0.151 | 78                  | 0.2               | 0.2             | 8.290     | A                             |
| C-AB   | 6                     | 1                       | 730               | 0.008 | 6                   | 0.0               | 0.0             | 4.972     | A                             |
| C-A    | 139                   | 35                      |                   |       | 139                 |                   |                 |           |                               |
| A-B    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-C    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 819               | 0.011 | 7                   | 0.0               | 0.0             | 5.886     | A                             |
| B-A    | 65                    | 16                      | 530               | 0.124 | 66                  | 0.2               | 0.1             | 7.839     | A                             |
| C-AB   | 4                     | 1                       | 724               | 0.006 | 5                   | 0.0               | 0.0             | 5.005     | A                             |
| C-A    | 117                   | 29                      |                   |       | 117                 |                   |                 |           |                               |
| A-B    | 35                    | 9                       |                   |       | 35                  |                   |                 |           |                               |
| A-C    | 143                   | 38                      |                   |       | 143                 |                   |                 |           |                               |

# 2029 Adjusted Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.45               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.45              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D5 | 2029 Adjusted Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 337                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 68                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 110                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |     |     |
|------|----|----|-----|-----|
|      | A  | B  | C   |     |
| From | A  | 0  | 119 | 218 |
|      | B  | 65 | 0   | 3   |
|      | C  | 89 | 21  | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |    |   |
|------|----|---|----|---|
|      | A  | B | C  |   |
| From | A  | 0 | 7  | 3 |
|      | B  | 3 | 0  | 0 |
|      | C  | 7 | 14 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.01    | 6.26          | 0.0             | A       | 3                       | 4                             |
| B-A    | 0.15    | 8.84          | 0.2             | A       | 60                      | 89                            |
| C-AB   | 0.04    | 6.40          | 0.1             | A       | 22                      | 33                            |
| C-A    |         |               |                 |         | 79                      | 118                           |
| A-B    |         |               |                 |         | 109                     | 164                           |
| A-C    |         |               |                 |         | 200                     | 300                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 2                     | 0.56                    | 609               | 0.004 | 2                   | 0.0               | 0.0             | 5.928     | A                             |
| B-A    | 49                    | 12                      | 524               | 0.093 | 49                  | 0.0               | 0.1             | 7.789     | A                             |
| C-AB   | 18                    | 4                       | 672               | 0.026 | 17                  | 0.0               | 0.0             | 6.229     | A                             |
| C-A    | 65                    | 16                      |                   |       | 65                  |                   |                 |           |                               |
| A-B    | 90                    | 22                      |                   |       | 90                  |                   |                 |           |                               |
| A-C    | 164                   | 41                      |                   |       | 164                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.67                    | 596               | 0.005 | 3                   | 0.0               | 0.0             | 6.064     | A                             |
| B-A    | 58                    | 15                      | 510               | 0.115 | 58                  | 0.1               | 0.1             | 8.201     | A                             |
| C-AB   | 21                    | 5                       | 668               | 0.032 | 21                  | 0.0               | 0.0             | 6.301     | A                             |
| C-A    | 77                    | 19                      |                   |       | 77                  |                   |                 |           |                               |
| A-B    | 107                   | 27                      |                   |       | 107                 |                   |                 |           |                               |
| A-C    | 196                   | 49                      |                   |       | 196                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.83                    | 578               | 0.006 | 3                   | 0.0               | 0.0             | 6.263     | A                             |
| B-A    | 72                    | 18                      | 491               | 0.146 | 71                  | 0.1               | 0.2             | 8.828     | A                             |
| C-AB   | 27                    | 7                       | 663               | 0.041 | 27                  | 0.0               | 0.1             | 6.398     | A                             |
| C-A    | 94                    | 23                      |                   |       | 94                  |                   |                 |           |                               |
| A-B    | 131                   | 33                      |                   |       | 131                 |                   |                 |           |                               |
| A-C    | 240                   | 60                      |                   |       | 240                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.83                    | 578               | 0.006 | 3                   | 0.0               | 0.0             | 6.264     | A                             |
| B-A    | 72                    | 18                      | 491               | 0.146 | 72                  | 0.2               | 0.2             | 8.835     | A                             |
| C-AB   | 27                    | 7                       | 663               | 0.041 | 27                  | 0.1               | 0.1             | 6.396     | A                             |
| C-A    | 94                    | 23                      |                   |       | 94                  |                   |                 |           |                               |
| A-B    | 131                   | 33                      |                   |       | 131                 |                   |                 |           |                               |
| A-C    | 240                   | 60                      |                   |       | 240                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 3                     | 0.67                    | 596               | 0.005 | 3                   | 0.0               | 0.0             | 6.065     | A                             |
| B-A    | 58                    | 15                      | 510               | 0.115 | 59                  | 0.2               | 0.1             | 8.213     | A                             |
| C-AB   | 21                    | 5                       | 668               | 0.032 | 22                  | 0.1               | 0.0             | 6.294     | A                             |
| C-A    | 77                    | 19                      |                   |       | 77                  |                   |                 |           |                               |
| A-B    | 107                   | 27                      |                   |       | 107                 |                   |                 |           |                               |
| A-C    | 196                   | 49                      |                   |       | 196                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 2                     | 0.56                    | 609               | 0.004 | 2                   | 0.0               | 0.0             | 5.933     | A                             |
| B-A    | 49                    | 12                      | 524               | 0.093 | 49                  | 0.1               | 0.1             | 7.806     | A                             |
| C-AB   | 18                    | 4                       | 672               | 0.026 | 18                  | 0.0               | 0.0             | 6.228     | A                             |
| C-A    | 65                    | 16                      |                   |       | 65                  |                   |                 |           |                               |
| A-B    | 90                    | 22                      |                   |       | 90                  |                   |                 |           |                               |
| A-C    | 164                   | 41                      |                   |       | 164                 |                   |                 |           |                               |

# 2029 Adjusted Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.56               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.56              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D6 | 2029 Adjusted Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 268                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 140                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 164                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
|      | A  | B   | C  |     |
| From | A  | 0   | 54 | 214 |
|      | B  | 131 | 0  | 9   |
|      | C  | 158 | 6  | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 4 | 3 |
|      | B  | 1 | 0 | 0 |
|      | C  | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.02    | 6.53          | 0.0             | A       | 8                       | 12                            |
| B-A    | 0.29    | 10.43         | 0.4             | B       | 120                     | 180                           |
| C-AB   | 0.01    | 5.05          | 0.0             | A       | 7                       | 10                            |
| C-A    |         |               |                 |         | 144                     | 215                           |
| A-B    |         |               |                 |         | 50                      | 74                            |
| A-C    |         |               |                 |         | 198                     | 295                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 601               | 0.011 | 7                   | 0.0               | 0.0             | 6.059     | A                             |
| B-A    | 99                    | 25                      | 525               | 0.188 | 98                  | 0.0               | 0.2             | 8.494     | A                             |
| C-AB   | 5                     | 1                       | 719               | 0.008 | 5                   | 0.0               | 0.0             | 5.046     | A                             |
| C-A    | 118                   | 30                      |                   |       | 118                 |                   |                 |           |                               |
| A-B    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-C    | 161                   | 40                      |                   |       | 161                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 585               | 0.014 | 8                   | 0.0               | 0.0             | 6.243     | A                             |
| B-A    | 118                   | 29                      | 511               | 0.230 | 117                 | 0.2               | 0.3             | 9.224     | A                             |
| C-AB   | 7                     | 2                       | 724               | 0.009 | 7                   | 0.0               | 0.0             | 5.018     | A                             |
| C-A    | 141                   | 35                      |                   |       | 141                 |                   |                 |           |                               |
| A-B    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-C    | 192                   | 48                      |                   |       | 192                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 561               | 0.018 | 10                  | 0.0               | 0.0             | 6.531     | A                             |
| B-A    | 144                   | 36                      | 493               | 0.293 | 144                 | 0.3               | 0.4             | 10.408    | B                             |
| C-AB   | 9                     | 2                       | 732               | 0.012 | 9                   | 0.0               | 0.0             | 4.978     | A                             |
| C-A    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |
| A-B    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-C    | 236                   | 59                      |                   |       | 236                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 561               | 0.018 | 10                  | 0.0               | 0.0             | 6.533     | A                             |
| B-A    | 144                   | 36                      | 493               | 0.293 | 144                 | 0.4               | 0.4             | 10.432    | B                             |
| C-AB   | 9                     | 2                       | 732               | 0.012 | 9                   | 0.0               | 0.0             | 4.980     | A                             |
| C-A    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |
| A-B    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-C    | 236                   | 59                      |                   |       | 236                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 584               | 0.014 | 8                   | 0.0               | 0.0             | 6.246     | A                             |
| B-A    | 118                   | 29                      | 511               | 0.230 | 118                 | 0.4               | 0.3             | 9.259     | A                             |
| C-AB   | 7                     | 2                       | 724               | 0.009 | 7                   | 0.0               | 0.0             | 5.018     | A                             |
| C-A    | 141                   | 35                      |                   |       | 141                 |                   |                 |           |                               |
| A-B    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-C    | 192                   | 48                      |                   |       | 192                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 600               | 0.011 | 7                   | 0.0               | 0.0             | 6.063     | A                             |
| B-A    | 99                    | 25                      | 525               | 0.188 | 99                  | 0.3               | 0.2             | 8.541     | A                             |
| C-AB   | 5                     | 1                       | 719               | 0.008 | 5                   | 0.0               | 0.0             | 5.048     | A                             |
| C-A    | 118                   | 30                      |                   |       | 118                 |                   |                 |           |                               |
| A-B    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-C    | 161                   | 40                      |                   |       | 161                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.49               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.49              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D7 | 2029 + Dev Adjusted | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 294                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 138                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 173                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |    |     |
|--|----|-----|----|-----|
|  |    | A   | B  | C   |
|  | A  | 0   | 53 | 241 |
|  | B  | 129 | 0  | 9   |
|  | C  | 167 | 6  | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |    |   |
|--|----|---|----|---|
|  |    | A | B  | C |
|  | A  | 0 | 7  | 3 |
|  | B  | 3 | 0  | 0 |
|  | C  | 7 | 14 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.02    | 6.62          | 0.0             | A       | 8                       | 12                            |
| B-A    | 0.29    | 10.87         | 0.4             | B       | 118                     | 178                           |
| C-AB   | 0.01    | 5.69          | 0.0             | A       | 7                       | 11                            |
| C-A    |         |               |                 |         | 152                     | 228                           |
| A-B    |         |               |                 |         | 49                      | 73                            |
| A-C    |         |               |                 |         | 221                     | 332                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 596               | 0.011 | 7                   | 0.0               | 0.0             | 6.107     | A                             |
| B-A    | 97                    | 24                      | 518               | 0.187 | 96                  | 0.0               | 0.2             | 8.765     | A                             |
| C-AB   | 5                     | 1                       | 718               | 0.008 | 5                   | 0.0               | 0.0             | 5.692     | A                             |
| C-A    | 125                   | 31                      |                   |       | 125                 |                   |                 |           |                               |
| A-B    | 40                    | 10                      |                   |       | 40                  |                   |                 |           |                               |
| A-C    | 181                   | 45                      |                   |       | 181                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 579               | 0.014 | 8                   | 0.0               | 0.0             | 6.306     | A                             |
| B-A    | 116                   | 29                      | 504               | 0.230 | 116                 | 0.2               | 0.3             | 9.553     | A                             |
| C-AB   | 7                     | 2                       | 724               | 0.009 | 7                   | 0.0               | 0.0             | 5.653     | A                             |
| C-A    | 149                   | 37                      |                   |       | 149                 |                   |                 |           |                               |
| A-B    | 48                    | 12                      |                   |       | 48                  |                   |                 |           |                               |
| A-C    | 217                   | 54                      |                   |       | 217                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 554               | 0.018 | 10                  | 0.0               | 0.0             | 6.617     | A                             |
| B-A    | 142                   | 36                      | 483               | 0.294 | 142                 | 0.3               | 0.4             | 10.840    | B                             |
| C-AB   | 9                     | 2                       | 731               | 0.012 | 9                   | 0.0               | 0.0             | 5.593     | A                             |
| C-A    | 182                   | 45                      |                   |       | 182                 |                   |                 |           |                               |
| A-B    | 58                    | 15                      |                   |       | 58                  |                   |                 |           |                               |
| A-C    | 265                   | 66                      |                   |       | 265                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 554               | 0.018 | 10                  | 0.0               | 0.0             | 6.619     | A                             |
| B-A    | 142                   | 36                      | 483               | 0.294 | 142                 | 0.4               | 0.4             | 10.869    | B                             |
| C-AB   | 9                     | 2                       | 731               | 0.012 | 9                   | 0.0               | 0.0             | 5.588     | A                             |
| C-A    | 182                   | 45                      |                   |       | 182                 |                   |                 |           |                               |
| A-B    | 58                    | 15                      |                   |       | 58                  |                   |                 |           |                               |
| A-C    | 265                   | 66                      |                   |       | 265                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 579               | 0.014 | 8                   | 0.0               | 0.0             | 6.309     | A                             |
| B-A    | 116                   | 29                      | 504               | 0.230 | 116                 | 0.4               | 0.3             | 9.589     | A                             |
| C-AB   | 7                     | 2                       | 724               | 0.009 | 7                   | 0.0               | 0.0             | 5.639     | A                             |
| C-A    | 149                   | 37                      |                   |       | 149                 |                   |                 |           |                               |
| A-B    | 48                    | 12                      |                   |       | 48                  |                   |                 |           |                               |
| A-C    | 217                   | 54                      |                   |       | 217                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 596               | 0.011 | 7                   | 0.0               | 0.0             | 6.112     | A                             |
| B-A    | 97                    | 24                      | 518               | 0.187 | 97                  | 0.3               | 0.2             | 8.817     | A                             |
| C-AB   | 5                     | 1                       | 718               | 0.008 | 5                   | 0.0               | 0.0             | 5.685     | A                             |
| C-A    | 125                   | 31                      |                   |       | 125                 |                   |                 |           |                               |
| A-B    | 40                    | 10                      |                   |       | 40                  |                   |                 |           |                               |
| A-C    | 181                   | 45                      |                   |       | 181                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.58               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.58              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 305                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 142                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 129                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |    |     |
|--|----|-----|----|-----|
|  | A  | B   | C  |     |
|  | A  | 0   | 78 | 227 |
|  | B  | 133 | 0  | 9   |
|  | C  | 124 | 5  | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |   |
|--|----|---|---|---|
|  | A  | B | C |   |
|  | A  | 0 | 4 | 3 |
|  | B  | 1 | 0 | 0 |
|  | C  | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.02    | 6.62          | 0.0             | A       | 8                       | 12                            |
| B-A    | 0.30    | 10.49         | 0.4             | B       | 122                     | 183                           |
| C-AB   | 0.01    | 5.21          | 0.0             | A       | 6                       | 8                             |
| C-A    |         |               |                 |         | 113                     | 169                           |
| A-B    |         |               |                 |         | 72                      | 107                           |
| A-C    |         |               |                 |         | 208                     | 312                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 598               | 0.011 | 7                   | 0.0               | 0.0             | 6.107     | A                             |
| B-A    | 100                   | 25                      | 525               | 0.191 | 99                  | 0.0               | 0.2             | 8.521     | A                             |
| C-AB   | 4                     | 1                       | 695               | 0.006 | 4                   | 0.0               | 0.0             | 5.210     | A                             |
| C-A    | 93                    | 23                      |                   |       | 93                  |                   |                 |           |                               |
| A-B    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-C    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 579               | 0.014 | 8                   | 0.0               | 0.0             | 6.304     | A                             |
| B-A    | 120                   | 30                      | 512               | 0.234 | 119                 | 0.2               | 0.3             | 9.283     | A                             |
| C-AB   | 5                     | 1                       | 696               | 0.008 | 5                   | 0.0               | 0.0             | 5.213     | A                             |
| C-A    | 111                   | 28                      |                   |       | 111                 |                   |                 |           |                               |
| A-B    | 70                    | 18                      |                   |       | 70                  |                   |                 |           |                               |
| A-C    | 204                   | 51                      |                   |       | 204                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 554               | 0.018 | 10                  | 0.0               | 0.0             | 6.613     | A                             |
| B-A    | 146                   | 37                      | 493               | 0.297 | 146                 | 0.3               | 0.4             | 10.465    | B                             |
| C-AB   | 7                     | 2                       | 697               | 0.010 | 7                   | 0.0               | 0.0             | 5.214     | A                             |
| C-A    | 135                   | 34                      |                   |       | 135                 |                   |                 |           |                               |
| A-B    | 86                    | 21                      |                   |       | 86                  |                   |                 |           |                               |
| A-C    | 250                   | 62                      |                   |       | 250                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 10                    | 2                       | 554               | 0.018 | 10                  | 0.0               | 0.0             | 6.615     | A                             |
| B-A    | 146                   | 37                      | 493               | 0.297 | 146                 | 0.4               | 0.4             | 10.494    | B                             |
| C-AB   | 7                     | 2                       | 697               | 0.010 | 7                   | 0.0               | 0.0             | 5.214     | A                             |
| C-A    | 135                   | 34                      |                   |       | 135                 |                   |                 |           |                               |
| A-B    | 86                    | 21                      |                   |       | 86                  |                   |                 |           |                               |
| A-C    | 250                   | 62                      |                   |       | 250                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 8                     | 2                       | 579               | 0.014 | 8                   | 0.0               | 0.0             | 6.310     | A                             |
| B-A    | 120                   | 30                      | 512               | 0.234 | 120                 | 0.4               | 0.3             | 9.299     | A                             |
| C-AB   | 5                     | 1                       | 696               | 0.008 | 5                   | 0.0               | 0.0             | 5.213     | A                             |
| C-A    | 111                   | 28                      |                   |       | 111                 |                   |                 |           |                               |
| A-B    | 70                    | 18                      |                   |       | 70                  |                   |                 |           |                               |
| A-C    | 204                   | 51                      |                   |       | 204                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 7                     | 2                       | 596               | 0.011 | 7                   | 0.0               | 0.0             | 6.112     | A                             |
| B-A    | 100                   | 25                      | 525               | 0.191 | 100                 | 0.3               | 0.2             | 8.569     | A                             |
| C-AB   | 4                     | 1                       | 695               | 0.006 | 4                   | 0.0               | 0.0             | 5.210     | A                             |
| C-A    | 93                    | 23                      |                   |       | 93                  |                   |                 |           |                               |
| A-B    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-C    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |

**T20517**  
**Brascote Lane, Newbold Verdon**



---

## **Appendix Q**

### **B585/Merrylees Road – PICADY Assessment**

| Junctions 10                                                                                                                                                     |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| PICADY 10 - Priority Intersection Module                                                                                                                         |  |  |  |  |
| Version: 10.0.4.1693                                                                                                                                             |  |  |  |  |
| © Copyright TRL Software Limited, 2021                                                                                                                           |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:<br>+44 (0)1344 379777 software@trl.co.uk trlsoftware.com           |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |

Filename: T20517 - B585-Merrylees Rd PRTM.j10  
 Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs  
 Report generation date: 28/04/2023 13:59:36

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

#### Summary of junction performance

|             | AM                  |             |           |      |     | PM     |             |           |      |     |
|-------------|---------------------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|
|             | Set ID              | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |
|             | 2023 Base           |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D1                  | 0.2         | 6.67      | 0.14 | A   | D2     | 0.2         | 6.50      | 0.14 | A   |
| Stream C-AB |                     | 0.2         | 5.51      | 0.11 | A   |        | 0.1         | 5.15      | 0.08 | A   |
|             | 2024 Growth Base    |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D3                  | 0.2         | 6.69      | 0.14 | A   | D4     | 0.2         | 6.52      | 0.14 | A   |
| Stream C-AB |                     | 0.2         | 5.51      | 0.11 | A   |        | 0.1         | 5.15      | 0.08 | A   |
|             | 2029 Adjusted Base  |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D5                  | 0.2         | 6.97      | 0.14 | A   | D6     | 0.1         | 6.55      | 0.13 | A   |
| Stream C-AB |                     | 0.1         | 5.93      | 0.10 | A   |        | 0.2         | 5.30      | 0.10 | A   |
|             | 2029 + Dev Adjusted |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D7                  | 0.2         | 6.94      | 0.14 | A   | D8     | 0.2         | 6.66      | 0.13 | A   |
| Stream C-AB |                     | 0.2         | 5.78      | 0.10 | A   |        | 0.2         | 5.29      | 0.10 | 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       | B585/Merrylees Road |
| Location    | Newbold Verdon      |
| Site number |                     |
| Date        | 03/04/2023          |
| Version     |                     |
| Status      | (new file)          |
| Identifier  |                     |
| Client      | Richborough Estates |
| Jobnumber   | T20517              |
| Enumerator  | AzureAD/MaxLaw      |
| 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         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Show lane queues in feet / metres | Show all PICADY stream intercepts | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use iterations with HCM roundabouts | Max number of iterations for roundabouts |
|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|-------------------------------------|------------------------------------------|
| 5.75               |                             |                                   |                                   |                                   |                             | 0.85          | 38.00                       | 20.00                 |                                     | 500                                      |

## Demand Set Summary

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base           | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D2 | 2023 Base           | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D3 | 2024 Growth Base    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D4 | 2024 Growth Base    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D5 | 2029 Adjusted Base  | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D6 | 2029 Adjusted Base  | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D7 | 2029 + Dev Adjusted | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2023 Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.05               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.05              | A           |

## Arms

### Arms

| Arm | Name           | Description | Arm type |
|-----|----------------|-------------|----------|
| A   | B585 (N)       |             | Major    |
| B   | Merrylees Road |             | Minor    |
| C   | B585 (S)       |             | Major    |

### Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right-turn storage | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|------------------------|-------------------------------|---------|----------------------|
| C   | 6.00                     |                            |                        | 250.0                         | ✓       | 0.00                 |

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 | Lane width (m) | Visibility to left (m) | Visibility to right (m) |
|-----|----------------|----------------|------------------------|-------------------------|
| B   | One lane       | 4.02           | 30                     | 40                      |

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

| Stream | Intercept (PCU/hr) | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|--------------------|---------------|---------------|---------------|---------------|
| B-A    | 559                | 0.102         | 0.257         | 0.162         | 0.387         |
| B-C    | 715                | 0.110         | 0.277         | -             | -             |
| C-B    | 719                | 0.278         | 0.278         | -             | -             |

The slopes and intercepts shown above include custom intercept adjustments only.

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 | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base     | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 153                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 82                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 233                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To  |    |     |  |
|--|-----|----|-----|--|
|  | A   | B  | C   |  |
|  | 0   | 0  | 153 |  |
|  | 2   | 0  | 80  |  |
|  | 174 | 59 | 0   |  |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |  |
|--|----|---|---|--|
|  | A  | B | C |  |
|  | 0  | 0 | 3 |  |
|  | 0  | 0 | 6 |  |
|  | 8  | 8 | 0 |  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.14    | 6.67          | 0.2             | A       | 75                      | 113                           |
| C-AB   | 0.11    | 5.51          | 0.2             | A       | 69                      | 103                           |
| C-A    |         |               |                 |         | 145                     | 218                           |
| A-B    |         |               |                 |         | 0                       | 0                             |
| A-C    |         |               |                 |         | 140                     | 211                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 15                      | 677               | 0.091 | 61                  | 0.0               | 0.1             | 6.184     | A                             |
| C-AB   | 54                    | 13                      | 768               | 0.070 | 53                  | 0.0               | 0.1             | 5.439     | A                             |
| C-A    | 122                   | 30                      |                   |       | 122                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 115                   | 29                      |                   |       | 115                 |                   |                 |           |                               |

### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 74                    | 18                      | 670               | 0.110 | 74                  | 0.1               | 0.1             | 6.384     | A                             |
| C-AB   | 66                    | 17                      | 778               | 0.085 | 66                  | 0.1               | 0.1             | 5.467     | A                             |
| C-A    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 138                   | 34                      |                   |       | 138                 |                   |                 |           |                               |

### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 90                    | 23                      | 661               | 0.137 | 90                  | 0.1               | 0.2             | 6.668     | A                             |
| C-AB   | 86                    | 21                      | 792               | 0.108 | 86                  | 0.1               | 0.2             | 5.505     | A                             |
| C-A    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 168                   | 42                      |                   |       | 168                 |                   |                 |           |                               |

### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 90                    | 23                      | 661               | 0.137 | 90                  | 0.2               | 0.2             | 6.670     | A                             |
| C-AB   | 86                    | 21                      | 792               | 0.108 | 86                  | 0.2               | 0.2             | 5.510     | A                             |
| C-A    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 168                   | 42                      |                   |       | 168                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 74                    | 18                      | 670               | 0.110 | 74                  | 0.2               | 0.1             | 6.389     | A                             |
| C-AB   | 67                    | 17                      | 778               | 0.086 | 67                  | 0.2               | 0.1             | 5.472     | A                             |
| C-A    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 138                   | 34                      |                   |       | 138                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 15                      | 677               | 0.091 | 62                  | 0.1               | 0.1             | 6.194     | A                             |
| C-AB   | 54                    | 13                      | 768               | 0.070 | 54                  | 0.1               | 0.1             | 5.447     | A                             |
| C-A    | 122                   | 30                      |                   |       | 122                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 115                   | 29                      |                   |       | 115                 |                   |                 |           |                               |

# 2023 Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.70               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.70              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2023 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 193                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 82                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 206                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
|      |    | A   | B  | C   |
|      | A  | 0   | 5  | 188 |
|      | B  | 4   | 0  | 78  |
| From | C  | 162 | 44 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      |    | A | B | C |
|      | A  | 0 | 0 | 2 |
|      | B  | 0 | 0 | 0 |
| From | C  | 0 | 2 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.14    | 6.50          | 0.2             | A       | 75                      | 113                           |
| C-AB   | 0.08    | 5.15          | 0.1             | A       | 51                      | 78                            |
| C-A    |         |               |                 |         | 138                     | 208                           |
| A-B    |         |               |                 |         | 5                       | 7                             |
| A-C    |         |               |                 |         | 173                     | 259                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 15                      | 663               | 0.093 | 61                  | 0.0               | 0.1             | 5.974     | A                             |
| C-AB   | 40                    | 10                      | 754               | 0.052 | 39                  | 0.0               | 0.1             | 5.118     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 4                     | 0.94                    |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 142                   | 35                      |                   |       | 142                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 74                    | 18                      | 655               | 0.113 | 74                  | 0.1               | 0.1             | 6.190     | A                             |
| C-AB   | 49                    | 12                      | 762               | 0.064 | 49                  | 0.1               | 0.1             | 5.134     | A                             |
| C-A    | 136                   | 34                      |                   |       | 136                 |                   |                 |           |                               |
| A-B    | 4                     | 1                       |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 90                    | 23                      | 644               | 0.140 | 90                  | 0.1               | 0.2             | 6.500     | A                             |
| C-AB   | 63                    | 16                      | 773               | 0.082 | 63                  | 0.1               | 0.1             | 5.154     | A                             |
| C-A    | 164                   | 41                      |                   |       | 164                 |                   |                 |           |                               |
| A-B    | 6                     | 1                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 90                    | 23                      | 644               | 0.140 | 90                  | 0.2               | 0.2             | 6.503     | A                             |
| C-AB   | 63                    | 16                      | 773               | 0.082 | 63                  | 0.1               | 0.1             | 5.154     | A                             |
| C-A    | 164                   | 41                      |                   |       | 164                 |                   |                 |           |                               |
| A-B    | 6                     | 1                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 74                    | 18                      | 855               | 0.113 | 74                  | 0.2               | 0.1             | 6.193     | A                             |
| C-AB   | 49                    | 12                      | 762               | 0.064 | 49                  | 0.1               | 0.1             | 5.131     | A                             |
| C-A    | 136                   | 34                      |                   |       | 136                 |                   |                 |           |                               |
| A-B    | 4                     | 1                       |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 15                      | 863               | 0.093 | 62                  | 0.1               | 0.1             | 5.983     | A                             |
| C-AB   | 40                    | 10                      | 754               | 0.052 | 40                  | 0.1               | 0.1             | 5.122     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 4                     | 0.94                    |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 142                   | 35                      |                   |       | 142                 |                   |                 |           |                               |

# 2024 Growth Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.05               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.05              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2024 Growth Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 154                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 83                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 234                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
|      | A  | B   | C  |     |
| From | A  | 0   | 0  | 154 |
|      | B  | 2   | 0  | 81  |
|      | C  | 175 | 59 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 3 |
|      | B  | 0 | 0 | 8 |
|      | C  | 8 | 8 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.14    | 6.69          | 0.2             | A       | 76                      | 114                           |
| C-AB   | 0.11    | 5.51          | 0.2             | A       | 69                      | 103                           |
| C-A    |         |               |                 |         | 146                     | 219                           |
| A-B    |         |               |                 |         | 0                       | 0                             |
| A-C    |         |               |                 |         | 141                     | 212                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 16                      | 677               | 0.092 | 62                  | 0.0               | 0.1             | 6.193     | A                             |
| C-AB   | 54                    | 13                      | 768               | 0.070 | 53                  | 0.0               | 0.1             | 5.437     | A                             |
| C-A    | 123                   | 31                      |                   |       | 123                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 75                    | 19                      | 670               | 0.111 | 75                  | 0.1               | 0.1             | 6.395     | A                             |
| C-AB   | 67                    | 17                      | 778               | 0.086 | 66                  | 0.1               | 0.1             | 5.463     | A                             |
| C-A    | 144                   | 36                      |                   |       | 144                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 138                   | 35                      |                   |       | 138                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 91                    | 23                      | 661               | 0.138 | 91                  | 0.1               | 0.2             | 6.684     | A                             |
| C-AB   | 86                    | 21                      | 792               | 0.108 | 86                  | 0.1               | 0.2             | 5.503     | A                             |
| C-A    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 170                   | 42                      |                   |       | 170                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 91                    | 23                      | 661               | 0.138 | 91                  | 0.2               | 0.2             | 6.686     | A                             |
| C-AB   | 86                    | 22                      | 792               | 0.109 | 86                  | 0.2               | 0.2             | 5.505     | A                             |
| C-A    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 170                   | 42                      |                   |       | 170                 |                   |                 |           |                               |

**08:45 - 09:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 75                    | 19                      | 670               | 0.111 | 75                  | 0.2               | 0.1             | 6.401     | A                             |
| C-AB   | 67                    | 17                      | 778               | 0.088 | 67                  | 0.2               | 0.1             | 5.468     | A                             |
| C-A    | 144                   | 38                      |                   |       | 144                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 138                   | 35                      |                   |       | 138                 |                   |                 |           |                               |

**09:00 - 09:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 16                      | 677               | 0.092 | 63                  | 0.1               | 0.1             | 6.203     | A                             |
| C-AB   | 54                    | 13                      | 768               | 0.070 | 54                  | 0.1               | 0.1             | 5.445     | A                             |
| C-A    | 122                   | 31                      |                   |       | 122                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |

# 2024 Growth Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.70               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.70              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D4 | 2024 Growth Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 195                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 83                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 207                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |    |     |
|--|----|-----|----|-----|
|  |    | A   | B  | C   |
|  | A  | 0   | 5  | 190 |
|  | B  | 4   | 0  | 79  |
|  | C  | 163 | 44 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |   |
|--|----|---|---|---|
|  |    | A | B | C |
|  | A  | 0 | 0 | 2 |
|  | B  | 0 | 0 | 0 |
|  | C  | 0 | 2 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.14    | 6.52          | 0.2             | A       | 76                      | 114                           |
| C-AB   | 0.08    | 5.15          | 0.1             | A       | 51                      | 76                            |
| C-A    |         |               |                 |         | 139                     | 209                           |
| A-B    |         |               |                 |         | 5                       | 7                             |
| A-C    |         |               |                 |         | 174                     | 262                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 16                      | 663               | 0.094 | 62                  | 0.0               | 0.1             | 5.985     | A                             |
| C-AB   | 40                    | 10                      | 754               | 0.052 | 39                  | 0.0               | 0.1             | 5.117     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 4                     | 0.94                    |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 75                    | 19                      | 656               | 0.114 | 75                  | 0.1               | 0.1             | 6.203     | A                             |
| C-AB   | 49                    | 12                      | 762               | 0.064 | 49                  | 0.1               | 0.1             | 5.133     | A                             |
| C-A    | 137                   | 34                      |                   |       | 137                 |                   |                 |           |                               |
| A-B    | 4                     | 1                       |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 91                    | 23                      | 643               | 0.142 | 91                  | 0.1               | 0.2             | 6.519     | A                             |
| C-AB   | 63                    | 16                      | 773               | 0.082 | 63                  | 0.1               | 0.1             | 5.154     | A                             |
| C-A    | 165                   | 41                      |                   |       | 165                 |                   |                 |           |                               |
| A-B    | 6                     | 1                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 209                   | 52                      |                   |       | 209                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 91                    | 23                      | 643               | 0.142 | 91                  | 0.2               | 0.2             | 6.522     | A                             |
| C-AB   | 63                    | 16                      | 773               | 0.082 | 63                  | 0.1               | 0.1             | 5.154     | A                             |
| C-A    | 165                   | 41                      |                   |       | 165                 |                   |                 |           |                               |
| A-B    | 6                     | 1                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 209                   | 52                      |                   |       | 209                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 75                    | 19                      | 655               | 0.114 | 75                  | 0.2               | 0.1             | 6.206     | A                             |
| C-AB   | 49                    | 12                      | 762               | 0.064 | 49                  | 0.1               | 0.1             | 5.132     | A                             |
| C-A    | 137                   | 34                      |                   |       | 137                 |                   |                 |           |                               |
| A-B    | 4                     | 1                       |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 171                   | 43                      |                   |       | 171                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 62                    | 16                      | 663               | 0.094 | 63                  | 0.1               | 0.1             | 5.996     | A                             |
| C-AB   | 40                    | 10                      | 754               | 0.053 | 40                  | 0.1               | 0.1             | 5.120     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 4                     | 0.94                    |                   |       | 4                   |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |

# 2029 Adjusted Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.00               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.00              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D5 | 2029 Adjusted Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 229                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 84                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 163                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |    |     |
|--|----|-----|----|-----|
|  |    | A   | B  | C   |
|  | A  | 0   | 1  | 228 |
|  | B  | 2   | 0  | 82  |
|  | C  | 110 | 53 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |   |
|--|----|---|---|---|
|  |    | A | B | C |
|  | A  | 0 | 0 | 3 |
|  | B  | 0 | 0 | 6 |
|  | C  | 8 | 8 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.14    | 6.97          | 0.2             | A       | 77                      | 116                           |
| C-AB   | 0.10    | 5.93          | 0.1             | A       | 57                      | 85                            |
| C-A    |         |               |                 |         | 93                      | 139                           |
| A-B    |         |               |                 |         | 0.92                    | 1                             |
| A-C    |         |               |                 |         | 209                     | 314                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 63                    | 16                      | 662               | 0.096 | 63                  | 0.0               | 0.1             | 6.357     | A                             |
| C-AB   | 45                    | 11                      | 723               | 0.062 | 45                  | 0.0               | 0.1             | 5.732     | A                             |
| C-A    | 78                    | 19                      |                   |       | 78                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 76                    | 19                      | 662               | 0.116 | 75                  | 0.1               | 0.1             | 6.604     | A                             |
| C-AB   | 55                    | 14                      | 724               | 0.076 | 55                  | 0.1               | 0.1             | 5.813     | A                             |
| C-A    | 91                    | 23                      |                   |       | 91                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 205                   | 51                      |                   |       | 205                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 92                    | 23                      | 639               | 0.145 | 92                  | 0.1               | 0.2             | 6.966     | A                             |
| C-AB   | 70                    | 18                      | 726               | 0.097 | 70                  | 0.1               | 0.1             | 5.926     | A                             |
| C-A    | 109                   | 27                      |                   |       | 109                 |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 251                   | 63                      |                   |       | 251                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 92                    | 23                      | 639               | 0.145 | 92                  | 0.2               | 0.2             | 6.966     | A                             |
| C-AB   | 70                    | 18                      | 726               | 0.097 | 70                  | 0.1               | 0.1             | 5.930     | A                             |
| C-A    | 109                   | 27                      |                   |       | 109                 |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 251                   | 63                      |                   |       | 251                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 76                    | 19                      | 652               | 0.116 | 76                  | 0.2               | 0.1             | 6.611     | A                             |
| C-AB   | 55                    | 14                      | 724               | 0.076 | 55                  | 0.1               | 0.1             | 5.818     | A                             |
| C-A    | 91                    | 23                      |                   |       | 91                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 205                   | 51                      |                   |       | 205                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 63                    | 16                      | 662               | 0.096 | 63                  | 0.1               | 0.1             | 6.369     | A                             |
| C-AB   | 45                    | 11                      | 723               | 0.062 | 45                  | 0.1               | 0.1             | 5.739     | A                             |
| C-A    | 78                    | 19                      |                   |       | 78                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |

# 2029 Adjusted Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.63               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.63              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D6 | 2029 Adjusted Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 220                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 73                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 217                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |
|------|----|-----|----|-----|
|      | A  | B   | C  |     |
| From | A  | 0   | 6  | 214 |
|      | B  | 5   | 0  | 68  |
|      | C  | 164 | 53 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 2 |
|      | B  | 0 | 0 | 0 |
|      | C  | 0 | 2 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.13    | 6.55          | 0.1             | A       | 67                      | 100                           |
| C-AB   | 0.10    | 5.30          | 0.2             | A       | 61                      | 92                            |
| C-A    |         |               |                 |         | 138                     | 207                           |
| A-B    |         |               |                 |         | 8                       | 8                             |
| A-C    |         |               |                 |         | 196                     | 295                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 55                    | 14                      | 653               | 0.084 | 55                  | 0.0               | 0.1             | 6.013     | A                             |
| C-AB   | 48                    | 12                      | 750               | 0.064 | 47                  | 0.0               | 0.1             | 5.210     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 161                   | 40                      |                   |       | 161                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 66                    | 16                      | 643               | 0.102 | 66                  | 0.1               | 0.1             | 6.232     | A                             |
| C-AB   | 59                    | 15                      | 757               | 0.078 | 59                  | 0.1               | 0.1             | 5.244     | A                             |
| C-A    | 136                   | 34                      |                   |       | 136                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 192                   | 48                      |                   |       | 192                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 80                    | 20                      | 630               | 0.128 | 80                  | 0.1               | 0.1             | 6.549     | A                             |
| C-AB   | 76                    | 19                      | 767               | 0.100 | 76                  | 0.1               | 0.1             | 5.297     | A                             |
| C-A    | 162                   | 41                      |                   |       | 162                 |                   |                 |           |                               |
| A-B    | 7                     | 2                       |                   |       | 7                   |                   |                 |           |                               |
| A-C    | 236                   | 59                      |                   |       | 236                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 80                    | 20                      | 630               | 0.128 | 80                  | 0.1               | 0.1             | 6.551     | A                             |
| C-AB   | 76                    | 19                      | 767               | 0.100 | 76                  | 0.1               | 0.2             | 5.297     | A                             |
| C-A    | 162                   | 41                      |                   |       | 162                 |                   |                 |           |                               |
| A-B    | 7                     | 2                       |                   |       | 7                   |                   |                 |           |                               |
| A-C    | 236                   | 59                      |                   |       | 236                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 66                    | 16                      | 643               | 0.102 | 66                  | 0.1               | 0.1             | 6.237     | A                             |
| C-AB   | 59                    | 15                      | 757               | 0.078 | 59                  | 0.2               | 0.1             | 5.244     | A                             |
| C-A    | 136                   | 34                      |                   |       | 136                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 192                   | 48                      |                   |       | 192                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 55                    | 14                      | 653               | 0.084 | 55                  | 0.1               | 0.1             | 6.022     | A                             |
| C-AB   | 48                    | 12                      | 750               | 0.064 | 48                  | 0.1               | 0.1             | 5.212     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 161                   | 40                      |                   |       | 161                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.85               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.85              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D7 | 2029 + Dev Adjusted | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 230                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 81                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 193                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To  |    |     |  |
|------|-----|----|-----|--|
|      | A   | B  | C   |  |
|      | 0   | 1  | 229 |  |
|      | 2   | 0  | 79  |  |
| From | 140 | 53 | 0   |  |
|      |     |    |     |  |
|      |     |    |     |  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |  |
|------|----|---|---|--|
|      | A  | B | C |  |
|      | 0  | 0 | 3 |  |
|      | 0  | 0 | 6 |  |
| From | 8  | 8 | 0 |  |
|      |    |   |   |  |
|      |    |   |   |  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.14    | 6.94          | 0.2             | A       | 74                      | 111                           |
| C-AB   | 0.10    | 5.78          | 0.2             | A       | 59                      | 89                            |
| C-A    |         |               |                 |         | 118                     | 177                           |
| A-B    |         |               |                 |         | 0.92                    | 1                             |
| A-C    |         |               |                 |         | 210                     | 315                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 61                    | 15                      | 661               | 0.092 | 61                  | 0.0               | 0.1             | 6.339     | A                             |
| C-AB   | 47                    | 12                      | 737               | 0.063 | 46                  | 0.0               | 0.1             | 5.629     | A                             |
| C-A    | 99                    | 25                      |                   |       | 99                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 73                    | 18                      | 652               | 0.112 | 73                  | 0.1               | 0.1             | 6.581     | A                             |
| C-AB   | 57                    | 14                      | 741               | 0.078 | 57                  | 0.1               | 0.1             | 5.688     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 206                   | 51                      |                   |       | 206                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 89                    | 22                      | 638               | 0.140 | 89                  | 0.1               | 0.2             | 6.934     | A                             |
| C-AB   | 74                    | 18                      | 747               | 0.099 | 73                  | 0.1               | 0.2             | 5.774     | A                             |
| C-A    | 139                   | 35                      |                   |       | 139                 |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 252                   | 63                      |                   |       | 252                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 89                    | 22                      | 638               | 0.140 | 89                  | 0.2               | 0.2             | 6.936     | A                             |
| C-AB   | 74                    | 18                      | 747               | 0.099 | 74                  | 0.2               | 0.2             | 5.778     | A                             |
| C-A    | 139                   | 35                      |                   |       | 139                 |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 252                   | 63                      |                   |       | 252                 |                   |                 |           |                               |

**08:45 - 09:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 73                    | 18                      | 652               | 0.112 | 73                  | 0.2               | 0.1             | 6.587     | A                             |
| C-AB   | 57                    | 14                      | 741               | 0.078 | 58                  | 0.2               | 0.1             | 5.692     | A                             |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 206                   | 51                      |                   |       | 206                 |                   |                 |           |                               |

**09:00 - 09:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 61                    | 15                      | 661               | 0.092 | 61                  | 0.1               | 0.1             | 6.351     | A                             |
| C-AB   | 47                    | 12                      | 737               | 0.063 | 47                  | 0.1               | 0.1             | 5.636     | A                             |
| C-A    | 99                    | 25                      |                   |       | 99                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 172                   | 43                      |                   |       | 172                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.53               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.53              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 247                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 74                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 225                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To  |    |     |  |
|------|-----|----|-----|--|
|      | A   | B  | C   |  |
|      | 0   | 6  | 241 |  |
|      | 5   | 0  | 69  |  |
| From | 174 | 51 | 0   |  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |  |
|------|----|---|---|--|
|      | A  | B | C |  |
|      | 0  | 0 | 2 |  |
|      | 0  | 0 | 0 |  |
| From | 0  | 2 | 0 |  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.13    | 6.66          | 0.2             | A       | 68                      | 102                           |
| C-AB   | 0.10    | 5.29          | 0.2             | A       | 60                      | 90                            |
| C-A    |         |               |                 |         | 147                     | 220                           |
| A-B    |         |               |                 |         | 6                       | 8                             |
| A-C    |         |               |                 |         | 221                     | 332                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 56                    | 14                      | 647               | 0.088 | 55                  | 0.0               | 0.1             | 6.077     | A                             |
| C-AB   | 47                    | 12                      | 749               | 0.062 | 46                  | 0.0               | 0.1             | 5.203     | A                             |
| C-A    | 123                   | 31                      |                   |       | 123                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 181                   | 45                      |                   |       | 181                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 67                    | 17                      | 637               | 0.105 | 66                  | 0.1               | 0.1             | 6.314     | A                             |
| C-AB   | 58                    | 14                      | 756               | 0.077 | 58                  | 0.1               | 0.1             | 5.239     | A                             |
| C-A    | 144                   | 36                      |                   |       | 144                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 217                   | 54                      |                   |       | 217                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 81                    | 20                      | 622               | 0.131 | 81                  | 0.1               | 0.1             | 6.661     | A                             |
| C-AB   | 75                    | 19                      | 766               | 0.098 | 75                  | 0.1               | 0.1             | 5.289     | A                             |
| C-A    | 173                   | 43                      |                   |       | 173                 |                   |                 |           |                               |
| A-B    | 7                     | 2                       |                   |       | 7                   |                   |                 |           |                               |
| A-C    | 265                   | 66                      |                   |       | 265                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 81                    | 20                      | 622               | 0.131 | 81                  | 0.1               | 0.2             | 6.663     | A                             |
| C-AB   | 75                    | 19                      | 766               | 0.098 | 75                  | 0.1               | 0.2             | 5.287     | A                             |
| C-A    | 173                   | 43                      |                   |       | 173                 |                   |                 |           |                               |
| A-B    | 7                     | 2                       |                   |       | 7                   |                   |                 |           |                               |
| A-C    | 265                   | 66                      |                   |       | 265                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 87                    | 17                      | 637               | 0.105 | 87                  | 0.2               | 0.1             | 6.320     | A                             |
| C-AB   | 58                    | 14                      | 756               | 0.077 | 58                  | 0.2               | 0.1             | 5.238     | A                             |
| C-A    | 144                   | 36                      |                   |       | 144                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 217                   | 54                      |                   |       | 217                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 56                    | 14                      | 647               | 0.086 | 56                  | 0.1               | 0.1             | 6.086     | A                             |
| C-AB   | 47                    | 12                      | 749               | 0.062 | 47                  | 0.1               | 0.1             | 5.206     | A                             |
| C-A    | 123                   | 31                      |                   |       | 123                 |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 181                   | 45                      |                   |       | 181                 |                   |                 |           |                               |

**T20517**

**Brascote Lane, Newbold Verdon**



---

## **Appendix R**

### **Main Street/Dragon Lane – PICADY Assessment**

| Junctions 10                                                                                                                                                     |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| PICADY 10 - Priority Intersection Module                                                                                                                         |  |  |  |  |
| Version: 10.0.4.1693                                                                                                                                             |  |  |  |  |
| © Copyright TRL Software Limited, 2021                                                                                                                           |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:<br>+44 (0)1344 379777   software@trl.co.uk   trlsoftware.com       |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |

**Filename:** T20517 - Main St-Dragon Ln PRTM.j10  
**Path:** C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs  
**Report generation date:** 28/04/2023 14:00:17

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

#### Summary of junction performance

|             | AM                  |             |           |      |     | PM     |             |           |      |     |
|-------------|---------------------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|
|             | Set ID              | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |
|             | 2023 Base           |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D1                  | 0.0         | 5.92      | 0.03 | A   | D2     | 0.0         | 5.66      | 0.01 | A   |
| Stream C-AB |                     | 0.0         | 5.36      | 0.00 | A   |        | 0.0         | 5.38      | 0.01 | A   |
|             | 2024 Growth Base    |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D3                  | 0.0         | 5.93      | 0.03 | A   | D4     | 0.0         | 5.67      | 0.01 | A   |
| Stream C-AB |                     | 0.0         | 5.35      | 0.00 | A   |        | 0.0         | 5.38      | 0.01 | A   |
|             | 2029 Adjusted Base  |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D5                  | 0.0         | 5.97      | 0.03 | A   | D6     | 0.0         | 5.72      | 0.01 | A   |
| Stream C-AB |                     | 0.0         | 5.26      | 0.00 | A   |        | 0.0         | 5.28      | 0.01 | A   |
|             | 2029 + Dev Adjusted |             |           |      |     |        |             |           |      |     |
| Stream B-AC | D7                  | 0.0         | 6.06      | 0.03 | A   | D8     | 0.0         | 5.91      | 0.01 | A   |
| Stream C-AB |                     | 0.0         | 5.09      | 0.00 | A   |        | 0.0         | 5.30      | 0.01 | 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       | Main Street/Dragon Lane |
| Location    | Newbold Verdon          |
| Site number |                         |
| Date        | 03/04/2023              |
| Version     |                         |
| Status      | (new file)              |
| Identifier  |                         |
| Client      | Richborough Estates     |
| Jobnumber   | T20517                  |
| Enumerator  | AzureAD/MaxLaw          |
| 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         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Show lane queues in feet / metres | Show all PICADY stream intercepts | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use iterations with HCM roundabouts | Max number of iterations for roundabouts |
|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|-------------------------------------|------------------------------------------|
| 5.75               |                             |                                   |                                   |                                   |                             | 0.85          | 38.00                       | 20.00                 |                                     | 500                                      |

## Demand Set Summary

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base           | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D2 | 2023 Base           | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D3 | 2024 Growth Base    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D4 | 2024 Growth Base    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D5 | 2029 Adjusted Base  | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D6 | 2029 Adjusted Base  | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D7 | 2029 + Dev Adjusted | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2023 Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.46               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.46              | A           |

## Arms

### Arms

| Arm | Name            | Description | Arm type |
|-----|-----------------|-------------|----------|
| A   | Main Street (E) |             | Major    |
| B   | Main Street (W) |             | Minor    |
| C   | Dragon Lane     |             | Major    |

### Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right-turn storage | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|------------------------|-------------------------------|---------|----------------------|
| C   | 8.30                     |                            |                        | 125.0                         | ✓       | 0.00                 |

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 | Lane width (m) | Visibility to left (m) | Visibility to right (m) |
|-----|----------------|----------------|------------------------|-------------------------|
| B   | One lane       | 4.26           | 20                     | 140                     |

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

| Stream | Intercept (PCU/hr) | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|--------------------|---------------|---------------|---------------|---------------|
| B-A    | 622                | 0.085         | 0.214         | 0.135         | 0.306         |
| B-C    | 802                | 0.129         | 0.327         | -             | -             |
| C-B    | 646                | 0.225         | 0.225         | -             | -             |

The slopes and intercepts shown above include custom intercept adjustments only.

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 | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base     | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 107                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 16                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 97                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |   |     |
|------|----|----|---|-----|
|      | A  | B  | C |     |
| From | A  | 0  | 3 | 104 |
|      | B  | 5  | 0 | 11  |
|      | C  | 96 | 1 | 0   |
|      |    |    |   |     |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |    |
|------|----|---|---|----|
|      | A  | B | C |    |
| From | A  | 0 | 0 | 6  |
|      | B  | 0 | 0 | 18 |
|      | C  | 3 | 0 | 0  |
|      |    |   |   |    |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.03    | 5.92          | 0.0             | A       | 15                      | 22                            |
| C-AB   | 0.00    | 5.36          | 0.0             | A       | 1                       | 2                             |
| C-A    |         |               |                 |         | 88                      | 132                           |
| A-B    |         |               |                 |         | 3                       | 4                             |
| A-C    |         |               |                 |         | 95                      | 143                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 709               | 0.017 | 12                  | 0.0               | 0.0             | 5.771     | A                             |
| C-AB   | 0.84                  | 0.21                    | 675               | 0.001 | 0.84                | 0.0               | 0.0             | 5.354     | A                             |
| C-A    | 72                    | 18                      |                   |       | 72                  |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 78                    | 20                      |                   |       | 78                  |                   |                 |           |                               |

### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 704               | 0.020 | 14                  | 0.0               | 0.0             | 5.834     | A                             |
| C-AB   | 1                     | 0.26                    | 681               | 0.002 | 1                   | 0.0               | 0.0             | 5.311     | A                             |
| C-A    | 86                    | 22                      |                   |       | 86                  |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 93                    | 23                      |                   |       | 93                  |                   |                 |           |                               |

### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 696               | 0.025 | 18                  | 0.0               | 0.0             | 5.924     | A                             |
| C-AB   | 1                     | 0.33                    | 689               | 0.002 | 1                   | 0.0               | 0.0             | 5.255     | A                             |
| C-A    | 105                   | 26                      |                   |       | 105                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 115                   | 29                      |                   |       | 115                 |                   |                 |           |                               |

### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 696               | 0.025 | 18                  | 0.0               | 0.0             | 5.924     | A                             |
| C-AB   | 1                     | 0.33                    | 689               | 0.002 | 1                   | 0.0               | 0.0             | 5.257     | A                             |
| C-A    | 105                   | 26                      |                   |       | 105                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 115                   | 29                      |                   |       | 115                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 704               | 0.020 | 14                  | 0.0               | 0.0             | 5.837     | A                             |
| C-AB   | 1                     | 0.26                    | 681               | 0.002 | 1                   | 0.0               | 0.0             | 5.317     | A                             |
| C-A    | 86                    | 22                      |                   |       | 86                  |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 93                    | 23                      |                   |       | 93                  |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 709               | 0.017 | 12                  | 0.0               | 0.0             | 5.771     | A                             |
| C-AB   | 0.84                  | 0.21                    | 675               | 0.001 | 0.84                | 0.0               | 0.0             | 5.358     | A                             |
| C-A    | 72                    | 18                      |                   |       | 72                  |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 78                    | 20                      |                   |       | 78                  |                   |                 |           |                               |

# 2023 Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.38               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.38              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2023 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 76                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 6                       | 100.000            |
| C   |            | ONE HOUR     | ✓            | 89                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |   |    |
|------|----|----|---|----|
|      |    | A  | B | C  |
|      | A  | 0  | 7 | 69 |
|      | B  | 4  | 0 | 2  |
| From | C  | 84 | 5 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      |    | A | B | C |
|      | A  | 0 | 0 | 1 |
|      | B  | 0 | 0 | 0 |
| From | C  | 2 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.01    | 5.66          | 0.0             | A       | 6                       | 8                             |
| C-AB   | 0.01    | 5.38          | 0.0             | A       | 5                       | 8                             |
| C-A    |         |               |                 |         | 76                      | 115                           |
| A-B    |         |               |                 |         | 6                       | 10                            |
| A-C    |         |               |                 |         | 63                      | 95                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 652               | 0.007 | 4                   | 0.0               | 0.0             | 5.561     | A                             |
| C-AB   | 4                     | 1                       | 674               | 0.006 | 4                   | 0.0               | 0.0             | 5.380     | A                             |
| C-A    | 63                    | 16                      |                   |       | 63                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 52                    | 13                      |                   |       | 52                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 648               | 0.008 | 5                   | 0.0               | 0.0             | 5.603     | A                             |
| C-AB   | 5                     | 1                       | 680               | 0.007 | 5                   | 0.0               | 0.0             | 5.344     | A                             |
| C-A    | 75                    | 19                      |                   |       | 75                  |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 62                    | 16                      |                   |       | 62                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 642               | 0.010 | 7                   | 0.0               | 0.0             | 5.663     | A                             |
| C-AB   | 6                     | 2                       | 688               | 0.009 | 6                   | 0.0               | 0.0             | 5.295     | A                             |
| C-A    | 92                    | 23                      |                   |       | 92                  |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 76                    | 19                      |                   |       | 76                  |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 642               | 0.010 | 7                   | 0.0               | 0.0             | 5.663     | A                             |
| C-AB   | 6                     | 2                       | 688               | 0.009 | 6                   | 0.0               | 0.0             | 5.299     | A                             |
| C-A    | 92                    | 23                      |                   |       | 92                  |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 76                    | 19                      |                   |       | 76                  |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 648               | 0.008 | 5                   | 0.0               | 0.0             | 5.604     | A                             |
| C-AB   | 5                     | 1                       | 680               | 0.007 | 5                   | 0.0               | 0.0             | 5.348     | A                             |
| C-A    | 75                    | 19                      |                   |       | 75                  |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 62                    | 16                      |                   |       | 62                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 652               | 0.007 | 5                   | 0.0               | 0.0             | 5.561     | A                             |
| C-AB   | 4                     | 1                       | 674               | 0.006 | 4                   | 0.0               | 0.0             | 5.381     | A                             |
| C-A    | 63                    | 16                      |                   |       | 63                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 52                    | 13                      |                   |       | 52                  |                   |                 |           |                               |

# 2024 Growth Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.46               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.46              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2024 Growth Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 108                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 16                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 98                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |   |     |
|------|----|----|---|-----|
|      | A  | B  | C |     |
| From | A  | 0  | 3 | 105 |
|      | B  | 5  | 0 | 11  |
|      | C  | 97 | 1 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |    |
|------|----|---|---|----|
|      | A  | B | C |    |
| From | A  | 0 | 0 | 6  |
|      | B  | 0 | 0 | 18 |
|      | C  | 3 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.03    | 5.93          | 0.0             | A       | 15                      | 22                            |
| C-AB   | 0.00    | 5.35          | 0.0             | A       | 1                       | 2                             |
| C-A    |         |               |                 |         | 89                      | 133                           |
| A-B    |         |               |                 |         | 3                       | 4                             |
| A-C    |         |               |                 |         | 98                      | 145                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 709               | 0.017 | 12                  | 0.0               | 0.0             | 5.773     | A                             |
| C-AB   | 0.84                  | 0.21                    | 676               | 0.001 | 0.84                | 0.0               | 0.0             | 5.351     | A                             |
| C-A    | 73                    | 18                      |                   |       | 73                  |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 79                    | 20                      |                   |       | 79                  |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 703               | 0.020 | 14                  | 0.0               | 0.0             | 5.837     | A                             |
| C-AB   | 1                     | 0.26                    | 681               | 0.002 | 1                   | 0.0               | 0.0             | 5.309     | A                             |
| C-A    | 87                    | 22                      |                   |       | 87                  |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 94                    | 24                      |                   |       | 94                  |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 696               | 0.025 | 18                  | 0.0               | 0.0             | 5.927     | A                             |
| C-AB   | 1                     | 0.33                    | 690               | 0.002 | 1                   | 0.0               | 0.0             | 5.251     | A                             |
| C-A    | 107                   | 27                      |                   |       | 107                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 696               | 0.025 | 18                  | 0.0               | 0.0             | 5.927     | A                             |
| C-AB   | 1                     | 0.33                    | 690               | 0.002 | 1                   | 0.0               | 0.0             | 5.255     | A                             |
| C-A    | 107                   | 27                      |                   |       | 107                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 703               | 0.020 | 14                  | 0.0               | 0.0             | 5.837     | A                             |
| C-AB   | 1                     | 0.26                    | 681               | 0.002 | 1                   | 0.0               | 0.0             | 5.314     | A                             |
| C-A    | 87                    | 22                      |                   |       | 87                  |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 94                    | 24                      |                   |       | 94                  |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 709               | 0.017 | 12                  | 0.0               | 0.0             | 5.774     | A                             |
| C-AB   | 0.84                  | 0.21                    | 676               | 0.001 | 0.85                | 0.0               | 0.0             | 5.353     | A                             |
| C-A    | 73                    | 18                      |                   |       | 73                  |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 79                    | 20                      |                   |       | 79                  |                   |                 |           |                               |

# 2024 Growth Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.37               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.37              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D4 | 2024 Growth Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 77                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 8                       | 100.000            |
| C   |            | ONE HOUR     | ✓            | 90                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |    |   |    |
|--|----|----|---|----|
|  |    | A  | B | C  |
|  | A  | 0  | 7 | 70 |
|  | B  | 4  | 0 | 2  |
|  | C  | 85 | 5 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |   |
|--|----|---|---|---|
|  |    | A | B | C |
|  | A  | 0 | 0 | 1 |
|  | B  | 0 | 0 | 0 |
|  | C  | 2 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.01    | 5.67          | 0.0             | A       | 6                       | 8                             |
| C-AB   | 0.01    | 5.38          | 0.0             | A       | 5                       | 8                             |
| C-A    |         |               |                 |         | 77                      | 116                           |
| A-B    |         |               |                 |         | 6                       | 10                            |
| A-C    |         |               |                 |         | 64                      | 96                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 651               | 0.007 | 4                   | 0.0               | 0.0             | 5.563     | A                             |
| C-AB   | 4                     | 1                       | 675               | 0.006 | 4                   | 0.0               | 0.0             | 5.377     | A                             |
| C-A    | 64                    | 16                      |                   |       | 64                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 53                    | 13                      |                   |       | 53                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 647               | 0.008 | 5                   | 0.0               | 0.0             | 5.606     | A                             |
| C-AB   | 5                     | 1                       | 680               | 0.007 | 5                   | 0.0               | 0.0             | 5.341     | A                             |
| C-A    | 76                    | 19                      |                   |       | 76                  |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 63                    | 16                      |                   |       | 63                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 642               | 0.010 | 7                   | 0.0               | 0.0             | 5.667     | A                             |
| C-AB   | 6                     | 2                       | 688               | 0.009 | 6                   | 0.0               | 0.0             | 5.292     | A                             |
| C-A    | 93                    | 23                      |                   |       | 93                  |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 77                    | 19                      |                   |       | 77                  |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 642               | 0.010 | 7                   | 0.0               | 0.0             | 5.667     | A                             |
| C-AB   | 6                     | 2                       | 688               | 0.009 | 6                   | 0.0               | 0.0             | 5.293     | A                             |
| C-A    | 93                    | 23                      |                   |       | 93                  |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 77                    | 19                      |                   |       | 77                  |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 647               | 0.008 | 5                   | 0.0               | 0.0             | 5.609     | A                             |
| C-AB   | 5                     | 1                       | 680               | 0.007 | 5                   | 0.0               | 0.0             | 5.343     | A                             |
| C-A    | 76                    | 19                      |                   |       | 76                  |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 63                    | 16                      |                   |       | 63                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 651               | 0.007 | 5                   | 0.0               | 0.0             | 5.563     | A                             |
| C-AB   | 4                     | 1                       | 675               | 0.006 | 4                   | 0.0               | 0.0             | 5.378     | A                             |
| C-A    | 64                    | 16                      |                   |       | 64                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 53                    | 13                      |                   |       | 53                  |                   |                 |           |                               |

# 2029 Adjusted Base, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.39               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.39              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D5 | 2029 Adjusted Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 118                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 16                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 126                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |   |     |
|------|----|-----|---|-----|
|      | A  | B   | C |     |
| From | A  | 0   | 3 | 115 |
|      | B  | 5   | 0 | 11  |
|      | C  | 126 | 1 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |    |
|------|----|---|---|----|
|      | A  | B | C |    |
| From | A  | 0 | 0 | 6  |
|      | B  | 0 | 0 | 18 |
|      | C  | 3 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.03    | 5.97          | 0.0             | A       | 15                      | 22                            |
| C-AB   | 0.00    | 5.26          | 0.0             | A       | 1                       | 2                             |
| C-A    |         |               |                 |         | 115                     | 172                           |
| A-B    |         |               |                 |         | 3                       | 4                             |
| A-C    |         |               |                 |         | 106                     | 158                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 705               | 0.017 | 12                  | 0.0               | 0.0             | 5.802     | A                             |
| C-AB   | 0.87                  | 0.22                    | 688               | 0.001 | 0.87                | 0.0               | 0.0             | 5.282     | A                             |
| C-A    | 94                    | 23                      |                   |       | 94                  |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 87                    | 22                      |                   |       | 87                  |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 699               | 0.021 | 14                  | 0.0               | 0.0             | 5.871     | A                             |
| C-AB   | 1                     | 0.27                    | 696               | 0.002 | 1                   | 0.0               | 0.0             | 5.203     | A                             |
| C-A    | 112                   | 28                      |                   |       | 112                 |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 691               | 0.025 | 18                  | 0.0               | 0.0             | 5.971     | A                             |
| C-AB   | 1                     | 0.34                    | 708               | 0.002 | 1                   | 0.0               | 0.0             | 5.124     | A                             |
| C-A    | 137                   | 34                      |                   |       | 137                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 127                   | 32                      |                   |       | 127                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 691               | 0.025 | 18                  | 0.0               | 0.0             | 5.971     | A                             |
| C-AB   | 1                     | 0.34                    | 708               | 0.002 | 1                   | 0.0               | 0.0             | 5.126     | A                             |
| C-A    | 137                   | 34                      |                   |       | 137                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 127                   | 32                      |                   |       | 127                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 699               | 0.021 | 14                  | 0.0               | 0.0             | 5.874     | A                             |
| C-AB   | 1                     | 0.27                    | 696               | 0.002 | 1                   | 0.0               | 0.0             | 5.207     | A                             |
| C-A    | 112                   | 28                      |                   |       | 112                 |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 705               | 0.017 | 12                  | 0.0               | 0.0             | 5.804     | A                             |
| C-AB   | 0.87                  | 0.22                    | 688               | 0.001 | 0.87                | 0.0               | 0.0             | 5.264     | A                             |
| C-A    | 94                    | 23                      |                   |       | 94                  |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 87                    | 22                      |                   |       | 87                  |                   |                 |           |                               |

# 2029 Adjusted Base, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.31               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.31              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D6 | 2029 Adjusted Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 87                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 6                       | 100.000            |
| C   |            | ONE HOUR     | ✓            | 120                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

| From | To |     |   |    |
|------|----|-----|---|----|
|      | A  | B   | C |    |
|      | A  | 0   | 7 | 80 |
|      | B  | 4   | 0 | 2  |
|      | C  | 115 | 5 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

| From | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
|      | A  | 0 | 0 | 1 |
|      | B  | 0 | 0 | 0 |
|      | C  | 2 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.01    | 5.72          | 0.0             | A       | 6                       | 8                             |
| C-AB   | 0.01    | 5.28          | 0.0             | A       | 5                       | 8                             |
| C-A    |         |               |                 |         | 105                     | 157                           |
| A-B    |         |               |                 |         | 8                       | 10                            |
| A-C    |         |               |                 |         | 73                      | 110                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 647               | 0.007 | 4                   | 0.0               | 0.0             | 5.600     | A                             |
| C-AB   | 4                     | 1                       | 688               | 0.006 | 4                   | 0.0               | 0.0             | 5.279     | A                             |
| C-A    | 88                    | 22                      |                   |       | 88                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 60                    | 15                      |                   |       | 60                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 642               | 0.008 | 5                   | 0.0               | 0.0             | 5.651     | A                             |
| C-AB   | 5                     | 1                       | 696               | 0.008 | 5                   | 0.0               | 0.0             | 5.225     | A                             |
| C-A    | 103                   | 28                      |                   |       | 103                 |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 72                    | 18                      |                   |       | 72                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 636               | 0.010 | 7                   | 0.0               | 0.0             | 5.722     | A                             |
| C-AB   | 7                     | 2                       | 707               | 0.009 | 7                   | 0.0               | 0.0             | 5.153     | A                             |
| C-A    | 125                   | 31                      |                   |       | 125                 |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 88                    | 22                      |                   |       | 88                  |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 636               | 0.010 | 7                   | 0.0               | 0.0             | 5.722     | A                             |
| C-AB   | 7                     | 2                       | 707               | 0.009 | 7                   | 0.0               | 0.0             | 5.157     | A                             |
| C-A    | 125                   | 31                      |                   |       | 125                 |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 88                    | 22                      |                   |       | 88                  |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 642               | 0.008 | 5                   | 0.0               | 0.0             | 5.651     | A                             |
| C-AB   | 5                     | 1                       | 696               | 0.008 | 5                   | 0.0               | 0.0             | 5.230     | A                             |
| C-A    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 72                    | 18                      |                   |       | 72                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 647               | 0.007 | 5                   | 0.0               | 0.0             | 5.600     | A                             |
| C-AB   | 4                     | 1                       | 688               | 0.006 | 4                   | 0.0               | 0.0             | 5.281     | A                             |
| C-A    | 86                    | 22                      |                   |       | 86                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 60                    | 15                      |                   |       | 60                  |                   |                 |           |                               |

# 2029 + Dev Adjusted, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.31               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.31              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D7 | 2029 + Dev Adjusted | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 139                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 16                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 183                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |   |     |
|------|----|-----|---|-----|
|      | A  | B   | C |     |
|      | A  | 0   | 3 | 136 |
|      | B  | 5   | 0 | 11  |
| From | C  | 182 | 1 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |    |
|------|----|---|---|----|
|      | A  | B | C |    |
|      | A  | 0 | 0 | 6  |
|      | B  | 0 | 0 | 18 |
| From | C  | 3 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.03    | 6.06          | 0.0             | A       | 15                      | 22                            |
| C-AB   | 0.00    | 5.09          | 0.0             | A       | 1                       | 2                             |
| C-A    |         |               |                 |         | 167                     | 250                           |
| A-B    |         |               |                 |         | 3                       | 4                             |
| A-C    |         |               |                 |         | 125                     | 187                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 698               | 0.017 | 12                  | 0.0               | 0.0             | 5.861     | A                             |
| C-AB   | 0.93                  | 0.23                    | 712               | 0.001 | 0.93                | 0.0               | 0.0             | 5.088     | A                             |
| C-A    | 137                   | 34                      |                   |       | 137                 |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 102                   | 26                      |                   |       | 102                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 691               | 0.021 | 14                  | 0.0               | 0.0             | 5.945     | A                             |
| C-AB   | 1                     | 0.29                    | 726               | 0.002 | 1                   | 0.0               | 0.0             | 4.999     | A                             |
| C-A    | 163                   | 41                      |                   |       | 163                 |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 122                   | 31                      |                   |       | 122                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 681               | 0.026 | 18                  | 0.0               | 0.0             | 6.064     | A                             |
| C-AB   | 2                     | 0.38                    | 744               | 0.002 | 2                   | 0.0               | 0.0             | 4.882     | A                             |
| C-A    | 200                   | 50                      |                   |       | 200                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 150                   | 37                      |                   |       | 150                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 18                    | 4                       | 681               | 0.026 | 18                  | 0.0               | 0.0             | 6.064     | A                             |
| C-AB   | 2                     | 0.38                    | 744               | 0.002 | 2                   | 0.0               | 0.0             | 4.885     | A                             |
| C-A    | 200                   | 50                      |                   |       | 200                 |                   |                 |           |                               |
| A-B    | 3                     | 0.83                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 150                   | 37                      |                   |       | 150                 |                   |                 |           |                               |

**08:45 - 09:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 14                    | 4                       | 691               | 0.021 | 14                  | 0.0               | 0.0             | 5.947     | A                             |
| C-AB   | 1                     | 0.29                    | 726               | 0.002 | 1                   | 0.0               | 0.0             | 5.005     | A                             |
| C-A    | 163                   | 41                      |                   |       | 163                 |                   |                 |           |                               |
| A-B    | 3                     | 0.67                    |                   |       | 3                   |                   |                 |           |                               |
| A-C    | 122                   | 31                      |                   |       | 122                 |                   |                 |           |                               |

**09:00 - 09:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 12                    | 3                       | 698               | 0.017 | 12                  | 0.0               | 0.0             | 5.861     | A                             |
| C-AB   | 0.93                  | 0.23                    | 712               | 0.001 | 0.93                | 0.0               | 0.0             | 5.093     | A                             |
| C-A    | 137                   | 34                      |                   |       | 137                 |                   |                 |           |                               |
| A-B    | 2                     | 0.56                    |                   |       | 2                   |                   |                 |           |                               |
| A-C    | 102                   | 26                      |                   |       | 102                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 0.23               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 0.23              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 153                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 8                       | 100.000            |
| C   |            | ONE HOUR     | ✓            | 138                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|  | To |     |   |     |
|--|----|-----|---|-----|
|  | A  | B   | C |     |
|  | A  | 0   | 7 | 146 |
|  | B  | 4   | 0 | 2   |
|  | C  | 133 | 5 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |   |
|--|----|---|---|---|
|  | A  | B | C |   |
|  | A  | 0 | 0 | 1 |
|  | B  | 0 | 0 | 0 |
|  | C  | 2 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-AC   | 0.01    | 5.91          | 0.0             | A       | 6                       | 8                             |
| C-AB   | 0.01    | 5.30          | 0.0             | A       | 6                       | 8                             |
| C-A    |         |               |                 |         | 121                     | 182                           |
| A-B    |         |               |                 |         | 6                       | 10                            |
| A-C    |         |               |                 |         | 134                     | 201                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 634               | 0.007 | 4                   | 0.0               | 0.0             | 5.720     | A                             |
| C-AB   | 4                     | 1                       | 686               | 0.006 | 4                   | 0.0               | 0.0             | 5.296     | A                             |
| C-A    | 99                    | 25                      |                   |       | 99                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 110                   | 27                      |                   |       | 110                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 626               | 0.009 | 5                   | 0.0               | 0.0             | 5.797     | A                             |
| C-AB   | 5                     | 1                       | 694               | 0.008 | 5                   | 0.0               | 0.0             | 5.243     | A                             |
| C-A    | 119                   | 30                      |                   |       | 119                 |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 131                   | 33                      |                   |       | 131                 |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 616               | 0.011 | 7                   | 0.0               | 0.0             | 5.908     | A                             |
| C-AB   | 7                     | 2                       | 705               | 0.010 | 7                   | 0.0               | 0.0             | 5.173     | A                             |
| C-A    | 145                   | 36                      |                   |       | 145                 |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 161                   | 40                      |                   |       | 161                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 7                     | 2                       | 616               | 0.011 | 7                   | 0.0               | 0.0             | 5.908     | A                             |
| C-AB   | 7                     | 2                       | 705               | 0.010 | 7                   | 0.0               | 0.0             | 5.177     | A                             |
| C-A    | 145                   | 36                      |                   |       | 145                 |                   |                 |           |                               |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 161                   | 40                      |                   |       | 161                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 626               | 0.009 | 5                   | 0.0               | 0.0             | 5.800     | A                             |
| C-AB   | 5                     | 1                       | 694               | 0.008 | 5                   | 0.0               | 0.0             | 5.247     | A                             |
| C-A    | 119                   | 30                      |                   |       | 119                 |                   |                 |           |                               |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 131                   | 33                      |                   |       | 131                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-AC   | 5                     | 1                       | 634               | 0.007 | 5                   | 0.0               | 0.0             | 5.720     | A                             |
| C-AB   | 4                     | 1                       | 686               | 0.006 | 4                   | 0.0               | 0.0             | 5.300     | A                             |
| C-A    | 99                    | 25                      |                   |       | 99                  |                   |                 |           |                               |
| A-B    | 5                     | 1                       |                   |       | 5                   |                   |                 |           |                               |
| A-C    | 110                   | 27                      |                   |       | 110                 |                   |                 |           |                               |

**T20517**

**Brascote Lane, Newbold Verdon**

---

## Appendix S

### Brascote Lane/Kirkby Lane/Newbold Road – PICADY Assessment

| Junctions 10                                                                                                                                                     |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| PICADY 10 - Priority Intersection Module                                                                                                                         |  |  |  |  |
| Version: 10.0.4.1693                                                                                                                                             |  |  |  |  |
| © Copyright TRL Software Limited, 2021                                                                                                                           |  |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL Software:<br>+44 (0)1344 379777 software@trl.co.uk trlsoftware.com           |  |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |  |

Filename: T20517 - Brascote Ln-Newbold Rd-Kirkby Ln PRTM.j10  
Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs  
Report generation date: 28/04/2023 14:04:32

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

#### Summary of junction performance

|             | AM                  |             |           |      |     | PM     |             |           |      |     |
|-------------|---------------------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|
|             | Set ID              | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |
|             | 2023 Base           |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D1                  | 0.1         | 6.16      | 0.06 | A   | D2     | 0.0         | 5.79      | 0.04 | A   |
| Stream B-A  |                     | 0.0         | 0.00      | 0.00 | A   |        | 0.0         | 6.06      | 0.00 | A   |
| Stream C-AB |                     | 0.0         | 6.19      | 0.04 | A   |        | 0.1         | 6.31      | 0.07 | A   |
|             | 2024 Growth Base    |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D3                  | 0.1         | 6.16      | 0.06 | A   | D4     | 0.0         | 5.79      | 0.04 | A   |
| Stream B-A  |                     | 0.0         | 0.00      | 0.00 | A   |        | 0.0         | 6.06      | 0.00 | A   |
| Stream C-AB |                     | 0.0         | 6.19      | 0.04 | A   |        | 0.1         | 6.31      | 0.07 | A   |
|             | 2029 Adjusted Base  |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D5                  | 0.1         | 6.15      | 0.05 | A   | D6     | 0.0         | 5.80      | 0.04 | A   |
| Stream B-A  |                     | 0.0         | 0.00      | 0.00 | A   |        | 0.0         | 6.33      | 0.00 | A   |
| Stream C-AB |                     | 0.0         | 5.95      | 0.02 | A   |        | 0.2         | 6.69      | 0.15 | A   |
|             | 2029 + Dev Adjusted |             |           |      |     |        |             |           |      |     |
| Stream B-C  | D7                  | 0.1         | 6.41      | 0.05 | A   | D8     | 0.0         | 5.92      | 0.04 | A   |
| Stream B-A  |                     | 0.0         | 0.00      | 0.00 | A   |        | 0.0         | 6.64      | 0.00 | A   |
| Stream C-AB |                     | 0.0         | 6.10      | 0.02 | A   |        | 0.2         | 6.31      | 0.15 | A   |

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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       | Brasote Ln/Newbold Rd/Kirkby Ln |
| Location    | Newbold Verdon                  |
| Site number |                                 |
| Date        | 21/10/2021                      |
| Version     |                                 |
| Status      | (new file)                      |
| Identifier  |                                 |
| Client      | Richborough Estates             |
| Jobnumber   | T20517                          |
| Enumerator  | HUBTRANSPORT\Max.Law            |
| 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         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Show lane queues in feet / metres | Show all PICADY stream intercepts | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use iterations with HCM roundabouts | Max number of iterations for roundabouts |
|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|-------------------------------------|------------------------------------------|
| 5.75               |                             |                                   |                                   |                                   |                             | 0.85          | 38.00                       | 20.00                 |                                     | 500                                      |

## Demand Set Summary

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base           | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D2 | 2023 Base           | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D3 | 2024 Growth Base    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D4 | 2024 Growth Base    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D5 | 2029 Adjusted Base  | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D6 | 2029 Adjusted Base  | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D7 | 2029 + Dev Adjusted | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2023 Base, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.59               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.59              | A           |

## Arms

### Arms

| Arm | Name              | Description | Arm type |
|-----|-------------------|-------------|----------|
| A   | Brascote Lane (W) |             | Major    |
| B   | Kirkby Lane       |             | Minor    |
| C   | Brascote Lane (S) |             | Major    |

### Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right-turn storage | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|------------------------|-------------------------------|---------|----------------------|
| C   | 5.00                     |                            |                        | 50.0                          | ✓       | 0.00                 |

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 | Lane Width (Left) (m) | Lane Width (Right) (m) | Visibility to left (m) | Visibility to right (m) |
|-----|----------------|-----------------------|------------------------|------------------------|-------------------------|
| B   | Two lanes      | 2.82                  | 3.54                   | 200                    | 128                     |

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

| Stream | Intercept (PCU/hr) | Slope for A-B | Slope for A-C | Slope for C-A | Slope for C-B |
|--------|--------------------|---------------|---------------|---------------|---------------|
| B-A    | 643                | 0.122         | 0.309         | 0.194         | 0.442         |
| B-C    | 692                | 0.111         | 0.280         | -             | -             |
| C-B    | 603                | 0.244         | 0.244         | -             | -             |

The slopes and intercepts shown above include custom intercept adjustments only.

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 | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2023 Base     | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 53                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 35                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 45                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |    |
|------|----|----|----|----|
|      | A  | B  | C  |    |
| From | A  | 0  | 1  | 52 |
|      | B  | 0  | 0  | 35 |
|      | C  | 25 | 20 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 4 |
|      | B  | 0 | 0 | 9 |
|      | C  | 8 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.06    | 6.16          | 0.1             | A       | 32                      | 48                            |
| B-A    | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| C-AB   | 0.04    | 6.19          | 0.0             | A       | 19                      | 29                            |
| C-A    |         |               |                 |         | 22                      | 33                            |
| A-B    |         |               |                 |         | 0.92                    | 1                             |
| A-C    |         |               |                 |         | 48                      | 72                            |

## Main Results for each time segment

### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 26                    | 7                       | 680               | 0.039 | 26                  | 0.0               | 0.0             | 5.995     | A                             |
| B-A    | 0                     | 0                       | 621               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 16                    | 4                       | 606               | 0.026 | 15                  | 0.0               | 0.0             | 6.112     | A                             |
| C-A    | 18                    | 5                       |                   |       | 18                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |

### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 31                    | 8                       | 678               | 0.046 | 31                  | 0.0               | 0.1             | 6.065     | A                             |
| B-A    | 0                     | 0                       | 617               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 19                    | 5                       | 606               | 0.031 | 19                  | 0.0               | 0.0             | 6.140     | A                             |
| C-A    | 22                    | 5                       |                   |       | 22                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 47                    | 12                      |                   |       | 47                  |                   |                 |           |                               |

### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 39                    | 10                      | 675               | 0.057 | 38                  | 0.1               | 0.1             | 6.160     | A                             |
| B-A    | 0                     | 0                       | 610               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 23                    | 6                       | 607               | 0.038 | 23                  | 0.0               | 0.0             | 6.181     | A                             |
| C-A    | 26                    | 7                       |                   |       | 26                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 57                    | 14                      |                   |       | 57                  |                   |                 |           |                               |

### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 39                    | 10                      | 675               | 0.057 | 39                  | 0.1               | 0.1             | 6.160     | A                             |
| B-A    | 0                     | 0                       | 610               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 23                    | 6                       | 607               | 0.038 | 23                  | 0.0               | 0.0             | 6.185     | A                             |
| C-A    | 26                    | 7                       |                   |       | 26                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 57                    | 14                      |                   |       | 57                  |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 31                    | 8                       | 678               | 0.046 | 32                  | 0.1               | 0.1             | 6.066     | A                             |
| B-A    | 0                     | 0                       | 617               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 19                    | 5                       | 606               | 0.031 | 19                  | 0.0               | 0.0             | 6.144     | A                             |
| C-A    | 22                    | 5                       |                   |       | 22                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 47                    | 12                      |                   |       | 47                  |                   |                 |           |                               |

## 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 28                    | 7                       | 880               | 0.039 | 28                  | 0.1               | 0.0             | 8.001     | A                             |
| B-A    | 0                     | 0                       | 821               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 18                    | 4                       | 808               | 0.028 | 18                  | 0.0               | 0.0             | 8.114     | A                             |
| C-A    | 18                    | 5                       |                   |       | 18                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |

# 2023 Base, PM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 8m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.48               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.48              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2023 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 49                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 29                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 96                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |    |
|------|----|----|----|----|
|      | A  | B  | C  |    |
| From | A  | 0  | 0  | 49 |
|      | B  | 2  | 0  | 27 |
|      | C  | 58 | 38 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 0 |
|      | B  | 0 | 0 | 4 |
|      | C  | 0 | 3 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.04    | 5.79          | 0.0             | A       | 25                      | 37                            |
| B-A    | 0.00    | 6.06          | 0.0             | A       | 2                       | 3                             |
| C-AB   | 0.07    | 6.31          | 0.1             | A       | 38                      | 57                            |
| C-A    |         |               |                 |         | 50                      | 75                            |
| A-B    |         |               |                 |         | 0                       | 0                             |
| A-C    |         |               |                 |         | 45                      | 67                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 681               | 0.030 | 20                  | 0.0               | 0.0             | 5.668     | A                             |
| B-A    | 2                     | 0.38                    | 611               | 0.002 | 1                   | 0.0               | 0.0             | 5.906     | A                             |
| C-AB   | 31                    | 8                       | 623               | 0.049 | 31                  | 0.0               | 0.1             | 6.242     | A                             |
| C-A    | 42                    | 10                      |                   |       | 42                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 37                    | 9                       |                   |       | 37                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 6                       | 679               | 0.036 | 24                  | 0.0               | 0.0             | 5.720     | A                             |
| B-A    | 2                     | 0.45                    | 605               | 0.003 | 2                   | 0.0               | 0.0             | 5.972     | A                             |
| C-AB   | 37                    | 9                       | 627               | 0.059 | 37                  | 0.1               | 0.1             | 6.270     | A                             |
| C-A    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 44                    | 11                      |                   |       | 44                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 676               | 0.044 | 30                  | 0.0               | 0.0             | 5.794     | A                             |
| B-A    | 2                     | 0.55                    | 596               | 0.004 | 2                   | 0.0               | 0.0             | 6.064     | A                             |
| C-AB   | 47                    | 12                      | 633               | 0.074 | 46                  | 0.1               | 0.1             | 6.307     | A                             |
| C-A    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 54                    | 13                      |                   |       | 54                  |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 676               | 0.044 | 30                  | 0.0               | 0.0             | 5.794     | A                             |
| B-A    | 2                     | 0.55                    | 596               | 0.004 | 2                   | 0.0               | 0.0             | 6.064     | A                             |
| C-AB   | 47                    | 12                      | 633               | 0.074 | 47                  | 0.1               | 0.1             | 6.309     | A                             |
| C-A    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 54                    | 13                      |                   |       | 54                  |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 8                       | 679               | 0.036 | 24                  | 0.0               | 0.0             | 5.721     | A                             |
| B-A    | 2                     | 0.45                    | 604               | 0.003 | 2                   | 0.0               | 0.0             | 5.972     | A                             |
| C-AB   | 37                    | 9                       | 627               | 0.059 | 37                  | 0.1               | 0.1             | 6.272     | A                             |
| C-A    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 44                    | 11                      |                   |       | 44                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 681               | 0.030 | 20                  | 0.0               | 0.0             | 5.670     | A                             |
| B-A    | 2                     | 0.38                    | 611               | 0.002 | 2                   | 0.0               | 0.0             | 5.910     | A                             |
| C-AB   | 31                    | 8                       | 623               | 0.049 | 31                  | 0.1               | 0.1             | 6.245     | A                             |
| C-A    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 37                    | 9                       |                   |       | 37                  |                   |                 |           |                               |

# 2024 Growth Base, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 8m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.59               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.59              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2024 Growth Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 53                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 35                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 45                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |    |
|------|----|----|----|----|
|      | A  | B  | C  |    |
| From | A  | 0  | 1  | 52 |
|      | B  | 0  | 0  | 35 |
|      | C  | 25 | 20 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 4 |
|      | B  | 0 | 0 | 9 |
|      | C  | 8 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.06    | 6.16          | 0.1             | A       | 32                      | 48                            |
| B-A    | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| C-AB   | 0.04    | 6.19          | 0.0             | A       | 19                      | 29                            |
| C-A    |         |               |                 |         | 22                      | 33                            |
| A-B    |         |               |                 |         | 0.92                    | 1                             |
| A-C    |         |               |                 |         | 48                      | 72                            |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 26                    | 7                       | 680               | 0.039 | 26                  | 0.0               | 0.0             | 5.995     | A                             |
| B-A    | 0                     | 0                       | 621               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 16                    | 4                       | 606               | 0.026 | 15                  | 0.0               | 0.0             | 6.112     | A                             |
| C-A    | 18                    | 5                       |                   |       | 18                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 31                    | 8                       | 678               | 0.046 | 31                  | 0.0               | 0.1             | 6.065     | A                             |
| B-A    | 0                     | 0                       | 617               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 19                    | 5                       | 606               | 0.031 | 19                  | 0.0               | 0.0             | 6.140     | A                             |
| C-A    | 22                    | 5                       |                   |       | 22                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 47                    | 12                      |                   |       | 47                  |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 39                    | 10                      | 675               | 0.057 | 38                  | 0.1               | 0.1             | 6.160     | A                             |
| B-A    | 0                     | 0                       | 610               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 23                    | 6                       | 607               | 0.038 | 23                  | 0.0               | 0.0             | 6.181     | A                             |
| C-A    | 26                    | 7                       |                   |       | 26                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 57                    | 14                      |                   |       | 57                  |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 39                    | 10                      | 675               | 0.057 | 39                  | 0.1               | 0.1             | 6.160     | A                             |
| B-A    | 0                     | 0                       | 610               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 23                    | 6                       | 607               | 0.038 | 23                  | 0.0               | 0.0             | 6.185     | A                             |
| C-A    | 26                    | 7                       |                   |       | 26                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 57                    | 14                      |                   |       | 57                  |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 31                    | 8                       | 678               | 0.046 | 32                  | 0.1               | 0.1             | 6.066     | A                             |
| B-A    | 0                     | 0                       | 617               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 19                    | 5                       | 606               | 0.031 | 19                  | 0.0               | 0.0             | 6.144     | A                             |
| C-A    | 22                    | 5                       |                   |       | 22                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 47                    | 12                      |                   |       | 47                  |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 26                    | 7                       | 680               | 0.039 | 26                  | 0.1               | 0.0             | 6.001     | A                             |
| B-A    | 0                     | 0                       | 621               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 16                    | 4                       | 606               | 0.026 | 16                  | 0.0               | 0.0             | 6.114     | A                             |
| C-A    | 18                    | 5                       |                   |       | 18                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |

# 2024 Growth Base, PM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.48               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.48              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D4 | 2024 Growth Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 49                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 29                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 96                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |    |
|------|----|----|----|----|
|      | A  | B  | C  |    |
| From | A  | 0  | 0  | 49 |
|      | B  | 2  | 0  | 27 |
|      | C  | 58 | 38 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 0 |
|      | B  | 0 | 0 | 4 |
|      | C  | 0 | 3 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.04    | 5.79          | 0.0             | A       | 25                      | 37                            |
| B-A    | 0.00    | 6.06          | 0.0             | A       | 2                       | 3                             |
| C-AB   | 0.07    | 6.31          | 0.1             | A       | 38                      | 57                            |
| C-A    |         |               |                 |         | 50                      | 75                            |
| A-B    |         |               |                 |         | 0                       | 0                             |
| A-C    |         |               |                 |         | 45                      | 67                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 681               | 0.030 | 20                  | 0.0               | 0.0             | 5.668     | A                             |
| B-A    | 2                     | 0.38                    | 611               | 0.002 | 1                   | 0.0               | 0.0             | 5.906     | A                             |
| C-AB   | 31                    | 8                       | 623               | 0.049 | 31                  | 0.0               | 0.1             | 6.242     | A                             |
| C-A    | 42                    | 10                      |                   |       | 42                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 37                    | 9                       |                   |       | 37                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 6                       | 679               | 0.036 | 24                  | 0.0               | 0.0             | 5.720     | A                             |
| B-A    | 2                     | 0.45                    | 605               | 0.003 | 2                   | 0.0               | 0.0             | 5.972     | A                             |
| C-AB   | 37                    | 9                       | 627               | 0.059 | 37                  | 0.1               | 0.1             | 6.270     | A                             |
| C-A    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 44                    | 11                      |                   |       | 44                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 676               | 0.044 | 30                  | 0.0               | 0.0             | 5.794     | A                             |
| B-A    | 2                     | 0.55                    | 596               | 0.004 | 2                   | 0.0               | 0.0             | 6.064     | A                             |
| C-AB   | 47                    | 12                      | 633               | 0.074 | 46                  | 0.1               | 0.1             | 6.307     | A                             |
| C-A    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 54                    | 13                      |                   |       | 54                  |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 676               | 0.044 | 30                  | 0.0               | 0.0             | 5.794     | A                             |
| B-A    | 2                     | 0.55                    | 596               | 0.004 | 2                   | 0.0               | 0.0             | 6.064     | A                             |
| C-AB   | 47                    | 12                      | 633               | 0.074 | 47                  | 0.1               | 0.1             | 6.309     | A                             |
| C-A    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 54                    | 13                      |                   |       | 54                  |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 6                       | 679               | 0.036 | 24                  | 0.0               | 0.0             | 5.721     | A                             |
| B-A    | 2                     | 0.45                    | 604               | 0.003 | 2                   | 0.0               | 0.0             | 5.972     | A                             |
| C-AB   | 37                    | 9                       | 627               | 0.059 | 37                  | 0.1               | 0.1             | 6.272     | A                             |
| C-A    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 44                    | 11                      |                   |       | 44                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 681               | 0.030 | 20                  | 0.0               | 0.0             | 5.670     | A                             |
| B-A    | 2                     | 0.38                    | 611               | 0.002 | 2                   | 0.0               | 0.0             | 5.910     | A                             |
| C-AB   | 31                    | 8                       | 623               | 0.049 | 31                  | 0.1               | 0.1             | 6.245     | A                             |
| C-A    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 37                    | 9                       |                   |       | 37                  |                   |                 |           |                               |

# 2029 Adjusted Base, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.86               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.86              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D5 | 2029 Adjusted Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 55                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 33                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 59                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |    |
|------|----|----|----|----|
|      | A  | B  | C  |    |
| From | A  | 0  | 1  | 54 |
|      | B  | 0  | 0  | 33 |
|      | C  | 48 | 11 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 4 |
|      | B  | 0 | 0 | 9 |
|      | C  | 8 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.05    | 6.15          | 0.1             | A       | 30                      | 45                            |
| B-A    | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| C-AB   | 0.02    | 5.95          | 0.0             | A       | 11                      | 16                            |
| C-A    |         |               |                 |         | 43                      | 65                            |
| A-B    |         |               |                 |         | 0.92                    | 1                             |
| A-C    |         |               |                 |         | 50                      | 74                            |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 25                    | 6                       | 680               | 0.037 | 25                  | 0.0               | 0.0             | 5.985     | A                             |
| B-A    | 0                     | 0                       | 620               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 9                     | 2                       | 617               | 0.014 | 9                   | 0.0               | 0.0             | 5.943     | A                             |
| C-A    | 36                    | 9                       |                   |       | 36                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 678               | 0.044 | 30                  | 0.0               | 0.0             | 6.053     | A                             |
| B-A    | 0                     | 0                       | 616               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 11                    | 3                       | 620               | 0.017 | 11                  | 0.0               | 0.0             | 5.936     | A                             |
| C-A    | 42                    | 11                      |                   |       | 42                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 36                    | 9                       | 675               | 0.054 | 36                  | 0.0               | 0.1             | 6.145     | A                             |
| B-A    | 0                     | 0                       | 609               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 13                    | 3                       | 624               | 0.021 | 13                  | 0.0               | 0.0             | 5.930     | A                             |
| C-A    | 52                    | 13                      |                   |       | 52                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 36                    | 9                       | 675               | 0.054 | 36                  | 0.1               | 0.1             | 6.145     | A                             |
| B-A    | 0                     | 0                       | 609               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 13                    | 3                       | 624               | 0.021 | 13                  | 0.0               | 0.0             | 5.933     | A                             |
| C-A    | 52                    | 13                      |                   |       | 52                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 59                    | 15                      |                   |       | 59                  |                   |                 |           |                               |

**08:45 - 09:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 678               | 0.044 | 30                  | 0.1               | 0.1             | 6.056     | A                             |
| B-A    | 0                     | 0                       | 616               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 11                    | 3                       | 620               | 0.017 | 11                  | 0.0               | 0.0             | 5.943     | A                             |
| C-A    | 42                    | 11                      |                   |       | 42                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |

**09:00 - 09:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 25                    | 6                       | 680               | 0.037 | 25                  | 0.1               | 0.0             | 5.988     | A                             |
| B-A    | 0                     | 0                       | 620               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 9                     | 2                       | 617               | 0.014 | 9                   | 0.0               | 0.0             | 5.949     | A                             |
| C-A    | 36                    | 9                       |                   |       | 36                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 41                    | 10                      |                   |       | 41                  |                   |                 |           |                               |

# 2029 Adjusted Base, PM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 8m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 3.13               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 3.13              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D6 | 2029 Adjusted Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 52                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 29                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 158                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |    |
|------|----|----|----|----|
|      | A  | B  | C  |    |
| From | A  | 0  | 0  | 52 |
|      | B  | 2  | 0  | 27 |
|      | C  | 82 | 76 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 0 |
|      | B  | 0 | 0 | 4 |
|      | C  | 0 | 3 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.04    | 5.80          | 0.0             | A       | 25                      | 37                            |
| B-A    | 0.00    | 6.33          | 0.0             | A       | 2                       | 3                             |
| C-AB   | 0.15    | 6.69          | 0.2             | A       | 79                      | 119                           |
| C-A    |         |               |                 |         | 66                      | 98                            |
| A-B    |         |               |                 |         | 0                       | 0                             |
| A-C    |         |               |                 |         | 48                      | 72                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 680               | 0.030 | 20                  | 0.0               | 0.0             | 5.673     | A                             |
| B-A    | 2                     | 0.38                    | 594               | 0.003 | 1                   | 0.0               | 0.0             | 6.074     | A                             |
| C-AB   | 63                    | 16                      | 635               | 0.100 | 63                  | 0.0               | 0.1             | 6.456     | A                             |
| C-A    | 56                    | 14                      |                   |       | 56                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 6                       | 678               | 0.036 | 24                  | 0.0               | 0.0             | 5.727     | A                             |
| B-A    | 2                     | 0.45                    | 584               | 0.003 | 2                   | 0.0               | 0.0             | 6.179     | A                             |
| C-AB   | 77                    | 19                      | 641               | 0.121 | 77                  | 0.1               | 0.2             | 6.555     | A                             |
| C-A    | 65                    | 16                      |                   |       | 65                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 47                    | 12                      |                   |       | 47                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 675               | 0.044 | 30                  | 0.0               | 0.0             | 5.802     | A                             |
| B-A    | 2                     | 0.55                    | 571               | 0.004 | 2                   | 0.0               | 0.0             | 6.328     | A                             |
| C-AB   | 97                    | 24                      | 650               | 0.150 | 97                  | 0.2               | 0.2             | 6.685     | A                             |
| C-A    | 77                    | 19                      |                   |       | 77                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 57                    | 14                      |                   |       | 57                  |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 675               | 0.044 | 30                  | 0.0               | 0.0             | 5.802     | A                             |
| B-A    | 2                     | 0.55                    | 571               | 0.004 | 2                   | 0.0               | 0.0             | 6.329     | A                             |
| C-AB   | 97                    | 24                      | 650               | 0.150 | 97                  | 0.2               | 0.2             | 6.687     | A                             |
| C-A    | 77                    | 19                      |                   |       | 77                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 57                    | 14                      |                   |       | 57                  |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 8                       | 678               | 0.036 | 24                  | 0.0               | 0.0             | 5.727     | A                             |
| B-A    | 2                     | 0.45                    | 584               | 0.003 | 2                   | 0.0               | 0.0             | 6.183     | A                             |
| C-AB   | 77                    | 19                      | 641               | 0.121 | 77                  | 0.2               | 0.2             | 6.556     | A                             |
| C-A    | 65                    | 16                      |                   |       | 65                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 47                    | 12                      |                   |       | 47                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 680               | 0.030 | 20                  | 0.0               | 0.0             | 5.676     | A                             |
| B-A    | 2                     | 0.38                    | 594               | 0.003 | 2                   | 0.0               | 0.0             | 6.079     | A                             |
| C-AB   | 63                    | 16                      | 635               | 0.100 | 64                  | 0.2               | 0.1             | 6.474     | A                             |
| C-A    | 56                    | 14                      |                   |       | 56                  |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |

# 2029 + Dev Adjusted, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 1.08               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 1.08              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D7 | 2029 + Dev Adjusted | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 149                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 31                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 72                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |    |    |     |
|------|----|----|----|-----|
|      | A  | B  | C  |     |
| From | A  | 0  | 1  | 148 |
|      | B  | 0  | 0  | 31  |
|      | C  | 61 | 11 | 0   |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 4 |
|      | B  | 0 | 0 | 9 |
|      | C  | 8 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.05    | 6.41          | 0.1             | A       | 28                      | 43                            |
| B-A    | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| C-AB   | 0.02    | 6.10          | 0.0             | A       | 11                      | 17                            |
| C-A    |         |               |                 |         | 55                      | 82                            |
| A-B    |         |               |                 |         | 0.92                    | 1                             |
| A-C    |         |               |                 |         | 138                     | 204                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 23                    | 6                       | 660               | 0.035 | 23                  | 0.0               | 0.0             | 6.157     | A                             |
| B-A    | 0                     | 0                       | 596               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 9                     | 2                       | 607               | 0.015 | 9                   | 0.0               | 0.0             | 6.054     | A                             |
| C-A    | 45                    | 11                      |                   |       | 45                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 111                   | 28                      |                   |       | 111                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 28                    | 7                       | 654               | 0.043 | 28                  | 0.0               | 0.0             | 6.264     | A                             |
| B-A    | 0                     | 0                       | 587               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 11                    | 3                       | 608               | 0.018 | 11                  | 0.0               | 0.0             | 6.068     | A                             |
| C-A    | 54                    | 13                      |                   |       | 54                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 133                   | 33                      |                   |       | 133                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 34                    | 9                       | 646               | 0.053 | 34                  | 0.0               | 0.1             | 6.414     | A                             |
| B-A    | 0                     | 0                       | 574               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 14                    | 3                       | 609               | 0.022 | 14                  | 0.0               | 0.0             | 6.090     | A                             |
| C-A    | 66                    | 16                      |                   |       | 66                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 163                   | 41                      |                   |       | 163                 |                   |                 |           |                               |

#### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 34                    | 9                       | 646               | 0.053 | 34                  | 0.1               | 0.1             | 6.414     | A                             |
| B-A    | 0                     | 0                       | 574               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 14                    | 3                       | 609               | 0.022 | 14                  | 0.0               | 0.0             | 6.097     | A                             |
| C-A    | 66                    | 16                      |                   |       | 66                  |                   |                 |           |                               |
| A-B    | 1                     | 0.28                    |                   |       | 1                   |                   |                 |           |                               |
| A-C    | 163                   | 41                      |                   |       | 163                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 28                    | 7                       | 654               | 0.043 | 28                  | 0.1               | 0.0             | 6.265     | A                             |
| B-A    | 0                     | 0                       | 587               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 11                    | 3                       | 608               | 0.018 | 11                  | 0.0               | 0.0             | 6.077     | A                             |
| C-A    | 54                    | 13                      |                   |       | 54                  |                   |                 |           |                               |
| A-B    | 0.90                  | 0.22                    |                   |       | 0.90                |                   |                 |           |                               |
| A-C    | 133                   | 33                      |                   |       | 133                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 23                    | 6                       | 660               | 0.035 | 23                  | 0.0               | 0.0             | 6.163     | A                             |
| B-A    | 0                     | 0                       | 596               | 0.000 | 0                   | 0.0               | 0.0             | 0.000     | A                             |
| C-AB   | 9                     | 2                       | 607               | 0.015 | 9                   | 0.0               | 0.0             | 6.061     | A                             |
| C-A    | 45                    | 11                      |                   |       | 45                  |                   |                 |           |                               |
| A-B    | 0.75                  | 0.19                    |                   |       | 0.75                |                   |                 |           |                               |
| A-C    | 111                   | 28                      |                   |       | 111                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, PM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | T-Junction    | Two-way         | Two-way         | Two-way         |                       | 2.20               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.20              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 92                      | 100.000            |
| B   |            | ONE HOUR     | ✓            | 29                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 222                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |    |
|------|----|-----|----|----|
|      | A  | B   | C  |    |
| From | A  | 0   | 0  | 92 |
|      | B  | 2   | 0  | 27 |
|      | C  | 149 | 73 | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |
|------|----|---|---|---|
|      | A  | B | C |   |
| From | A  | 0 | 0 | 0 |
|      | B  | 0 | 0 | 4 |
|      | C  | 0 | 3 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-C    | 0.04    | 5.92          | 0.0             | A       | 25                      | 37                            |
| B-A    | 0.00    | 6.64          | 0.0             | A       | 2                       | 3                             |
| C-AB   | 0.15    | 6.31          | 0.2             | A       | 85                      | 127                           |
| C-A    |         |               |                 |         | 119                     | 179                           |
| A-B    |         |               |                 |         | 0                       | 0                             |
| A-C    |         |               |                 |         | 84                      | 127                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 672               | 0.030 | 20                  | 0.0               | 0.0             | 5.744     | A                             |
| B-A    | 2                     | 0.38                    | 576               | 0.003 | 1                   | 0.0               | 0.0             | 6.266     | A                             |
| C-AB   | 66                    | 17                      | 662               | 0.100 | 66                  | 0.0               | 0.1             | 6.187     | A                             |
| C-A    | 101                   | 25                      |                   |       | 101                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 69                    | 17                      |                   |       | 69                  |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 6                       | 668               | 0.036 | 24                  | 0.0               | 0.0             | 5.816     | A                             |
| B-A    | 2                     | 0.45                    | 563               | 0.003 | 2                   | 0.0               | 0.0             | 6.418     | A                             |
| C-AB   | 82                    | 21                      | 673               | 0.122 | 82                  | 0.1               | 0.2             | 6.235     | A                             |
| C-A    | 118                   | 29                      |                   |       | 118                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 83                    | 21                      |                   |       | 83                  |                   |                 |           |                               |

#### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 663               | 0.045 | 30                  | 0.0               | 0.0             | 5.916     | A                             |
| B-A    | 2                     | 0.55                    | 544               | 0.004 | 2                   | 0.0               | 0.0             | 6.638     | A                             |
| C-AB   | 106                   | 26                      | 690               | 0.153 | 106                 | 0.2               | 0.2             | 6.306     | A                             |
| C-A    | 139                   | 35                      |                   |       | 139                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 101                   | 25                      |                   |       | 101                 |                   |                 |           |                               |

#### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 30                    | 7                       | 663               | 0.045 | 30                  | 0.0               | 0.0             | 5.916     | A                             |
| B-A    | 2                     | 0.55                    | 544               | 0.004 | 2                   | 0.0               | 0.0             | 6.639     | A                             |
| C-AB   | 106                   | 26                      | 690               | 0.153 | 106                 | 0.2               | 0.2             | 6.307     | A                             |
| C-A    | 139                   | 35                      |                   |       | 139                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 101                   | 25                      |                   |       | 101                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 24                    | 6                       | 668               | 0.036 | 24                  | 0.0               | 0.0             | 5.817     | A                             |
| B-A    | 2                     | 0.45                    | 562               | 0.003 | 2                   | 0.0               | 0.0             | 6.419     | A                             |
| C-AB   | 82                    | 21                      | 673               | 0.122 | 82                  | 0.2               | 0.2             | 6.237     | A                             |
| C-A    | 117                   | 29                      |                   |       | 117                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 83                    | 21                      |                   |       | 83                  |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-C    | 20                    | 5                       | 672               | 0.030 | 20                  | 0.0               | 0.0             | 5.749     | A                             |
| B-A    | 2                     | 0.38                    | 576               | 0.003 | 2                   | 0.0               | 0.0             | 6.269     | A                             |
| C-AB   | 66                    | 17                      | 662               | 0.100 | 66                  | 0.2               | 0.1             | 6.196     | A                             |
| C-A    | 101                   | 25                      |                   |       | 101                 |                   |                 |           |                               |
| A-B    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| A-C    | 69                    | 17                      |                   |       | 69                  |                   |                 |           |                               |

**T20517**

**Brascote Lane, Newbold Verdon**

---

## Appendix T

### **Bosworth Road/Newbold Road/Main Street/Stapleton Lane – PICADY Assessment**

# Junctions 10

## PICADY 10 - Priority Intersection Module

Version: 10.0.4.1693

© Copyright TRL Software Limited, 2021

For sales and distribution information, program advice and maintenance, contact TRL Software:

+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: T20517 - Newbold Rd-Main St-Stapleton Ln-Bosworth Rd PRTM.j10

Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs

Report generation date: 28/04/2023 14:05:32

- »2021 Base, AM
- »2021 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

### Summary of junction performance

| AM                  |        |             |           |      |     | PM     |             |           |      |     |  |
|---------------------|--------|-------------|-----------|------|-----|--------|-------------|-----------|------|-----|--|
|                     | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS | Set ID | Queue (PCU) | Delay (s) | RFC  | LOS |  |
| 2021 Base           |        |             |           |      |     |        |             |           |      |     |  |
| Stream B-ACD        | D1     | 0.4         | 11.84     | 0.29 | B   | D2     | 0.2         | 8.27      | 0.16 | A   |  |
| Stream A-BCD        |        | 0.1         | 5.78      | 0.06 | A   |        | 0.0         | 5.48      | 0.02 | A   |  |
| Stream D-ABC        |        | 0.0         | 6.20      | 0.02 | A   |        | 0.1         | 5.80      | 0.09 | A   |  |
| Stream C-ABD        |        | 0.1         | 6.30      | 0.07 | A   |        | 0.2         | 6.02      | 0.10 | A   |  |
| 2024 Growth Base    |        |             |           |      |     |        |             |           |      |     |  |
| Stream B-ACD        | D3     | 0.4         | 12.03     | 0.30 | B   | D4     | 0.2         | 8.36      | 0.17 | A   |  |
| Stream A-BCD        |        | 0.1         | 5.76      | 0.06 | A   |        | 0.0         | 5.47      | 0.02 | A   |  |
| Stream D-ABC        |        | 0.0         | 6.21      | 0.02 | A   |        | 0.1         | 5.62      | 0.09 | A   |  |
| Stream C-ABD        |        | 0.1         | 6.31      | 0.08 | A   |        | 0.2         | 6.03      | 0.10 | A   |  |
| 2029 Adjusted Base  |        |             |           |      |     |        |             |           |      |     |  |
| Stream B-ACD        | D5     | 0.4         | 10.74     | 0.27 | B   | D6     | 0.3         | 9.05      | 0.21 | A   |  |
| Stream A-BCD        |        | 0.1         | 5.91      | 0.06 | A   |        | 0.0         | 5.26      | 0.02 | A   |  |
| Stream D-ABC        |        | 0.0         | 6.37      | 0.02 | A   |        | 0.1         | 5.80      | 0.09 | A   |  |
| Stream C-ABD        |        | 0.2         | 6.50      | 0.14 | A   |        | 0.3         | 6.54      | 0.18 | A   |  |
| 2029 + Dev Adjusted |        |             |           |      |     |        |             |           |      |     |  |
| Stream B-ACD        | D7     | 0.9         | 14.58     | 0.47 | B   | D8     | 0.4         | 9.63      | 0.27 | A   |  |
| Stream A-BCD        |        | 0.1         | 5.92      | 0.07 | A   |        | 0.0         | 5.18      | 0.02 | A   |  |
| Stream D-ABC        |        | 0.0         | 6.38      | 0.02 | A   |        | 0.1         | 5.82      | 0.09 | A   |  |
| Stream C-ABD        |        | 0.3         | 6.66      | 0.16 | A   |        | 0.5         | 7.43      | 0.27 | A   |  |

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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       | Bosworth Road/Newbold Road/Main Street/Stapleton Lane |
| Location    | Newbold Verdon                                        |
| Site number |                                                       |
| Date        | 03/04/2023                                            |
| Version     |                                                       |
| Status      | (new file)                                            |
| Identifier  |                                                       |
| Client      | Richborough Estates                                   |
| Jobnumber   | T20517                                                |
| Enumerator  | AzureAD/MaxLaw                                        |
| 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         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Show lane queues in feet / metres | Show all PICADY stream intercepts | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) | Use iterations with HCM roundabouts | Max number of iterations for roundabouts |
|--------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|-------------------------------------|------------------------------------------|
| 5.75               |                             |                                   |                                   |                                   |                             | 0.85          | 38.00                       | 20.00                 |                                     | 500                                      |

## Demand Set Summary

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2021 Base           | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D2 | 2021 Base           | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D3 | 2024 Growth Base    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D4 | 2024 Growth Base    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D5 | 2029 Adjusted Base  | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D6 | 2029 Adjusted Base  | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |
| D7 | 2029 + Dev Adjusted | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2021 Base, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 3.78               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 3.78              | A           |

## Arms

### Arms

| Arm | Name           | Description | Arm type |
|-----|----------------|-------------|----------|
| A   | Bosworth Road  |             | Major    |
| B   | Newbold Road   |             | Minor    |
| C   | Main Street    |             | Major    |
| D   | Stapleton Lane |             | Minor    |

### Major Arm Geometry

| Arm | Width of carriageway (m) | Has kerbed central reserve | Has right-turn storage | Visibility for right turn (m) | Blocks? | Blocking queue (PCU) |
|-----|--------------------------|----------------------------|------------------------|-------------------------------|---------|----------------------|
| A   | 5.50                     |                            |                        | 65.0                          | ✓       | 0.00                 |
| C   | 5.50                     |                            |                        | 60.0                          | ✓       | 0.00                 |

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 | Lane width (m) | Visibility to left (m) | Visibility to right (m) |
|-----|----------------|----------------|------------------------|-------------------------|
| B   | One lane       | 3.36           | 5                      | 15                      |
| D   | One lane       | 3.18           | 5                      | 250                     |

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

| Stream             | Intercept (PCU/hr) | Slope for A-B | Slope for A-C | Slope for A-D | Slope for B-A | Slope for B-C | Slope for B-D | Slope for C-A | Slope for C-B | Slope for C-D | Slope for D-A | Slope for D-B | Slope for D-C |
|--------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| A-D                | 612                | -             | -             | -             | -             | -             | -             | 0.242         | 0.346         | 0.242         | -             | -             | -             |
| B-A                | 504                | 0.094         | 0.237         | 0.237         | -             | -             | -             | 0.149         | 0.339         | -             | 0.237         | 0.237         | 0.119         |
| B-C                | 656                | 0.103         | 0.260         | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| B-D, nearside lane | 504                | 0.094         | 0.237         | 0.237         | -             | -             | -             | 0.149         | 0.339         | 0.149         | -             | -             | -             |
| B-D, offside lane  | 504                | 0.094         | 0.237         | 0.237         | -             | -             | -             | 0.149         | 0.339         | 0.149         | -             | -             | -             |
| C-B                | 609                | 0.241         | 0.241         | 0.344         | -             | -             | -             | -             | -             | -             | -             | -             | -             |
| D-A                | 795                | -             | -             | -             | -             | -             | -             | 0.315         | -             | 0.125         | -             | -             | -             |
| D-B, nearside lane | 611                | 0.181         | 0.181         | 0.411         | -             | -             | -             | 0.287         | 0.287         | 0.114         | -             | -             | -             |
| D-B, offside lane  | 611                | 0.181         | 0.181         | 0.411         | -             | -             | -             | 0.287         | 0.287         | 0.114         | -             | -             | -             |
| D-C                | 611                | -             | 0.181         | 0.411         | 0.144         | 0.287         | 0.287         | 0.287         | 0.287         | 0.114         | -             | -             | -             |

The slopes and intercepts shown above include custom intercept adjustments only.

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 | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2021 Base     | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 217                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 119                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 170                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 11                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To |     |    |     |    |
|------|----|-----|----|-----|----|
|      | A  | B   | C  | D   |    |
| From | A  | 0   | 24 | 165 | 28 |
|      | B  | 82  | 0  | 34  | 3  |
|      | C  | 137 | 33 | 0   | 0  |
|      | D  | 9   | 2  | 0   | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |    |    |   |    |
|------|----|----|----|---|----|
|      | A  | B  | C  | D |    |
| From | A  | 0  | 8  | 3 | 4  |
|      | B  | 6  | 0  | 6 | 33 |
|      | C  | 6  | 6  | 0 | 0  |
|      | D  | 11 | 50 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.29    | 11.84         | 0.4             | B       | 109                     | 164                           |
| A-BCD  | 0.06    | 5.78          | 0.1             | A       | 35                      | 52                            |
| A-B    |         |               |                 |         | 21                      | 31                            |
| A-C    |         |               |                 |         | 144                     | 215                           |
| D-ABC  | 0.02    | 6.20          | 0.0             | A       | 10                      | 15                            |
| C-ABD  | 0.07    | 6.30          | 0.1             | A       | 38                      | 57                            |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 118                     | 177                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 90                    | 22                      | 482               | 0.186 | 89                  | 0.0               | 0.2             | 9.724     | A                             |
| A-BCD  | 27                    | 7                       | 675               | 0.040 | 26                  | 0.0               | 0.1             | 5.771     | A                             |
| A-B    | 17                    | 4                       |                   |       | 17                  |                   |                 |           |                               |
| A-C    | 119                   | 30                      |                   |       | 119                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 710               | 0.012 | 8                   | 0.0               | 0.0             | 5.979     | A                             |
| C-ABD  | 30                    | 7                       | 638               | 0.046 | 29                  | 0.0               | 0.1             | 6.271     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 98                    | 25                      |                   |       | 98                  |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 107                   | 27                      | 471               | 0.227 | 107                 | 0.2               | 0.3             | 10.521    | B                             |
| A-BCD  | 33                    | 8                       | 687               | 0.049 | 33                  | 0.1               | 0.1             | 5.722     | A                             |
| A-B    | 21                    | 5                       |                   |       | 21                  |                   |                 |           |                               |
| A-C    | 141                   | 35                      |                   |       | 141                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 701               | 0.014 | 10                  | 0.0               | 0.0             | 6.070     | A                             |
| C-ABD  | 37                    | 9                       | 644               | 0.057 | 37                  | 0.1               | 0.1             | 6.283     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |

#### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 131                   | 33                      | 455               | 0.288 | 131                 | 0.3               | 0.4             | 11.810    | B                             |
| A-BCD  | 44                    | 11                      | 706               | 0.062 | 44                  | 0.1               | 0.1             | 5.652     | A                             |
| A-B    | 25                    | 6                       |                   |       | 25                  |                   |                 |           |                               |
| A-C    | 170                   | 43                      |                   |       | 170                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 688               | 0.018 | 12                  | 0.0               | 0.0             | 6.201     | A                             |
| C-ABD  | 47                    | 12                      | 653               | 0.073 | 47                  | 0.1               | 0.1             | 6.301     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 140                   | 35                      |                   |       | 140                 |                   |                 |           |                               |

**08:30 - 08:45**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 131                   | 33                      | 455               | 0.288 | 131                 | 0.4               | 0.4             | 11.845    | B                             |
| A-BCD  | 44                    | 11                      | 706               | 0.062 | 44                  | 0.1               | 0.1             | 5.653     | A                             |
| A-B    | 25                    | 6                       |                   |       | 25                  |                   |                 |           |                               |
| A-C    | 170                   | 43                      |                   |       | 170                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 688               | 0.018 | 12                  | 0.0               | 0.0             | 6.201     | A                             |
| C-ABD  | 47                    | 12                      | 653               | 0.073 | 47                  | 0.1               | 0.1             | 6.304     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 140                   | 35                      |                   |       | 140                 |                   |                 |           |                               |

**08:45 - 09:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 107                   | 27                      | 471               | 0.227 | 107                 | 0.4               | 0.3             | 10.573    | B                             |
| A-BCD  | 34                    | 8                       | 687               | 0.049 | 34                  | 0.1               | 0.1             | 5.722     | A                             |
| A-B    | 21                    | 5                       |                   |       | 21                  |                   |                 |           |                               |
| A-C    | 141                   | 35                      |                   |       | 141                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 701               | 0.014 | 10                  | 0.0               | 0.0             | 6.071     | A                             |
| C-ABD  | 37                    | 9                       | 644               | 0.057 | 37                  | 0.1               | 0.1             | 6.288     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 116                   | 29                      |                   |       | 116                 |                   |                 |           |                               |

**09:00 - 09:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 90                    | 22                      | 482               | 0.186 | 90                  | 0.3               | 0.2             | 9.790     | A                             |
| A-BCD  | 27                    | 7                       | 675               | 0.040 | 27                  | 0.1               | 0.1             | 5.778     | A                             |
| A-B    | 17                    | 4                       |                   |       | 17                  |                   |                 |           |                               |
| A-C    | 119                   | 30                      |                   |       | 119                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 710               | 0.012 | 8                   | 0.0               | 0.0             | 5.980     | A                             |
| C-ABD  | 30                    | 7                       | 638               | 0.047 | 30                  | 0.1               | 0.1             | 6.277     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 98                    | 25                      |                   |       | 98                  |                   |                 |           |                               |

# 2021 Base, PM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 2.66               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.66              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2021 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 188                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 77                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 192                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 57                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |    |     |   |
|------|---|-----|----|-----|---|
|      |   | A   | B  | C   | D |
| From | A | 0   | 44 | 136 | 8 |
|      | B | 24  | 0  | 52  | 1 |
|      | C | 146 | 46 | 0   | 0 |
|      | D | 50  | 7  | 0   | 0 |

## Vehicle Mix

### Heavy Vehicle Percentages

| From | To |   |   |   |   |
|------|----|---|---|---|---|
|      | A  | B | C | D |   |
|      | A  | 0 | 0 | 1 | 0 |
|      | B  | 0 | 0 | 2 | 0 |
|      | C  | 3 | 0 | 0 | 0 |
|      | D  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.16    | 8.27          | 0.2             | A       | 71                      | 106                           |
| A-BCD  | 0.02    | 5.48          | 0.0             | A       | 10                      | 15                            |
| A-B    |         |               |                 |         | 40                      | 60                            |
| A-C    |         |               |                 |         | 123                     | 184                           |
| D-ABC  | 0.09    | 5.60          | 0.1             | A       | 52                      | 78                            |
| C-ABD  | 0.10    | 6.02          | 0.2             | A       | 53                      | 80                            |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 123                     | 184                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 58                    | 14                      | 549               | 0.106 | 57                  | 0.0               | 0.1             | 7.413     | A                             |
| A-BCD  | 8                     | 2                       | 665               | 0.011 | 8                   | 0.0               | 0.0             | 5.480     | A                             |
| A-B    | 33                    | 8                       |                   |       | 33                  |                   |                 |           |                               |
| A-C    | 101                   | 25                      |                   |       | 101                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 725               | 0.059 | 43                  | 0.0               | 0.1             | 5.275     | A                             |
| C-ABD  | 42                    | 10                      | 649               | 0.064 | 41                  | 0.0               | 0.1             | 5.953     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 69                    | 17                      | 539               | 0.128 | 69                  | 0.1               | 0.1             | 7.754     | A                             |
| A-BCD  | 9                     | 2                       | 676               | 0.014 | 9                   | 0.0               | 0.0             | 5.406     | A                             |
| A-B    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |
| A-C    | 121                   | 30                      |                   |       | 121                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 717               | 0.072 | 51                  | 0.1               | 0.1             | 5.409     | A                             |
| C-ABD  | 52                    | 13                      | 657               | 0.079 | 52                  | 0.1               | 0.1             | 5.978     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 121                   | 30                      |                   |       | 121                 |                   |                 |           |                               |

**17:15 - 17:30**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 85                    | 21                      | 526               | 0.161 | 85                  | 0.1               | 0.2             | 8.285     | A                             |
| A-BCD  | 12                    | 3                       | 692               | 0.018 | 12                  | 0.0               | 0.0             | 5.306     | A                             |
| A-B    | 48                    | 12                      |                   |       | 48                  |                   |                 |           |                               |
| A-C    | 147                   | 37                      |                   |       | 147                 |                   |                 |           |                               |
| D-ABC  | 63                    | 16                      | 705               | 0.089 | 63                  | 0.1               | 0.1             | 5.603     | A                             |
| C-ABD  | 67                    | 17                      | 669               | 0.100 | 67                  | 0.1               | 0.2             | 6.017     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 145                   | 36                      |                   |       | 145                 |                   |                 |           |                               |

**17:30 - 17:45**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 85                    | 21                      | 526               | 0.161 | 85                  | 0.2               | 0.2             | 8.272     | A                             |
| A-BCD  | 12                    | 3                       | 692               | 0.018 | 12                  | 0.0               | 0.0             | 5.307     | A                             |
| A-B    | 48                    | 12                      |                   |       | 48                  |                   |                 |           |                               |
| A-C    | 147                   | 37                      |                   |       | 147                 |                   |                 |           |                               |
| D-ABC  | 63                    | 16                      | 705               | 0.089 | 63                  | 0.1               | 0.1             | 5.604     | A                             |
| C-ABD  | 67                    | 17                      | 669               | 0.100 | 67                  | 0.2               | 0.2             | 6.023     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 145                   | 36                      |                   |       | 145                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 69                    | 17                      | 539               | 0.128 | 69                  | 0.2               | 0.2             | 7.764     | A                             |
| A-BCD  | 9                     | 2                       | 676               | 0.014 | 9                   | 0.0               | 0.0             | 5.409     | A                             |
| A-B    | 39                    | 10                      |                   |       | 39                  |                   |                 |           |                               |
| A-C    | 121                   | 30                      |                   |       | 121                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 717               | 0.072 | 51                  | 0.1               | 0.1             | 5.413     | A                             |
| C-ABD  | 52                    | 13                      | 657               | 0.079 | 52                  | 0.2               | 0.1             | 5.990     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 121                   | 30                      |                   |       | 121                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 58                    | 14                      | 549               | 0.106 | 58                  | 0.2               | 0.1             | 7.433     | A                             |
| A-BCD  | 8                     | 2                       | 665               | 0.011 | 8                   | 0.0               | 0.0             | 5.482     | A                             |
| A-B    | 33                    | 8                       |                   |       | 33                  |                   |                 |           |                               |
| A-C    | 101                   | 25                      |                   |       | 101                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 725               | 0.059 | 43                  | 0.1               | 0.1             | 5.278     | A                             |
| C-ABD  | 42                    | 10                      | 649               | 0.064 | 42                  | 0.1               | 0.1             | 5.967     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |

# 2024 Growth Base, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 3.83               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 3.83              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D3 | 2024 Growth Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 222                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 122                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 174                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 11                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |    |     |    |
|------|---|-----|----|-----|----|
|      |   | A   | B  | C   | D  |
| From | A | 0   | 25 | 169 | 28 |
|      | B | 84  | 0  | 35  | 3  |
|      | C | 140 | 34 | 0   | 0  |
|      | D | 9   | 2  | 0   | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

| From | To |    |    |   |    |
|------|----|----|----|---|----|
|      | A  | B  | C  | D |    |
|      | A  | 0  | 8  | 3 | 4  |
|      | B  | 6  | 0  | 6 | 33 |
|      | C  | 6  | 6  | 0 | 0  |
|      | D  | 11 | 50 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.30    | 12.03         | 0.4             | B       | 112                     | 168                           |
| A-BCD  | 0.06    | 5.76          | 0.1             | A       | 35                      | 52                            |
| A-B    |         |               |                 |         | 22                      | 33                            |
| A-C    |         |               |                 |         | 147                     | 220                           |
| D-ABC  | 0.02    | 6.21          | 0.0             | A       | 10                      | 15                            |
| C-ABD  | 0.08    | 6.31          | 0.1             | A       | 39                      | 59                            |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 120                     | 181                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 92                    | 23                      | 481               | 0.191 | 91                  | 0.0               | 0.2             | 9.805     | A                             |
| A-BCD  | 27                    | 7                       | 676               | 0.040 | 27                  | 0.0               | 0.1             | 5.756     | A                             |
| A-B    | 18                    | 5                       |                   |       | 18                  |                   |                 |           |                               |
| A-C    | 122                   | 31                      |                   |       | 122                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 709               | 0.012 | 8                   | 0.0               | 0.0             | 5.987     | A                             |
| C-ABD  | 31                    | 8                       | 638               | 0.048 | 30                  | 0.0               | 0.1             | 6.274     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 100                   | 25                      |                   |       | 100                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 110                   | 27                      | 469               | 0.234 | 109                 | 0.2               | 0.3             | 10.647    | B                             |
| A-BCD  | 34                    | 8                       | 690               | 0.049 | 34                  | 0.1               | 0.1             | 5.705     | A                             |
| A-B    | 21                    | 5                       |                   |       | 21                  |                   |                 |           |                               |
| A-C    | 144                   | 38                      |                   |       | 144                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 700               | 0.014 | 10                  | 0.0               | 0.0             | 6.080     | A                             |
| C-ABD  | 38                    | 10                      | 645               | 0.059 | 38                  | 0.1               | 0.1             | 6.288     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 118                   | 30                      |                   |       | 118                 |                   |                 |           |                               |

### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 134                   | 34                      | 453               | 0.296 | 134                 | 0.3               | 0.4             | 11.994    | B                             |
| A-BCD  | 44                    | 11                      | 708               | 0.062 | 44                  | 0.1               | 0.1             | 5.632     | A                             |
| A-B    | 28                    | 8                       |                   |       | 28                  |                   |                 |           |                               |
| A-C    | 174                   | 44                      |                   |       | 174                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 687               | 0.018 | 12                  | 0.0               | 0.0             | 6.215     | A                             |
| C-ABD  | 49                    | 12                      | 654               | 0.075 | 49                  | 0.1               | 0.1             | 6.310     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |

### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 134                   | 34                      | 453               | 0.296 | 134                 | 0.4               | 0.4             | 12.029    | B                             |
| A-BCD  | 44                    | 11                      | 708               | 0.063 | 44                  | 0.1               | 0.1             | 5.636     | A                             |
| A-B    | 28                    | 8                       |                   |       | 28                  |                   |                 |           |                               |
| A-C    | 174                   | 44                      |                   |       | 174                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 687               | 0.018 | 12                  | 0.0               | 0.0             | 6.215     | A                             |
| C-ABD  | 49                    | 12                      | 654               | 0.075 | 49                  | 0.1               | 0.1             | 6.313     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 142                   | 36                      |                   |       | 142                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 110                   | 27                      | 469               | 0.234 | 110                 | 0.4               | 0.3             | 10.694    | B                             |
| A-BCD  | 34                    | 8                       | 690               | 0.049 | 34                  | 0.1               | 0.1             | 5.705     | A                             |
| A-B    | 21                    | 5                       |                   |       | 21                  |                   |                 |           |                               |
| A-C    | 144                   | 36                      |                   |       | 144                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 700               | 0.014 | 10                  | 0.0               | 0.0             | 6.081     | A                             |
| C-ABD  | 38                    | 10                      | 645               | 0.059 | 38                  | 0.1               | 0.1             | 6.295     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 118                   | 30                      |                   |       | 118                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 92                    | 23                      | 481               | 0.191 | 92                  | 0.3               | 0.3             | 9.875     | A                             |
| A-BCD  | 27                    | 7                       | 676               | 0.040 | 27                  | 0.1               | 0.1             | 5.781     | A                             |
| A-B    | 18                    | 5                       |                   |       | 18                  |                   |                 |           |                               |
| A-C    | 122                   | 31                      |                   |       | 122                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 709               | 0.012 | 8                   | 0.0               | 0.0             | 5.968     | A                             |
| C-ABD  | 31                    | 8                       | 638               | 0.048 | 31                  | 0.1               | 0.1             | 6.281     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 100                   | 25                      |                   |       | 100                 |                   |                 |           |                               |

# 2024 Growth Base, PM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 2.67               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.67              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name    | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D4 | 2024 Growth Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 192                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 79                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 197                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 57                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |    |     |   |
|------|---|-----|----|-----|---|
|      |   | A   | B  | C   | D |
| From | A | 0   | 45 | 139 | 8 |
|      | B | 25  | 0  | 53  | 1 |
|      | C | 150 | 47 | 0   | 0 |
|      | D | 50  | 7  | 0   | 0 |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |   |
|------|----|---|---|---|---|
| From |    | A | B | C | D |
|      | A  | 0 | 0 | 1 | 0 |
|      | B  | 0 | 0 | 2 | 0 |
|      | C  | 3 | 0 | 0 | 0 |
|      | D  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.17    | 8.36          | 0.2             | A       | 72                      | 109                           |
| A-BCD  | 0.02    | 5.47          | 0.0             | A       | 10                      | 15                            |
| A-B    |         |               |                 |         | 41                      | 61                            |
| A-C    |         |               |                 |         | 128                     | 188                           |
| D-ABC  | 0.09    | 5.62          | 0.1             | A       | 52                      | 78                            |
| C-ABD  | 0.10    | 6.03          | 0.2             | A       | 55                      | 82                            |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 126                     | 189                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 59                    | 15                      | 547               | 0.109 | 59                  | 0.0               | 0.1             | 7.482     | A                             |
| A-BCD  | 8                     | 2                       | 667               | 0.011 | 8                   | 0.0               | 0.0             | 5.471     | A                             |
| A-B    | 33                    | 8                       |                   |       | 33                  |                   |                 |           |                               |
| A-C    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 724               | 0.059 | 43                  | 0.0               | 0.1             | 5.283     | A                             |
| C-ABD  | 43                    | 11                      | 650               | 0.066 | 42                  | 0.0               | 0.1             | 5.951     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 105                   | 26                      |                   |       | 105                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 71                    | 18                      | 537               | 0.132 | 71                  | 0.1               | 0.2             | 7.820     | A                             |
| A-BCD  | 10                    | 2                       | 678               | 0.014 | 10                  | 0.0               | 0.0             | 5.395     | A                             |
| A-B    | 40                    | 10                      |                   |       | 40                  |                   |                 |           |                               |
| A-C    | 123                   | 31                      |                   |       | 123                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 715               | 0.072 | 51                  | 0.1               | 0.1             | 5.420     | A                             |
| C-ABD  | 53                    | 13                      | 659               | 0.081 | 53                  | 0.1               | 0.1             | 5.979     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 124                   | 31                      |                   |       | 124                 |                   |                 |           |                               |

**17:15 - 17:30**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 87                    | 22                      | 523               | 0.166 | 87                  | 0.2               | 0.2             | 8.354     | A                             |
| A-BCD  | 12                    | 3                       | 694               | 0.018 | 12                  | 0.0               | 0.0             | 5.293     | A                             |
| A-B    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-C    | 150                   | 38                      |                   |       | 150                 |                   |                 |           |                               |
| D-ABC  | 63                    | 16                      | 703               | 0.089 | 63                  | 0.1               | 0.1             | 5.618     | A                             |
| C-ABD  | 69                    | 17                      | 671               | 0.102 | 69                  | 0.1               | 0.2             | 6.017     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 148                   | 37                      |                   |       | 148                 |                   |                 |           |                               |

**17:30 - 17:45**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 87                    | 22                      | 523               | 0.166 | 87                  | 0.2               | 0.2             | 8.361     | A                             |
| A-BCD  | 12                    | 3                       | 694               | 0.018 | 12                  | 0.0               | 0.0             | 5.294     | A                             |
| A-B    | 49                    | 12                      |                   |       | 49                  |                   |                 |           |                               |
| A-C    | 150                   | 38                      |                   |       | 150                 |                   |                 |           |                               |
| D-ABC  | 63                    | 16                      | 703               | 0.089 | 63                  | 0.1               | 0.1             | 5.618     | A                             |
| C-ABD  | 69                    | 17                      | 671               | 0.103 | 69                  | 0.2               | 0.2             | 6.026     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 148                   | 37                      |                   |       | 148                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 71                    | 18                      | 537               | 0.132 | 71                  | 0.2               | 0.2             | 7.831     | A                             |
| A-BCD  | 10                    | 2                       | 678               | 0.014 | 10                  | 0.0               | 0.0             | 5.398     | A                             |
| A-B    | 40                    | 10                      |                   |       | 40                  |                   |                 |           |                               |
| A-C    | 123                   | 31                      |                   |       | 123                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 715               | 0.072 | 51                  | 0.1               | 0.1             | 5.422     | A                             |
| C-ABD  | 53                    | 13                      | 659               | 0.081 | 53                  | 0.2               | 0.1             | 5.989     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 124                   | 31                      |                   |       | 124                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 59                    | 15                      | 547               | 0.109 | 60                  | 0.2               | 0.1             | 7.482     | A                             |
| A-BCD  | 8                     | 2                       | 666               | 0.011 | 8                   | 0.0               | 0.0             | 5.473     | A                             |
| A-B    | 33                    | 8                       |                   |       | 33                  |                   |                 |           |                               |
| A-C    | 103                   | 26                      |                   |       | 103                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 724               | 0.059 | 43                  | 0.1               | 0.1             | 5.287     | A                             |
| C-ABD  | 43                    | 11                      | 650               | 0.066 | 43                  | 0.1               | 0.1             | 5.963     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 105                   | 26                      |                   |       | 105                 |                   |                 |           |                               |

# 2029 Adjusted Base, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 3.64               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 3.64              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D5 | 2029 Adjusted Base | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 217                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 122                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 242                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 11                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |    |     |    |
|------|---|-----|----|-----|----|
|      |   | A   | B  | C   | D  |
| From | A | 0   | 9  | 180 | 28 |
|      | B | 49  | 0  | 70  | 3  |
|      | C | 179 | 63 | 0   | 0  |
|      | D | 9   | 2  | 0   | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |    |    |   |    |
|------|----|----|----|---|----|
| From |    | A  | B  | C | D  |
|      | A  | 0  | 8  | 3 | 4  |
|      | B  | 6  | 0  | 6 | 33 |
|      | C  | 6  | 6  | 0 | 0  |
|      | D  | 11 | 50 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.27    | 10.74         | 0.4             | B       | 112                     | 168                           |
| A-BCD  | 0.06    | 5.91          | 0.1             | A       | 35                      | 53                            |
| A-B    |         |               |                 |         | 8                       | 12                            |
| A-C    |         |               |                 |         | 158                     | 234                           |
| D-ABC  | 0.02    | 6.37          | 0.0             | A       | 10                      | 15                            |
| C-ABD  | 0.14    | 6.50          | 0.2             | A       | 77                      | 116                           |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 145                     | 217                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 92                    | 23                      | 521               | 0.176 | 91                  | 0.0               | 0.2             | 8.902     | A                             |
| A-BCD  | 27                    | 7                       | 660               | 0.041 | 27                  | 0.0               | 0.1             | 5.897     | A                             |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 130                   | 32                      |                   |       | 130                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 698               | 0.012 | 8                   | 0.0               | 0.0             | 6.083     | A                             |
| C-ABD  | 80                    | 15                      | 659               | 0.090 | 59                  | 0.0               | 0.1             | 6.353     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 123                   | 31                      |                   |       | 123                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 110                   | 27                      | 509               | 0.216 | 109                 | 0.2               | 0.3             | 9.603     | A                             |
| A-BCD  | 34                    | 8                       | 671               | 0.050 | 34                  | 0.1               | 0.1             | 5.870     | A                             |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 154                   | 38                      |                   |       | 154                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 686               | 0.014 | 10                  | 0.0               | 0.0             | 6.199     | A                             |
| C-ABD  | 75                    | 19                      | 670               | 0.111 | 75                  | 0.1               | 0.2             | 6.411     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |

## 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 134                   | 34                      | 491               | 0.273 | 134                 | 0.3               | 0.4             | 10.713    | B                             |
| A-BCD  | 44                    | 11                      | 685               | 0.065 | 44                  | 0.1               | 0.1             | 5.827     | A                             |
| A-B    | 9                     | 2                       |                   |       | 9                   |                   |                 |           |                               |
| A-C    | 185                   | 46                      |                   |       | 185                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 670               | 0.018 | 12                  | 0.0               | 0.0             | 6.369     | A                             |
| C-ABD  | 98                    | 24                      | 685               | 0.142 | 97                  | 0.2               | 0.2             | 6.497     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |

## 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 134                   | 34                      | 491               | 0.273 | 134                 | 0.4               | 0.4             | 10.740    | B                             |
| A-BCD  | 44                    | 11                      | 685               | 0.065 | 44                  | 0.1               | 0.1             | 5.832     | A                             |
| A-B    | 9                     | 2                       |                   |       | 9                   |                   |                 |           |                               |
| A-C    | 185                   | 46                      |                   |       | 185                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 670               | 0.018 | 12                  | 0.0               | 0.0             | 6.370     | A                             |
| C-ABD  | 98                    | 24                      | 685               | 0.143 | 98                  | 0.2               | 0.2             | 6.501     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 169                   | 42                      |                   |       | 169                 |                   |                 |           |                               |

## 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 110                   | 27                      | 508               | 0.216 | 110                 | 0.4               | 0.3             | 9.638     | A                             |
| A-BCD  | 34                    | 8                       | 671               | 0.050 | 34                  | 0.1               | 0.1             | 5.873     | A                             |
| A-B    | 8                     | 2                       |                   |       | 8                   |                   |                 |           |                               |
| A-C    | 154                   | 38                      |                   |       | 154                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 666               | 0.014 | 10                  | 0.0               | 0.0             | 6.203     | A                             |
| C-ABD  | 75                    | 19                      | 670               | 0.112 | 75                  | 0.2               | 0.2             | 6.420     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |

## 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 92                    | 23                      | 521               | 0.176 | 92                  | 0.3               | 0.2             | 8.956     | A                             |
| A-BCD  | 27                    | 7                       | 660               | 0.041 | 27                  | 0.1               | 0.1             | 5.905     | A                             |
| A-B    | 6                     | 2                       |                   |       | 6                   |                   |                 |           |                               |
| A-C    | 130                   | 32                      |                   |       | 130                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 698               | 0.012 | 8                   | 0.0               | 0.0             | 6.067     | A                             |
| C-ABD  | 60                    | 15                      | 659               | 0.091 | 60                  | 0.2               | 0.1             | 6.368     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 122                   | 31                      |                   |       | 122                 |                   |                 |           |                               |

## 2029 Adjusted Base, PM

### Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 2.83               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 2.83              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name      | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|--------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D6 | 2029 Adjusted Base | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 274                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 96                      | 100.000            |
| C   |            | ONE HOUR     | ✓            | 269                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 57                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |    |     |   |
|------|---|-----|----|-----|---|
|      |   | A   | B  | C   | D |
| From | A | 0   | 74 | 192 | 8 |
|      | B | 25  | 0  | 70  | 1 |
|      | C | 190 | 79 | 0   | 0 |
|      | D | 50  | 7  | 0   | 0 |

## Vehicle Mix

### Heavy Vehicle Percentages

|  | To |   |   |   |   |
|--|----|---|---|---|---|
|  | A  | B | C | D |   |
|  | A  | 0 | 0 | 1 | 0 |
|  | B  | 0 | 0 | 2 | 0 |
|  | C  | 3 | 0 | 0 | 0 |
|  | D  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.21    | 9.05          | 0.3             | A       | 88                      | 132                           |
| A-BCD  | 0.02    | 5.26          | 0.0             | A       | 11                      | 17                            |
| A-B    |         |               |                 |         | 67                      | 100                           |
| A-C    |         |               |                 |         | 173                     | 260                           |
| D-ABC  | 0.09    | 5.80          | 0.1             | A       | 52                      | 78                            |
| C-ABD  | 0.18    | 6.54          | 0.3             | A       | 99                      | 149                           |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 148                     | 221                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 72                    | 18                      | 541               | 0.133 | 72                  | 0.0               | 0.2             | 7.764     | A                             |
| A-BCD  | 8                     | 2                       | 695               | 0.012 | 8                   | 0.0               | 0.0             | 5.255     | A                             |
| A-B    | 55                    | 14                      |                   |       | 55                  |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 710               | 0.060 | 43                  | 0.0               | 0.1             | 5.391     | A                             |
| C-ABD  | 76                    | 19                      | 657               | 0.116 | 75                  | 0.0               | 0.2             | 6.225     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 126                   | 32                      |                   |       | 126                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 88                    | 22                      | 528               | 0.163 | 88                  | 0.2               | 0.2             | 8.285     | A                             |
| A-BCD  | 11                    | 3                       | 712               | 0.015 | 11                  | 0.0               | 0.0             | 5.144     | A                             |
| A-B    | 66                    | 16                      |                   |       | 66                  |                   |                 |           |                               |
| A-C    | 170                   | 42                      |                   |       | 170                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 699               | 0.073 | 51                  | 0.1               | 0.1             | 5.558     | A                             |
| C-ABD  | 96                    | 24                      | 667               | 0.143 | 95                  | 0.2               | 0.2             | 6.338     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 146                   | 37                      |                   |       | 146                 |                   |                 |           |                               |

**17:15 - 17:30**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 106                   | 26                      | 509               | 0.208 | 105                 | 0.2               | 0.3             | 9.039     | A                             |
| A-BCD  | 15                    | 4                       | 737               | 0.020 | 15                  | 0.0               | 0.0             | 4.995     | A                             |
| A-B    | 80                    | 20                      |                   |       | 80                  |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |
| D-ABC  | 63                    | 16                      | 683               | 0.092 | 63                  | 0.1               | 0.1             | 5.804     | A                             |
| C-ABD  | 126                   | 31                      | 682               | 0.184 | 125                 | 0.2               | 0.3             | 6.521     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 170                   | 43                      |                   |       | 170                 |                   |                 |           |                               |

**17:30 - 17:45**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 106                   | 26                      | 509               | 0.208 | 106                 | 0.3               | 0.3             | 9.051     | A                             |
| A-BCD  | 15                    | 4                       | 737               | 0.020 | 15                  | 0.0               | 0.0             | 4.999     | A                             |
| A-B    | 80                    | 20                      |                   |       | 80                  |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |
| D-ABC  | 63                    | 16                      | 683               | 0.092 | 63                  | 0.1               | 0.1             | 5.804     | A                             |
| C-ABD  | 126                   | 31                      | 682               | 0.184 | 126                 | 0.3               | 0.3             | 6.537     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 170                   | 43                      |                   |       | 170                 |                   |                 |           |                               |

**17:45 - 18:00**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 86                    | 22                      | 528               | 0.163 | 87                  | 0.3               | 0.2             | 8.279     | A                             |
| A-BCD  | 11                    | 3                       | 712               | 0.015 | 11                  | 0.0               | 0.0             | 5.150     | A                             |
| A-B    | 66                    | 16                      |                   |       | 66                  |                   |                 |           |                               |
| A-C    | 170                   | 42                      |                   |       | 170                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 699               | 0.073 | 51                  | 0.1               | 0.1             | 5.562     | A                             |
| C-ABD  | 96                    | 24                      | 688               | 0.143 | 96                  | 0.3               | 0.2             | 6.383     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 146                   | 37                      |                   |       | 146                 |                   |                 |           |                               |

**18:00 - 18:15**

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 72                    | 18                      | 541               | 0.134 | 72                  | 0.2               | 0.2             | 7.794     | A                             |
| A-BCD  | 8                     | 2                       | 695               | 0.012 | 8                   | 0.0               | 0.0             | 5.259     | A                             |
| A-B    | 55                    | 14                      |                   |       | 55                  |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 710               | 0.060 | 43                  | 0.1               | 0.1             | 5.395     | A                             |
| C-ABD  | 76                    | 19                      | 657               | 0.116 | 76                  | 0.2               | 0.2             | 6.248     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 126                   | 32                      |                   |       | 126                 |                   |                 |           |                               |

# 2029 + Dev Adjusted, AM

## Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 5.85               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 5.85              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D7 | 2029 + Dev Adjusted | AM               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 219                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 215                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 252                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 11                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |    |     |    |
|------|---|-----|----|-----|----|
|      |   | A   | B  | C   | D  |
| From | A | 0   | 12 | 179 | 28 |
|      | B | 79  | 0  | 133 | 3  |
|      | C | 180 | 72 | 0   | 0  |
|      | D | 9   | 2  | 0   | 0  |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |    |    |   |    |
|------|----|----|----|---|----|
| From |    | A  | B  | C | D  |
|      | A  | 0  | 8  | 3 | 4  |
|      | B  | 6  | 0  | 6 | 33 |
|      | C  | 6  | 6  | 0 | 0  |
|      | D  | 11 | 50 | 0 | 0  |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.47    | 14.58         | 0.9             | B       | 197                     | 296                           |
| A-BCD  | 0.07    | 5.92          | 0.1             | A       | 35                      | 53                            |
| A-B    |         |               |                 |         | 10                      | 16                            |
| A-C    |         |               |                 |         | 155                     | 233                           |
| D-ABC  | 0.02    | 6.36          | 0.0             | A       | 10                      | 15                            |
| C-ABD  | 0.16    | 6.66          | 0.3             | A       | 89                      | 133                           |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 143                     | 214                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 162                   | 40                      | 528               | 0.306 | 160                 | 0.0               | 0.5             | 10.339    | B                             |
| A-BCD  | 27                    | 7                       | 669               | 0.041 | 27                  | 0.0               | 0.1             | 5.911     | A                             |
| A-B    | 9                     | 2                       |                   |       | 9                   |                   |                 |           |                               |
| A-C    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 697               | 0.012 | 8                   | 0.0               | 0.0             | 6.091     | A                             |
| C-ABD  | 68                    | 17                      | 660               | 0.103 | 68                  | 0.0               | 0.2             | 6.441     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 121                   | 30                      |                   |       | 121                 |                   |                 |           |                               |

#### 08:00 - 08:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 193                   | 48                      | 516               | 0.375 | 193                 | 0.5               | 0.6             | 11.807    | B                             |
| A-BCD  | 34                    | 8                       | 669               | 0.051 | 34                  | 0.1               | 0.1             | 5.886     | A                             |
| A-B    | 10                    | 3                       |                   |       | 10                  |                   |                 |           |                               |
| A-C    | 153                   | 38                      |                   |       | 153                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 685               | 0.014 | 10                  | 0.0               | 0.0             | 6.210     | A                             |
| C-ABD  | 85                    | 21                      | 670               | 0.128 | 85                  | 0.2               | 0.2             | 6.524     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 141                   | 35                      |                   |       | 141                 |                   |                 |           |                               |

### 08:15 - 08:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 237                   | 59                      | 499               | 0.474 | 235                 | 0.6               | 0.9             | 14.456    | B                             |
| A-BCD  | 45                    | 11                      | 684               | 0.065 | 44                  | 0.1               | 0.1             | 5.847     | A                             |
| A-B    | 12                    | 3                       |                   |       | 12                  |                   |                 |           |                               |
| A-C    | 184                   | 46                      |                   |       | 184                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 669               | 0.018 | 12                  | 0.0               | 0.0             | 6.384     | A                             |
| C-ABD  | 112                   | 28                      | 685               | 0.163 | 111                 | 0.2               | 0.3             | 6.651     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 166                   | 41                      |                   |       | 166                 |                   |                 |           |                               |

### 08:30 - 08:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 237                   | 59                      | 499               | 0.475 | 237                 | 0.9               | 0.9             | 14.581    | B                             |
| A-BCD  | 45                    | 11                      | 684               | 0.065 | 45                  | 0.1               | 0.1             | 5.849     | A                             |
| A-B    | 12                    | 3                       |                   |       | 12                  |                   |                 |           |                               |
| A-C    | 184                   | 46                      |                   |       | 184                 |                   |                 |           |                               |
| D-ABC  | 12                    | 3                       | 669               | 0.018 | 12                  | 0.0               | 0.0             | 6.385     | A                             |
| C-ABD  | 112                   | 28                      | 685               | 0.163 | 112                 | 0.3               | 0.3             | 6.659     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 166                   | 41                      |                   |       | 166                 |                   |                 |           |                               |

### 08:45 - 09:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 193                   | 48                      | 516               | 0.375 | 194                 | 0.9               | 0.6             | 11.948    | B                             |
| A-BCD  | 34                    | 8                       | 669               | 0.051 | 34                  | 0.1               | 0.1             | 5.887     | A                             |
| A-B    | 10                    | 3                       |                   |       | 10                  |                   |                 |           |                               |
| A-C    | 153                   | 38                      |                   |       | 153                 |                   |                 |           |                               |
| D-ABC  | 10                    | 2                       | 685               | 0.014 | 10                  | 0.0               | 0.0             | 6.212     | A                             |
| C-ABD  | 86                    | 21                      | 670               | 0.128 | 86                  | 0.3               | 0.2             | 6.538     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 141                   | 35                      |                   |       | 141                 |                   |                 |           |                               |

### 09:00 - 09:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 162                   | 40                      | 528               | 0.306 | 163                 | 0.6               | 0.5             | 10.487    | B                             |
| A-BCD  | 27                    | 7                       | 659               | 0.041 | 27                  | 0.1               | 0.1             | 5.919     | A                             |
| A-B    | 9                     | 2                       |                   |       | 9                   |                   |                 |           |                               |
| A-C    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |
| D-ABC  | 8                     | 2                       | 697               | 0.012 | 8                   | 0.0               | 0.0             | 6.095     | A                             |
| C-ABD  | 68                    | 17                      | 660               | 0.104 | 69                  | 0.2               | 0.2             | 6.462     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 121                   | 30                      |                   |       | 121                 |                   |                 |           |                               |

## 2029 + Dev Adjusted, PM

### Data Errors and Warnings

| Severity | Area            | Item                       | Description                                                                                                          |
|----------|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Warning  | Major arm width | Arm A - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |
| Warning  | Major arm width | Arm C - Major arm geometry | For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m. |

## Junction Network

### Junctions

| Junction | Name     | Junction type | Arm A Direction | Arm B Direction | Arm C Direction | Arm D Direction | Use circulating lanes | Junction Delay (s) | Junction LOS |
|----------|----------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------------|--------------------|--------------|
| 1        | untitled | Crossroads    | Two-way         | Two-way         | Two-way         | Two-way         |                       | 3.51               | A            |

### Junction Network

| Driving side | Lighting       | Network delay (s) | Network LOS |
|--------------|----------------|-------------------|-------------|
| Left         | Normal/unknown | 3.51              | A           |

## Traffic Demand

### Demand Set Details

| ID | Scenario name       | Time Period name | Traffic profile type | Start time (HH:mm) | Finish time (HH:mm) | Time segment length (min) | Run automatically |
|----|---------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D8 | 2029 + Dev Adjusted | PM               | ONE HOUR             | 16:45              | 18:15               | 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 | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----|------------|--------------|--------------|-------------------------|--------------------|
| A   |            | ONE HOUR     | ✓            | 306                     | 100.000            |
| B   |            | ONE HOUR     | ✓            | 126                     | 100.000            |
| C   |            | ONE HOUR     | ✓            | 294                     | 100.000            |
| D   |            | ONE HOUR     | ✓            | 57                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      |   | To  |     |     |   |
|------|---|-----|-----|-----|---|
|      |   | A   | B   | C   | D |
| From | A | 0   | 106 | 192 | 8 |
|      | B | 25  | 0   | 100 | 1 |
|      | C | 181 | 113 | 0   | 0 |
|      | D | 50  | 7   | 0   | 0 |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To |   |   |   |   |
|------|----|---|---|---|---|
|      | A  | B | C | D |   |
| From | A  | 0 | 0 | 1 | 0 |
|      | B  | 0 | 0 | 2 | 0 |
|      | C  | 3 | 0 | 0 | 0 |
|      | D  | 0 | 0 | 0 | 0 |

## Results

### Results Summary for whole modelled period

| Stream | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|--------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| B-ACD  | 0.27    | 9.63          | 0.4             | A       | 116                     | 173                           |
| A-BCD  | 0.02    | 5.18          | 0.0             | A       | 12                      | 18                            |
| A-B    |         |               |                 |         | 96                      | 143                           |
| A-C    |         |               |                 |         | 173                     | 260                           |
| D-ABC  | 0.09    | 5.82          | 0.1             | A       | 52                      | 78                            |
| C-ABD  | 0.27    | 7.43          | 0.5             | A       | 140                     | 211                           |
| C-D    |         |               |                 |         | 0                       | 0                             |
| C-A    |         |               |                 |         | 129                     | 194                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 95                    | 24                      | 551               | 0.172 | 94                  | 0.0               | 0.2             | 7.980     | A                             |
| A-BCD  | 9                     | 2                       | 705               | 0.013 | 9                   | 0.0               | 0.0             | 5.180     | A                             |
| A-B    | 79                    | 20                      |                   |       | 79                  |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 710               | 0.060 | 43                  | 0.0               | 0.1             | 5.397     | A                             |
| C-ABD  | 108                   | 27                      | 647               | 0.167 | 107                 | 0.0               | 0.2             | 6.698     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 114                   | 28                      |                   |       | 114                 |                   |                 |           |                               |

#### 17:00 - 17:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 113                   | 28                      | 538               | 0.211 | 113                 | 0.2               | 0.3             | 8.606     | A                             |
| A-BCD  | 11                    | 3                       | 725               | 0.016 | 11                  | 0.0               | 0.0             | 5.057     | A                             |
| A-B    | 94                    | 23                      |                   |       | 94                  |                   |                 |           |                               |
| A-C    | 170                   | 42                      |                   |       | 170                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 698               | 0.073 | 51                  | 0.1               | 0.1             | 5.566     | A                             |
| C-ABD  | 135                   | 34                      | 656               | 0.207 | 135                 | 0.2               | 0.3             | 6.966     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |

### 17:15 - 17:30

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 139                   | 35                      | 518               | 0.288 | 138                 | 0.3               | 0.4             | 9.813     | A                             |
| A-BCD  | 16                    | 4                       | 753               | 0.021 | 16                  | 0.0               | 0.0             | 4.892     | A                             |
| A-B    | 114                   | 29                      |                   |       | 114                 |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |
| D-ABC  | 83                    | 16                      | 681               | 0.092 | 83                  | 0.1               | 0.1             | 5.818     | A                             |
| C-ABD  | 178                   | 44                      | 668               | 0.266 | 177                 | 0.3               | 0.5             | 7.401     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 146                   | 36                      |                   |       | 146                 |                   |                 |           |                               |

### 17:30 - 17:45

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 139                   | 35                      | 518               | 0.288 | 139                 | 0.4               | 0.4             | 9.634     | A                             |
| A-BCD  | 16                    | 4                       | 753               | 0.021 | 16                  | 0.0               | 0.0             | 4.896     | A                             |
| A-B    | 114                   | 29                      |                   |       | 114                 |                   |                 |           |                               |
| A-C    | 207                   | 52                      |                   |       | 207                 |                   |                 |           |                               |
| D-ABC  | 83                    | 16                      | 681               | 0.092 | 83                  | 0.1               | 0.1             | 5.819     | A                             |
| C-ABD  | 178                   | 44                      | 668               | 0.266 | 178                 | 0.5               | 0.5             | 7.426     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 146                   | 36                      |                   |       | 146                 |                   |                 |           |                               |

### 17:45 - 18:00

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 113                   | 28                      | 538               | 0.211 | 114                 | 0.4               | 0.3             | 8.634     | A                             |
| A-BCD  | 11                    | 3                       | 725               | 0.016 | 11                  | 0.0               | 0.0             | 5.063     | A                             |
| A-B    | 94                    | 23                      |                   |       | 94                  |                   |                 |           |                               |
| A-C    | 170                   | 42                      |                   |       | 170                 |                   |                 |           |                               |
| D-ABC  | 51                    | 13                      | 698               | 0.073 | 51                  | 0.1               | 0.1             | 5.571     | A                             |
| C-ABD  | 136                   | 34                      | 656               | 0.207 | 136                 | 0.5               | 0.3             | 7.003     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 129                   | 32                      |                   |       | 129                 |                   |                 |           |                               |

### 18:00 - 18:15

| Stream | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|--------|-----------------------|-------------------------|-------------------|-------|---------------------|-------------------|-----------------|-----------|-------------------------------|
| B-ACD  | 95                    | 24                      | 551               | 0.172 | 95                  | 0.3               | 0.2             | 8.020     | A                             |
| A-BCD  | 9                     | 2                       | 705               | 0.013 | 9                   | 0.0               | 0.0             | 5.184     | A                             |
| A-B    | 79                    | 20                      |                   |       | 79                  |                   |                 |           |                               |
| A-C    | 143                   | 36                      |                   |       | 143                 |                   |                 |           |                               |
| D-ABC  | 43                    | 11                      | 709               | 0.060 | 43                  | 0.1               | 0.1             | 5.403     | A                             |
| C-ABD  | 108                   | 27                      | 647               | 0.167 | 108                 | 0.3               | 0.3             | 6.738     | A                             |
| C-D    | 0                     | 0                       |                   |       | 0                   |                   |                 |           |                               |
| C-A    | 113                   | 28                      |                   |       | 113                 |                   |                 |           |                               |