Established 1994

Suite 502, Level 5, 282 Victoria Avenue Chatswood NSW 2067 T (02) 9411 5660 | F (02) 9904 6622 E info@ttpa.com.au | ttpa.com.au



166 Epping Road, Lane Cove **Planning Proposal**

Traffic and Parking Impact Assessment

19102 Ref: Date: 21 August 2019 Issue: B

Table of Contents

| 1.0 | INTR | ODUCTION | 1 |
|-----|-------------------|--|----------------|
| 2.0 | PRO | POSED DEVELOPMENT | 2 |
| | 2.1 2.2 | Site, Context, and Existing Use Planning Proposal | 2 3 |
| 3.0 | ROA | D NETWORK AND TRAFFIC CONDITIONS | 5 |
| | 3.1 3.2 3.3 | Road Network Traffic Controls Traffic Conditions | 5 6 6 |
| 4.0 | PARI | KING | 10 |
| 5.0 | TRA | FIC | 14 |
| 6.0 | ACC | ESS, INTERNAL CIRCULATION AND SERVICING | 17 |
| | 6.1 6.2 6.3 | Access Internal Circulation Servicing | 17 17 17 |
| 7.0 | ΑСΤΙ | VE TRANSPORT PROVISIONS | 18 |
| 8.0 | CON | ICLUSION | 19 |

List of Figures

List of Appendices

| Figure 1 | Location | Appendix A | Planning Proposal Concept |
|----------|------------------------|------------|---------------------------|
| Figure 2 | Site | Appendix B | RMS SCATS Data |
| Figure 3 | Road Network | Appendix C | SIDRA Results |
| Figure 4 | Traffic Controls | Appendix D | Swept Path Analysis |
| Figure 5 | Existing Traffic Flows | | |

1.0 Introduction

This report has been prepared to accompany a Planning Proposal to Lane Cove Council for a mixed-use development involving residential apartments, retail and office elements on a site located at 166 Epping Road, Lane Cove West (Figure 1).

The Planning Proposal seeks to rezone the land to permit a development scheme with the following envisaged yield:

- 316 Residential Apartments/Tourist Accommodation
- 525m² Retail floorspace
- 6,311m² Commercial floorspace
- 507 parking spaces

The purpose of this report is to:

- describe the site, its context, and the Planning Proposal
- describe the road network serving the site, the prevailing traffic conditions and transport services in the area
- assess the adequacy of the proposed parking provision
- assess the potential traffic implications
- assess the suitability of the proposed vehicle access, internal circulation and servicing arrangements



2.0 Proposed Development

2.1 Site, Context, and Existing Use

The development site (Figure 2) being Lot 13 DP 807958 occupies an irregular shaped area of some 9,128m² which has frontage of some 65m to the western side of Epping Road.

The site is adjoined to the east by Epping Road, to the west by bushland and the Lane Cove River, to the north by the Ingredion Flour Mill, and to the south the Meriton mixed use towers which comprises some 380 residential apartments with associated ground level commercial uses. Further south are clusters of light commercial/industrial land uses generally bounded by bush land and the Lane Cove River. The Lane Cove West 'village' is situated some 2.5km to the east.

Vehicle access to the enclave which contains the site is provided by a left turn off Epping Road on the eastern side and a westbound egress lane merging with Epping Road to the west. See images reproduced in the following:



Ingress

Image source: Google

Egress



Image source: Google

The site is currently occupied by the Riverview Park Business Centre which comprises a total of 7,129m² GFA commercial floor space. The site has a total of 235 onsite carpark.

2.2 Planning Proposal

It is proposed to demolish the existing buildings and structures and excavate the site for basement carparking. The envisaged development outcome will comprise multiple tower blocks with an integrated basement carparking in the following envisaged make up and yield:

- 316 Residential Apartments/Tourist Accommodation
- 525m² Retail floorspace
- 6,311m² Commercial floorspace
- 507 parking spaces

Vehicle access provisions will comprise:

- an upgraded ingress on Epping Road located at the eastern side
- retention of the existing egress on Epping Road towards the west

Details of the proposed development scheme are provided on the plans prepared by ZONE Designworks which accompany the Planning Proposal and are reproduced in part in Appendix A.



3.0 Road Network and Traffic Conditions

3.1 Road Network

The road network which serves the development site (Figure 3) comprises:

- M2 Motorway State Road and arterial route connecting between the Warringah Freeway/Harbour Crossings and the M7 which runs parallel to Epping Road in tunnel between Mowbray Road West and the Pacific Highway
- Epping Road a State Road and arterial route which connects between Epping and Lane Cove
- Burns Bay Road/Centennial Avenue a State Road and sub-arterial route which connects between Gladesville Bridge and Epping
- Mowbray Road West a Regional Road and major collector route which connects between Epping Road and the Pacific Highway extending to the east as Mowbray Road
- Sam Johnson Way a minor collector route serving the Lane Cove West Industrial Area
- Delhi Road and Pittwater Road major collector routes which connect to Epping Road just to the west of Lane Cove River

Barriers to the road system are presented by Lane Cove River, the M2 Motorway Lane Cove Park. Epping Road in the vicinity of the site has 2 westbound lanes, BUS LANES in each direction and 1 east bound lane with a right turn lane for the U-Turn bay.

3.2 Traffic Controls

The existing traffic controls which have been applied to the road system in the vicinity of the site (Figure 4) include:

- the traffic control signals at the Epping Road/Mowbray Road West intersection.
- the traffic control signals at the Epping Road/Sam Johnson Way intersection.
- the 'U-Turn' facility on Epping Road at the eastern side of the Meriton site
- the BUS LANE and NO STOPPING restrictions along Epping Road
- the 70 KMPH speed restriction on Epping Road
- the shared cyclist/pedestrian pathway running along the southern side of Epping Road

3.3 Traffic Conditions

An indication of the surrounding road network traffic operations is provided by the RMS SCATS signal traffic volume data at the 'upstream' intersection of Epping Road and Mowbray Road west and 'downstream' intersection of Epping Road and Sam Johnson Way. Those survey results are reproduced in Appendix B and summarised in Figure 5. The AM and PM network peak operational performances of these intersections are assessed using traffic modelling program SIDRA. The results of a SIDRA analysis of the intersections, which indicate a satisfactory outcome under existing traffic demand, are provided in Appendix C and summarised in the following while the criteria for interpreting SIDRA output is reproduced overleaf.

| | AM | | PM | |
|--------------------|-----|-------|-----|-------|
| | LOS | AVD | LOS | AVD |
| Epping/Mowbray | С | 30.0s | В | 21.4s |
| Epping/Sam Johnson | D | 43.9s | С | 36.8s |

Criteria for Interpreting Results of SIDRA Analysis

1. Level of Service (LOS)

| LOS | Traffic Signals and Roundabouts | Give Way and Stop Signs |
|-----|---|--|
| 'A' | Good | Good |
| 'B' | Good with acceptable delays and spare capacity | Acceptable delays and spare capacity |
| 'C' | Satisfactory | Satisfactory but accident study required |
| ʻD' | Operating near capacity | Near capacity and Accident Study required |
| 'E' | At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode | At capacity and requires other control mode |
| 'F' | Unsatisfactory and requires additional capacity | Unsatisfactory and requires other control mode |

2. Average Vehicle Delay (AVD)

The AVD provides a measure of the operational performance of an intersection as indicated on the table below, which relates AVD to LOS. The AVD's listed in the table should be taken as a guide only as longer delays could be tolerated in some locations (ie inner city conditions) and on some roads (ie minor side street intersecting with a major arterial route).

| Level of Service | Average Delay per Vehicle (secs/veh) | Traffic Signals, Roundabouts | Give Way and Stop Signs |
|---------------------|---|---|---|
| А | Less than 14 | Good operation | Good operation |
| В | 15 to 28 | Good with acceptable delays and spare capacity | Acceptable delays and spare capacity |
| С | 29 to 42 | Satisfactory | Satisfactory but accident study required |
| D | 43 to 56 | Operating near capacity | Near capacity and accident study required |
| E | 57 to 70 | At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode | At capacity and requires other control mode |

3. Degree of Saturation (DS)

The DS is another measure of the operational performance of individual intersections.

For intersections controlled by **traffic signals**¹ both queue length and delay increase rapidly as DS approaches 1, and it is usual to attempt to keep DS to less than 0.9. Values of DS in the order of 0.7 generally represent satisfactory intersection operation. When DS exceeds 0.9 queues can be anticipated. For intersections controlled by a **roundabout or GIVE WAY or STOP signs**, satisfactory intersection operation is indicated by a DS of 0.8 or less.

¹ the values of DS for intersections under traffic signal control are only valid for cycle length of 120 secs







3.4 Transport Services

The site is ideally located in relation to high frequency bus services operating along Epping Road (80m east of the site and 130m to the north on the Westbound services and 180m to the north on the eastbound services as indicated in the following).



Source: Google Maps

An indication of the frequency of the local bus services which are facilitated by the BUS LANES extending to from the Harbour crossing is provided in the following:

| Route | AM | РМ | Off Peak | Sat | Sun/Public Holiday |
|-------|----|----|----------|-----|-----------------------|
| 288 | 8 | 10 | 15 | 15 | 60 |
| 286 | 15 | 30 | - | - | - |
| 287 | 15 | 30 | - | - | - |
| 290 | 15 | 20 | 60 | 60 | 60 |
| 294 | 7 | - | - | - | - |

A desktop review of public transit travel time using Google Maps indicate a 29-minute journey between the site and the Sydney CBD (Martin Place) and such a bus service is offered on a 1 service per 15 minutes basis. This is indicated in the following:



Source: Google Travel Planner

The multiple bus services offered on the Epping Road Transitway in fact result in a higher frequency than a typical train route (i.e. 15 minutes). As such, the transport 'accessibility' of this site could be deemed as more superior than that of a railway station. On this basis, it is assessed that the site is suitably located in relation to public transport services.

4.0 Parking

Lane Cove Council's DCP 2016 (Part R) specifies the following carparking criteria:

Residential (Shop Top Housing)

| 1 Bedroom | - | 1 space per unit |
|-----------|---|------------------|
| 2 Bedroom | - | 1 space per unit |
| 3 Bedroom | - | 1 space per unit |
| Adaptable | - | 1 space per unit |

Serviced Apartment

Guest parking

- 1 space per 4 apartments
- 1 disabled space per 10 car spaces

Staff parking

1 space per 2 staff

Retail/Commercial

| Shops | - | 1 space per 40m ² GFA |
|------------|---|----------------------------------|
| Commercial | - | 1 space per 60m ² GFA |

Ancillary Elements

| Visitors | - | 1 space per 4 units |
|----------|---|---------------------|
| Loading | - | 1 bay per 100 units |
| Car Wash | - | 1 bay per 50 units |

Application of this criteria to the proposed development would indicate the following:

| 284 units (excl. adaptable units) | 284 spaces |
|-----------------------------------|------------|
| 32 x Adaptable units | 32 spaces |
| Visitors (316 units in total) | 79 spaces |
| Retail 525m ² | 13 spaces |

| Commercial 6,311m ² | 105 spaces |
|--------------------------------|------------|
| Car Wash | 6 spaces |
| Total: | 519 spaces |
| Loading | |
| Loading | 3 bays |

It is advised that the residential component may incorporate some element of serviced apartments. Because the service apartment parking requirement is only some 25% of that for residential, the assessment will be based on residential only in order to provide a conservative basis.

The DCP states (in Cl 2.2) that its parking criteria are neither maximum nor minimum, and that a lower parking rate would be considered under specific circumstances as follows (two circumstances which the site reasonably satisfy):

- that there are realistic transport alternatives to private car ownership in the locality

As comprehensively discussed in Section 3.5 of this report, the site is advantaged by a comprehensive, high frequency and high capacity transport services along the Epping Road arterial corridor.

that there are exceptional site constraints which limit available onsite parking
 It is advised that the proposed basement is within 3m of the mean sea level of

0.000m and it is not feasible to provide an additional basement to accommodate additional carparking.

Furthermore, the RMS Guide to Traffic Generating Developments specify reduced rates for visitors' parking of between 1 space per 5 units to 1 space per 7 units (in lieu of 1 space per 4 units which the DCP is based upon) where viable public transport is in close proximity of the site. The suitability of the site with respect to access to transport services has been established in the preceding paragraph as well as in Section 3.5 of this report.

In addition to the above, other necessary and relevant consideration in car parking planning in terms of supply and demand in mixed use development of this nature include the following:

- the retail use will essentially only be largely convenience-driven trade by the local residents.

- the commercial visitors' parking spaces will not be used in the weekends when the demand for residential visitors' spaces is highest, thus presenting some level of 'cross-utilisation' between the two types of parking spaces in the carpark.

- the residential units and the vast commercial elements will have some level of overlap wherein employees of the offices have tendencies (for reasons of convenience and economy) lease/purchase the residential apartments within the same 'precinct'.

As such, having taken into consideration the above, applying the more realistic visitor's parking rate of 1 space per 7 units would indicate a reduced quantum for visitor's parking spaces of 45 spaces, thus an overall reduced car parking requirement of 483 spaces.

Notwithstanding, it is proposed to provide a total of 507 car parking spaces plus 3 loading bays to serve the needs of the development. These will be composed of:

| 344 spaces | Residential |
|------------|--|
| 105 spaces | Commercial |
| 13 spaces | Retail |
| 45 spaces | Visitors (including 6 fitted for car wash purpose) |
| 3 spaces | Loading Bay |

On balance, the assessment has established that the proposed parking provision is suitable in that it has regard for and is consistent with the DCP's as well as the RMS' recommendations, the site's public transport accessibility, and the complimentary

uses envisaged of the site.

5.0 Traffic

The traffic implications resulting from the proposal will essentially be due to the net additional traffic movements generated by the new uses over that of the existing commercial uses on the site.

The RMS Guidelines to Traffic Generating Developments specify a peak traffic generation rate for commercial/retail uses of 2 vtph per 100m² GFA. On this basis, the existing commercial floor area of 7,129m² would indicate a peak traffic generation outcome of some 143 vtph.

A guide to the potential traffic generation of the proposed residential apartments is provided by the recently released RMS Circular TDT 2013-04. The criteria contained in this RMS publication (Sydney Average) is 0.19 vtph per apartment in the AM peak and 0.15 vtph in the PM peak (while it is noted that the site is not situated within 800m of a 'railway station', up to 25% of the sites surveyed by RMS for this study were not also serviced by heavy rail). Notwithstanding, the comparability and to some extent the superiority of the comprehensive bus services offered by the Epping Road Transitway over a standard railway station have been discussed comprehensively in Section 3.5 of this report. The suitability of this reduced rate is further substantiated by the constrained parking provision for shop top housing as applicable in the context of this envisaged development.

Similarly, while the RMS Guide does not specify a traffic generation rate for serviced apartments, peak traffic movements associated with tourist accommodation are constrained by the standard check in and check out times i.e. arrivals at 2pm and departures at 10am. The typical movements are largely bounded by these allocated times, thus a significant proportion of the set down and pick up movements will occur outside of the commuter peak periods. For this reason, the assessment of traffic will be based on residential development only in this regard in order to provide a more conservative outcome.

On this basis, the peak traffic generation of the existing and proposed uses on the site are summarised in the following:

| | Peak Traffic Generation (vtph) | | | | | | |
|-----------------------------------|--------------------------------|-----------|--|--|--|--|--|
| Proposed | AM | PM | | | | | |
| Residential (316 units) | 60 vtph | 47 vtph | | | | | |
| Retail (525m ²) | 11 vtph | 11 vtph | | | | | |
| Commercial (6,311m ²) | 126 vtph | 126 vtph | | | | | |
| Less existing uses | -143 vtph | -143 vtph | | | | | |
| Net Additional Traffic | 54 vtph | 41 vtph | | | | | |

Access to the site will only be provided via a left turn in and left turn out arrangement connecting with the Epping Road westbound traffic lanes. The RMS data indicates the following AM and PM peak westbound traffic flows on Epping Road:

| AM | 1,251 vph |
|----|-----------|
| PM | 1,960 vph |

The additional traffic activities resulting from the envisaged uses represent minor proportions of some 4.3% and 2.1% of the Epping Road westbound traffic flows during the AM and PM peak hours respectively. The assessment has established that the additional traffic generation of this order of magnitude is not significant in the context of the Epping Road arterial function.

Nevertheless, to improve the traffic flow at Epping Road, a suitably dimensioned left turn storage lane ('deceleration lane') could be provided to accommodate ingress. Details of the potential deceleration lane treatment, which will be subject to detailed design in a latter stage of this proposal, are indicated in the following diagram.



Based on the above, it is assessed that the traffic activities resulting from the Planning Proposal will have no adverse implications on the existing Epping Road operations.

6.0 Access, Internal Circulation and Servicing

6.1 Access

A two-way driveway (minimum width of 6m) will be provided in the existing driveway location to accommodate primary access movements between the carpark and the access road way.

The existing driveway is suitably located with respect to sight lines and the proposed access intends to retain these attributes. As such, it is envisaged that the proposed driveway will have no undue difficulty (particularly in relation to site constraints) in achieving and satisfying the AS2890.1 design criteria for a driveway of this nature.

6.2 Internal Circulation

The design of the carparking areas and their access connections, which will be subject to detailed design at the latter stage of this proposal, will comply with the AS 2890.1 criteria with suitable and appropriate ramps, aisles, bays etc.

A set down and pick up area will also be provided on the ground level and it is envisaged that this facility will serve the access requirement of a larger passenger vehicle e.g. a 15-seat van i.e. in the event that serviced apartments are provided in this development.

6.3 Servicing

A total of 3 loading docks capable of accommodating up to an 8.8m long MRV each will be provided in the Basement 1 level. Refuse will be removed from the Garbage Room by a truck standing in the loading dock while service personnel etc will also be able to use the retail/visitor parking spaces.

Details of the turning path assessment for the design vehicles indicating satisfactory provision for internal circulation are shown on the diagrams in Appendix D.

7.0 Active Transport Provisions

Pedestrians

The proposed development will facilitate pedestrian amenity by:

- the proposed 'canopy walk' which connects directly to the Epping Road Shared Path towards the west (i.e. nearest to the local bus stops)
- the proposed 'canopy walk' which connects to the Lane Cove River walk paths

Cyclists

Provision will be made on-site for bicycle storage/parking and this will have easy direct access to the Regional Bicycle Route (along Epping Road) and its connections to the Metropolitan bicycle network.

8.0 Conclusion

This report documents an assessment of the potential traffic, transport and parking implications of a Planning Proposal which would eventuate with a residential apartment based mixed use development on 166 Epping Road at Lane Cove West.

The assessment has established that:

- the traffic generated by the proposed development will only be some 2-4% of the existing Epping Road traffic flows and will not have any adverse impact on the local road network operation
- the actual traffic generation outcome will be less as a proportion of the residential units will be developed as serviced apartments (i.e. 25% less parking and less commuter peak traffic movements)
- the proposed parking provision will be adequate for the needs of the development and has regard for the RMS and Council's planning controls
- the vehicle access, parking and servicing provisions have been designed in accordance with all relevant planning controls and standards
- the provision for a deceleration lane at the Epping Road access will provide a more superior traffic operations outcome (in terms of network efficiency) over the existing arrangement
- the provision of pedestrian connectivity between the site and Epping Road
 Shared Path is appropriate and consistent with Council's planning objectives
- the provision of active transport elements will be incorporated into the development to encourage the uptake of these mode thus minimizing reliance on private vehicle ownership

Appendix A

Concept Plans







PLANT ROOM: RESIDENTIAL STORAGE:

CPS PROVIDED PER LEVEL TOTAL CPS PROVIDED ON LEVELS 3-5 TOTAL CPS PROVIDED FOR DEVELOPMENT TOTAL CPS REQUIRED FOR DEVELOPMENT

343m²

2

100m² 206m² 111 BAYS 333 BAYS 512 BAYS 507 BAYS

SCALE: 1:500 @ A3

05 INDICATIVE DESIGN

5.2 CAR PARK BASEMENT LEVELS 3-5 PLAN



166 EPPING ROAD | LANE COVE WEST | MIXED USE DEVELOPMENT 49







50 CONCEPT DESIGN FOR PLANNING PROPOSAL







PLANT ROOM: RESIDENTIAL STORAGE:

CPS PROVIDED ON LEVEL 1: TOTAL CPS PROVIDED FOR DEVELOPMENT: TOTAL CPS REQUIRED FOR DEVELOPMENT: 100m² 206m² 80 BAYS 512 BAYS 507 BAYS

SCALE: 1:500 @ A3

3 4 m

05 INDICATIVE DESIGN

5.4 CAR PARK BASEMENT LEVEL 1 PLAN



166 EPPING ROAD | LANE COVE WEST | MIXED USE DEVELOPMENT 51



ABOVE GROUND LANDSCAPING:

PLAZA FRONT RETAIL: CORRIDOR/ LOBBY:

. 525m²

575m²

305m²

SCALE: 1:500 @ A3

0 0.5

4 m

5.5 COMMERCIAL GROUND LEVEL PLAN



Appendix **B**

RMS Traffic Data







| Thursday, 01 Au | gus | t 20 | 19 | | | | | | | | | | | | | |
|-------------------|--------|--------|----------|-----------------|---------|---------------|------------------|-----------|-----|-----------------|----------------------|-------------------------|---------------|------------------|------|---|
| Approach | de | tect | or(s |) | | | | | | | | | | | | |
| Approach 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | |
| | | | | | | | | | | | | | | | | |
| 00:15 Approach | 1 | 0 | 4 | 19 | 2 | 62 | 17 | 1 | 3 | 3 | 6 | 1 | 8 | 126 | | |
| 00:30 Approach | 1 | 0 | 4 | 15 | 2 | 45 | 12 | 0 | 0 | 5 | 9 | 0 | 4 | 96 | | |
| 00:45 Approach | 1 | 0 | 4 | 9 | 0 | 56 | 13 | 0 | 0 | 1 | 5 | 0 | 7 | 95 | | |
| 01:00 Approach | 1 | 0 | 4 | 15 | 1 | 23 | 10 | 0 | 0 | 2 | 3 | 0 | 6 | 64 | | |
| 01:15 Approach | 1 | 0 | 2 | 15 | 3 | 31 | 8 | 0 | 0 | 4 | 5 | 0 | 4 | 72 | | |
| 01:30 Approach | 1 | 0 | 2 | 15 | 1 | 23 | 1 | 0 | 1 | 4 | 3 | 0 | 2 | 52 | | |
| 01:45 Approach | 1 | 0 | 3 | 13 | 1 | 25 | 7 | 0 | 0 | 2 | 2 | 0 | 2 | 55 | | |
| 02:00 Approach | 1 | 0 | 4 | 13 | 0 | 24 | 6 | 1 | 1 | 1 | 4 | 0 | 1 | 55 | | |
| 02:15 Approach | 1 | 0 | 1 | 12 | 1 | 17 | 3 | 1 | 0 | 3 | 2 | 0 | 5 | 45 | | |
| 02:30 Approach | 1 | 0 | 1 | 13 | 0 | 19 | 3 | 0 | 2 | 1 | 3 | 0 | 2 | 44 | | |
| 02:45 Approach | 1 | 0 | 2 | 8 | 0 | 29 | 7 | 0 | 0 | 0 | 2 | 0 | 3 | 51 | | |
| 03:00 Approach | 1 | 0 | 2 | 14 | 0 | 21 | 4 | 0 | 1 | 0 | 2 | 0 | 1 | 45 | | |
| 03:15 Approach | 1 | 0 | 7 | 22 | 2 | 17 | 5 | 0 | 1 | 1 | 1 | 0 | 1 | 57 | | |
| 03:30 Approach | 1 | 0 | 1 | 14 | 0 | 12 | 1 | 0 | 1 | 2 | 1 | 0 | 2 | 34 | | |
| 03:45 Approach | 1 | 0 | 4 | 21 | 0 | 16 | 5 | 1 | 3 | 1 | 0 | 0 | 4 | 55 | | |
| 04:00 Approach | 1 | 0 | 8 | 23 | 1 | 16 | 6 | 0 | 0 | 1 | 2 | 0 | 6 | 63 | | |
| 04:15 Approach | 1 | 0 | 3 | 22 | 0 | 17 | 4 | 0 | 4 | 3 | 1 | 0 | 8 | 62 | | |
| 04:30 Approach | 1 | 1 | 8 | 39 | 0 | 26 | 9 | 0 | 1 | 4 | 5 | 0 | 12 | 105 | | |
| 04:45 Approach | 1 | 0 | 20 | 72 | 2 | 23 | 12 | 1 | 2 | 3 | 2 | 2 | 12 | 151 | | |
| 05:00 Approach | 1 | 0 | 13 | 88 | 1 | 16 | 9 | 0 | 3 | 5 | 4 | 0 | 21 | 160 | | |
| 05:15 Approach | 1 | 4 | 28 | 115 | 4 | 31 | 14 | 4 2 | 2 2 | 2 9 |) 5 | 3 | 31 | 24 | 8 | |
| 05:30 Approach | 1 | 1 | 49 | 130 | 2 | 2 47 | 7 3(| 0 1 | | 2 1 | 1 ′ | 7 5 | i 48 | 333 | 3 | |
| 05:45 Approach | 1 | 0 | 68 | 194 | 6 | 5 61 | 5 | 1 4 | 5 (| 5 10 | 0 1 | 3 | 8 4 | 2 4 | 64 | |
| 06:00 Approach | 1 | 4 | 93 | 218 | 5 | 5 79 |) 70 | 6 2 | | 1 1 | 92 | 1 | 56 | 1 5 | 87 | |
| 06:15 Approach | 1 | 10 | 104 | -21 | 2 | 5 9 | 9 0 | 95 | 5 | 5 | 20^{-1} | 25 | 5 | 69 | 654 | |
| 06:30 Approach | 1 | 9 | 146 | 234 | - 51 | 0 1 | 17 | 114 | 5 | 6 | 15 | 24 | 4 | 115 | 800 | |
| 06:45 Approach | 1 | 10 | 174 | $\frac{20}{20}$ | 7 | 7 1 | 17 | 119 | 8 | 11 | 26 | 38 | 1 | 131 | 849 |) |
| 07:00 Approach | 1 | 17 | 167 | 19 | 2 | 8 1 | 20 | 110 | 18 | 15 | 38 | 8 4 | 1 1 | 151 | 878 | 8 |
| 07:15 Approach | 1 | 7 | 135 | 2.58 | λ R | 5 13 | $\frac{1}{32}$ 1 | 64 | 12 | 6 | 31 | 40 | 3 | 123 | 916 | 5 |
| 07:30 Approach | 1 | 9 | 129 | 204 | 5 1 | 0 1 | 57 ⁻ | 164 | 16 | 13 | 5 | 5 6 | ້າ | 2153 | 98 | 0 |
| 07:45 Approach | 1 | 8 | 157 | 197 | 7 | 8 13 | 88 1 | 58 | 24 | 22 | 57 | , 77 | 2 | 157 | 100 | 5 |
| 08:00 Approach | 1 | 10 | 128 | 19 | 4 | 8 1 | 35 | 166 | 25 | 14 | . 7 | 1 8 | 8 1 | 148 | 988 | 8 |
| 08:15 Approach | 1 | 12 | 106 | 521 | 3 | 10 1 | 54 | 174 | 28 | R 1 | 8 5 | 97 | 4 4 | 4 13 | 9 99 | 1 |
| 08:30 Approach | 1 | 12 | 127 | 21 | 8 | 91 | 38 | 175 | 37 | 22 | 5 | 7 8' | קיק | 136 | 102 | 1 |
| 08:45 Approach | 1 | 11 | 132 | 18 | 7 | 20^{-1} | 44 | 154 | 4 | $1 \frac{2}{2}$ | 25 | 98 | $\frac{1}{2}$ | 2 11 | 8 97 | 2 |
| 09:00 Approach | 1 | 10 | 143 | 20 | 2 | 14 1 | 42 | 180 | 34 | 1 7 | 5 | 1 70 | 0^{-2} | 2 112 | 96 | ĩ |
| 09:15 Approach | 1 | 10 | 115 | 18 | 5 | 91 | 58 | 188 | 46 | 24 | 4 | 8 74 | 4 0 |) 101 | 958 | 8 |
| 09:30 Approach | 1 | 5 | 115 | 202 | , | 5 17 | 71 1 | 63 | 23 | 9 | 43 | 59 | 4 | 103 | 902 | 5 |
| 09:45 Approach | 1 | 8 | 120 | 194 | 5 1 | 4 1 | 60 | 143 | 10 | 13 | 5 | 2 61 | 0 1 | 100 | 876 | 6 |
| 10:00 Approach | 1 | 7 | 120 | 23 | 7 1 | 21 | 67 ⁻ | 149 | 16 | 11 | 34 | 2 0. 4 5 4 | 5 1 | 90 | 911 | 5 |
| 10.15 Approach | 1 | 2 | 79 | 188 | 1 | 0 12 | 17 1 | 31 | 14 | 9 | 29 | Δ0 | 2 | 84 | 744 | |
| 10:30 Approach | 1 | 2 | 70 | 181 | 7 | 7 14 | r, 1 5 1' | 21 24 | 18 | 9 | 37 | Δ <u>1</u> | $\hat{2}$ | 72 | 712 | |
| 10:45 Approach | 1 1 | 1 | 60 | 177 | 1 | 1 17 | 5 12 75 1 | ∕_1-5 | 0 | 10 | 21 | 77 28 | ∠ ົ | / <u>~</u> 80 | 728 | |
| 11.00 Approach | 1 1 | 3 | 72 | 17/ | I Ç | 1 1/ 2 17 | 2 1' 2 1' | т.) 26 | 12 | 12 | 21 30 | | ∠ ∩ | 8/ | 7/1 | |
| 11.15 Approach | 1 1 | 2 | 70 70 | 178 | 1 | γ 1/. Δ 14 | 2 12 51 1 | 20 Δ6 | 12 | 2 Q | 27 | - 1 0 /11 | 1 | 60 | 7/1 | |
| 11.13 Approach | 1 1 | 1 | 61 | 170 | 1 | т I([16 | , i i 6 1' | -τυ 7Δ | 7 | 11 | $\frac{3}{2}$ | 71 26 | 2 | 67 | 67/ | |
| 11:45 Approach | 1 1 | т Д | 78 | 102 | 4 | 5 17 | 0 12 |) 2 | 12 | 1 I Q | ∠ + 3⊿ | <u>4</u> 2 | 2 | 86 | 757 | |
| 11. το περρισασιι | 1 | т | ,0 | 1/4 | - | / I / | v 1∡ | -) | 14 | 0 | 54 | -1.5 | 4 | 00 | 151 | |

| 12:00 Approach 1 | 4 | 59 169 6 165 142 11 7 36 36 1 71 707 |
|-------------------|----------|---|
| 12:15 Approach 1 | 4 | 68 171 2 144 119 14 10 29 38 4 75 678 |
| 12:30 Approach 1 | 3 | 58 156 6 172 146 14 7 34 50 4 55 705 |
| 12:45 Approach 1 | 0 | 85 171 11 175 169 16 10 38 42 5 77 799 |
| 13:00 Approach 1 | 5 | 69 183 10 160 148 21 8 40 46 3 59 752 |
| 13:15 Approach 1 | 2 | 66 181 6 154 132 13 9 33 39 4 79 718 |
| 13:30 Approach 1 | 4 | 94 166 11 173 152 12 11 44 49 2 74 792 |
| 13:45 Approach 1 | 1 | 67 182 8 147 133 12 12 42 45 5 70 724 |
| 14:00 Approach 1 | 5 | 82 206 11 193 161 15 7 44 57 3 74 858 |
| 14:15 Approach 1 | 7 | 81 176 10 228 237 15 12 42 50 3 82 943 |
| 14:30 Approach 1 | 6 | 79 192 10 209 185 17 8 50 58 2 104 920 |
| 14:45 Approach 1 | 5 | 80 163 12 212 206 8 10 36 40 4 78 854 |
| 15.00 Approach 1 | 7 | 73 181 7 211 202 19 10 41 62 3 104 920 |
| 15.15 Approach 1 | 2 | 106 188 15 228 197 16 13 40 57 1 94 957 |
| 15.30 Approach 1 | 4 | 90 196 10 244 248 30 8 46 55 2 82 1015 |
| 15:45 Approach 1 | 4 | 76 171 8 236 253 12 9 66 70 2 93 1000 |
| 16:00 Approach 1 | 4 | 97 190 11 221 229 17 17 54 71 3 114 1028 |
| 16.15 Approach 1 | 6 | 82 183 17 246 249 17 14 66 78 3 100 1061 |
| 16.30 Approach 1 | 8 | 133 196 18 240 250 17 17 53 67 3 106 1108 |
| 16:45 Approach 1 | 5 | 111 202 10 232 220 17 13 57 57 4 117 1045 |
| 17:00 Approach 1 | 9 | 114 195 12 252 232 25 20 54 67 1 121 1102 |
| 17:15 Approach 1 | 7 | 109 193 16 243 254 17 21 61 67 2 147 1137 |
| 17:30 Approach 1 | 10 | 126 136 20 242 246 19 20 64 75 5 145 1108 |
| 17:45 Approach 1 | 6 | 96 176 19 203 217 19 15 57 67 2 154 1031 |
| 18:00 Approach 1 | 10 | 107 180 30 210 243 25 16 69 72 3 140 1105 |
| 18.15 Approach 1 | 5 | 127 192 21 229 226 13 20 63 82 9 136 1123 |
| 18.30 Approach 1 | 5 | 93 198 15 217 207 9 7 54 58 2 122 987 |
| 18:45 Approach 1 | 3 | $126 \ 211 \ 21 \ 207 \ 7 \ 7 \ 57 \ 55 \ 64 \ 1 \ 117 \ 1017$ |
| 19:00 Approach 1 | <u>ј</u> | 77 164 13 204 200 15 11 49 57 1 95 890 |
| 19:15 Approach 1 | - 1 | 57 154 6 102 180 6 6 37 57 0 70 787 |
| 19:30 Approach 1 | - - | 63 1 <i>A</i> A 7 169 153 1 <i>A</i> 10 <i>A</i> 5 51 0 66 727 |
| 19:45 Approach 1 | 0 | 36 122 8 150 140 9 5 31 46 1 59 607 |
| 20:00 Approach 1 | 3 | 57 132 6 159 139 7 9 28 35 0 55 630 |
| 20:00 Approach 1 | 0 | <i>A</i> Q 12Q 5 139 122 6 2 25 36 1 50 573 |
| 20.15 Approach 1 | 2 | <i>49</i> 129 5 159 122 0 2 25 50 1 59 575 <i>AA</i> 107 15 1 <i>A</i> 2 120 12 7 20 <i>A</i> 2 0 <i>A</i> 7 567 |
| 20:30 Approach 1 | ∠ 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 20.45 Approach 1 | 2 | A0 124 2 130 05 7 10 21 A1 2 A6 520 |
| 21:15 Approach 1 | ∠ 1 | 40 124 2 130 95 7 10 21 41 2 40 520 50 130 5 123 80 6 8 24 47 1 47 531 |
| 21.15 Approach 1 | 1 2 | J0 130 5 125 87 0 8 24 47 1 47 551 40 126 4 122 77 5 4 20 42 0 57 500 |
| 21.30 Approach 1 | 2 0 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 21.43 Approach 1 | 1 | 45 80 1 155 106 4 1 55 55 0 41 455 21 74 8 120 00 6 11 26 41 0 48 484 |
| 22.00 Approach 1 | 1 | 28 71 0 148 112 2 7 10 21 0 25 454 |
| 22.13 Approach 1 | 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 22.30 Approach 1 | 1 2 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 22.43 Approach 1 | 2 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 23.00 Approach 1 | 1 | 25 41 5 85 04 4 5 1/ 22 0 22 285 15 51 1 69 41 1 1 12 22 0 12 229 |
| 23.13 Approach 1 | ∠ 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 23.30 Approach 1 | 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 23.43 Approach 1 | 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 24.00 Approach 1 | 1 | 13 27 2 02 24 0 2 3 / 0 10 133 |
| Approach 1 AM pea | ak | 4021 07:40 - 08:40 PM peak 4412 16:25 - 17:25 Daily Total 59207 |

TCS 2819

LANE COVE WEST 19 STL St

SS=49

4 PHASES





| Approachdetector(s)Approach1123456789101100:15Approach149800415321248800:45Approach15870011031248501:00Approach124311119450015901:15Approach123100115440004801:45Approach125400014201103702:30Approach1254111101304702:45Approach12641111011015103:00Approach11841111011005203:30Approach11841111015012703:00Approach118400018220114404:00Approach118401110015012705:00 </th <th>Thursday, 01 Au</th> <th>gu</th> <th>st 20</th> <th>19</th> <th></th> | Thursday, 01 Au | gu | st 20 | 19 | | | | | | | | | | | |
|---|-----------------|----|----------------|---------------|--------|--------|-------------|------------|---------------|---------------|--------|-------------|--------|----------|--------------|
| Approach 1 1 2 3 4 5 6 7 8 9 10 11 00:15 Approach 1 62 10 0 0 2 21 4 1 1 2 0 103 00:30 Approach 1 58 7 0 0 1 10 3 1 0 1 4 5 0 0 1 59 01:15 Approach 1 23 1 0 0 1 15 4 4 0 0 0 48 01:15 Approach 1 25 1 1 0 1 1 3 0 47 02:10 Approach 1 25 1 1 0 11 1 3 0 1 3 47 02:15 Approach 1 18 1 1 1 10 1 1 0 1 51 02:04 Approach 1 18 | Approach | d | etecto | or(s) | ••• | | | | | | | | | | |
| 00:15 Approach 1 62 10 0 0 2 21 4 1 1 2 0 103 00:30 Approach 1 49 8 0 0 4 15 3 2 1 2 4 88 00:45 Approach 1 38 7 0 0 1 10 3 1 0 1 4 85 01:00 Approach 1 24 3 1 1 1 19 4 5 0 0 1 59 01:15 Approach 1 23 1 0 0 1 15 4 4 0 0 0 3 4 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 0 48 01:45 Approach 1 23 1 0 0 0 1 15 1 1 0 1 1 54 02:00 Approach 1 25 4 0 0 0 1 3 1 0 1 3 0 47 02:15 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:30 Approach 1 23 2 1 1 0 0 11 2 2 1 1 3 47 02:30 Approach 1 23 2 1 1 0 0 11 2 2 1 1 3 47 02:34 Approach 1 23 2 1 1 0 11 0 2 4 1 0 1 51 03:00 Approach 1 23 2 1 1 0 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 1 1 0 2 0 3 1 3 03:35 Approach 1 18 4 1 1 1 1 0 16 1 3 0 3 1 3 03:36 Approach 1 18 4 1 1 1 4 0 16 1 3 0 3 1 3 03:36 Approach 1 18 4 0 0 0 18 2 2 0 1 1 4 44 04:00 Approach 1 20 3 3 3 2 2 8 3 0 3 5 70 04:15 Approach 1 28 6 3 3 3 3 8 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 17 6 4 4 4 74 4 2 1 2 62 144 05:15 Approach 1 17 6 4 4 4 74 4 2 1 2 62 0 419 06:00 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 66 15 15 9 278 8 38 10 5 45 2 689 06:45 Approach 1 123 66 15 15 9 278 8 10 3 68 6 750 07:15 Approach 1 123 66 15 15 9 278 8 10 3 68 6 750 07:15 Approach 1 123 66 15 15 9 278 8 29 5 3 35 1 3 12 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 750 07:15 Approach 1 143 143 35 43 15 269 53 13 12 68 6 750 07:15 Approach 1 143 143 35 43 15 269 53 13 12 68 6 750 07:15 Approach 1 143 143 35 43 15 269 53 13 12 68 750 07:15 Approach 1 143 143 35 43 15 269 53 13 12 68 750 07:15 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 157 134 43 821 164 102 14 21 102 13 820 08:15 Approach 1 157 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 157 134 25 34 13 187 82 22 16 76 77 733 10:00 Approach 1 152 | Approach 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | |
| 00:15 Approach 1 62 10 0 0 2 21 4 1 1 2 0 103 00:30 Approach 1 49 8 0 0 4 15 3 2 1 2 4 88 00:45 Approach 1 24 3 1 1 1 10 3 1 0 1 4 85 01:00 Approach 1 23 1 0 0 1 15 4 4 0 0 0 4 01:15 Approach 1 23 1 0 0 1 15 4 4 0 0 0 4 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 4 01:45 Approach 1 23 1 0 0 1 15 1 1 0 1 3 0 47 02:00 Approach 1 25 4 0 0 0 14 2 0 1 1 0 37 02:00 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:01 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:02 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:03 Approach 1 26 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 26 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 16 1 3 0 3 1 38 03:04 Approach 1 18 4 1 1 1 1 0 16 1 3 0 3 1 38 03:45 Approach 1 16 4 0 0 0 1 8 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 7 7 2 3 26 3 197 04:15 Approach 1 20 3 3 3 38 1 2 2 4 1 91 04:45 Approach 1 20 2 8 61 4 3 1 1 5 0 127 05:00 Approach 1 17 6 4 4 4 74 4 2 1 26 2 144 05:15 Approach 1 17 6 4 4 4 74 4 2 1 26 0 127 05:00 Approach 1 17 6 4 4 4 74 4 2 1 26 0 49 06:04 Approach 1 20 3 7 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:05 Approach 1 16 6 1 33 43 15 269 53 13 5 581 06:30 Approach 1 16 13 43 33 43 15 269 53 13 12 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 750 07:15 Approach 1 163 61 39 15 225 77 8 11 70 4 782 07:30 Approach 1 164 143 143 33 43 15 269 53 13 12 2 8 6 78 07:30 Approach 1 164 143 143 33 43 15 269 53 13 12 2 8 6 78 07:30 Approach 1 164 143 143 33 43 15 269 53 13 12 2 8 6 708 07:45 Approach 1 164 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 164 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 164 143 143 33 43 15 209 53 13 2 25 58 0 24 921 09:30 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 00:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 00:0 | | | | | | | | | | | | | | | |
| 00:30 Approach 1 49 8 0 0 4 15 3 2 1 2 4 88 00:45 Approach 1 58 7 0 0 1 10 3 1 0 1 4 85 01:00 Approach 1 24 3 1 1 1 9 4 5 0 0 3 1 61 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 4 01:15 Approach 1 23 1 0 0 1 15 4 4 0 0 0 4 01:15 Approach 1 23 5 1 1 0 15 1 1 0 1 1 5 20:00 Approach 1 23 2 1 1 0 11 2 0 1 1 0 3 02:00 Approach 1 23 2 1 1 0 11 2 0 1 1 0 3 02:01 Approach 1 23 2 1 1 0 0 1 1 2 0 1 1 0 3 02:03 Approach 1 23 2 1 1 0 0 1 1 2 0 1 1 0 3 02:03 Approach 1 23 2 1 1 0 0 11 2 0 1 1 0 3 02:04 Approach 1 23 2 1 1 0 0 11 2 0 1 1 0 3 03:00 Approach 1 18 4 1 1 1 1 0 2 4 1 0 1 5 03:00 Approach 1 18 4 1 1 1 1 0 2 0 3 03:00 Approach 1 18 4 1 1 1 0 16 1 3 0 3 1 3 03:00 Approach 1 18 4 1 1 1 1 0 0 1 1 0 0 52 03:03 Approach 1 18 4 1 1 1 0 16 1 3 0 3 1 3 03:04 Approach 1 11 1 1 1 1 0 16 1 3 0 3 1 3 03:05 Approach 1 11 4 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 1 19 3 0 1 5 0 49 04:30 Approach 1 20 3 3 3 2 2 8 3 0 0 3 5 70 04:15 Approach 1 20 3 3 3 3 2 2 8 3 0 1 3 1 5 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 9 2 19 31 3 54 1 499 06:04 Approach 1 55 20 7 7 5 5 130 8 1 0 29 1 263 05:45 Approach 1 6 8 47 12 10 10 195 19 4 2 52 0 419 06:05 Approach 1 6 8 47 12 10 10 195 19 4 2 52 0 419 06:06 Approach 1 15 103 17 24 8 308 41 4 6 51 7 698 07:00 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 145 103 24 32 11 286 62 10 3 68 6 798 07:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 154 141 31 46 14 210 98 14 8 91 13 820 08:05 Approach 1 154 141 31 46 13 147 32 25 57 8 01 40 4 19 861 09:15 Approach 1 154 144 39 70 15 164 102 14 21 102 13 829 09:04 Approach 1 154 144 31 43 821 164 102 14 21 102 12 95 18 865 08:45 Approach 1 154 144 39 70 15 164 102 14 21 102 13 829 09:00 Approach 1 154 144 31 31 47 82 22 16 76 72 771 09:45 Approach 1 154 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 154 144 39 70 15 164 | 00:15 Approach | 1 | 62 | 10 | 0 | 0 | 2 | 2 | 1 4 | 1 | 1 | 2 | 0 | 103 | |
| 00:45 Approach 1 58 7 0 0 1 10 3 1 0 1 4 85 01:00 Approach 1 24 3 1 1 1 19 4 5 0 0 1 59 01:15 Approach 1 23 6 2 2 0 11 3 0 0 3 1 61 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 0 48 01:45 Approach 1 28 5 1 1 0 15 1 1 0 1 3 0 47 02:15 Approach 1 28 2 1 0 1 0 14 2 0 1 1 0 37 02:30 Approach 1 23 2 1 0 0 0 14 2 0 1 1 0 37 02:30 Approach 1 23 2 1 0 10 1 2 2 1 1 3 47 02:45 Approach 1 26 4 1 1 1 1 0 1 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 0 1 1 0 2 0 39 03:15 Approach 1 16 4 0 0 0 3 12 1 3 1 0 0 52 03:30 Approach 1 16 4 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 28 6 3 3 3 38 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 6 1 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 6 1 4 3 1 15 0 127 05:00 Approach 1 31 11 1 1 1 0 105 19 4 2 52 0 419 04:45 Approach 1 31 11 1 1 1 0 102 7 2 3 26 3 197 05:30 Approach 1 31 11 1 1 1 0 105 19 4 2 52 0 419 06:15 Approach 1 31 11 1 1 1 0 105 19 4 2 52 0 419 06:00 Approach 1 33 47 19 20 9 219 31 3 354 1 499 06:15 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 16 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 16 15 15 9 278 29 5 3 3 5 3 581 06:30 Approach 1 123 17 24 8 308 41 4 6 51 7 688 07:00 Approach 1 129 103 17 24 8 308 41 4 6 51 7 689 07:00 Approach 1 129 103 17 24 8 308 41 4 6 51 7 689 07:03 Approach 1 126 104 29 29 13 28 38 10 5 45 2 689 07:04 Approach 1 126 104 29 29 13 28 38 10 5 45 2 689 07:05 Approach 1 126 104 29 29 13 28 38 10 5 45 2 689 07:06 Approach 1 127 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 157 134 43 33 43 15 269 53 13 12 26 8 6 798 07:03 Approach 1 164 143 13 46 14 210 98 14 8 91 13 820 08:15 Approach 1 157 134 43 33 43 15 225 77 8 11 70 4 782 07:45 Approach 1 157 134 43 33 43 15 225 77 8 11 70 4 782 07:45 Approach 1 157 134 43 33 43 15 205 133 25 25 80 24 921 09:30 Approach 1 157 134 43 33 43 15 205 133 25 25 80 24 921 09:30 Approach 1 157 134 43 37 48 17 32 21 6 76 7771 09:45 Approach 1 157 134 42 8 11 210 69 21 15 52 20 733 10:30 Approach 1 157 134 | 00:30 Approach | 1 | 49 | 8 | 0 | 0 | 4 | 15 | 3 | 2 | 1 | 2 | 4 | 88 | |
| 01:00 Approach 1 24 3 1 1 1 1 9 4 5 0 0 1 59 01:15 Approach 1 33 6 2 2 0 11 3 0 0 3 1 61 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 48 01:45 Approach 1 25 4 0 0 0 13 1 0 1 3 0 47 02:15 Approach 1 25 4 0 0 0 14 2 0 1 1 0 37 02:30 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 26 4 1 1 1 10 2 4 1 0 1 51 03:00 Approach 1 26 4 1 1 1 10 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 10 1 1 0 2 0 39 03:15 Approach 1 18 4 1 1 1 10 1 0 1 0 0 52 03:00 Approach 1 17 4 0 0 3 23 1 3 1 0 0 52 03:03 Approach 1 11 1 1 1 1 0 16 1 3 0 3 1 38 03:45 Approach 1 16 4 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 61 51 5 9 278 29 5 3 35 3 581 06:30 Approach 1 123 61 51 5 9 278 29 5 3 35 3 581 06:30 Approach 1 123 61 51 5 9 278 29 5 3 13 12 68 6 798 07:30 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 164 143 146 14 210 98 14 8 91 13 820 08:15 Approach 1 151 146 44 68 25 185 101 20 12 29 18 858 08:30 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 08:30 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 29 18 865 09:45 Approach 1 151 1 | 00:45 Approach | 1 | 58 | 7 | 0 | 0 | 1 | 10 | 3 | 1 | 0 | 1 | 4 | 85 | |
| 01:15 Approach 1 33 6 2 2 0 11 3 0 0 3 1 61 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 3 1 61 01:45 Approach 1 25 4 0 0 0 13 1 0 1 3 0 47 02:00 Approach 1 25 4 0 0 0 13 1 0 1 3 0 47 02:15 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 26 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 2 4 1 0 0 52 03:30 Approach 1 17 4 0 0 3 23 1 3 1 0 0 52 03:30 Approach 1 16 4 0 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 20 3 3 3 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 31 11 1 1 10 010 7 7 2 3 26 3 197 05:30 Approach 1 35 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 35 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 35 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 35 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 35 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 07:30 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 07:45 Approach 1 143 13 43 13 43 15 269 53 13 12 68 6 798 07:30 Approach 1 145 103 24 82 11 286 62 10 3 68 6 750 07:15 Approach 1 146 143 37 43 18 18 225 74 10 8 81 10 792 08:00 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 143 13 46 14 210 98 14 8 91 13 820 08:15 Approach 1 151 146 44 68 25 185 101 20 12 295 18 865 08:30 Approach 1 151 146 44 68 25 185 101 20 12 29 18 862 09:00 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 155 134 25 34 13 187 82 22 16 76 27 733 | 01:00 Approach | 1 | 24 | 3 | 1 | 1 | 1 | 19 | 4 | 5 | 0 | 0 | 1 | 59 | |
| 01:30 Approach 1 23 1 0 0 1 15 4 4 0 0 0 48 01:45 Approach 1 28 5 1 1 0 15 1 1 0 1 3 0 47 02:15 Approach 1 23 2 1 1 0 11 2 0 1 1 3 0 47 02:15 Approach 1 23 2 1 1 0 11 2 0 1 1 0 37 02:30 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 18 4 1 1 1 1 0 1 1 0 0 2 0 39 03:15 Approach 1 17 4 0 0 3 23 1 3 1 0 0 52 03:30 Approach 1 17 4 0 0 3 23 1 3 1 0 0 52 03:30 Approach 1 16 4 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 1 9 3 0 1 5 0 49 04:30 Approach 1 21 0 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 55 20 7 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 10 10 195 19 4 2 52 0 419 06:05 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 124 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 124 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 09:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 09:45 Approac | 01:15 Approach | 1 | 33 | 6 | 2 | 2 | 0 | 11 | 3 | 0 | 0 | 3 | 1 | 61 | |
| 01:45 Approach 1 28 5 1 1 0 15 1 1 0 1 1 54 02:00 Approach 1 25 4 0 0 0 13 1 0 1 3 0 47 02:15 Approach 1 23 2 1 1 0 11 2 2 1 1 0 37 02:30 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 26 4 1 1 1 10 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 1 4 1 0 2 2 0 39 03:15 Approach 1 17 4 0 0 3 23 1 3 1 0 0 52 03:30 Approach 1 11 1 1 1 0 16 1 3 0 3 1 38 03:45 Approach 1 16 4 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 28 6 3 3 3 3 8 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:05 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:05 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 123 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 129 103 17 24 8 308 41 4 6 51 7 698 07:00 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 155 10 27 7 8 113 88 10 7 48 811 0 792 08:05 Approach 1 151 14 13 46 14 210 98 14 8 81 10 792 08:05 Approach 1 154 141 31 46 321 169 86 11 15 84 16 808 08:30 Approach 1 155 104 164 29 29 13 288 38 10 5 45 2 689 07:30 Approach 1 154 141 31 46 321 169 86 11 15 84 16 808 08:30 Approach 1 154 141 31 46 321 169 86 11 15 84 16 808 08:30 Approach 1 154 141 31 46 321 169 86 11 15 84 16 808 08:30 Approach 1 157 134 43 58 21 164 102 14 21 102 13 820 09:00 Approach 1 157 134 43 58 11 164 127 21 14 104 19 861 09:15 Approach 1 157 134 43 78 20 45 11 15 84 16 808 08:30 Approach 1 157 134 43 77 15 205 133 25 25 80 24 921 09:30 Approach 1 157 134 43 77 15 205 133 25 25 80 24 921 09:30 Approach 1 157 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 157 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 157 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 157 134 25 34 13 187 53 27 26 30 30 687 1:00 Approach 1 162 89 20 25 10 178 50 24 | 01:30 Approach | 1 | 23 | 1 | 0 | 0 | 1 | 15 | 4 | 4 | 0 | 0 | 0 | 48 | |
| 02:00 Approach 1 25 4 0 0 0 13 1 0 1 3 0 47 02:15 Approach 1 23 2 1 1 0 11 2 2 1 1 3 47 02:45 Approach 1 26 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 2 4 1 0 1 51 03:00 Approach 1 18 4 1 1 1 1 0 2 0 39 03:15 Approach 1 18 4 1 1 1 0 16 1 3 0 3 1 38 03:45 Approach 1 16 4 0 0 0 18 2 2 0 1 1 44 04:00 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:15 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:15 Approach 1 28 6 3 3 3 38 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 31 11 1 1 1 0 10 27 2 3 26 3 197 05:30 Approach 1 6 4 4 4 4 74 4 2 1 26 2 144 05:15 Approach 1 31 11 1 1 1 0 10 9 19 4 2 52 0 419 04:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:05 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 126 104 29 29 13 28 38 10 5 45 2 689 06:45 Approach 1 126 104 29 29 13 28 38 10 5 45 2 689 06:45 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:00 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:30 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 157 134 43 35 43 11 69 86 11 15 84 16 808 08:30 Approach 1 157 134 43 58 21 164 102 14 21 102 13 820 09:00 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 157 134 43 70 15 133 25 25 80 24 921 09:00 Approach 1 157 134 43 70 15 133 25 25 80 24 921 09:00 Approach 1 157 134 43 70 15 133 25 25 80 24 921 09:00 Approach 1 157 134 43 70 15 134 27 23 24 29 163 09:00 Approach 1 157 134 43 70 15 134 27 73 20 24 29 21 10 20 12 95 18 865 08:45 Approach 1 157 134 43 70 15 134 27 73 44 29 633 00:45 Approach 1 155 134 25 34 13 187 53 27 26 30 30 687 10:00 Approach 1 151 146 44 68 25 185 101 20 12 29 5 18 865 09:45 Approach 1 157 134 25 34 13 187 53 27 26 30 30 687 11:00 Approach 1 151 146 14 200 57 13 25 25 80 24 921 09:30 Approach 1 151 146 14 208 57 147 15 205 133 25 25 80 24 921 09:45 Approach 1 1 | 01:45 Approach | 1 | 28 | 5 | 1 | 1 | 0 | 15 | 1 | 1 | 0 | 1 | 1 | 54 | |
| 02:15 Approach11810014201103702:30 Approach123211011221134702:45 Approach126411110241015103:00 Approach118411110110203903:15 Approach1111110110313803:45 Approach116400018220114404:00 Approach128633338122419104:45 Approach118200119301504904:30 Approach121102286143115012705:00 Approach11111010272326319705:30 Approach1552077513081029126305:05 Approach1125605159278295335358106:00 Approach1123661515 <td>02:00 Approach</td> <td>1</td> <td>25</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>13</td> <td>1</td> <td>0</td> <td>1</td> <td>3</td> <td>0</td> <td>47</td> <td></td> | 02:00 Approach | 1 | 25 | 4 | 0 | 0 | 0 | 13 | 1 | 0 | 1 | 3 | 0 | 47 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 02:15 Approach | 1 | 18 | 1 | 0 | 0 | 0 | 14 | 2 | 0 | 1 | 1 | 0 | 37 | |
| $\begin{array}{c} 02:45 \ \mbox{Approach 1} 2 & 2 & 4 & 1 & 1 & 1 & 1 & 0 & 2 & 2 & 4 & 1 & 0 & 1 & 51 \\ 03:00 \ \mbox{Approach 1} 18 & 4 & 1 & 1 & 1 & 10 & 1 & 1 & 0 & 2 & 0 & 39 \\ 03:15 \ \mbox{Approach 1} 18 & 4 & 1 & 1 & 1 & 0 & 16 & 1 & 3 & 0 & 3 & 1 & 38 \\ 03:45 \ \mbox{Approach 1} 16 & 4 & 0 & 0 & 0 & 18 & 2 & 2 & 0 & 1 & 1 & 44 \\ 04:00 \ \mbox{Approach 1} 120 & 3 & 3 & 2 & 28 & 3 & 0 & 0 & 3 & 5 & 70 \\ 04:15 \ \mbox{Approach 1} 18 & 2 & 0 & 0 & 1 & 19 & 3 & 0 & 1 & 5 & 0 & 49 \\ 04:30 \ \mbox{Approach 1} 18 & 2 & 0 & 0 & 1 & 19 & 3 & 0 & 1 & 5 & 0 & 49 \\ 04:30 \ \mbox{Approach 1} 182 & 6 & 3 & 3 & 38 & 1 & 2 & 2 & 4 & 1 & 91 \\ 04:45 \ \mbox{Approach 1} 121 & 10 & 2 & 2 & 8 & 61 & 4 & 3 & 1 & 15 & 0 & 127 \\ 05:00 \ \mbox{Approach 1} 31 & 11 & 1 & 10 & 102 & 7 & 2 & 3 & 26 & 3 & 197 \\ 05:30 \ \mbox{Approach 1} 55 & 20 & 7 & 7 & 5 & 130 & 8 & 1 & 0 & 29 & 1 & 263 \\ 05:45 \ \mbox{Approach 1} 55 & 20 & 7 & 7 & 5 & 130 & 8 & 1 & 0 & 29 & 1 & 263 \\ 05:45 \ \mbox{Approach 1} 55 & 20 & 7 & 7 & 5 & 130 & 8 & 1 & 0 & 29 & 1 & 263 \\ 05:45 \ \mbox{Approach 1} 55 & 20 & 7 & 7 & 5 & 130 & 8 & 1 & 0 & 5 & 45 & 2 & 689 \\ 06:45 \ \mbox{Approach 1} 122 & 103 & 17 & 24 & 8 & 308 & 41 & 4 & 6 & 51 & 7 & 698 \\ 07:00 \ \mbox{Approach 1} 126 & 104 & 29 & 29 & 13 & 288 & 38 & 10 & 5 & 45 & 2 & 689 \\ 06:45 \ \mbox{Approach 1} 126 & 103 & 24 & 32 & 11 & 286 & 62 & 10 & 3 & 68 & 6 & 750 \\ 07:10 \ \mbox{Approach 1} 145 & 103 & 24 & 32 & 11 & 286 & 62 & 10 & 3 & 68 & 6 & 750 \\ 07:30 \ \ \mbox{Approach 1} 145 & 131 & 46 & 14 & 210 & 98 & 14 & 8 & 91 & 13 & 820 \\ 08:15 \ \ \mbox{Approach 1} 145 & 131 & 46 & 14 & 210 & 98 & 14 & 8 & 91 & 13 & 820 \\ 08:15 \ \ \mbox{Approach 1} 145 & 134 & 25 & 34 & 13 & 187 & 82 & 22 & 16 & 76 & 27 & 771 \\ 09:45 \ \ \mbox{Approach 1} 151 & 146 & 44 & 68 & 25 & 185 & 101 & 20 & 12 & 95 & 18 & 865 \\ 08:45 \ \ \mbox{Approach 1} 151 & 146 & 44 & 48 & 21 & 120 & 98 & 14 & 8 & 91 & 13 & 820 \\ 09:00 \ \ \mbox{Approach 1} 155 & 134 & 25 & 34 & 13 & 187 & 82 & 22 & 16 & 76 & 27 & 771 \\ 09:45 \ \ \mbox{Approach 1} 170 & 13 &$ | 02:30 Approach | 1 | 23 | 2 | 1 | 1 | 0 | 11 | $\frac{1}{2}$ | 2 | 1 | 1 | 3 3 | 47 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 02:45 Approach | 1 | $\frac{2}{26}$ | $\frac{2}{4}$ | 1 | 1 | 1 | 10 | $\frac{1}{2}$ | $\frac{2}{4}$ | 1 | 0 | 1 | 51 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 03:00 Approach | 1 | 18 | 4 | 1 | 1 | 1 | 10 | 1 | 1 | 0 | 2 | 0 | 30 | |
| $\begin{array}{c} 03:30 \ \mbox{Approach} 1 \ 11 \ 1 \ 1 \ 1 \ 0 \ 16 \ 1 \ 3 \ 0 \ 3 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 32 \ 1 \ 36 \ 0 \ 36 \ 1 \ 14 \ 44 \ 04:00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ | 03:15 Approach | 1 | 17 | -т Д | 0 | 0 | 3 | 23 | 1 | 3 | 1 | $\tilde{0}$ | 0 | 52 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 03:30 Approach | 1 | 11 | т 1 | 1 | 1 | 0 | 16 | 1 | 3 | 0 | 3 | 1 | 38 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 03:45 Approach | 1 | 16 | 1 | 1 | 1 | 0 | 18 | 2 | 2 | 0 | 1 | 1 | 50 AA | |
| 04:15 Approach 1 18 2 0 0 1 19 3 0 1 5 0 49 04:30 Approach 1 28 6 3 3 3 38 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 17 6 4 4 4 74 4 2 1 26 2 144 05:15 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 93 47 19 20 9 219 31 3 3 54 1 499 06:15 Approach 1 122 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 122 10 3 17 24 8 308 41 4 6 51 7 698 06:45 Approach 1 129 103 17 24 8 308 41 4 6 51 7 698 07:00 Approach 1 143 114 3 33 43 15 269 53 13 12 68 6 796 07:15 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 155 134 25 34 13 187 82 20 16 76 27 771 09:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 155 134 25 34 13 187 82 20 16 76 27 771 09:45 Approach 1 157 134 25 34 13 187 82 20 16 76 27 771 09:45 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 160 102 24 25 6 208 57 26 29 26 48 708 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Appro | 03.45 Approach | 1 | 20 | 4 | 2 | 2 | 2 | 10 28 | 2 | $\tilde{0}$ | 0 | 1 | 5 | 70 | |
| 04:30 Approach 1 28 6 3 3 3 38 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 17 6 4 4 4 74 4 2 1 26 2 144 05:15 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 129 103 17 24 8 308 41 4 6 51 7 698 07:00 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:30 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 151 144 131 46 14 210 98 14 8 91 13 820 08:15 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 157 134 43 58 21 164 102 14 21 02 13 829 09:00 Approach 1 177 134 43 58 21 164 102 14 21 02 13 829 09:00 Approach 1 177 134 43 58 21 164 102 14 21 02 13 829 09:00 Approach 1 177 134 43 58 21 164 102 14 21 02 13 829 09:00 Approach 1 177 134 43 58 21 164 102 14 21 02 13 829 09:00 Approach 1 177 134 43 58 21 164 102 14 29 5 18 865 08:45 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:55 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:55 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:55 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:55 Approach 1 161 19 89 20 21 13 187 53 27 26 30 30 68 | 04:00 Approach | 1 | 20 18 | っ っ | 5 | 5 | 2 1 | 20 | | 0 | 1 | 5 | 5 | 70 40 | |
| 04:45 Approach 1 25 6 3 5 3 6 1 2 2 4 1 91 04:45 Approach 1 21 10 2 2 8 61 4 3 1 15 0 127 05:00 Approach 1 17 6 4 4 4 74 4 2 1 26 2 144 05:15 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 93 47 19 20 9 219 31 3 54 1 499 06:15 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 129 103 17 24 8 308 41 4 6 51 7 698 07:00 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:15 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 157 134 43 58 11 9 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 161 19 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 | 04.13 Approach | 1 | 10 | 6 | 2 | 2 | 1 | 20 | 1 | 2 | 1 2 | 5 | 1 | 49 01 | |
| 04.4.5 Approach 1 17 6 4 4 74 4 71 4 2 1 26 2 144 05:15 Approach 1 31 11 1 1 10 102 7 2 3 26 3 197 05:30 Approach 1 55 20 7 7 5 130 8 1 0 29 1 263 05:45 Approach 1 68 47 12 10 10 195 19 4 2 52 0 419 06:00 Approach 1 93 47 19 20 9 219 31 3 3 54 1 499 06:15 Approach 1 123 66 15 15 9 278 29 5 3 35 3 581 06:30 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 06:45 Approach 1 123 17 24 8 308 41 4 6 51 7 698 07:00 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:00 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:15 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:30 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 165 102 38 51 19 247 78 16 29 26 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:10 Approach 1 169 110 24 25 6 208 57 26 9 26 28 708 | 04.30 Approach | 1 | 20 21 | 10 | с С | с С | О | 30 6 | 1 1 | 2 | ے 1 | 4 15 | 1 | 107 | |
| 05:00 Approach11704447442120214405:15 Approach13111111010272326319705:30 Approach1552077513081029126305:45 Approach16847121010195194252041906:00 Approach11236615159278295335358106:30 Approach11261042929132883810545268906:45 Approach112910317248308414651769807:00 Approach11451032432112866210368675007:15 Approach114314333431526953131268679807:45 Approach114813832481822574108811079208:00 Approach115414131461421098148911382008:15 Approach11571344358211698611 | 04:43 Approach | 1 | 21 17 | 10 | | | 0 | 0. | 14 | 2 | 1 | 13 | 2 | 141 | |
| 05:15Approach15111111010272520519705:30Approach1552077513081029126305:45Approach1934719209219313354149906:15Approach11236615159278295335358106:30Approach11261042929132883810545268906:45Approach112910317248308414651769807:00Approach114314333431526953131268679807:30Approach11661363139152257781170478207:45Approach114813832481822574108811079208:00Approach115414131461421098148911382008:15Approach115713443582116410214211021382909:00Approa | 05:00 Approach | 1 | 1/ | 0 | 4 | 4 | 4 | /4 \ 1(| \cdot 4 | - | 1 | 20 | 2 | 144 | 7 |
| 05:30Approach15520777513081029126505:45Approach1934719209219313354149906:15Approach11236615159278295335358106:30Approach11261042929132883810545268906:45Approach112910317248308414651769807:00Approach11451032432112866210368675007:15Approach114314333431526953131268679807:30Approach11661363139152257781170478207:45Approach115414131461421098148911382008:15Approach115414131461421098148911382008:15Approach115713443582116410214211021382909:0 | 05:15 Approach | 1 | 51 | 11 | 1 | 1 | П Е |) I(12 | JZ 0 0 | / / | 2 3 | 20 | 1 | 19 | / |
| 05:45Approach16847121010195194252041906:00Approach1934719209219313354149906:15Approach11236615159278295335358106:30Approach11261042929132883810545268906:45Approach112910317248308414651769807:00Approach11451032432112866210368675007:15Approach114314333431526953131268679807:30Approach11661363139152257781170478207:45Approach115414131461421098148911382008:15Approach11511464468251851012012951886508:45Approach115713443582116410214211021382909:00 <td>05:30 Approach</td> <td>1</td> <td>22</td> <td>20</td> <td>/</td> <td>/</td> <td>)) 1</td> <td>13</td> <td>08 105</td> <td>10</td> <td>1</td> <td>29</td> <td>- 1</td> <td>263</td> <td>10</td> | 05:30 Approach | 1 | 22 | 20 | / | / |)) 1 | 13 | 08 105 | 10 | 1 | 29 | - 1 | 263 | 10 |
| 06:00 Approach1934719209219313354149906:15 Approach11236615159278295335358106:30 Approach11261042929132883810545268906:45 Approach112910317248308414651769807:00 Approach11451032432112866210368675007:15 Approach114314333431526953131268679807:45 Approach11661363139152257781170478207:45 Approach115414131461421098148911382008:15 Approach1152150416321169861115841680808:30 Approach115713443582116410214211021382909:00 Approach115713443582116410214211021382909:00 Approach1178162274715 | 05:45 Approach | 1 | 68 | 4/ | 12 | 10 | | 0 | 195 | 19 | 4 | 2: | 52 | 04 | 19 |
| 06:15 Approach11236615159 $2/8$ 29 5335358106:30 Approach1126104 29 29 132883810545268906:45 Approach112910317248308414651769807:00 Approach11451032432112866210368675007:15 Approach114314333431526953131268679807:30 Approach11661363139152257781170478207:45 Approach115414131461421098148911382008:15 Approach1152150416321169861115841680808:30 Approach11511464468251851012012951886508:45 Approach115713443582116410214211021382909:00 Approach11781622747152051332525802492109:30 Approach11551342534< | 06:00 Approach | 1 | 93 | 47 | 19 | 20 |) ~ | 92 | .19 . | 31 | 3 | 3 5 | 4 | 1 49 | <i>9</i> 9 |
| 06:30 Approach 1 126 104 29 29 13 288 38 10 5 45 2 689 $06:45$ Approach 1 129 103 17 24 8 308 41 4 6 51 7 698 $07:00$ Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 $07:15$ Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 $07:30$ Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 $07:45$ Approach 1 166 136 31 39 15 225 74 10 8 81 10 792 $08:00$ Approach 1 154 141 31 46 14 210 98 14 8 91 13 820 $08:15$ Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 $08:30$ Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 $09:00$ Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 $09:30$ Approach 1 155 134 25 34 <td< td=""><td>06:15 Approach</td><td>1</td><td>123</td><td>66</td><td>15</td><td></td><td>5</td><td>9 2</td><td>278</td><td>29</td><td>5</td><td>3</td><td>35</td><td>3 5</td><td>81</td></td<> | 06:15 Approach | 1 | 123 | 66 | 15 | | 5 | 9 2 | 278 | 29 | 5 | 3 | 35 | 3 5 | 81 |
| 06:45 Approach1 129 103 17 24 8 308 41 4 6 51 7 698 $07:00$ Approach1 145 103 24 32 11 286 62 10 3 68 6 750 $07:15$ Approach1 143 143 33 43 15 269 53 13 12 68 6 798 $07:30$ Approach1 166 136 31 39 15 225 77 8 11 70 4 782 $07:45$ Approach1 148 138 32 48 18 225 74 10 8 81 10 792 $08:00$ Approach1 154 141 31 46 14 210 98 14 8 91 13 820 $08:15$ Approach1 152 150 41 63 21 169 86 11 15 84 16 808 $08:30$ Approach1 151 146 44 68 25 185 101 20 12 95 18 865 $08:45$ Approach1 157 134 43 58 21 164 102 14 21 102 13 829 $09:00$ Approach1 155 134 25 34 13 187 82 22 16 76 27 771 < | 06:30 Approach | 1 | 126 | 104 | 29 | 92 | .9 | 13 | 288 | 38 | 10 | 5 | 45 | _2 | 689 |
| 07:00 Approach 1 145 103 24 32 11 286 62 10 3 68 6 750 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 154 141 31 46 14 210 98 14 8 91 13 820 08:15 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:10 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 | 06:45 Approach | 1 | 129 | 103 | ľ | 12 | 24 | 8 | 308 | 41 | 4 | 6 | 51 | 7 (| 598 598 |
| 07:15 Approach 1 143 143 33 43 15 269 53 13 12 68 6 798 07:30 Approach 1 166 136 31 39 15 225 77 8 11 70 4 782 07:45 Approach 1 148 138 32 48 18 225 74 10 8 81 10 792 08:00 Approach 1 154 141 31 46 14 210 98 14 8 91 13 820 08:15 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 178 162 27 47 15 | 07:00 Approach | 1 | 145 | 103 | 24 | 43 | 52 | 11 | 286 | 62 | 10 | 3 | 68 | 6 | 750 |
| 07:30 Approach 11661363139152257781170478207:45 Approach 114813832481822574108811079208:00 Approach 115414131461421098148911382008:15 Approach 1152150416321169861115841680808:30 Approach 11511464468251851012012951886508:45 Approach 115713443582116410214211021382909:00 Approach 114414439701516412721141041986109:15 Approach 11781622747152051332525802492109:30 Approach 1155134253413187822216762777109:45 Approach 1192124263610230951214641782010:00 Approach 1165102385119247781619622582210:15 Approach 11701132428112106921155220733 | 07:15 Approach | 1 | 143 | 143 | 3. | 34 | -3 | 15 | 269 | 53 | 13 | 12 | 68 | 6 | 798 |
| 07:45 Approach 1 148 138 32 48 18 225 74 10 8 81 10 792 08:00 Approach 1 154 141 31 46 14 210 98 14 8 91 13 820 08:15 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:00 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 192 124 26 36 10 | 07:30 Approach | 1 | 166 | 136 | 3 | 1 3 | 9 | 15 | 225 | 77 | 8 | 11 | 70 | 4 | 782 |
| 08:00 Approach 1 154 141 31 46 14 210 98 14 8 91 13 820 08:15 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 192 124 26 36 10 230 95 12 | 07:45 Approach | 1 | 148 | 138 | 32 | 2 4 | -8 | 18 | 225 | 74 | 10 | 8 | 81 | 10 | 792 |
| 08:15 Approach 1 152 150 41 63 21 169 86 11 15 84 16 808 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:30 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 <td>08:00 Approach</td> <td>1</td> <td>154</td> <td>141</td> <td>3</td> <td>1 4</td> <td>-6</td> <td>14</td> <td>210</td> <td>98</td> <td>14</td> <td>8</td> <td>91</td> <td>13</td> <td>820</td> | 08:00 Approach | 1 | 154 | 141 | 3 | 1 4 | -6 | 14 | 210 | 98 | 14 | 8 | 91 | 13 | 820 |
| 08:30 Approach 1 151 146 44 68 25 185 101 20 12 95 18 865 08:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:00 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 <td>08:15 Approach</td> <td>1</td> <td>152</td> <td>150</td> <td>4</td> <td>1 6</td> <td>53</td> <td>21</td> <td>169</td> <td>86</td> <td>11</td> <td>15</td> <td>84</td> <td>16</td> <td>808</td> | 08:15 Approach | 1 | 152 | 150 | 4 | 1 6 | 53 | 21 | 169 | 86 | 11 | 15 | 84 | 16 | 808 |
| 08:45 Approach 1 157 134 43 58 21 164 102 14 21 102 13 829 09:00 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 | 08:30 Approach | 1 | 151 | 146 | 44 | 4 6 | 8 | 25 | 185 | 101 | 20 |) 12 | 2 9: | 5 18 | 865 |
| 09:00 Approach 1 144 144 39 70 15 164 127 21 14 104 19 861 09:15 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 <td< td=""><td>08:45 Approach</td><td>1</td><td>157</td><td>134</td><td>43</td><td>3 5</td><td>8</td><td>21</td><td>164</td><td>102</td><td>2 14</td><td>1 2</td><td>1 10</td><td>02 13</td><td>3 829</td></td<> | 08:45 Approach | 1 | 157 | 134 | 43 | 3 5 | 8 | 21 | 164 | 102 | 2 14 | 1 2 | 1 10 | 02 13 | 3 829 |
| 09:15 Approach 1 178 162 27 47 15 205 133 25 25 80 24 921 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 < | 09:00 Approach | 1 | 144 | 144 | 39 | 97 | 0' | 15 | 164 | 127 | 2 | 1 14 | 1 10 | 04 19 |) 861 |
| 09:30 Approach 1 155 134 25 34 13 187 82 22 16 76 27 771 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 <td< td=""><td>09:15 Approach</td><td>1</td><td>178</td><td>162</td><td>2</td><td>74</td><td>7</td><td>15</td><td>205</td><td>133</td><td>3 25</td><td>5 25</td><td>5 80</td><td>0 24</td><td>921</td></td<> | 09:15 Approach | 1 | 178 | 162 | 2 | 74 | 7 | 15 | 205 | 133 | 3 25 | 5 25 | 5 80 | 0 24 | 921 |
| 09:45 Approach 1 192 124 26 36 10 230 95 12 14 64 17 820 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 11:20 Approach 1 169 110 24 25 6 | 09:30 Approach | 1 | 155 | 134 | 2. | 53 | 64 | 13 | 187 | 82 | 22 | 16 | 76 | 5 27 | 771 |
| 10:00 Approach 1 165 102 38 51 19 247 78 16 19 62 25 822 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 11:20 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 | 09:45 Approach | 1 | 192 | 124 | 20 | 63 | 6 | 10 | 230 | 95 | 12 | 14 | 64 | 17 | 820 |
| 10:15 Approach 1 170 113 24 28 11 210 69 21 15 52 20 733 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 11:20 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 | 10:00 Approach | 1 | 165 | 102 | - 38 | 8 5 | 51 | 19 | 247 | 78 | 16 | 19 | 62 | 2 25 | 822 |
| 10:30 Approach 1 142 98 26 33 8 179 54 27 23 44 29 663 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 11:20 Approach 1 174 71 11 12 11 204 51 27 20 24 32 (47) | 10:15 Approach | 1 | 170 | 113 | 24 | 4 2 | 28 | 11 | 210 | 69 | 21 | 15 | 52 | 2 20 | 733 |
| 10:45 Approach 1 191 89 20 21 13 187 53 27 26 30 30 687 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 11:20 Approach 1 174 71 11 12 11 204 51 27 20 24 32 (47) | 10:30 Approach | 1 | 142 | 98 | 26 | 3. | 3 | 8 | 179 | 54 | 27 | 23 | 44 | 29 | 663 |
| 11:00 Approach 1 162 89 20 25 10 178 50 24 35 34 21 648 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 | 10:45 Approach | 1 | 191 | 89 | 20 | 2 | 1 | 13 | 187 | 53 | 27 | 26 | 30 | 30 | 687 |
| 11:15 Approach 1 169 110 24 25 6 208 57 26 29 26 28 708 | 11:00 Approach | 1 | 162 | 89 | 20 | 2 | 5 | 10 | 178 | 50 | 24 | 35 | 34 | 21 | 648 |
| 11.20 Approach 1 174 71 11 12 11 204 51 27 20 24 22 (47 | 11:15 Approach | 1 | 169 | 110 | 24 | 4 2 | 25 | 6 | 208 | 57 | 26 | 29 | 26 | 28 | 708 |
| 11.50 Approach 1 1/4 /1 11 15 11 204 51 27 24 52 64/ | 11:30 Approach | 1 | 174 | 71 | 11 | 1. | 3 | 11 | 204 | 51 | 27 | 29 | 24 | 32 | 647 |
| 11:45 Approach 1 172 96 19 19 22 199 48 26 34 32 30 697 | 11:45 Approach | 1 | 172 | 96 | 19 | 19 | 9 | 22 | 199 | 48 | 26 | 34 | 32 | 30 | 697 |

| 12:00 Approach | 1 | 159 | 91 | 14 | 15 | 8 | 191 | 48 | 30 | 35 | 25 | 33 | 649 |
|----------------|---|------------------------|-----|----------|-----------------|-----|-------|-----|-----------------|----------|-----------------|--------------|-------------|
| 12:15 Approach | 1 | 134 | 88 | 21 | 26 | 8 | 182 | 56 | 32 | 39 | 27 | 39 | 652 |
| 12:30 Approach | 1 | 171 | 108 | 14 | 13 | 11 | 168 | 51 | 29 | 43 | 23 | 41 | 672 |
| 12:45 Approach | 1 | 179 | 113 | 20 | 23 | 5 | 186 | 64 | 36 | 38 | 37 | 41 | 742 |
| 13:00 Approach | 1 | 170 | 112 | 21 | 28 | 6 | 212 | 63 | 26 | 31 | 27 | 31 | 727 |
| 13:15 Approach | 1 | 156 | 108 | 22 | 24 | 14 | 203 | 46 | 29 | 30 | 37 | 33 | 702 |
| 13:30 Approach | 1 | 169 | 114 | 25 | 28 | 14 | 184 | 62 | 23 | 31 | 32 | 35 | 717 |
| 13:45 Approach | 1 | 154 | 108 | 22 | 27 | 7 | 198 | 55 | 26 | 19 | 35 | 31 | 682 |
| 14:00 Approach | 1 | 192 | 105 | ${24}$ | 26 | 15 | 221 | 62 | 44 | 59 | 38 | 33 | 819 |
| 14.15 Approach | 1 | 174 | 149 | 15 | $\frac{20}{23}$ | 16 | 201 | 63 | 58 | 83 | 32 | 46 | 860 |
| 14.30 Approach | 1 | 217 | 123 | 20 | 23 | 14 | 201 | 46 | 31 | 46 | 20 | 28 | 784 |
| 14:45 Approach | 1 | 206 | 123 | 17 | 17 | 15 | 203 | 49 | 33 | 61 | 20 | 31 | 782 |
| 15:00 Approach | 1 | 215 | 156 | 23 | 28 | 0 | 106 | | $\frac{33}{24}$ | 10 | $\frac{22}{26}$ | 32 | 81 <i>/</i> |
| 15:15 Approach | 1 | 10/ | 163 | 23 | 20 | 18 | 2/0 | 50 | 24 | | 20 | 30 | 885 |
| 15:30 Approach | 1 | 19 4 015 | 105 | 10 | 25 | 10 | 242 | 56 | | 80 | 21 | 36 | 806 |
| 15.30 Approach | 1 | 213 | 197 | 21 | 22 | 14 | 227 | 52 | 4.5 | 64 | 20 | 30 40 | 042 |
| 15.45 Approach | 1 | 240 | 10/ | 20 | 22 | 14 | · 210 | 55 | 41 | 60 | 21 10 | 40 | 942 002 |
| 16:00 Approach | 1 | 211 | 132 | 20 | 20 | 15 | 200 | 30 | 40 | 00 | 19 | 40 | 000 |
| 16:13 Approach | 1 | 255 | 149 | 20 | 23 | 13 | 232 | 40 | 39 | 90 | 10 | | 904 |
| 16:30 Approach | 1 | 204 | 1// | 31 21 | 32 | 10 | 242 | 44 | 41 | 83 70 | 21 | 04 | 901 |
| 10:45 Approach | 1 | 21/ | 152 | 31 | 31 | 11 | 213 | 39 | 22 | /0 | 21 | 00 | 900 |
| 17:00 Approach | 1 | 194 | 139 | 20 | 30 | 1/ | 228 | 43 | /0 | 92 | 23 | 85 | 947 |
| 17:15 Approach | 1 | 19/ | 185 | 31 | 38 | 11 | 190 | 39 | /9 | 108 | | 9 93 0 00 | 992 |
| 17:30 Approach | 1 | 195 | 158 | 40 | 49 | 11 | 197 | 32 | /9 | 108 | 5 10 | s 99 | 986 |
| 17:45 Approach | 1 | 186 | 128 | 25 | 27 | 19 | 262 | 27 | 63 | 98 | 18 | 63 | 916 |
| 18:00 Approach | 1 | 217 | 146 | 19 | 18 | 15 | 251 | 34 | 53 | 87 | 10 | 62 | 912 |
| 18:15 Approach | 1 | 205 | 140 | 43 | 41 | 10 | 248 | 34 | 62 | 63 | 10 | 55 | 911 |
| 18:30 Approach | 1 | 201 | 145 | 26 | 27 | 22 | 253 | 34 | 49 | 54 | 11 | 41 | 863 |
| 18:45 Approach | 1 | 230 | 131 | 25 | 24 | 15 | 269 | 30 | 31 | 31 | 6 | 26 | 818 |
| 19:00 Approach | 1 | 220 | 139 | 24 | 24 | 13 | 225 | 32 | 27 | 26 | 13 | 22 | 765 |
| 19:15 Approach | 1 | 216 | 124 | 12 | 13 | 7 | 175 | 21 | 24 | 23 | 8 | 23 | 646 |
| 19:30 Approach | 1 | 180 | 111 | 8 | 8 | 14 | 187 | 22 | 12 | 22 | 5 | 16 | 585 |
| 19:45 Approach | 1 | 168 | 102 | 7 | 6 | 3 | 154 | 14 | 5 | 99 | 9 12 | 2 48 | 39 |
| 20:00 Approach | 1 | 191 | 112 | 10 | 12 | 12 | 156 | 18 | 10 | 6 | 2 | 8 | 537 |
| 20:15 Approach | 1 | 173 | 75 | 14 | 13 | 15 | 147 | 10 | 12 | 8 | 4 | 9 4 | 480 |
| 20:30 Approach | 1 | 151 | 87 | 8 | 8 | 12 | 137 | 25 | 5 | 8 3 | 37 | 45 | 1 |
| 20:45 Approach | 1 | 150 | 70 | 7 | 7 | 9 1 | 48 1 | 11 | 4 (| 50 | 4 | 416 | 5 |
| 21:00 Approach | 1 | 142 | 72 | 9 | 9 | 16 | 132 | 10 | 8 | 3 1 | l 8 | 41 | 0 |
| 21:15 Approach | 1 | 139 | 65 | 8 | 9 | 10 | 154 | 13 | 2 1 | 11 | 4 7 | 7 42 | 22 |
| 21:30 Approach | 1 | 135 | 59 | 5 | 7 | 18 | 145 | 10 | 2 | 4 1 | 13 | 3 39 | 99 |
| 21:45 Approach | 1 | 163 | 74 | 4 | 4 | 9 1 | 10 | 8 9 | 9 | 3 | 3 | 396 | |
| 22:00 Approach | 1 | 157 | 80 | 5 | 5 | 10 | 90 | 8 3 | 34 | 4 | 3 | 369 | |
| 22:15 Approach | 1 | 162 | 73 | 3 | 3 | 5 9 | 93 1 | 1 2 | 2 2 | 1 (|) 6 | 39 | 9 |
| 22:30 Approach | 1 | 142 | 65 | 3 | 3 | 5 1 | 10 | 5 7 | / 13 | 3 0 | 6 | 359 |) |
| 22:45 Approach | 1 | 124 | 48 | 0 | 0 | 8 8 | 80 5 | 5 2 | 1 | 0 | 1 | 269 | |
| 23:00 Approach | 1 | 102 | 40 | 3 | 3 | 6 5 | 59 4 | 1 2 | 1 | 1 | 2 | 223 | |
| 23:15 Approach | 1 | 71 | 29 | 1 | 1 4 | 4 5 | 8 5 | 1 | 3 | 0 | 3 | 176 | |
| 23:30 Approach | 1 | 96 | 17 | 2 | 3 4 | 4 5 | 5 5 | 0 | 1 | 1 | 0 | 184 | |
| 23:45 Approach | 1 | 74 | 22 | 0 | 0 | 84 | 3 4 | 0 | 1 | 0 | 2 | 154 | |
| 24:00 Approach | 1 | 69 | 15 | 2 | 2 4 | 4 3 | 4 2 | 0 | 1 | 1 | 1 | 131 | |
| 11 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Approach 1 AM peak 3476 08:15 - 09:15 PM peak 3885 16:30 - 17:30 Daily Total 51800

| Transport | and | Traffic | Planning | Associat | es |
|-----------|-----|---------|----------|----------|----|
|-----------|-----|---------|----------|----------|----|

Appendix C

SIDRA Traffic Model Output



Site: 101 [Epping Road and Sam Johnson Way PEAK AM]

Epping Road and Sam Johnson Way Site Category: -

Signals - Fixed Time Isolated Cycle Time = 120 seconds (Site Practical Cycle Time)

| Movement Performance - Vehicles | | | | | | | | | | | | | |
|---------------------------------|----------|----------------------------|------------------|---------------------|-------------------------|---------------------|-----------------------------|---------------------------|-----------------|------------------------|---------------------|--------------------------|--|
| Mov ID | Turn | Demand F Total veh/h | Flows HV % | Deg. Satn v/c | Average Delay sec | Level of Service | 95% Back Vehicles veh | of Queue Distance m | Prop. Queued | Effective Stop Rate | Aver. No. Cycles | Average Speed km/h | |
| South | East: Ep | ping Road | | | | | | | | | | | |
| 4 | L2 | 359 | 2.0 | 0.905 | 70.0 | LOS E | 24.4 | 173.7 | 1.00 | 0.98 | 1.30 | 27.6 | |
| 5 | T1 | 1180 | 2.0 | 0.910 | 53.6 | LOS D | 42.8 | 304.5 | 0.97 | 1.05 | 1.20 | 32.0 | |
| Approa | ach | 1539 | 2.0 | 0.910 | 57.4 | LOS E | 42.8 | 304.5 | 0.98 | 1.03 | 1.22 | 30.8 | |
| NorthV | Vest: Ep | ping Road | | | | | | | | | | | |
| 11 | T1 | 904 | 2.0 | 0.687 | 12.0 | LOS A | 31.0 | 220.8 | 0.65 | 0.60 | 0.65 | 50.2 | |
| 12 | R2 | 687 | 2.0 | 0.895 | 57.8 | LOS E | 29.0 | 206.4 | 0.96 | 0.92 | 1.12 | 30.5 | |
| Approa | ach | 1591 | 2.0 | 0.895 | 31.8 | LOS C | 31.0 | 220.8 | 0.79 | 0.74 | 0.85 | 39.2 | |
| South\ | West: Sa | am Johnson | Way | | | | | | | | | | |
| 1 | L2 | 71 | 2.0 | 0.073 | 19.8 | LOS B | 2.0 | 14.0 | 0.51 | 0.69 | 0.51 | 44.3 | |
| 3 | R2 | 85 | 2.0 | 0.137 | 46.2 | LOS D | 2.6 | 18.3 | 0.84 | 0.73 | 0.84 | 33.7 | |
| Approa | ach | 156 | 2.0 | 0.137 | 34.2 | LOS C | 2.6 | 18.3 | 0.69 | 0.71 | 0.69 | 37.8 | |
| All Veh | nicles | 3286 | 2.0 | 0.910 | 43.9 | LOS D | 42.8 | 304.5 | 0.87 | 0.88 | 1.02 | 34.7 | |

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

| Move | Movement Performance - Pedestrians | | | | | | | | | | | | | |
|---------|------------------------------------|--------|---------|----------|--------------|----------|--------|-----------|--|--|--|--|--|--|
| Mov | Description | Demand | Average | Level of | Average Back | of Queue | Prop. | Effective | | | | | | |
| ID | Description | Flow | Delay | Service | Pedestrian | Distance | Queued | Stop Rate | | | | | | |
| | | peu/ii | SEC | | peu | 111 | | | | | | | | |
| P1 | SouthWest Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | | | | |
| All Peo | destrians | 53 | 54.3 | LOS E | | | 0.95 | 0.95 | | | | | | |

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com Organisation: TRANSPORT AND TRAFFIC PLANNING ASSOCIATES | Processed: Wednesday, 14 August 2019 12:12:14 PM Project: T:\WORK19\19102 - 166 EPPING ROAD, LANE COVE\MODEL\SIDRA.sip8

Site: 101 [Epping Road and Sam Johnson Way PEAK PM]

Epping Road and Sam Johnson Way Site Category: -

Signals - Fixed Time Isolated Cycle Time = 120 seconds (Site User-Given Cycle Time)

| Move | Movement Performance - Vehicles | | | | | | | | | | | | | |
|-----------|---------------------------------|----------------------------|------------------|---------------------|-------------------------|---------------------|-----------------------------|---------------------------|-----------------|------------------------|---------------------|--------------------------|--|--|
| Mov ID | Turn | Demand I Total veh/h | Flows HV % | Deg. Satn v/c | Average Delay sec | Level of Service | 95% Back Vehicles veh | of Queue Distance m | Prop. Queued | Effective Stop Rate | Aver. No. Cycles | Average Speed km/h | | |
| South | East: Epp | ing Road | | | | | | | | | | | | |
| 4 | L2 | 153 | 2.0 | 0.323 | 44.4 | LOS D | 7.3 | 51.7 | 0.85 | 0.78 | 0.85 | 34.1 | | |
| 5 | T1 | 1437 | 2.0 | 0.857 | 36.0 | LOS C | 42.6 | 303.3 | 0.94 | 0.91 | 1.02 | 37.8 | | |
| Approa | ach | 1590 | 2.0 | 0.857 | 36.8 | LOS C | 42.6 | 303.3 | 0.93 | 0.90 | 1.00 | 37.4 | | |
| NorthV | Vest: Epp | ing Road | | | | | | | | | | | | |
| 11 | T1 | 965 | 2.0 | 0.781 | 16.3 | LOS B | 39.9 | 284.2 | 0.78 | 0.73 | 0.78 | 47.3 | | |
| 12 | R2 | 324 | 2.0 | 0.844 | 65.0 | LOS E | 13.1 | 93.5 | 0.99 | 0.88 | 1.15 | 28.7 | | |
| Approa | ach | 1289 | 2.0 | 0.844 | 28.6 | LOS C | 39.9 | 284.2 | 0.83 | 0.77 | 0.87 | 40.7 | | |
| South\ | Nest: Sar | n Johnson | Way | | | | | | | | | | | |
| 1 | L2 | 523 | 2.0 | 0.851 | 42.8 | LOS D | 26.6 | 189.5 | 0.83 | 0.89 | 0.97 | 34.7 | | |
| 3 | R2 | 484 | 2.0 | 0.851 | 52.4 | LOS D | 16.0 | 113.7 | 0.91 | 0.87 | 1.04 | 31.9 | | |
| Approa | ach | 1007 | 2.0 | 0.851 | 47.4 | LOS D | 26.6 | 189.5 | 0.87 | 0.88 | 1.00 | 33.3 | | |
| All Veh | nicles | 3886 | 2.0 | 0.857 | 36.8 | LOS C | 42.6 | 303.3 | 0.88 | 0.85 | 0.96 | 37.2 | | |

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

| Move | Movement Performance - Pedestrians | | | | | | | | | | | | | |
|---------|------------------------------------|--------|---------|----------|--------------|----------|--------|-----------|--|--|--|--|--|--|
| Mov | Description | Demand | Average | Level of | Average Back | of Queue | Prop. | Effective | | | | | | |
| ID | Description | Flow | Delay | Service | Pedestrian | Distance | Queued | Stop Rate | | | | | | |
| | | peu/ii | SEC | | peu | 111 | | | | | | | | |
| P1 | SouthWest Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | | | | |
| All Peo | destrians | 53 | 54.3 | LOS E | | | 0.95 | 0.95 | | | | | | |

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com Organisation: TRANSPORT AND TRAFFIC PLANNING ASSOCIATES | Processed: Wednesday, 14 August 2019 12:14:14 PM Project: T:\WORK19\19102 - 166 EPPING ROAD, LANE COVE\MODEL\SIDRA.sip8

Site: 101 [Mowbray Road West and Epping Road PEAK AM]

Mowbray Road West and Epping Road Site Category: (None)

Signals - Fixed Time Isolated Cycle Time = 120 seconds (Site User-Given Phase Times)

| Movement Performance - Vehicles | | | | | | | | | | | | | |
|---------------------------------|----------|----------------------------|------------------|---------------------|-------------------------|---------------------|-----------------------------|---------------------------|-----------------|------------------------|---------------------|--------------------------|--|
| Mov ID | Turn | Demand F Total veh/h | Flows HV % | Deg. Satn v/c | Average Delay sec | Level of Service | 95% Back Vehicles veh | of Queue Distance m | Prop. Queued | Effective Stop Rate | Aver. No. Cycles | Average Speed km/h | |
| South | East: Ep | ping Road | | | | | | | | | | | |
| 2 | T1 | 1273 | 2.0 | 0.826 | 36.1 | LOS C | 36.1 | 257.2 | 0.94 | 0.89 | 0.99 | 37.7 | |
| 3 | R2 | 76 | 2.0 | 0.498 | 65.0 | LOS E | 4.5 | 31.8 | 1.00 | 0.77 | 1.00 | 28.7 | |
| Appro | ach | 1349 | 2.0 | 0.826 | 37.7 | LOS C | 36.1 | 257.2 | 0.94 | 0.88 | 0.99 | 37.1 | |
| North | East: Mo | wbray Road | West | | | | | | | | | | |
| 4 | L2 | 114 | 2.0 | 0.182 | 35.1 | LOS C | 4.6 | 33.1 | 0.74 | 0.75 | 0.74 | 37.4 | |
| 5 | T1 | 12 | 2.0 | 0.778 | 51.5 | LOS D | 15.8 | 112.7 | 0.99 | 0.89 | 1.09 | 23.0 | |
| 6 | R2 | 558 | 2.0 | 0.778 | 57.3 | LOS E | 17.4 | 123.9 | 0.99 | 0.89 | 1.09 | 30.6 | |
| Appro | ach | 684 | 2.0 | 0.778 | 53.5 | LOS D | 17.4 | 123.9 | 0.95 | 0.87 | 1.04 | 31.5 | |
| North | West: Ep | ping Road | | | | | | | | | | | |
| 7 | L2 | 580 | 2.0 | 0.386 | 6.6 | LOS A | 4.6 | 32.4 | 0.22 | 0.62 | 0.22 | 53.4 | |
| 8 | T1 | 1382 | 2.0 | 0.818 | 20.7 | LOS B | 41.3 | 293.9 | 0.80 | 0.73 | 0.80 | 44.9 | |
| Appro | ach | 1962 | 2.0 | 0.818 | 16.5 | LOS B | 41.3 | 293.9 | 0.63 | 0.70 | 0.63 | 47.1 | |
| South | West: | | | | | | | | | | | | |
| 10 | L2 | 10 | 2.0 | 0.024 | 43.3 | LOS D | 0.5 | 3.2 | 0.80 | 0.67 | 0.80 | 26.3 | |
| Appro | ach | 10 | 2.0 | 0.024 | 43.3 | LOS D | 0.5 | 3.2 | 0.80 | 0.67 | 0.80 | 26.3 | |
| All Ve | hicles | 4005 | 2.0 | 0.826 | 30.0 | LOS C | 41.3 | 293.9 | 0.79 | 0.79 | 0.82 | 40.0 | |

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

| Movement Performance - Pedestrians | | | | | | | | | | | |
|------------------------------------|-------------------------|--------|---------|------------|--------------|----------|-----------|-----------|--|--|--|
| Mov | | Demand | Average | Level of . | Average Back | Prop. | Effective | | | | |
| ID | Description | Flow | Delay | Service | Pedestrian | Distance | Queued | Stop Rate | | | |
| | | ped/h | sec | | ped | m | | | | | |
| P1 | SouthEast Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | |
| P2 | NorthEast Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | |
| P4 | SouthWest Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | |
| All Pedestrians | | 158 | 54.3 | LOS E | | | 0.95 | 0.95 | | | |

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com Organisation: TRANSPORT AND TRAFFIC PLANNING ASSOCIATES | Processed: Wednesday, 14 August 2019 2:07:10 PM Project: T:\WORK19\19102 - 166 EPPING ROAD, LANE COVE\MODEL\SIDRA.sip8

Site: 101 [Mowbray Road West and Epping Road PEAK PM]

Mowbray Road West and Epping Road Site Category: (None)

Signals - Fixed Time Isolated Cycle Time = 120 seconds (Site User-Given Phase Times)

| Movement Performance - Vehicles | | | | | | | | | | | | |
|---------------------------------|--------|----------------------------|-----------------|-----------------------------|---------------------------------|---------------------|-----------------------------|----------------------------------|-----------------|------------------------|---------------------|----------------------------------|
| Mov ID | Turn | Demand F Total veh/h | lows HV % | Deg. Satn v/ <u>c</u> | Average Delay se <u>c</u> | Level of Service | 95% Back Vehicles veh | of Queue Distance <u>m</u> | Prop. Queued | Effective Stop Rate | Aver. No. Cycles | Average Speed km/ <u>h</u> |
| SouthEast: Epping Road | | | | | | | | | | | | |
| 2 | T1 | 1979 | 2.0 | 0.815 | 16.0 | LOS B | 43.7 | 311.2 | 0.79 | 0.73 | 0.79 | 47.5 |
| 3 | R2 | 74 | 2.0 | 0.539 | 66.4 | LOS E | 4.4 | 31.4 | 1.00 | 0.77 | 1.00 | 28.4 |
| Appro | ach | 2053 | 2.0 | 0.815 | 17.8 | LOS B | 43.7 | 311.2 | 0.79 | 0.73 | 0.79 | 46.4 |
| NorthEast: Mowbray Road West | | | | | | | | | | | | |
| 4 | L2 | 78 | 2.0 | 0.146 | 39.2 | LOS C | 3.4 | 23.9 | 0.78 | 0.74 | 0.78 | 35.9 |
| 5 | T1 | 12 | 2.0 | 0.839 | 59.5 | LOS E | 15.4 | 109.5 | 1.00 | 0.93 | 1.22 | 21.2 |
| 6 | R2 | 490 | 2.0 | 0.839 | 65.2 | LOS E | 16.1 | 114.6 | 1.00 | 0.93 | 1.21 | 28.7 |
| Appro | ach | 580 | 2.0 | 0.839 | 61.6 | LOS E | 16.1 | 114.6 | 0.97 | 0.90 | 1.15 | 29.4 |
| NorthWest: Epping Road | | | | | | | | | | | | |
| 7 | L2 | 530 | 2.0 | 0.344 | 6.4 | LOS A | 3.6 | 25.4 | 0.20 | 0.61 | 0.20 | 53.5 |
| 8 | T1 | 1217 | 2.0 | 0.652 | 14.3 | LOS A | 28.6 | 203.4 | 0.64 | 0.58 | 0.64 | 48.6 |
| Appro | ach | 1747 | 2.0 | 0.652 | 11.9 | LOS A | 28.6 | 203.4 | 0.50 | 0.59 | 0.50 | 50.0 |
| SouthWest: | | | | | | | | | | | | |
| 10 | L2 | 12 | 2.0 | 0.157 | 68.6 | LOS E | 0.7 | 5.2 | 0.99 | 0.68 | 0.99 | 20.0 |
| Appro | ach | 12 | 2.0 | 0.157 | 68.6 | LOS E | 0.7 | 5.2 | 0.99 | 0.68 | 0.99 | 20.0 |
| All Vel | hicles | 4392 | 2.0 | 0.839 | 21.4 | LOS B | 43.7 | 311.2 | 0.70 | 0.70 | 0.73 | 44.2 |

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

| Movement Performance - Pedestrians | | | | | | | | | | | |
|------------------------------------|-------------------------|--------|---------|----------|--------------|----------|-----------|-----------|--|--|--|
| Mov | Description | Demand | Average | Level of | Average Back | Prop. | Effective | | | | |
| ID | Description | Flow | Delay | Service | Pedestrian | Distance | Queued | Stop Rate | | | |
| | | ped/h | sec | | ped | m | | | | | |
| P1 | SouthEast Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | |
| P2 | NorthEast Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | |
| P4 | SouthWest Full Crossing | 53 | 54.3 | LOS E | 0.2 | 0.2 | 0.95 | 0.95 | | | |
| All Pedestrians | | 158 | 54.3 | LOS E | | | 0.95 | 0.95 | | | |

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Appendix D

Swept Path Analyses













This drawing has been prepared using vehicle modelling computer software AutoTrack V5.00a in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



SWEPT PATH ANALYSIS OF A 6.99m MINIBUS ENTERING AND EXITING THE SITE

SP



This drawing has been prepared using vehicle modelling computer software AutoTrack V5.00a in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



SWEPT PATH ANALYSIS OF A 6.99m MINIBUS ENTERING AND EXITING THE SITE PAST A STOPPED MINIBUS



This drawing has been prepared using vehicle modelling computer software AutoTrack V5.00a in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



SWEPT PATH ANALYSIS OF A 99th AND AN 85th PERCENTILE VEHICLE PASSING



This drawing has been prepared using vehicle modelling computer software AutoTrack V5.00a in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.

SWEPT PATH ANALYSIS OF A 99th AND AN 85th PERCENTILE VEHICLE PASSING



This drawing has been prepared using vehicle modelling computer software AutoTrack V5.00a in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.

SWEPT PATH ANALYSIS OF A 99th AND AN 85th PERCENTILE VEHICLE PASSING



