



VERIFICATION ASSESSEMENT

TRAFFIC SPEED SURVEYS

NK TRAFFIC

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1.0 INTRODUCTION

NK TRAFFIC is a traffic and transportation consultancy providing for over 28 years traffic and transportation services. These services include traffic and transport impact assessments for a wide range of developments. This includes traffic and parking impacts of various developments, access and driveway arrangements, pedestrian and bicycle proposals, intersection analysis, traffic modelling, traffic surveys, as well as providing technical advice to engineers, developers, local, state and federal government authorities and other stakeholders.

NK TRAFFIC has teamed up with Compass who are perfecting a digital transport management platform which simplifies decision making by displaying multiple complex assets in simple usable visualisations. The digital platform provides real time traffic network and its analytics dashboard displays traffic speed and volume data in real time and also in historical form via advanced aggregation algorithms.

2.0 CONSIDERATION

NK TRAFFIC has carried out comparison surveys by comparing real time traffic speed and volume surveys and field survey data in order to identify the accuracy of the data and for verification purposes. For the purpose of this assessment, traffic speeds undertaken were assessed comparing field data with Compass Analytics data for the same locations. A separate analysis comparing the Analytics traffic volumes data will be undertaken in a separate assessment.

NK TRAFFIC carried out traffic surveys at 7 locations and compared then with Compass analytics data for the same locations and time. The following locations were surveyed for speed data for different days of the week and times of the day including peak and non - peak traffic times:

- Bonds Road Riverwood - west of Hannans Road, westbound
- Bonds Rd Riverwood - west of Hannans Rd Road, eastbound
- The Kingsway Miranda – west of Kiora St, westbound
- Princess Hwy Sylvania - from Port Hacking Rd, eastbound
- Princess Hwy Sylvania - at Tom Ugly's Bridge,
- Princess Hwy Blakehurst - north of Tom Ugly's Bridge
- King Georges Rd, Hurstville - from Forest Rd to Clarence St

The method used by NK TRAFFIC to calculate speeds at various locations was the 'floating car runs' which is runs in the direction of the traffic flow of interest. The accuracy level of this method to undertake speed surveys has been analysed in various studies and is supported as a traffic speed survey.

NK SURVEYS / COMPASS ANALYTICS

Locations	Car	Bus	Car	Bus	Difference
Bonds Road west of Hannans Rd	37	42.5	35.9	43.9	Car 3% Bus 2%
Westbound					
Bonds Road west of Hannans Rd	43	41.5	42.5	42.7	Car 1% Bus 2%
Eastbound					
The Kingsway -Kiora to Wandella Rd	37.5	34	37.3	34.2	Car 05% Bus 3%
Westbound					
Princess Hwy -Port Hacking to TU bridge	60	51	62	52.2	Car 3 % Bus 2%
Eastbound					
Princess Hwy - Tom Ugly Bridge	64.5	64	62.9	65.5	Car 2.5% Bus 2%
Eastbound					
Princess Hwy - North of TU Bridge	62	55	60.9	56.4	Car 1% Bus 2%
Northbound					
King Georges Road - Forest to Clarence Northbound	58.5	49	59	48.6	Car 0.8% Bus 0.8%

Traffic Speed Surveys Comparison Table

VERIFICATION OF COMPASS DATA ANALYTICS – SPEED DATA

NK TRAFFIC verifies that the by comparing the actual speed surveys with the data provided by Compass Analytics has identified a matching rate of 97% - 100%. The significance of the accuracy of the Compass platform is demonstrated by the fact that the acceptable error of the traffic field counts by any type of devices currently used in the market worldwide exceeds the difference identified of the surveyed actual traffic counts compared with the Compass Analytics data.

NK TRAFFIC can verify with confidence that the Speed Counts for Car and Buses provided in the Compass Analytics Data platform is observed as being accurate within a 99% - 100% range.

The Compass Analytics Speed data is endorsed by NK Traffic as a very accurate speed data which can be successfully applied for any type of vehicular speed surveys where high accuracy is required.

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