

Roads and Maritime Services Trip Generation Surveys

Car Wash & Cafes

Data Report - WCAG

Roads and Maritime Services

4th December 2019

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1. INTRODUCTION

1.1 Background

Roads and Maritime Services (Roads and Maritime), NSW commissioned Bitzios Consulting to undertake a trip generation and parking demand survey and analysis of Car Wash Café sites. The *Roads and Maritime Guide to Traffic Generating Developments – 2002* (hereafter referred to as the *Guide*), contains traffic generation and parking demand information based on surveys completed in 1980 and regularly requires updating.

Roads and Maritime recognised that many new and emerging business types are not adequately represented in the Guide, including Car Wash Cafés. As this is a relatively new land use, RMS have not undertaken any traffic generation or parking demand surveys / studies to date. It has also been identified that other early trip generation studies were too focussed on Sydney and did not adequately reflect potential differences in regional areas. As such, other key considerations for this study include:

- Retail hours have changed, Saturday is the peak and Sunday trading is now the norm rather than the exception
- The demographics is changing due to the aging population and the average household size is decreasing
- There are increases in car ownership as the cost of new vehicles continues to fall
- With new technologies work and leisure patterns are changing based on the effects of more flexible/ extended working hours
- There is a much higher residential density in some areas of Sydney
- Increases in the average age of first drivers licence suggesting that young people are choosing not to drive and the ageing population driving less
- Changes to levels of car washing due to increasing water restrictions levels and potential increases to the attractiveness of commercial car washes
- Standard car washes are predominantly private-vehicle-based, the addition of the cafes on the site has the potential to attract additional customers who may use alternate transport modes.

This study has solely focused on car wash sites that have cafes to determine a trip generation rate for this specific land use.

1.2 Scope

The scope of this Data Report includes:

- Research and identification of suitable car wash café sites which meet the requirements of RMS
- Summary of all collected relevant and available background data for each site (e.g. site area, number of car wash bays and on-site parking provisions)
- Presentation of three (3) day surveys of each site, including all-mode trip generation data and frontage road data
- Assembly and summary of information on all-mode trip generation data
- Tabulating and presenting the collected data to establish any initial statistical relationships
- Presentation of key results and summary of initial findings.

Detailed data and regression analysis shall be included in the corresponding Analysis Report for this study.

1.3 Definition of Key Terms

GFA – Gross Floor Area (m²)

Site Area –includes on-site café, office, service areas & wash bays (m²)

Roads and Maritime – Roads and Maritime Services NSW

Trip Generation – Generation of trips undertaken by individuals, including pedestrian, cyclist or persons. It should be noted that a 'trip' is the movement of a vehicle or person from origin to destination (i.e. a 'complete' visit to the shops would equate to two (2) trips, 1 to the site and 1 from the site)

Traffic Generation – Individual vehicle trips regardless of number of persons within the vehicle

Occupied Site Area – Total site area of the building based on aerial imagery

Manual Car Wash – Cars are washed by staff members of the Car wash

Automated Car Wash – Cars are washed using an automatic system/machine

Self-Serve Car Wash – Car wash bays and tools are provided for customer to wash cars themselves

Frontage Traffic – Traffic fronting a surveyed site that has the ability to access that site (i.e. where a median exists in the frontage road only one-way traffic volumes are applied), unless otherwise stated.

1.4 Project Challenges and Responses

Table 1.1 summarises challenges that occurred throughout the data collection phase of the project and the steps taken to address them.

Table 1.1: Addressing Project Challenges

Challenges	Responses
Contacting site managers to gain permission to undertake surveys and receiving approval.	Multiple attempts were made to contact the potential survey sites using various forms of communication. Following five (5) or more attempts at a large number of preferred sites, and limited positive responses, an alternate survey method was developed (as below).
Ensuring a <i>typical</i> day was surveyed for each site. Rain and bad weather impact the operation and usual trip generation of car washes.	Affected survey days were rescheduled to later days and data analysis process was expedited to ensure a timely delivery of the project.
Obtaining suitable site information. Some sites provided limited datasets while others did not respond to the request for data.	A manual estimation method was used to determine the relevant site information from the most recent aerial imagery available, available online details and surveyor observations.

Initially, 24 potential sites were selected based on site selection criteria and presented to RMS for review. Of these, 21 were approved and contacted. Of these only one (1) site provided permission to undertake a complete survey and two (2) sites approved an alternate (reduced) survey method with no on-site data collection (i.e. customer surveys). Several attempts to contact other potential sites via phone calls and emails, resulted in either negative or no responses.

Through collaboration with RMS an **alternate survey method** was developed to ensure an assessable level of data could be collected. This was a major challenge for the project and impacted the detail of survey data collected for this study.

Alternate Survey Methodology

The alternate survey method applied to collect data (detailed in Section 3) included:

- Estimating some site details (i.e. parking bays) from available aerial imagery and Google Street
- Survey sites were strategically selected to collect only anonymous trip movement data automatically by observing the public road network
- No customer questionnaire or parking data could be collected.

The limitations of this method have been considered when undertaking our analysis.

2. SITE SELECTION

2.1 Selection Criteria

2.1.1 Roads and Maritime Criteria

The selection of the sites is based on the following criteria provided by Roads and Maritime:

- A mix of automated, manual and self-serve car washing facilities
- All with on-site café area with seating
- On-site parking provision
- Some on major arterial roads, others on local roads
- Reasonable geographic spread
- Ease in isolating the site from other nearby developments (office, strip retail, residential, etc) for survey purposes and collecting the required trip information (i.e. no shared driveways)
- Availability of relevant information on the building (site plan, areas, dimensions, pedestrian access points, vehicle entrances and exits, number and type of washing bays, parking spaces, etc).

2.2 Candidate Site Selection

The candidate sites were selected by manually reviewing aerial imagery (Google maps and Nearmaps) to include a range of sites based on the RMS criteria. Following the manual review of aerial imagery and online car wash cafe searches, each was checked via the Roads and Maritime criteria for the sites for suitability.

Approximately 24 sites were reviewed, with a total of 21 sites approved by Roads and Maritime. As outlined in Section 1.4, the majority of selected sites did not wish to participate in the surveys. As such, new survey sites were selected following the above process in conjunction with RMS, these sites had an alternate automated survey method applied (detailed in Section 3).

2.3 Selection Basis

In order to ensure a comprehensive dataset for analysis, selected sites varied in size, type and location across Sydney and NSW. The surveys were undertaken on a Friday, Saturday and Sunday as it was anticipated that these days would have a higher demand/ turnover of customers compared to other weekdays. The number of surveys selected by region is summarised in Table 2.1.

Table 2.1: Proposed Surveys and Location Summary

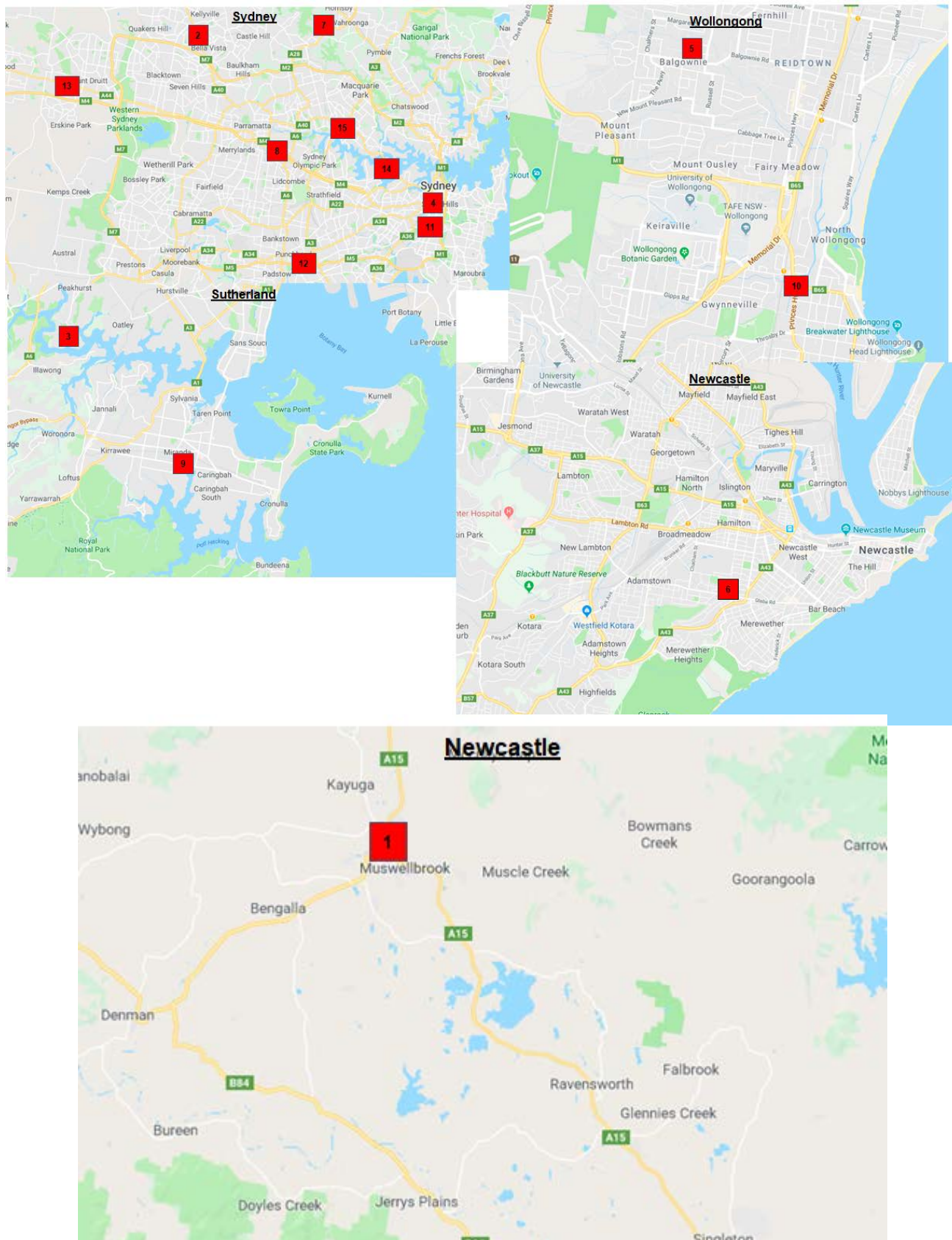
Survey Days	Sydney	Regional			Total
		Newcastle	Wollongong	Other	
3 days (Friday, Saturday, Sunday)	10	1	2	2	15

2.4 Selected Survey Sites

A summary of each selected survey site and its location are provided in Table 2.2 and Figure 2.1 respectively.

Table 2.2: Selected Survey Sites

Site No.	Region	Suburb	Site Name	Address	Type
1	Regional	Muswellbrook	Blue Flame Car Wash	42 – 50 Sydney Street	Manual
2	Sydney	Blacktown	CARSPA Auto Wash Cafe	2/1190 Old Windsor Road	Manual and Automated
3	Sydney	Georges River	Lugarno Café Car Wash	1052 Forest Road	Manual
4	Sydney	Refern	Wax Car Wash	375 Cleveland Street	Manual and Self-Serve
5	Regional	Wollongong	Hands on Car Wash	118/120 Balgownie Road	Manual
6	Regional	Newcastle	Stella Hand Car Wash & Table1	89 – 93 City Road	Manual
7	Sydney	Thornleigh	Blanc Noire Hand Wash Cafe	169 – 171 Pennant Hills Road	Manual
8	Sydney	Auburn	Xibit Car Wash Cafe	212 Parramatta Road	Manual
9	Sydney	Miranda	Aqua Car Wash	109 Miranda Street	Manual
10	Regional	Wollongong	Professional Car Wash	10 – 12 Flinders Street	Manual
11	Sydney	Sydney	Gold Car Wash Café	44 O’Riordan Street	Manual
12	Sydney	Canterbury-Bankstown	Zoom Car Wash Café	1518 Canterbury Rd	Manual
13	Regional	Penrith	Elegance Carwash	35 Henry Street	Manual
14	Sydney	Canada Bay	Rainbow Hand Car Wash and Café	120 Victoria Road	Manual
15	Sydney	Ryde	Sydney Car Wash Café	750 Victoria Road	Manual and Self-Serve



Source: Google Maps

Figure 2.1: Survey Site Locations

3. SURVEY PROCEDURE

3.1 Survey Schedule

All the surveys were undertaken over three (3) days from Friday – Sunday. The duration of the surveys is based on the span of the sites' opening hours. This varied from site to site and ranged from 6:00AM - 7:00PM.

Frontage road traffic count data was also collected for each of the sites standard working hours.

Table 3.1: Survey Site Schedule and Notes

Site Number	Survey Dates	Opening Hours	Approximate Year Built	Notes
1	29 th – 31 st March 2019	6:00AM – 7:00PM	2012	The site is bounded by two arterial roads, Sydney Street and the New England Highway, surrounded by residential and other retail uses.
2	14 th – 16 th June 2019	7:00AM – 5:30PM	2009	The site is next to Parklea Markets and Parklea Public School. In proximity to the major Old Windsor Road / Miami Street / Balmoral Road intersection. Old Windsor Road is an arterial road and site access is gained via the front and back of the site.
3	14 th – 15 th June & 28 th July 2019	8:00AM – 5:00PM	2004	This site is surrounded by low density residential with a service station adjacent and a bus stop fronting the site. Forest Road is a key collector road that runs north – south through the area.
4	14 th – 15 th June & 28 th July 2019	7:00AM – 6:00PM	2003	This site is located amongst retail and commercial uses in the heart of Surry Hills. Adjacent to a Coles, the site is accessed via Cleveland Street which is a key collector road that runs east to west to the University of Sydney.
5	14 th – 15 th June & 28 th July 2019	9:00AM – 5:00PM	2008	The site is surrounded by low density residential with access via Balgownie Road which is a key collector road that runs east to west through the area. There is a bus stop fronting the site and is located at the Balgownie Road / Foothills Road roundabout.
6	14 th – 16 th June 2019	7:30AM – 5:00PM	2007	The site is located within a medium density residential area bounded by the Pacific Highway which is an arterial road that runs into Newcastle from the south west.
7	14 th – 15 th June & 28 th July 2019	8:00AM – 5:30PM	2003	The site is located on the outskirts of the key retail area surrounded by medium density residential. The site is accessed via the Cumberland Highway which is an arterial road that runs east to west through the area.
8	14 th – 15 th June & 28 th July 2019	8:00AM – 5:30PM (weekdays) 8:00AM – 5:00PM (weekends)	2003	The site is within a retail precinct with surrounding residential areas. The site gains access via the Great Western Highway which is an arterial road that runs east to west from Sydney city to the western suburbs.

9	14 th – 15 th June & 28 th July 2019	7:30AM – 5:00PM (weekdays) 8:00AM – 5:00PM (weekends)	2003	The site is a part of a small shopping village, surrounded by low density residential. The site is bounded by President Avenue to the south which is key collector road that roads east to west.
10	14 th – 15 th June & 28 th July 2019	8:00AM – 5:00PM	2008	The site is located amongst retail and medium density residential uses. Access is gained via the Princes Highway which is an arterial road that runs north to south through Wollongong.
11	14 th – 16 th June 2019	6:00AM – 7:00PM	2009	The site is located within the retail and commercial precinct and is located on the corner of a key collector road that runs from the north – south from Sydney Airport.
12	14 th – 15 th June & 28 th July 2019	8:00AM – 6:00PM	2007	The site is located within a medium density residential area that is bounded by an arterial road that runs east to west through the area.
13	14 th – 15 th June & 28 th July 2019	8:00AM – 4:00PM	2007	The site is located amongst retail and residential uses on the outskirts of Penrith. Access is gained via a local road and the railway line runs north of the site.
14	14 th – 15 th June & 28 th July 2019	8:00AM – 4:45PM	2003	The site is located on the key arterial road that runs through the island and is surrounded by retail and residential uses.
15	14 th – 16 th June 2019	8:00AM – 6:00PM	2003	The site is located amongst retail and residential uses and is accessed via the key arterial road that runs east to west.

3.2 Data Collection Surveys

The following data was collected during the surveys:

- Number of entering and exiting vehicles (cars/heavy vehicles) (in 15-minute periods)
- Number of vehicle occupants (in 15-minute periods) – where possible
- Number of pedestrians and cyclists (in 15-minute periods)
- An automatic tube count of all vehicles along the principal frontage access road, to allow for the determination of the relevant 1-hour AM and PM background traffic peak periods.

In addition to the above data, customers surveys were undertaken at **Site 1 only** and included five (5) questions aimed at determining customer mode of transport and trip purpose. The questions included:

1. “What mode of transport did you use to get here? (Car – Driver/ Passenger, Bus, Train, Taxi/Uber, Walking or Cycling)
2. “If arrived by car, is the vehicle parked on site or elsewhere?”
3. “Are you a customer or staff?”
4. “Have you visited, or will you visit any other venues before and /or after the car wash/café?”
5. “How long is your visit to the car wash today? (i.e. 5-10mins, 10-30mins, 30-1hr, 1-2hr, 2-5hrs)”.

3.3 Site Information

The following site information was collected for each site (where available):

- Breakdown of on-site car parking allocation and provisions

- Available off-street parking
- Site area
- Café floor area
- Type and number of car wash bays
- Number of entry/ exist points
- Approximate café seating.

3.3.1 Collection Methods

The data was collected using three (3) different sources, as follows:

- By contacting the centre manager / owner
- By manually researching information and review aerial imagery
- Through survey information collected by TDC.

Due to the limited participation of sites the range of information and data about each site and its operations was limited. The majority of site information relies on publicly available Development Application documents and aerial/street-view imagery.

Owners of Site 1 provided some additional information regarding on site operations, including the observation that their café provides for a significant 'rush' or 'peak' of coffee and breakfast demand early in the morning (around 6am) due to the beginning/end of shift work at the large nearby mines in Muswellbrook.

3.3.2 Survey Data

During the collection of survey data, it rained on Sunday 16th June 2019 which influenced the survey data as majority of sites were either partially or fully closed for the day or had limited customers. As such, data collected didn't adequately represent a typical Sunday. The surveys were repeated on Sunday 28th July 2019 when the weather was fine. After the resurveying of sites, the survey data for Friday, Saturday and Sunday adequately represented the typical operations and traffic volumes for the site locations.

4. SURVEY RESULTS

4.1 Overview

A large amount of survey data was collected from each site. This report contains a summary of select data. Alongside daily trip data, each site's AM and PM peak periods are reviewed on a weekday (Friday) and a daily peak period is reviewed on the weekends (Saturday & Sunday). Preliminary data summaries for all the sites are contained in **Appendix A** and include site information, trip generation derived from traffic counts and road frontage traffic counts. Complete survey data sets for individual sites, as completed by TDC, are provided in **Appendix B**.

4.2 Preliminary Analysis and Key Statistics

Key outputs of the surveys including factors that impact the road network such as, vehicle trip generation, development and frontage road peak periods, site area, number of car wash bays and pedestrian trips have been summarised in this section.

During the preliminary analysis it was noted that there is an unusually high peak period for Site 1 (Muswellbrook) from 6:00AM – 7:00AM, sitting as an outlier compared to other Sites during the same period. This is likely due to the surrounding area's population demographics as many miners travel through the area early in the morning and the car wash café. Site 1 has therefore been split into two categories to exclude the unusual early morning peak when analysing the peak periods to establish any trend impacts. Site 1.1 represents 6:00AM – 7:00PM and Site 1.2 represents 8:00AM – 7:00PM.

4.2.1 Initial Site Analysis

An initial site analysis was undertaken to identify any overarching trends within the survey data that will inform further detailed analysis and regression models to be completed in the subsequent corresponding Analysis Report.

A comparison between Friday, Saturday and Sunday peak and daily vehicle trips was undertaken, shown in Figure 4.1 and Figure 4.2 respectively, to establish if any trip demand profile could be found. It was found that trip generation was mostly consistent across both weekend days.

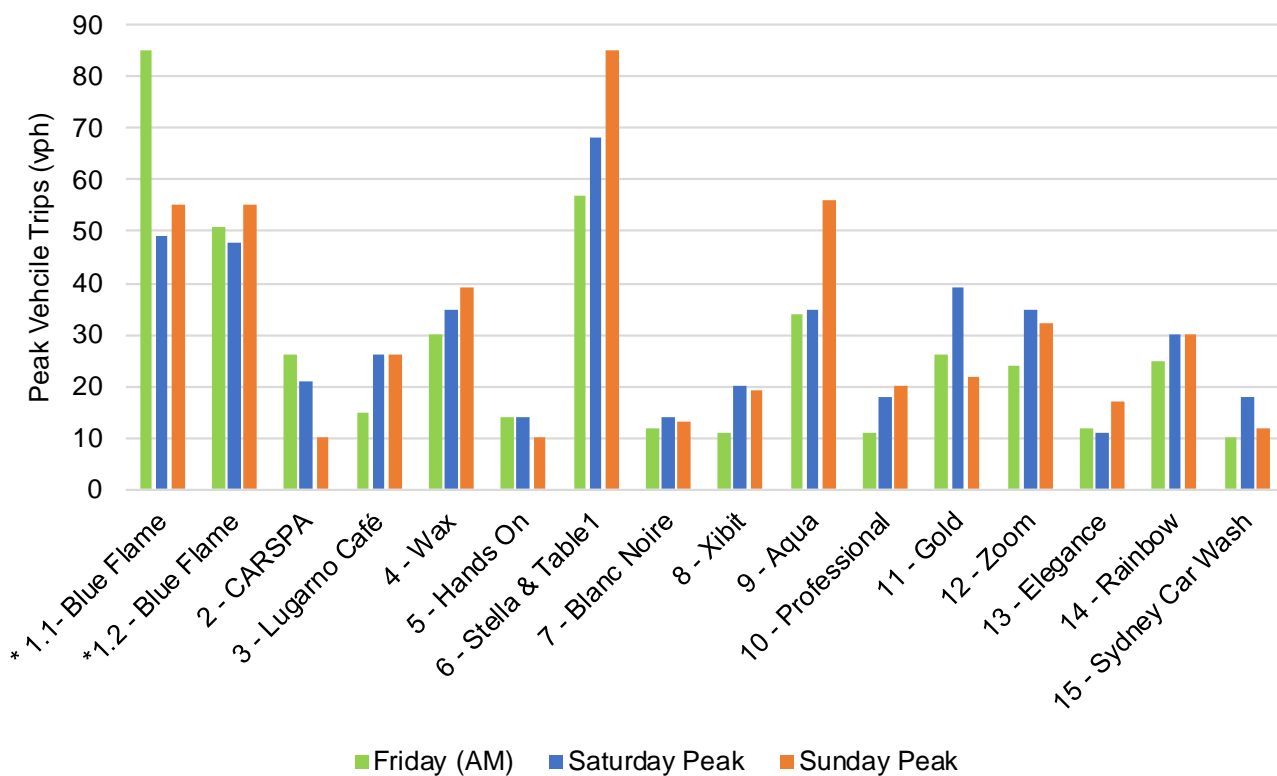


Figure 4.1: Peak Vehicle Trips Comparison

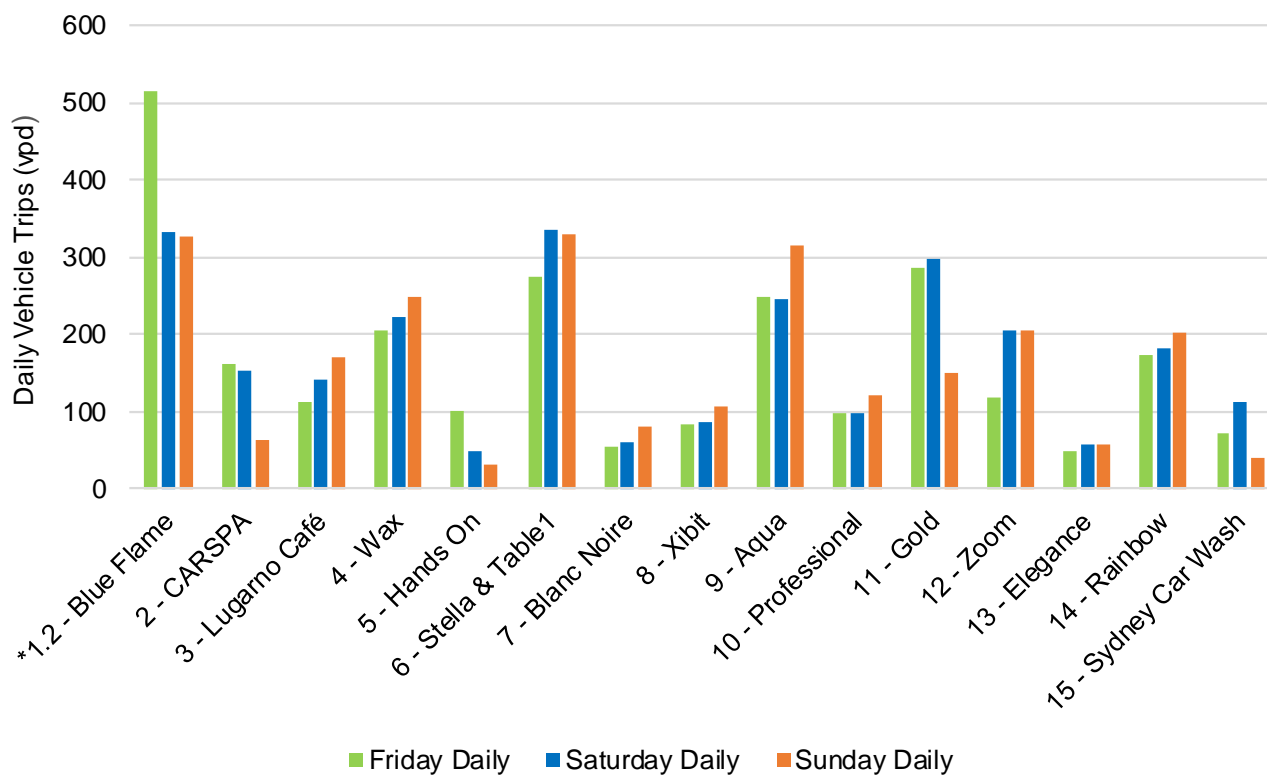


Figure 4.2: Daily Vehicle Trips Comparison

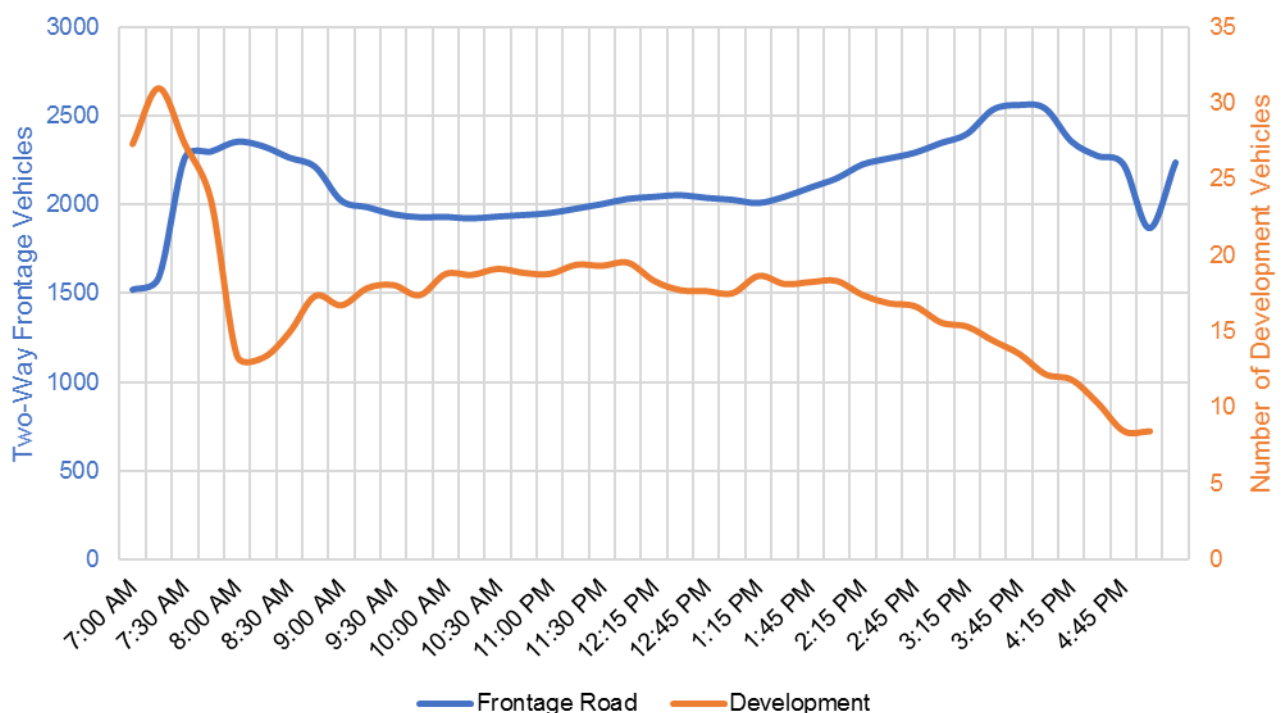
Generally, weekends showed a higher volume of trips, with the exception of Site 1.

Additional initial comparisons of the survey data were undertaken considering site area, number of wash bays and level of frontage road traffic to establish any overarching trends. While some relationship with levels of frontage road traffic was seen at some sites, no clear overarching data trends became apparent during initial analysis. The following sections summarise survey data results for comparison.

4.2.2 Friday Survey Data

Surveys conducted for sites on a Friday have been examined to identify key findings and trends in trip generation and associated factors. Complete site data details can be found at **Appendix A**.

The following Figure 4.3 combines sites surveyed on Friday and compares the average hourly traffic for all sites with the respective average adjacent frontage road traffic volumes. Due to the variability of site operation hours the “typical” average hours have been applied for the below comparison.



* The average two-way frontage traffic for all sites has been in this graph (including those vehicles unable to access survey sites directly)

Figure 4.3: Average Friday Development and Frontage Road Traffic Volumes (7am – 5pm)

Examination of data indicates that Friday morning (AM) one-hour peak periods are typically between 7:00AM – 8:00AM, while the average afternoon (PM) one-hour peak occurs between 1:00PM – 2:00PM. Sites are noted to have a high early morning peak period.

A common trend across all sites is the reducing trip volumes into the afternoon.

As shown in Table 4.1, the AM and PM peak period varies across all the sites.

Table 4.1: Trip Data Summary – Friday

Site #	Development AM Peak	Development PM Peak	Frontage Access Road AM Peak*	Frontage Access Road PM Peak*	Daily Vehicle Trips	AM Peak Hour Trips per 100m ² Site Area	PM Peak Hour Trips per 100m ² Site Area	AM Trips per Car Wash Bay	PM Trips per Car Wash Bay	AM Trips per Parking Space	PM Trips per Parking Space	AM Trips per 100 veh on Frontage Access Road	PM Trips per 100 veh on Frontage Access Road
1	8:45 AM	11:45 AM	11:00 AM	12:00 PM	514	2.8	3.2	12.8	14.3	5.1	5.7	8.9	4.0
2	10:00 AM	12:15 PM	7:30 AM	3:15 PM	163	1.7	1.7	2.9	2.9	2.4	2.4	0.9	0.8
3	10:30 AM	12:30 PM	8:15 AM	3:45 PM	112	2.0	2.4	3.8	4.5	3.8	4.5	2.4	2.8
4	10:45 AM	2:15 PM	8:00 AM	5:00 PM	206	3.2	3.4	6.0	6.4	7.5	8.0	1.6	1.5
5	11:00 AM	3:15 PM	9:00 AM	3:00 PM	102	2.1	3.5	4.7	7.7	2.0	3.3	4.0	5.1
6	9:30 AM	11:30 AM	7:45 AM	3:30 PM	274	3.4	2.0	14.3	8.5	2.5	1.5	3.7	2.2
7	9:00 AM	11:45 AM	10:45 AM	2:30 PM	55	1.5	1.0	3.0	2.0	2.4	1.6	0.3	0.2
8	10:30 AM	2:30 PM	11:00 AM	1:30 PM	83	1.1	1.4	2.8	3.5	2.8	3.5	0.4	0.6
9	10:45 AM	2:00 PM	8:00 AM	3:30 PM	249	3.2	3.5	5.7	6.2	1.9	2.1	1.7	1.4
10	11:30 AM	1:00 PM	8:00 AM	3:15 PM	99	1.3	2.9	2.8	6.0	3.7	8.0	0.6	1.3
11	10:15 AM	2:30 PM	8:15 AM	3:00 PM	285	2.6	3.3	2.9	3.7	13.0	16.5	1.5	1.6
12	10:30 AM	12:45 PM	9:15 AM	3:45 PM	119	2.3	2.0	3.4	3.0	4.0	3.5	1.2	1.0
13	8:45 AM	12:00 PM	8:15 AM	3:00 PM	48	1.1	0.8	2.0	1.5	3.0	2.3	1.4	1.1
14	10:30 AM	1:30 PM	8:00 AM	3:30 PM	174	2.3	2.5	4.2	4.7	2.5	2.8	0.7	0.7
15	10:30 AM	12:30 PM	8:00 AM	4:00 PM	72	1.1	1.2	3.3	3.7	3.3	3.7	0.4	0.4

*Frontage Traffic: Traffic fronting a surveyed site that has the ability to access that site (i.e. where a median exists in the frontage road only one-way traffic volumes are applied), unless otherwise stated.

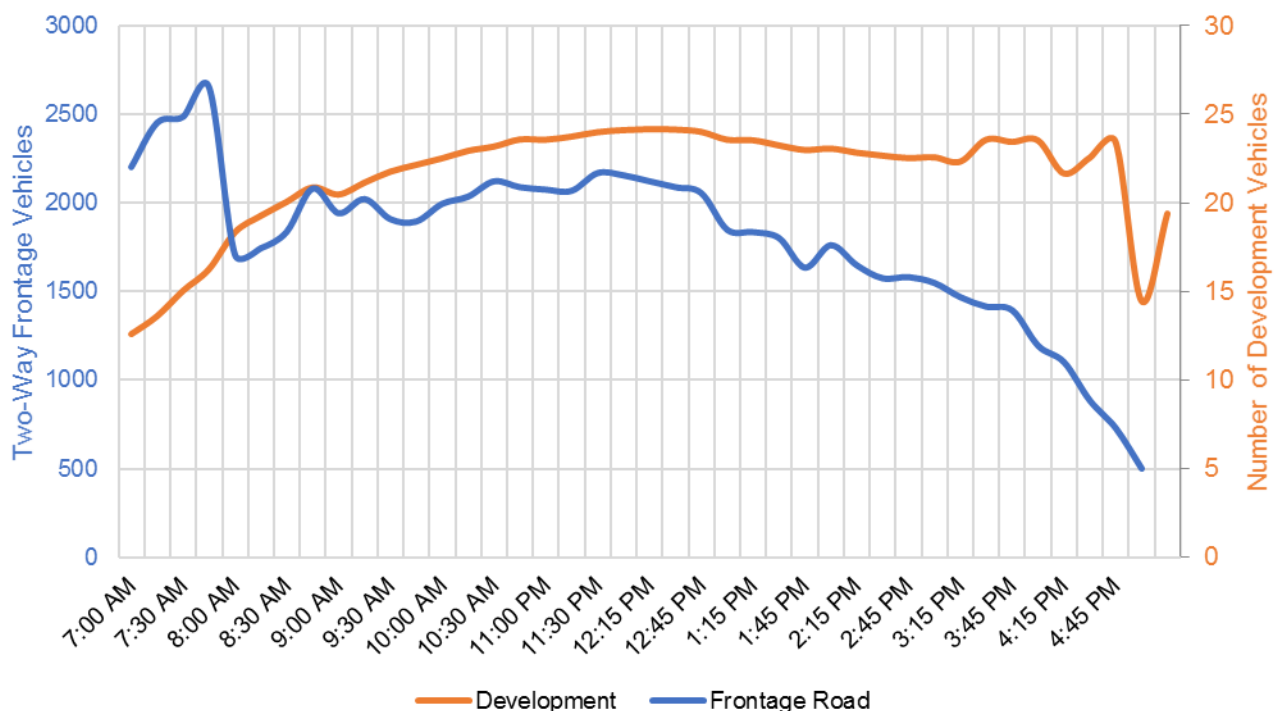
Initial examination of the Friday data for all the sites indicates that:

- When compared to the frontage road peak periods, the sites' peak periods typically differed by 1-2 hours
- The AM peak vehicle trips per car wash bay have an average of 4.95, with data points ranging from 2.00 to 14.25
- The PM peak vehicle trips per car wash bay have an average of 5.22, with data points ranging from 1.50 to 14.25
- The AM peak have an average of 1.97 vehicle trips per 100 vehicles passing on the frontage road, with data points ranging from 0.33 to 8.90 (as outlined in Section 1.3, frontage road volumes used in trip rate calculations account for local access restrictions)
- The PM peak have an average of 1.65 vehicle trips per 100 vehicles passing on the frontage road, with data points ranging from 0.21 to 5.12 (as outlined in Section 1.3, frontage road volumes used in trip rate calculations account for local access restrictions)
- The AM peak period for Site 1 occurs approximately 2 hours earlier than the next peak period
- AM peak trip rates were noted to be higher than those during the PM peak for vehicle trips.

4.2.3 Saturday

Surveys conducted for sites on a Saturday have been examined to identify key findings and trends in trip generation and associated factors. Complete site data details can be found at **Appendix A**.

The following Figure 4.4 combines sites surveyed on Saturday and compares the average hourly traffic for all sites with the respective average adjacent frontage road traffic volumes. Due to the variability of site operation hours the "typical" average hours have been applied for the below comparison.



* The average two-way frontage traffic for all sites has been in this graph (including those vehicles unable to access survey sites directly)

Figure 4.4: Average Saturday Development and Frontage Road Traffic Volumes

Examination of data indicates that development average Saturday one-hour peak period is typically between 7:00AM – 8:00AM, while the average frontage road one-hour peak typically occurs between 12:00PM – 1:00PM. As shown in Table 4.2, the peak period varies across all the sites.

Table 4.2: Trip Data Summary – Saturday

Site #	Daily Development Peak	Frontage* Access Road Daily Peak	Daily Vehicle Trips	Peak Hour Trips per 100m ² Site Area	Daily Trips per Car Wash Bay	Daily Trips per Parking Space	Daily Trips per 100 veh on Frontage Access Road
1	9:15 AM	11:30 AM	331	2.7	4.0	12.0	16.6
2	1:00 PM	12:45 PM	152	1.4	2.3	1.9	0.5
3	11:45 AM	4:30 PM	142	3.4	6.5	6.5	2.5
4	8:00 AM	12:45 PM	224	3.7	7.0	8.8	1.9
5	10:45 AM	9:15 AM	50	2.1	4.7	2.0	3.7
6	8:45 AM	12:00 PM	335	4.0	17.0	3.0	4.1
7	11:45 AM	12:00 PM	62	1.7	3.5	2.8	0.3
8	3:45 PM	11:00 AM	87	2.0	5.0	5.0	0.8
9	11:15 AM	12:00 PM	246	3.3	5.8	1.9	1.1
10	10:45 AM	12:30 PM	97	2.2	4.5	6.0	0.9
11	12:15 PM	1:45 PM	298	3.9	4.3	19.5	2.0
12	1:45 PM	1:00 PM	206	3.4	5.0	5.8	1.4
13	11:00 AM	12:30 PM	59	1.0	1.8	2.8	1.3
14	12:30 PM	1:45 PM	183	2.7	5.0	3.0	0.7
15	10:00 AM	4:15 PM	113	2.0	6.0	6.0	0.6

*Frontage Traffic: Traffic fronting a surveyed site that has the ability to access that site (i.e. where a median exists in the frontage road only one-way traffic volumes are applied), unless otherwise stated.

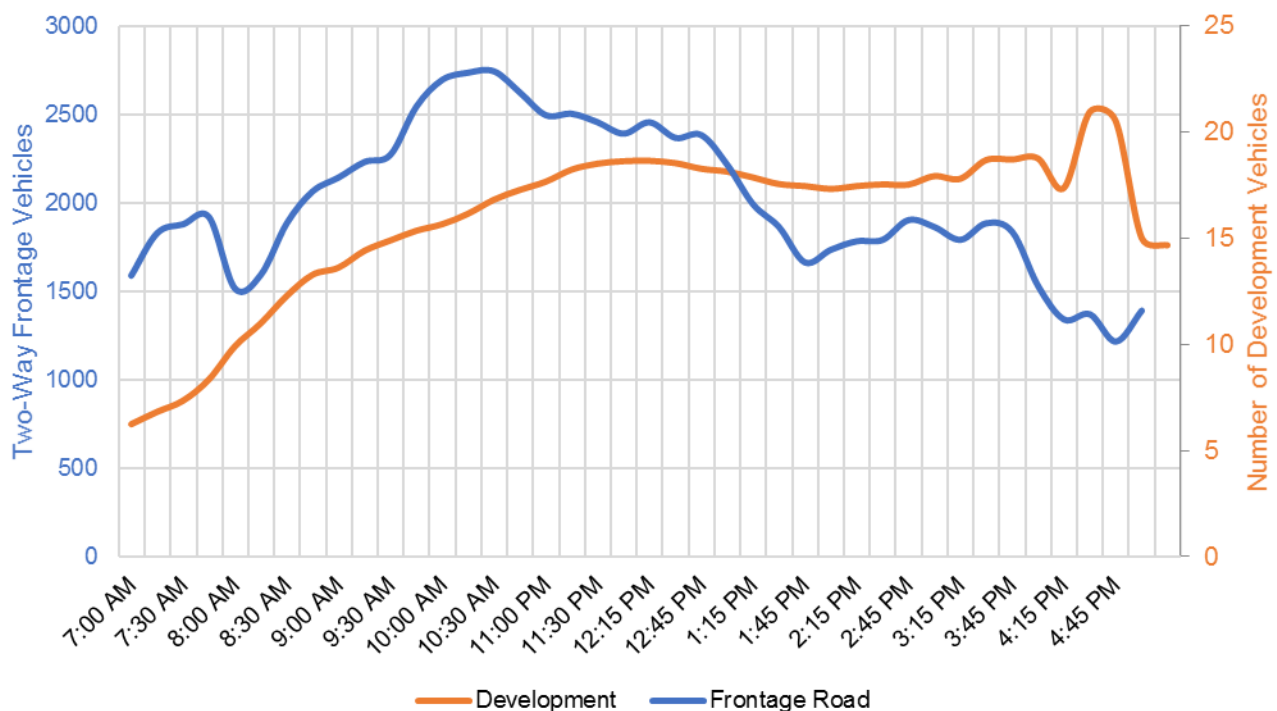
Initial examination of the Saturday data for all sites indicates that:

- When compared to the frontage road peak periods, the sites' peak periods typically differed by 1-2 hours
- The peak vehicle trips per car wash bay have an average of 5.5, with data points ranging from 1.83 to 17
- The peak vehicle trips per frontage road volumes have an average of 2.55, with data points ranging from 0.3 to 16.60 (as outlined in Section 1.3, frontage road volumes used in trip rate calculations account for local access restrictions)
- The peak period for Site 1 occurs approximately 1 hour earlier than the next peak period. Saturday peak trip rates are higher than those during weekday AM peak periods for vehicles.

4.2.4 Sunday

Surveys conducted for sites on a Sunday have been examined to identify key findings and trends in trip generation and associated factors. Complete site data details can be found at **Appendix A**.

The following Figure 4.5 combines sites surveyed on Sunday and compares the average hourly traffic for all sites with the respective average adjacent frontage road traffic volumes. Due to the variability of site operation hours the "typical" average hours have been applied for the following comparisons.



* The average two-way frontage traffic for all sites has been in this graph (including those vehicles unable to access survey sites directly)

Figure 4.5: Average Sunday Development and Frontage Road Traffic Volumes

Examination of data indicates that average Sunday one-hour peak periods are between 7:00AM – 8:00AM, while the average frontage road one-hour peak occurs between 12:00PM – 1:00PM. As shown in Table 4.3, the peak period varies across all the sites.

Table 4.3: Trip Data Summary – Sunday

Site #	Daily Development Peak	Frontage* Access Road Daily Peak	Daily Vehicle Trips	Peak Hour Trips per 100m ² Site Area	Daily Trips per Car Wash Bay	Daily Trips per Parking Space	Daily Trips per 100 veh on Frontage Access Road
1	10:30 AM	2:45 PM	514	3.1	4.6	13.8	7.7
2	8:45 AM	11:45 AM	163	6.5	1.1	0.9	0.5
3	11:30 AM	12:15 PM	112	3.4	6.5	6.5	3.0
4	11:45 AM	1:45 PM	206	4.1	7.8	9.8	2.0
5	12:30 PM	12:15 PM	102	1.5	3.3	1.4	2.9
6	10:00 AM	12:15 PM	274	5.0	21.3	3.7	6.1
7	11:00 AM	3:45 PM	55	1.6	3.3	2.6	0.3
8	12:30 PM	12:00 PM	83	1.9	4.8	4.8	0.7
9	11:15 AM	12:30 PM	249	5.3	9.3	3.1	2.2
10	10:00 AM	11:30 AM	99	2.4	5.0	6.7	1.4
11	4:30 PM	12:45 PM	285	2.2	2.4	11.0	1.3
12	2:45 PM	1:30 PM	119	3.1	4.6	5.3	1.5
13	12:45 PM	1:00 PM	48	1.5	2.8	4.3	2.3
14	2:00 PM	12:15 PM	174	2.7	5.0	3.0	0.7
15	3:15 PM	12:00 PM	72	1.3	4.0	4.0	0.5

*Frontage Traffic: Traffic fronting a surveyed site that has the ability to access that site (i.e. where a median exists in the frontage road only one-way traffic volumes are applied), unless otherwise stated.

Initial examination of the Sunday data for all sites indicates that:

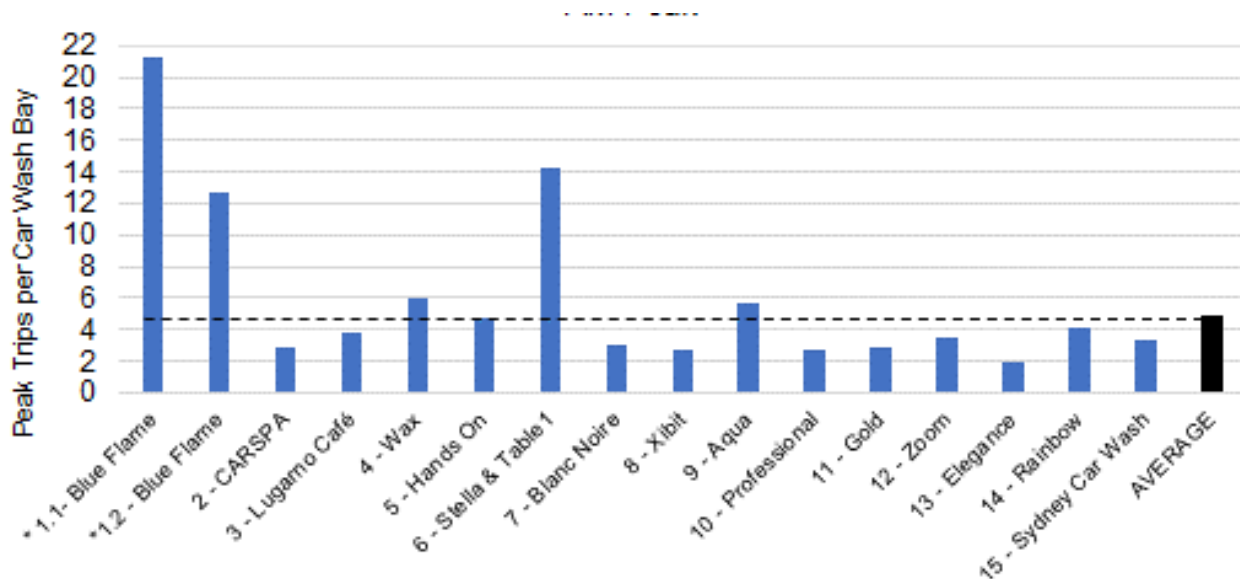
- When compared to the frontage road peak periods, the sites' peak period differed by 8 hours
- The peak vehicle trips per car wash bay have an average of 5.71, with data points ranging from 1.11 to 21.25
- The peak vehicle trips per frontage road volumes have an average of 2.2, with data points ranging from 0.27 to 7.69 (as outlined in Section 1.3, frontage road volumes used in trip rate calculations account for local access restrictions)
- The peak period for Site 1 occurs approximately 2 hours later than the first peak period Sunday peak trip rates are lower than those during Saturday for vehicles.

4.3 Survey Sites Peak Period Trip Comparison

In Section 4.3, peak period comparisons of the potential contributing factors that influence traffic generation across each site are presented. These include vehicle trip rates per car wash bay and per 100 vehicles on frontage road. Other contributing factors, including site area and parking bays are included within **Appendix A** for each site.

It is noted that both Site 1.1 and 1.2 have been included in the peak period trip comparison for Friday, Saturday and Sunday to provide a comparative analysis and remove the unusually high early morning Site 1 outlier data point.

Figure 4.6, Figure 4.7, Figure 4.8 and Figure 4.9 compare the traffic generation across each site per car wash bay, including an average for comparison, for the Friday, Saturday and Sunday peak periods respectively.



* 1.1 Includes entire day

* 1.2 Excludes 6:00AM – 8:00AM

Figure 4.6: Friday Vehicle Trip Rate (per Car Wash bay) AM Peak Period

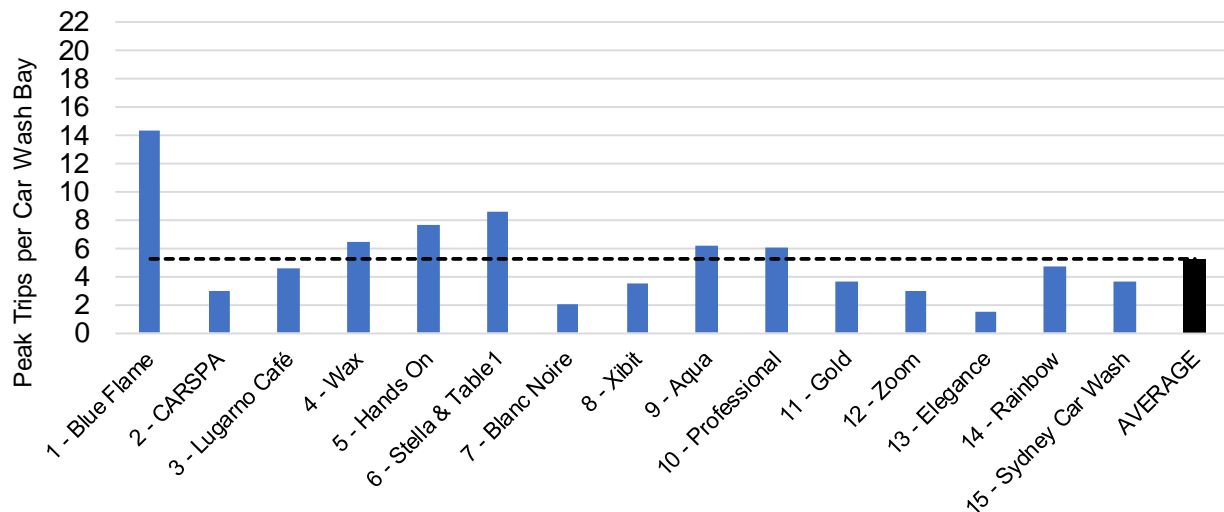


Figure 4.7: Friday Vehicle Trip Rate (per Car Wash bay) PM Peak Period

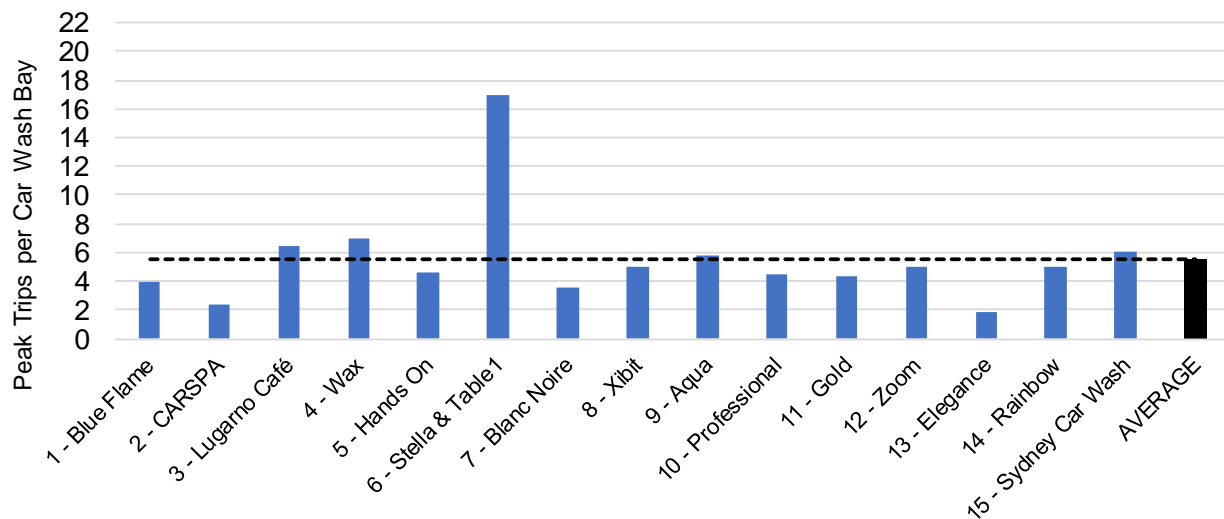


Figure 4.8: Saturday Vehicle Trip Rate (per Car Wash bay) Peak Period

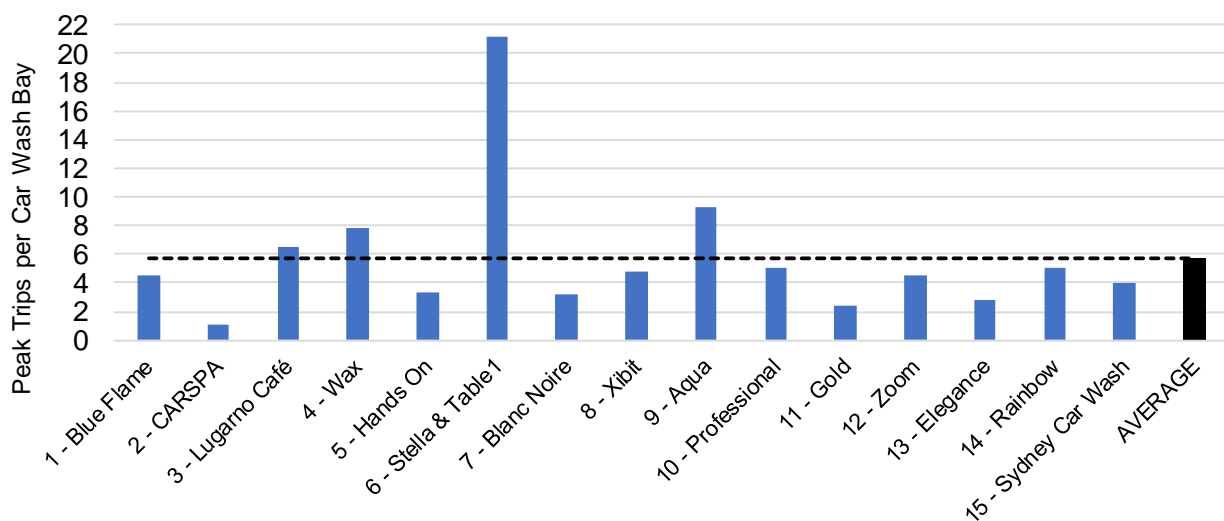


Figure 4.9: Sunday Vehicle Trip Rate (per Car Wash bay) Peak Period

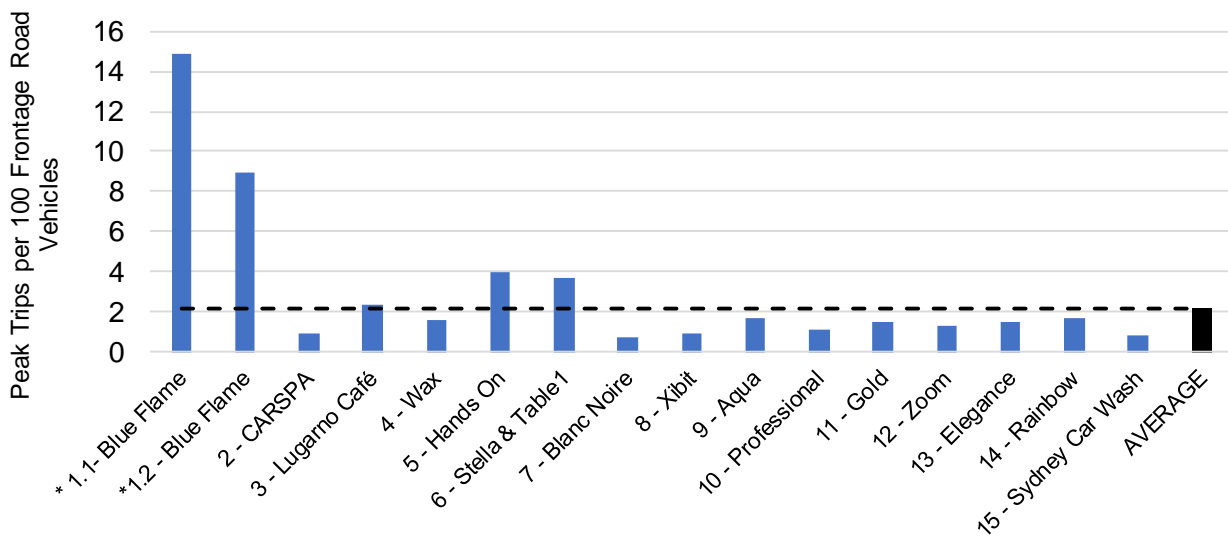
Initial examination of the above shows that:

- Trip generation rates per car wash bay appear inconsistent across all sites with no clear trends

- During the weekends, sites show higher vehicle trip generation on average than the weekday peak periods
- Sites 1 and 6 have significantly higher trip generation rates compared to other sites based on the high number of total vehicle trips and the low number of car wash bays.

4.3.1 Trips per Frontage Access Road Traffic

Figure 4.10, Figure 4.11, Figure 4.12 and Figure 4.13 compare the traffic generation across each site per frontage road traffic including an average for comparison, for the Friday, Saturday and Sunday peak periods respectively. Note that frontage traffic refers to traffic fronting a surveyed site that has the ability to access that site (i.e. where a median exists in the frontage road only one-way traffic volumes are applied), unless otherwise stated.



* 1.1 Includes entire day

* 1.2 Excludes 6:00AM – 8:00AM

Figure 4.10: Friday Vehicle Trip Rate (per 100 Vehicles on Frontage Access Road) AM Peak Period

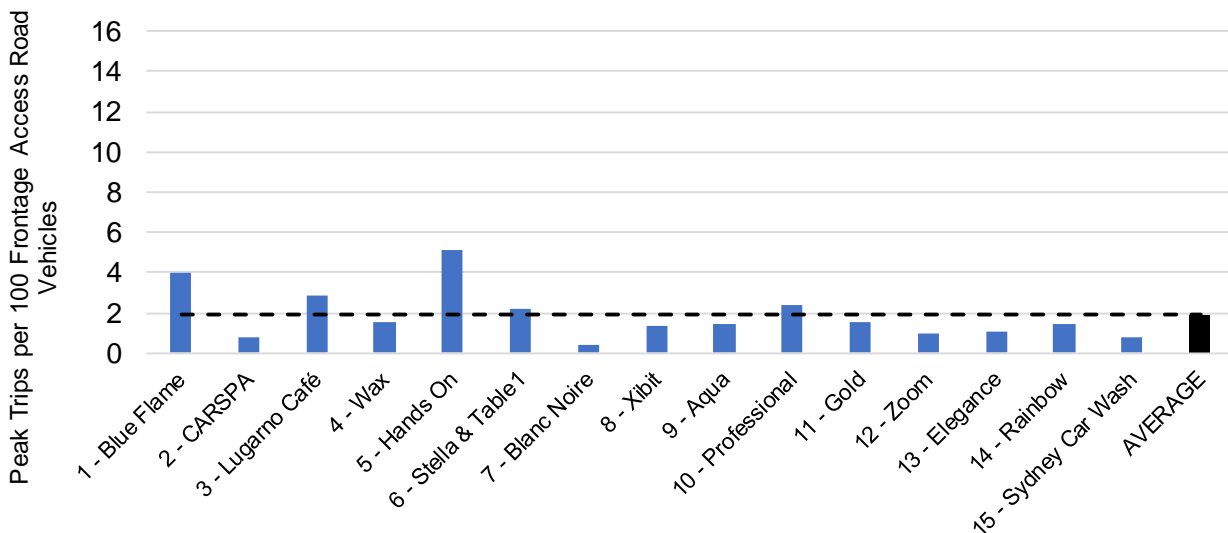


Figure 4.11: Friday Vehicle Trip Rate (per 100 Vehicles on Frontage Road) PM Peak Period

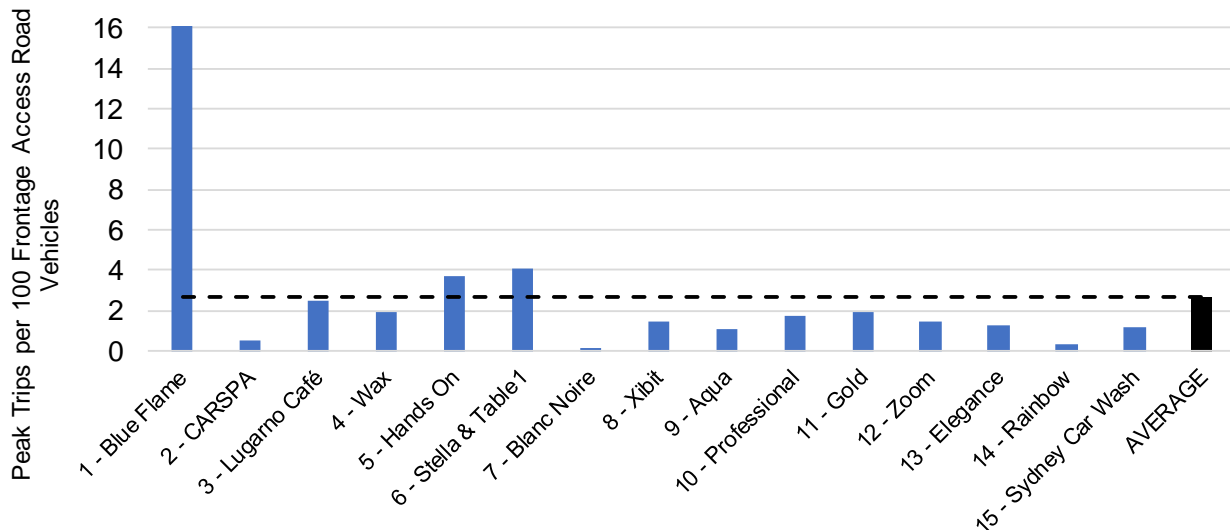


Figure 4.12: Saturday Vehicle Trip Rate (per 100 Vehicles on Frontage Access Road) Peak Period

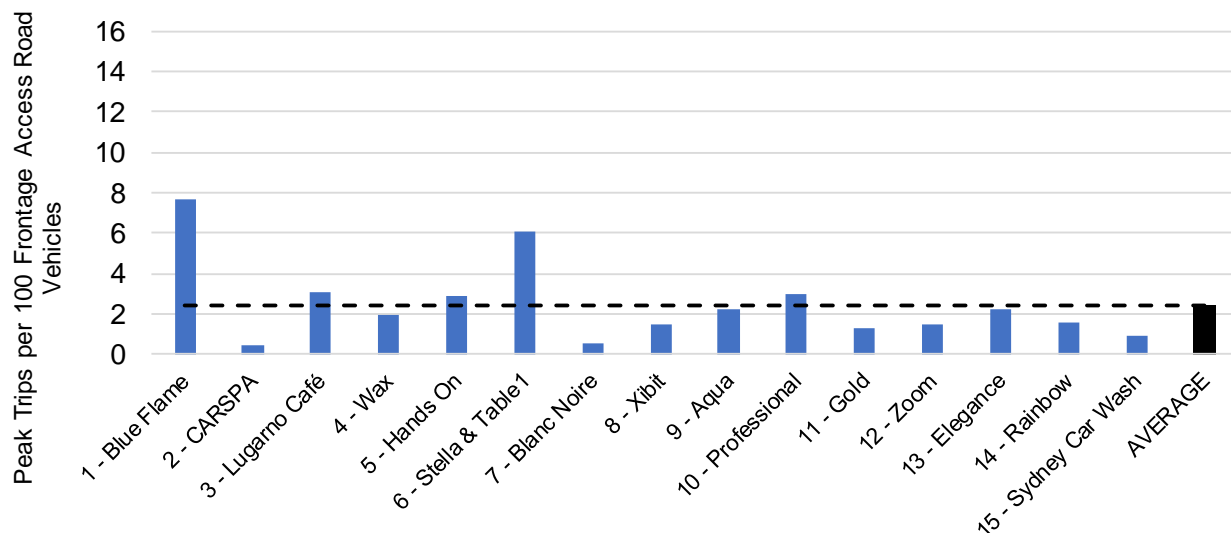


Figure 4.13: Sunday Vehicle Trip Rate (per 100 Vehicles on Frontage Access Road) Peak Period

Initial examination of the above shows that:

- Trip generation rates per frontage road traffic volumes appear inconsistent across all sites with no clear trends
- During the weekends, sites show higher vehicle trip generation on average than the weekday peak periods

Site 1 has a significantly higher trip generation rate in the AM on Friday and Saturday compared to the other sites due to the low number of vehicles on the frontage road.

4.4 Additional Survey Data

The additional survey data includes customer survey responses, linked trips and trip split data. As shown below, only Site 1 includes the customer survey responses and linked trips.

4.4.1 Customer Survey Responses

The number of responses to customer surveys for Site 1 are as follows:

- Friday – 32
- Saturday – 27
- Sunday – 27.

Further detailed analysis of customer survey responses is provided within the Analysis Report.

4.4.2 Linked Trips

The percentage of 'linked trips' where a customer was visiting another location as part of the trip to the car wash cafe was surveyed for Site 1 as part of the manual questionnaire. Average trip percentages for Friday, Saturday and Sunday are as follows:

- Friday – 75% linked trips
- Saturday – 67% linked trips
- Sunday – 81% linked trips.

4.4.3 Trip Split Data

Average Inbound and Outbound (IN/OUT) trip movements for each survey day for all the sites are shown in Figure 4.14, Figure 4.15 and Figure 4.16.

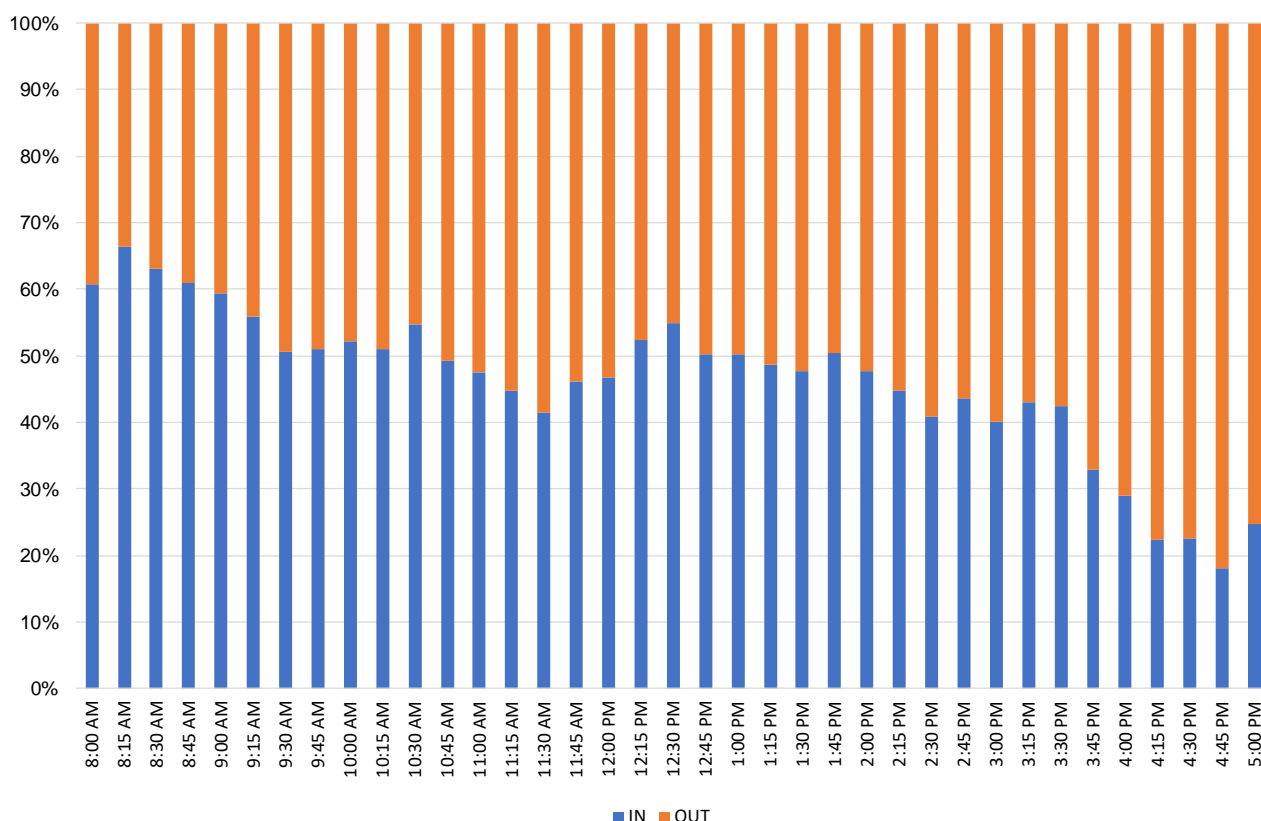


Figure 4.14: Average IN/OUT Trip Splits – Friday

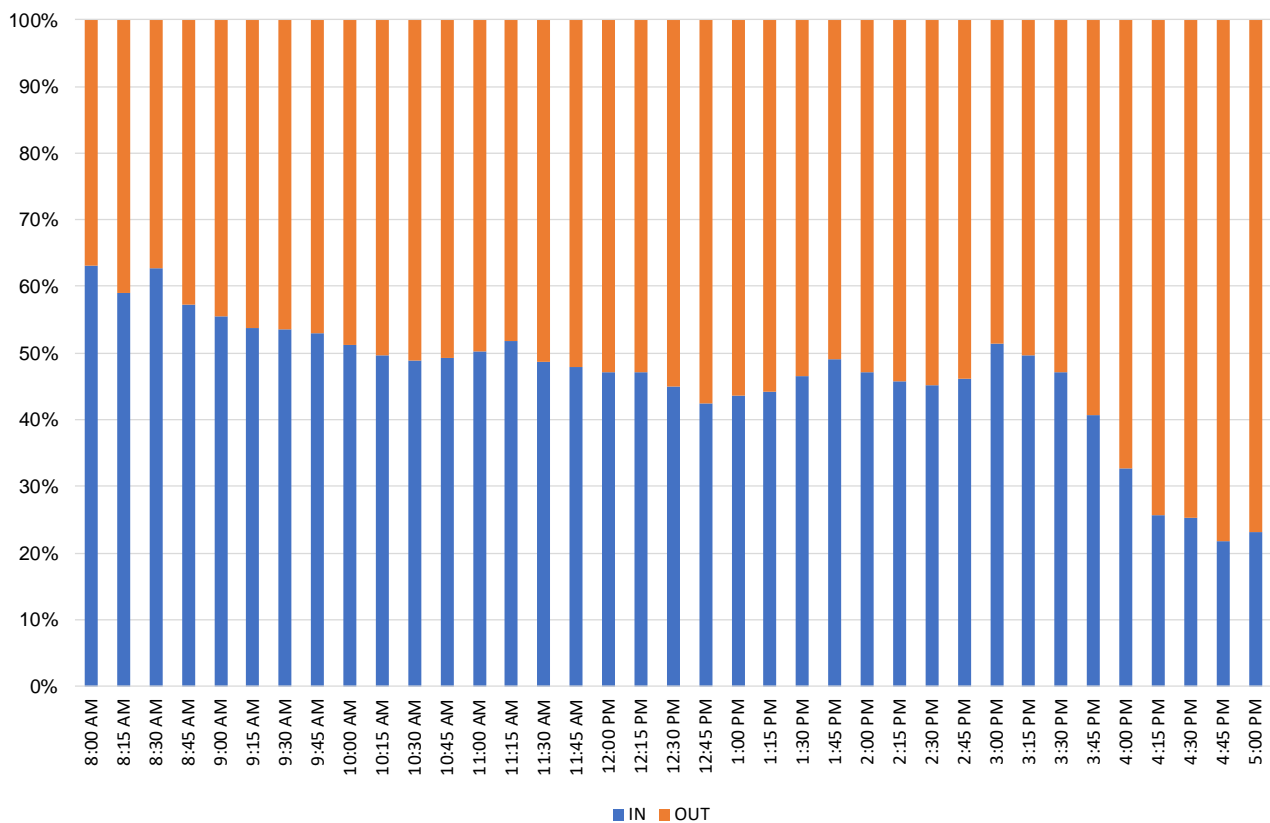


Figure 4.15: Average IN/OUT Trip Splits – Saturday

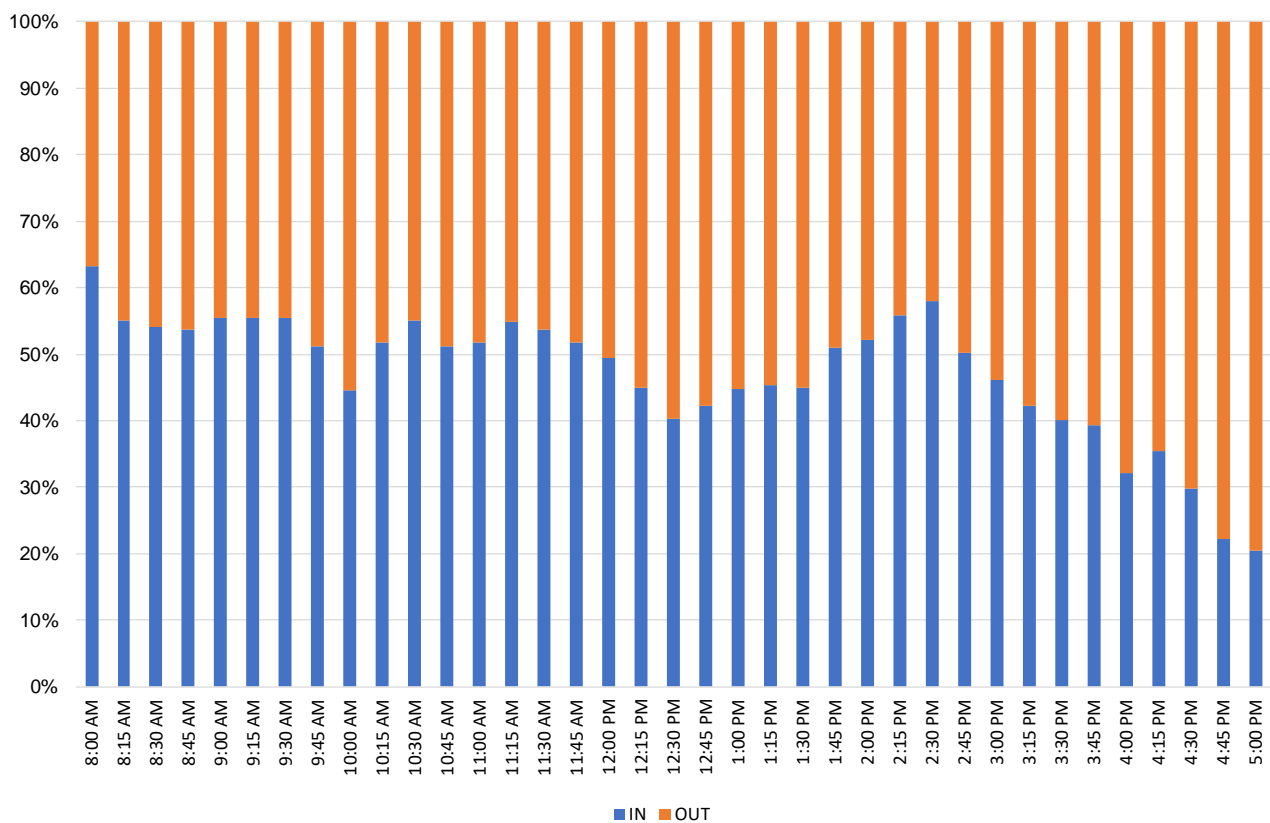


Figure 4.16: Average IN/OUT Trip Splits - Sunday

Table 4.4 below summarises the average IN/OUT split during the average peak periods across all 15 sites.

Table 4.4: Average IN/OUT Trip Splits during Peak Periods

	Friday	Friday	Saturday	Sunday
Split	AM Peak (10:15AM – 11:15AM)	PM Peak (1:00PM – 2:00PM)	Daily Peak (11:15AM – 12:15PM)	Daily Peak (12:15PM – 1:15PM)
IN	51%	50%	52%	45%
OUT	49%	50%	48%	55%

Initial examination of the above data shows that:

- Morning periods show the largest proportion of inbound movements while the afternoon shows the highest proportion of outbound movements. The arrival/departures of staff may influence this trend
- Across the middle of the day IN/OUT movements appear to sit at a typical 50/50, particularly on Saturday.

5. CONCLUSIONS

The 15 car wash café sites that were surveyed across Sydney (9) and regional areas including Newcastle (2), Wollongong (2) and Sutherland (2), captured the potential differences that might arise in trip generation. Manual surveys were undertaken at Site 1 and included survey questionnaires to determine typical customer modal choices and behaviours.

For each site network peak hours, site peak hours, site peak trips, peak period trips per car wash bay and peak vehicle trips per frontage road traffic were tabulated. Average hourly vehicles movements compared to average frontage road traffic was also provided.

The preliminary data analysis included comparison of the development specific average hourly traffic volume with the average adjacent frontage road traffic volumes for Friday, Saturday and Sunday. This indicated the following:

- Sites are noted to typically have the highest number of trips during the early morning period
- A common trend across all sites and survey days is the reasonably steady reduction of trip volumes into the afternoon.

Additionally, to understand the contributing factors that influence traffic generation across each site, peak period comparisons were undertaken. These include vehicle trip rates per car wash bay and per 100 vehicles on frontage road. This identified the following:

- Trip generation rates appear inconsistent across all sites with no clear trends
- During the weekends, sites show higher vehicle trip generation on average than the weekday peak periods
- Sites 1 and 6 are have significantly higher trip generation rates compared to other sites based on the high number of total vehicle trips and the low number of car wash bays
- Site 1 has a significantly higher trip generation rate in the AM on Friday and Saturday compared to the other sites due to the low number of vehicles on the frontage road and localised traffic trends (i.e. early morning mine shift change movements).

Based on the data presented in the report, there are many contributing factors that influence trip generation and as such, no definite trend was established during the preliminary analysis stage.

Appendix A: Survey Site Data Summary Sheets

Site 01 - Results Summary Sheet

42-50 Sydney Street, Muswellbrook

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	29th March 2019	6:00:00 AM	7:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data					
Activity Name	Blue Flame Café and Car Wash				
Land Use Description	Car Wash Café				
Local Authority (Council)	Muswellbrook Council				
Street Address and Suburb	42-50 Sydney Street, Muswellbrook				
Survey Site General Location	Suburbs				
Highest Classification of Frontage Road	Collector	Maitland Street (New England Highway)			
Frontage Road ADT	12635				
Pedestrian Activity	Low				
Public Transport Opportunities	Low				
Approximate Café Seating Capacity	unknown				
B. Parking					
Parking Spaces Provided On-Site	10				
Other Parking Spaces (On-Street/Off-Site)	0				
Staff Parking On-Site	0				
Other Staff Parking (On-Street/Off-Site)	0				
Peak Parking Demand	max occupied spaces				
Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff			
C. Trip Generation					
Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	6:00:00 AM	7:00:00 AM	
	In (vph)	43	Total		
	Out (vph)	42	85		
	PM Peak Period	Time	11:45:00 AM	12:45:00 PM	
	In (vph)	18	Total		
	Out (vph)	39	57		
	Daily	Time	6:00:00 AM	7:00:00 PM	
	Total In + Out (Vpd)	514			
	Peak trip Rate per 100m ² or other unit	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
	AM Peak Period	21.2500	4.7222	14.8342	
PM Peak Period	14.2500	3.1667	4.0197		
Daily	128.5000	28.5556	4.0681		
D. General Comments and Notes					
Site Characteristics/Notes	Daily Mode Split				
	Modal Split	Number	%		
	Total Private Vehicles	2316	91.7%		
	Car (as driver)	514	20.3%		
	Car (as passenger)	1802	71.3%		
	Taxi				
	Total Alt Trans (PT and Active)	210	8.3%		
	On Foot	186	7.4%		
	Bus				
	Cycle	24	1.0%		
TDC	Survey Contact	Fred Stone			
Survey Undertaken by (organisation):	TDC	Survey Undertaken by (surveyor):	Fred Stone		

C. Trip Generation	Site 1.2	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)				
						AM Peak Period	12.7500	2.8333	8.9005

Site Data	Number of Entry/Exits	5				
	Nearby Businesses	Puma Service Station / Car Servicing				
Area Characteristics	Surrounding land use	Service station, food and drink outlets and residential				
	Nearby on-street parking regime	No nearby on-street parking				
	Principal Adjacent road - Peak Period (Weekday)	AM	11:00 AM - 12:00 PM			
		PM	12:00 PM - 01:00 PM			
Traffic Generation	Frontage Road AM Peak Period	Time	11:00:00 AM	12:00:00 PM		
		Total	1289			
	Frontage Road PM Peak Period	Time	12:00:00 PM	1:00:00 PM		
		Total	1360			
	Frontage Road Daily	Time	7:30:00 AM	5:30:00 PM		
	Total	12635				
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak 1.1		AM Peak 1.2		
		8.50 trips per car space	5.10			
		PM Peak	5.70 trips per car space			
		Daily	51.40 trips per car space			
		Development Trips during Frontage Road Peaks	AM Peak	11:00:00 AM	12:00:00 PM	
		34				
		PM Peak	12:00:00 PM	1:00:00 PM		
		46				
	Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	8.50	Trips per car space	note parking spaces estimated based on aerials	
PM Peak 1-hour Vehicle-trips per Car Space		5.70	Trips per car space			
Daily Vehicle-trips per Car Space		51.40	Trips per car space			
Persons Trips	Daily Persons Trips (IN)	Car Based	263	Total	317	
		Other	54			
	Average number of Persons per hour	24				
	Person Trips at Vehicle Peak Hour	Daily Peak				
		102				
	Persons Trips at Peak Hours	AM Vehicle Peak	6:00:00 AM	7:00:00 AM		
		102 Person Trips				
		PM Vehicle Peak	11:45:00 AM	12:45:00 PM		
		53 Person Trips				
		Pedestrian Peak	6:00:00 AM	7:00:00 AM		
	102					
		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
	Daily Peak Period	25.50	5.67	17.80		
	Daily	631.50	140.33	19.99		

Site 01 - Results Summary Sheet

42-50 Sydney Street, Muswellbrook

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	30th March 2019	6:00:00 AM	7:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	Yes		
A. Site Data	Activity Name	Blue Flame Café and Car Wash			
	Land Use Description	Car Wash Café			
	Local Authority (Council)	Muswellbrook Council			
	Street Address and Suburb	42-50 Sydney Street, Muswellbrook			
	Survey Site General Location	Suburb			
	Highest Classification of Frontage Road	Collector	Maitland Street (New England Highway)		
	Frontage Road ADT	46917			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
Approximate Café Seating Capacity	unknown				
B. Parking	Parking Spaces Provided On-Site	4			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA		Peak Parking Demand/ Employee	
		NA		NA	
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	7:15:00 AM	8:15:00 AM
			In (vph)	22	Total
			Out (vph)		
			27	49	
		Daily	Time	6:00:00 AM	7:00:00 PM
		Total In + Out (Vpd)	331		
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	4.0833	2.7222	16.9550
		Daily	27.5833	18.3889	56.8729
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	331	70.3%	
		Car (as driver)	1629	77.6%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	112	23.8%	
		On Foot	112	0.0%	
		Bus			
		Cycle	28	5.9%	
Survey Undertaken by (organisation):		TDC	Survey Contact	Fred Stone	
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	5			
	Nearby Businesses	Tuma Service Station / Car Servicing			
Area Characteristics	Surrounding land use	Service station, food and drink outlets and residential			
	Nearby on-street parking regime	No nearby on-street parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	11:30:00 AM	12:30:00 PM	
		Total	953		
	Frontage Road Daily	Time	6:00 AM	4:30 PM	
		Total	582		
	Development Peak - Frontage Road Traffic	Time	7:15 AM	8:15 AM	
	Total	289			
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space 1.1	12.25	Trips per car space	Vehicle-trips per C	12.00
	Daily Vehicle-trips per Car Space	82.75	Trips per car space		

note parking spaces estimated based on aerials

Persons Trips	Daily Persons Trips (IN)	Car Based		Total	
		Other			
	Average number of Persons per hour				
	Person Trips at Vehicle Peak Hour	Daily Peak			
	Persons Trips at Peak Hours	Vehicle Peak			
		Pedestrian Peak			
		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period			
		Daily			

Development Trips during Frontage Road Peaks	Peak			
	30			

C. Trip Generation	Site 1.2	Daily Peak Period excludes 6-8	Time	9:15:00 AM	10:15:00 AM
			In (vph)	17	Total
			Out (vph)	31	48
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
	Daily Peak Period	4.0000	2.6667	16.6090	
C. Trip Generation	Site 1.2	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		AM Peak Period	12.7500	2.8333	8.9005

Site 01 - Results Summary Sheet

42-50 Sydney Street, Muswellbrook

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Sunday	31st March 2019	6:00:00 AM	7:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	Yes		
A. Site Data	Activity Name	Blue Flame Café and Car Wash			
	Land Use Description	Car Wash Café			
	Local Authority (Council)	Muswellbrook Council			
	Street Address and Suburb	42-50 Sydney Street, Muswellbrook			
	Survey Site General Location	Suburb			
	Highest Classification of Frontage Road	Collector	Maitland Street (New England Highway)		
	Frontage Road ADT	46917			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
Approximate Café Seating Capacity	unknown				
B. Parking	Parking Spaces Provided On-Site	4			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces		NA
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA		Peak Parking Demand/ Employee	
		NA		NA	
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	10:30:00 AM	11:30:00 AM
		In (vph)	22	Total	
		Out (vph)			
		Daily	Time	6:00:00 AM	7:00:00 PM
		Total In + Out (Vpd)	328		
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	4.5833	3.0556	7.6923
		Daily	27.3333	18.2222	40.0488
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	328	79.4%	
		Car (as driver)	1698	80.4%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	68	16.5%	
		On Foot	68	0.0%	
		Bus			
		Cycle	17	4.1%	
		TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (organisation):	Fred Stone	fred@traffidc.com.au	
		Survey Undertaken by (surveyor):			

Site Data	Number of Entry/Exits	5			
	Nearby Businesses	Puma Service Station / Car Servicing			
Area Characteristics	Surrounding land use	Service station, food and drink outlets and residential			
	Nearby on-street parking regime	No nearby on-street parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	2:45:00 PM	3:45:00 PM	
		Total	965		
	Frontage Road Daily	Time	6:00 AM	4:30 PM	
		Total	819		
	Development Peak - Frontage Road Traffic	Time	10:30 AM	11:30 AM	
		Total	715		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	13.75	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	82.00	Trips per car space		
Persons Trips	Daily Persons Trips (IN)	Car Based		Total	
		Other			
	Average number of Persons per hour				
	Person Trips at Vehicle Peak Hour	Daily Peak			
	Persons Trips at Peak Hours	Vehicle Peak			
		Pedestrian Peak			
			Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		Daily Peak Period			
		Daily			

Development Trips during Frontage Road Peaks				
	Peak	16		

C. Trip Generation	Site 1.2				
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		Daily Peak Period	4.0000	2.6667	16.6090
C. Trip Generation	Site 1.2				
	Peak trip Rate per 100m ² or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		AM Peak Period	12.7500	2.8333	8.9005

Site 02 - Results Summary Sheet

2/1190 Old Windsor Road, Parklea Blacktown

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	14th June 2019	7:30:00 AM	5:30:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	CARSPA Autowash Café, Parlea			
	Land Use Description	Car Wash Café			
	Local Authority (Council)	Blacktown City Council			
	Street Address and Suburb	2/1190 Old Windsor Road, Parklea Blacktown			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Collector	Old Windsor Road		
	Frontage Road ADT	33155			
	Pedestrian Activity	Low			
	Public Transport Opportunities	High			
	Approximate Café Seating Capacity	22 Seats Outside			
B. Parking	Parking Spaces Provided On-Site	11			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	1			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand		max occupied spaces		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:00:00 AM	11:00:00 AM
			In (vph)	16	Total
			Out (vph)	10	26
		PM Peak Period	Time	12:15:00 PM	1:15:00 PM
			In (vph)	8	Total
			Out (vph)	18	26
		Daily	Time	7:30:00 AM	5:30:00 PM
			Total In + Out (Vpd)	163	
	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh).	
		AM Peak Period	2.8889	1.6720	0.8922
		PM Peak Period	2.8889	1.6720	0.8075
		Daily	18.1111	10.4823	0.4916
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	163	80.3%	
		Car (as driver)	163	80.3%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	40	19.7%	
		On Foot	40	19.7%	
		Bus	0	0.0%	Not surveyed
		Cycle	0	0.0%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2				
	Nearby Businesses	Caltex Service Station				
Area Characteristics	Surrounding land use	Service station, food and drink outlets and residential				
	Nearby on-street parking regime	No nearby on-street parking				
	Principal Adjacent road - Peak Period (Weekday)	AM	07:30 AM - 08:30 AM			
		PM	03:15 PM - 04:15 PM			
Traffic Generation	Frontage Road AM Peak Period	Time	7:30:00 AM	8:30:00 AM		
		Total	3384			
	Frontage Road PM Peak Period	Time	3:15:00 PM	4:15:00 PM		
		Total	3963			
	Frontage Road Daily	Time	7:30:00 AM	5:30:00 PM		
	Total	33155				
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak				
		2.36	trips per car space			
		PM Peak				
		2.36	trips per car space			
		Daily	14.82	trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	7:30:00 AM	8:30:00 AM		
		12	3:15:00 PM	4:15:00 PM		
		13				
		Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	2.36	Trips per car space	note parking spaces estimated based on aerials
	PM Peak 1-hour Vehicle-trips per Car Space	2.36	Trips per car space			
	Daily Vehicle-trips per Car Space	14.82	Trips per car space			

Site 02 - Results Summary Sheet

2/1190 Old Windsor Road, Parklea Blacktown

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th June 2019	7:00:00 AM	5:30:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	Yes		
A. Site Data					
Activity Name	CARSPA Autowash Café, Parlea				
Land Use Description	Car Wash Café				
Local Authority (Council)	Blacktown City Council				
Street Address and Suburb	2/1190 Old Windsor Road, Parklea Blacktown				
Survey Site General Location	Suburb				
Highest Classification of Frontage Road	Collector	46917	Old Windsor Road		
Frontage Road ADT	Low				
Pedestrian Activity	High				
Public Transport Opportunities					
Approximate Café Seating Capacity	22 Seats Outside				
B. Parking					
Parking Spaces Provided On-Site	11				
Other Parking Spaces (On-Street/Off-Site)	0				
Staff Parking On-Site	1				
Other Staff Parking (On-Street/Off-Site)	0				
Peak Parking Demand	NA				
Peak Parking Demand During Survey	max occupied spaces NA				
	Peak Parking Demand/ 100m2 GFA				
	NA				
C. Trip Generation					
Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	1:00:00 PM	2:00:00 PM	
	In (vph)	10	Total		
	Out (vph)				
	Daily	Time	7:00:00 AM	5:30:00 PM	21
	Total In + Out (Vpd)	152			
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
Daily Peak Period	2.3333	1.3505	0.4866		
Daily	16.8889	9.7749	0.3887		
D. General Comments and Notes					
Site Characteristics/Notes	Daily Mode Split				
Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%		
	Total Private Vehicles	152	91.0%		
	Car (as driver)	0	0.0%		
	Car (as passenger)				
	Taxi				
	Total Alt Trans (PT and Active)	15	9.0%		
	On Foot	15	9.0%		
	Bus	0	0.0%		
	Cycle	0	0.0%		
	Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone	
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Caltex Service Station			
Area Characteristics	Surrounding land use	Service station, food and drink outlets and residential			
	Nearby on-street parking regime	No nearby on-street parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:45:00 PM	1:45:00 PM	
	Frontage Road Daily	Total	4319		
		Time	7:00 AM	5:30 PM	
	Development Peak - Frontage Road Traffic	Total	39100		
		Time	1:00 PM	2:00 PM	
		Total	4316		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	1.91	Trips per car space	note parking spaces estimated based on aerials	note parking spaces estimated based on aerials
	Daily Vehicle-trips per Car Space	13.82	Trips per car space		

Development Trips during Frontage Road Peaks	Peak
	19

Site 02 - Results Summary Sheet

2/1190 Old Windsor Road, Parklea Blacktown

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Rel Only	
Survey Period Date and Time	Sunday	16th June 2019	7:00:00 AM	5:30:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	CARSPA Autowash Café, Parlea			
	Land Use Description	Car Wash Café			
	Local Authority (Council)	Blacktown City Council			
	Street Address and Suburb	2/1190 Old Windsor Road, Parklea Blacktown			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Collector	Old Windsor Rd		
	Frontage Road ADT	46917			
	Pedestrian Activity				
	Public Transport Opportunities				
	Approximate Café Seating Capacity	22 Seats Outside			
B. Parking	Parking Spaces Provided On-Site	11			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	1			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA		Peak Parking Demand/ Employee	
		NA		NA	
	C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	8:45:00 AM
In (vph)			5	Total	
Out (vph)			5		
Daily			Time	7:00:00 AM	5:30:00 PM
Total In + Out (Vpd)			64	10	
Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	1.1111	6.4516	0.4513
		Daily	7.1111	41.2903	0.2163
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	64	91.4%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	6	8.6%	
		On Foot	6	8.6%	
		Bus	0	0.0%	
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au	

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Caltex Service Station			
Area Characteristics	Surrounding land use	Surrounding land use			
	Nearby on-street parking regime	No nearby on-street parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	11:45:00 AM	12:45:00 PM	
		Total	3569		
	Frontage Road Daily	Time	7:00 AM	5:30 PM	
		Total	29586		
	Development Peak - Frontage Road Traffic	Time	8:45 AM	9:45 AM	
	Total	2216			
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	0.91	Trips per car space	note parking spaces estimated based on aerials	note parking spaces estimated based on aerials
	Daily Vehicle-trips per Car Space	5.82	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
		6			

Site 03 - Results Summary Sheet

1052 Forest Road, Lugarno

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:			
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	5:00:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Lugarno Café Car Wash					
	Land Use Description	Car Wash & Café					
	Local Authority (Council)	Georges River					
	Street Address and Suburb	1052 Forest Road, Lugarno					
	Survey Site General Location	Suburbs					
	Highest Classification of Frontage Road	Minor Arterial	Forest Rd				
	Frontage Road ADT	6000					
	Pedestrian Activity	Moderate					
Public Transport Opportunities	Moderate						
Approximate Café Seating Capacity	29						
B. Parking	Parking Spaces Provided On-Site	4					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Staff Parking (On-Street/Off-Site)	0					
	Peak Parking Demand		max occupied spaces				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff				
	C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:30:00 AM	11:30:00 AM	
			In (vph)	8	Total		
			Out (vph)	7	15		
PM Peak Period			Time	12:30:00 PM	1:30:00 PM		
			In (vph)	10	Total		
			Out (vph)	8	18		
Daily			Time	8:00:00 AM	5:00:00 PM		
			Total In + Out (Vpd)	112			
Peak trip Rate per 100m² or other unit (state)			Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
			AM Peak Period	3.7500	1.9868	2.3548	
		PM Peak Period	4.5000	2.3841	2.8391		
		Daily	28.0000	14.8344	1.7663		
		D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
				Modal Split	Number	%	
				Total Private Vehicles	112	76.2%	
Car (as driver)				112	76.2%		
Car (as passenger)						Not surveyed	
Taxi					Not surveyed		
Total Alt Trans (PT and Active)	35			23.8%			
On Foot	35			23.8%			
Bus	0			0.0%	Not surveyed		
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC			Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone			fred@traffictdc.com.au			

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	The Workshop Auto Centre			
Area Characteristics	Surrounding land use	Mechanic and Service Station			
	Nearby on-street parking regime	On-street parking available			
	Principal Adjacent road - Peak Period (Weekday)	AM	08:15 AM - 09:15 AM		
		PM	03:45 PM - 04:45 PM		
Traffic Generation	Frontage Road AM Peak Period	Time	8:15:00 AM	9:15:00 AM	
		Total	906		
	Frontage Road PM Peak Period	Time	3:45:00 PM	4:45:00 PM	
		Total	930		
	Frontage Road Daily	Time	8:00:00 AM	12:00:00 AM	
	Total	6341			
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
		3.75 trips per car space			
		PM Peak			
		4.50 trips per car space			
		Daily			
		28.00 trips per car space			
	Development Trips during Frontage Road Peaks	AM Peak	8:15:00 AM	9:15:00 AM	
		PM Peak	12	3:45:00 PM	4:45:00 PM
			12		
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	3.75	Trips per car space	note parking spaces estimated based on aerials	
	PM Peak 1-hour Vehicle-trips per Car Space	4.50	Trips per car space		
	Daily Vehicle-trips per Car Space	28.00	Trips per car space		

Site 03 - Results Summary Sheet

1052 Forest Road, Lugarno

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	5:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Lugarno Café Car Wash			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Georges River			
	Street Address and Suburb	1052 Forest Road, Lugarno			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Minor Arterial	8105	Forest Rd	
	Frontage Road ADT				
	Pedestrian Activity	Moderate			
	Public Transport Opportunities	Moderate			
Approximate Café Seating Capacity	29				
B. Parking	Parking Spaces Provided On-Site	4			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee		
		NA	NA		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:45:00 AM	12:45:00 PM
			In (vph)	13	Total
			Out (vph)		
			13	26	
		Daily	Time	8:00:00 AM	5:00:00 PM
		Total In + Out (Vpd)	142		
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	6.5000	3.4437	2.4715
		Daily	35.5000	18.8079	1.7520
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	142	87.1%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	21	12.9%	
		On Foot	21	12.9%	
		Bus		0.0%	
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
	Fred Stone	fred@trafficdc.com.au			

Survey Undertaken by (organisation):
Survey Undertaken by (surveyor):

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	The Workshop Auto Centre			
Area Characteristics	Surrounding land use	Mechanic and Service Station			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	4:30:00 PM	5:30:00 PM	
	Frontage Road Daily	Time	2569	8:00 AM	12:00 AM
		Total	8105		
	Development Peak - Frontage Road Traffic	Time	11:45 AM	12:45 PM	
		Total	1052		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	6.50	Trips per car space	note parking spaces estimated based on aerials	note parking spaces estimated based on aerials
	Daily Vehicle-trips per Car Space	35.50	Trips per car space		
Development Trips during Frontage Road Peaks	Peak				
		5			

Site 03 - Results Summary Sheet

1052 Forest Road, Lugarno

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW				Office Ref Only
Survey Period Date and Time	Sunday	28th July 2019	8:00:00 AM	5:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Lugarno Café Car Wash			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Georges River			
	Street Address and Suburb	1052 Forest Road, Lugarno			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Minor Arterial	Forest Rd		
	Frontage Road ADT	0			
	Pedestrian Activity	Moderate			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	29			
B. Parking	Parking Spaces Provided On-Site	4			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces	NA	
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee		
		NA	NA		
	C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:30:00 AM
			In (vph)	15	Total
			Out (vph)	11	
Daily			Time	8:00:00 AM	5:00:00 PM
			Total In + Out (Vpd)	170	26
Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	6.5000	3.4437	3.0338
		Daily	42.5000	22.5166	2.4394
D. General Comments and Notes		Site Characteristics/Notes	Daily Mode Split		
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	170	88.5%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	22	11.5%	
		On Foot	22	11.5%	
		Bus	0	0.0%	
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au	

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	The Workshop Auto Centre			
Area Characteristics	Surrounding land use				
	Nearby on-street parking regime				
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:15:00 PM	1:15:00 PM	
	Frontage Road Daily	Total	994		
		Time	8:00 AM	12:00 AM	
	Development Peak - Frontage Road Traffic	Total	6969		
		Time	11:30 AM	12:30 PM	
		Total	857		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	6.50	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	42.50	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			24		

Site 04 - Results Summary Sheet

375 Cleveland Street, Redfern

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:			
Survey Period Date and Time	Friday	14th June 2019	7:00:00 AM	6:00:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Wax Car Wash					
	Land Use Description	Car Wash & Café					
	Local Authority (Council)	Sydney					
	Street Address and Suburb	375 Cleveland Street, Redfern					
	Survey Site General Location	Suburbs					
	Highest Classification of Frontage Road	Collector	Cleveland Street				
	Frontage Road ADT	21000					
	Pedestrian Activity	Moderate					
Public Transport Opportunities	Moderate						
Approximate Café Seating Capacity	16 Outside						
B. Parking	Parking Spaces Provided On-Site	4					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Staff Parking (On-Street/Off-Site)	0					
	Peak Parking Demand		max occupied spaces				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff				
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:45:00 AM	11:45:00 AM		
			In (vph)	17	Total		
			Out (vph)	13	30		
		PM Peak Period	Time	2:15:00 PM	3:15:00 PM		
			In (vph)	17	Total		
			Out (vph)	15	32		
		Daily	Time	7:00:00 AM	6:00:00 PM		
			Total In + Out (Vpd)	206			
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
			AM Peak Period	6.0000	3.1579	1.5732	
			PM Peak Period	6.4000	3.3684	1.5059	
			Daily	41.2000	21.6842	0.9824	
		D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
				Modal Split	Number	%	
				Total Private Vehicles	206	61.7%	
	Car (as driver)			206	61.7%		
Car (as passenger)					Not surveyed		
Taxi					Not surveyed		
Total Alt Trans (PT and Active)	128			38.3%			
On Foot	128			38.3%			
Bus	0			0.0%	Not surveyed		
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC			Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone			fred@traffidc.com.au			

Site Data	Number of Entry/Exits	1				
	Nearby Businesses	NA				
Area Characteristics	Surrounding land use	Residential and Retail				
	Nearby on-street parking regime	On-street parking available on Marriott Street				
	Principal Adjacent road - Peak Period (Weekday)	AM	08:00 AM - 09:00 AM			
		PM	05:00 PM - 06:00 PM			
Traffic Generation	Frontage Road AM Peak Period	Time	8:00:00 AM	9:00:00 AM		
		Total	2169			
	Frontage Road PM Peak Period	Time	5:00:00 PM	6:00:00 PM		
		Total	2241			
	Frontage Road Daily	Time	7:00:00 AM	5:00:00 PM		
	Total	20969				
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak				
		7.50	trips per car space			
		PM Peak				
		8.00	trips per car space			
		Daily	51.50	trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	8:00:00 AM	9:00:00 AM		
		PM Peak	18	3:15:00 PM	6:00:00 PM	
			6			
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	7.50	Trips per car space	note parking spaces estimated based on aerials		
	PM Peak 1-hour Vehicle-trips per Car Space	8.00	Trips per car space			
	Daily Vehicle-trips per Car Space	51.50	Trips per car space			

Site 04 - Results Summary Sheet

375 Cleveland Street, Redfern

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th June 2019	7:00:00 AM	6:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Wax Car Wash			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Sydney			
	Street Address and Suburb	375 Cleveland Street, Redfern			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Collector	Cleveland Street		
	Frontage Road ADT	21405			
	Pedestrian Activity	Moderate			
	Public Transport Opportunities	Moderate			
Approximate Café Seating Capacity	16 outside				
B. Parking	Parking Spaces Provided On-Site	4			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces	NA	
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee		
		NA	NA		
	C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	8:00:00 AM
			In (vph)	23	Total
			Out (vph)		
			12	35	
Daily			Time	7:00:00 AM	6:00:00 PM
		Total In + Out (Vpd)	224		
Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	7.0000	3.6842	1.8991
		Daily	44.8000	23.5789	1.0465
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
		Modal Split	Number	%	
		Total Private Vehicles	224	92.2%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	19	7.8%	
		On Foot	19	7.8%	
		Bus	0	0.0%	
		Cycle	0	0.0%	
		Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential and Retail			
	Nearby on-street parking regime	On-street parking available on Marriott Street			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:45:00 PM	1:45:00 PM	
	Frontage Road Daily	Total	2340		
		Time	7:00 AM	5:30 PM	
		Total	21405		
	Development Peak - Frontage Road Traffic	Time	8:00 AM	9:00 AM	
		Total	1843		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	8.75	Trips per car space	note parking spaces estimated based on aerials	note parking spaces estimated based on aerials
	Daily Vehicle-trips per Car Space	56.00	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			19		

Site 04 - Results Summary Sheet

375 Cleveland Street, Redfern

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW				Office Ref Only		
Survey Period Date and Time	Sunday	16th June 2019	7:00:00 AM	6:00:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Wax Car Wash					
	Land Use Description	Car Wash & Café					
	Local Authority (Council)	Sydney					
	Street Address and Suburb	375 Cleveland Street, Redfern					
	Survey Site General Location	Suburbs					
	Highest Classification of Frontage Road	Collector	Cleveland Street				
	Frontage Road ADT	0					
	Pedestrian Activity	Moderate					
	Public Transport Opportunities	Moderate					
	Approximate Café Seating Capacity	16 outside					
B. Parking							
	Parking Spaces Provided On-Site	4					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Staff Parking (On-Street/Off-Site)	0					
	Peak Parking Demand	NA	max occupied spaces NA				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA		Peak Parking Demand/ Employee			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:45:00 AM	12:45:00 PM		
		In (vph)	20	Total 39			
		Out (vph)	19				
		Daily	Time	7:00:00 AM	6:00:00 PM		
		Total In + Out (Vpd)	250				
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)			
		Daily Peak Period	7.8000	4.1053	1.9959		
		Daily	50.0000	26.3158	1.2442		
		D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
			Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
Total Private Vehicles	250			94.3%			
Car (as driver)	0			0.0%			
Car (as passenger)							
Taxi							
Total Alt Trans (PT and Active)	15			5.7%			
On Foot	15			5.7%			
Bus	0			0.0%			
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC	Survey Contact		Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au					

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential and Retail			
	Nearby on-street parking regime	On-street parking available on Marriott Street			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
	Total	Time	1:45:00 PM	2:45:00 PM	
	Frontage Road Daily	Time	2400	7:00 AM	5:30 PM
	Total	Time	20093	11:45 AM	12:45 PM
	Development Peak - Frontage Road Traffic	Time	1954		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	9.75	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	62.50	Trips per car space		

Development Trips during Frontage Road Peaks	Peak
	15

Site 05 - Results Summary Sheet

118/120 Balgownie Road, Balgownie Road

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	14th June 2019	9:00:00 AM	5:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Hands on Car Wash			
	Land Use Description	Car Wash Café			
	Local Authority (Council)	Wollongong			
	Street Address and Suburb	118/120 Balgownie Road, Balgownie Road			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Collector	Balgownie Road		
	Frontage Road ADT	3000			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	4 Outside			
B. Parking	Parking Spaces Provided On-Site	7			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand		max occupied spaces		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	11:00:00 AM	12:00:00 PM
			In (vph)	8	Total
			Out (vph)	6	14
		PM Peak Period	Time	3:15:00 PM	4:15:00 PM
			In (vph)	10	Total
			Out (vph)	13	23
		Daily	Time	9:00:00 AM	5:00:00 PM
			Total In + Out (Vpd)	102	
	Peak trip Rate per 100m² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		AM Peak Period	4.6667	2.1374	3.9886
		PM Peak Period	7.6667	3.5115	5.1225
		Daily	34.0000	15.5725	3.1298
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	102	87.9%	
		Car (as driver)	102	87.9%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	14	12.1%	
		On Foot	14	12.1%	
		Bus	0	0.0%	Not surveyed
		Cycle	0	0.0%	
		Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone
	Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	3		
	Nearby Businesses	Vitex Motors		
Area Characteristics	Surrounding land use	Residential and Commerical		
	Nearby on-street parking regime	On-street parking available		
	Principal Adjacent road - Peak Period (Weekday)	AM	09:00 AM - 10:00 AM	
		PM	03:00 PM - 04:00 PM	
Traffic Generation	Frontage Road AM Peak Period	Time	9:00:00 AM	10:00:00 AM
		Total	419	
	Frontage Road PM Peak Period	Time	3:00:00 PM	4:00:00 PM
		Total	494	
	Frontage Road Daily	Time	9:00:00 AM	12:00:00 AM
		Total	3259	
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak		
		2.00 trips per car space		
		PM Peak		
		3.29 trips per car space		
		Daily		
		14.57 trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	9:00:00 AM	10:00:00 AM
		8		
		PM Peak	3:15:00 PM	4:00:00 PM
		20		
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	2.00	Trips per car space	note parking spaces estimated based on aerials
	PM Peak 1-hour Vehicle-trips per Car Space	3.29	Trips per car space	
	Daily Vehicle-trips per Car Space	14.57	Trips per car space	

Site 05 - Results Summary Sheet

118/120 Balgownie Road, Balgownie Road

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Saturday	15th June 2019	9:00:00 AM	5:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Hands on Car Wash				
	Land Use Description	Car Wash Café				
	Local Authority (Council)	Wollongong				
	Street Address and Suburb	118/120 Balgownie Road, Balgownie Road				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Collector	Balgownie Road			
	Frontage Road ADT	3000				
	Pedestrian Activity	Low				
Public Transport Opportunities	Moderate					
Approximate Café Seating Capacity	4 Outside					
B. Parking						
	Parking Spaces Provided On-Site	7				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA		Peak Parking Demand/ Employee		
		NA		NA		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	10:45:00 AM	11:45:00 AM	
			In (vph)	5	Total	
			Out (vph)			
				9	14	
		Daily	Time	9:00:00 AM	5:00:00 PM	
	Trip Rate Per 100m2 or other unit (state)		Total In + Out (Vpd)	50		
			Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	4.6667	2.1374	3.7433	
		Daily	16.6667	7.6336	1.7532	
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split				
		Modal Split	Number	%		
		Total Private Vehicles	50	83.3%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	10	13.3%		
		On Foot	8	0.0%		
		Bus				
		Cycle	2	3.3%		
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au				

Site Data	Number of Entry/Exits	3			
	Nearby Businesses	Vitex Motors			
Area Characteristics					
	Surrounding land use	Residential and Commerical			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	9:15:00 AM	10:15:00 AM	
		Total	402		
	Frontage Road Daily	Time	9:00 AM	12:00 AM	
		Total	2862		
	Development Peak - Frontage Road Traffic	Time	10:45 AM	11:45 AM	
		Total	374		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	2.00	Trips per car space	note parking spaces estimated based on aerials	note parking spaces estimated based on aerials
	Daily Vehicle-trips per Car Space	7.14	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
					8

Site 05 - Results Summary Sheet

118/120 Balgownie Road, Balgownie Road

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Sunday	16th June 2019	9:00:00 AM	5:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Hands on Car Wash			
	Land Use Description	Car Wash Café			
	Local Authority (Council)	Wollongong			
	Street Address and Suburb	118/120 Balgownie Road, Balgownie Road			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Collector	Balgownie Road		
	Frontage Road ADT	2480			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	4 Outside			
B. Parking					
	Parking Spaces Provided On-Site	7			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	12:30:00 PM	1:30:00 PM
			In (vph)	4	Total
			Out (vph)	6	10
		Daily	Time	9:00:00 AM	5:00:00 PM
			Total In + Out (Vpd)	32	
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		Daily Peak Period	3.3333	1.5267	2.9326
		Daily	10.6667	4.8855	1.2903
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	32	100.0%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	0	0.0%	
		On Foot	0	0.0%	
		Bus			
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au	

Site Data	Number of Entry/Exits	3			
	Nearby Businesses	Vitex Motors			
Area Characteristics	Surrounding land use	Residential and Commerical			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	12:15:00 PM	1:15:00 PM	
		Total	355		
	Frontage Road Daily	Time	9:00 AM	12:00 AM	
		Total	2480		
	Development Peak - Frontage Road Traffic	Time	12:30 PM	1:30 PM	
		Total	341		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	1.43	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	4.57	Trips per car space		
Development Trips during Frontage Road Peaks					
		Peak			
			6		

Site 06 - Results Summary Sheet

89-93 City Road, Merewether
Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:		
Survey Period Date and Time	Friday	14th June 2019	7:30:00 AM	5:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Stella Hand Car Wash & Table1				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Newcastle				
	Street Address and Suburb	89-93 City Road, Merewether				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Highway	City Road			
	Frontage Road ADT	14294				
	Pedestrian Activity	Low				
Public Transport Opportunities	Moderate					
Approximate Café Seating Capacity	60					
B. Parking	Parking Spaces Provided On-Site	23				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand		max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	9:30:00 AM	10:30:00 AM	
			In (vph)	29	Total	
			Out (vph)	28	57	
		PM Peak Period	Time	11:30:00 AM	12:30:00 PM	
			In (vph)	16	Total	
			Out (vph)	18	34	
		Daily	Time	7:30:00 AM	5:00:00 PM	
			Total In + Out (Vpd)	274		
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
			AM Peak Period	14.2500	3.3828	3.6965
		PM Peak Period	8.5000	2.0178	2.1907	
		Daily	68.5000	16.2611	1.4957	
	D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
			Modal Split	Number	%	
			Total Private Vehicles	274	92.6%	
			Car (as driver)	274	92.6%	
			Car (as passenger)			Not surveyed
Taxi					Not surveyed	
Total Alt Trans (PT and Active)			22	7.4%		
On Foot			22	7.4%		
Bus					Not surveyed	
Cycle			0	0.0%		
Survey Undertaken by (organisation):			TDC	Survey Contact	Fred Stone	
Survey Undertaken by (surveyor):			Fred Stone	fred@trafficdc.com.au		

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street car parking available			
	Principal Adjacent road - Peak Period (Weekday)	AM	07:45 AM - 08:45 AM		
		PM	03:30 PM - 04:30 PM		
Traffic Generation	Frontage Road AM Peak Period	Time	7:45:00 AM	8:45:00 AM	
		Total	2597		
	Frontage Road PM Peak Period	Time	3:30:00 PM	4:30:00 PM	
		Total	2454		
	Frontage Road Daily	Time	7:30:00 AM	12:00:00 AM	
	Total	18319			
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
		2.48	trips per car space		
		PM Peak			
		1.48	trips per car space		
		Daily			
		11.91	trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	7:45:00 AM	8:45:00 AM	
		PM Peak	37	3:15:00 PM	4:30:00 PM
			5		
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	2.48	Trips per car space	note parking spaces estimated based on aerials	
	PM Peak 1-hour Vehicle-trips per Car Space	1.48	Trips per car space		
	Daily Vehicle-trips per Car Space	11.91	Trips per car space		

Site 06 - Results Summary Sheet

89-93 City Road, Merewether

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th June 2019	7:30:00 AM	3:30:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Stella Hand Car Wash & Table1			
	Land Use Description	Café Car Wash			
	Local Authority (Council)	Newcastle			
	Street Address and Suburb	89-93 City Road, Merewether			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Highway			
	Frontage Road ADT	30669			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	60			
B. Parking					
	Parking Spaces Provided On-Site	23			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA			
		max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	8:45:00 AM	9:45:00 AM
			In (vph)	41	Total
			Out (vph)		
				27	68
		Daily	Time	7:30:00 AM	3:30:00 PM
			Total In + Out (Vpd)	335	
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		Daily Peak Period	17.0000	4.0356	4.0719
		Daily	83.7500	19.8813	2.3660
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
		Modal Split	Number	%	
		Total Private Vehicles	335	92.3%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	28	7.7%	
		On Foot	28	0.0%	
		Bus			
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
Survey Undertaken by (organisation):		Fred Stone	fred@traffidc.com.au		
Survey Undertaken by (surveyor):					

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street car parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	12:00:00 PM	1:00:00 PM	
		Total	2201		
	Frontage Road Daily	Time	7:30 AM	12:00 AM	
		Total	14159		
	Development Peak - Frontage Road Traffic	Time	8:45 AM	9:45 AM	
		Total	1670		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	2.96	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	14.57	Trips per car space		

Development Trips during Frontage Road Peaks	Peak
	40

Site 06 - Results Summary Sheet

89-93 City Road, Merewether

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Sunday	16th June 2019	7:30:00 AM	3:30:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Stella Hand Car Wash & Table1			
	Land Use Description	Café Car Wash			
	Local Authority (Council)	Newcastle			
	Street Address and Suburb	89-93 City Road, Merewether			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Highway	City Road		
	Frontage Road ADT	30669			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	60			
B. Parking	Parking Spaces Provided On-Site	23			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces	NA	
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee		
		NA	NA		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	10:00:00 AM	11:00:00 AM
			In (vph)	46	Total
			Out (vph)	39	85
		Daily	Time	7:30:00 AM	3:30:00 PM
			Total In + Out (Vpd)	330	
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	21.2500	5.0445	6.0801
		Daily	82.5000	19.5846	3.1719
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	330	89.7%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	38	10.3%	
		On Foot	38	0.0%	
		Bus			
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au	

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street car parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	12:15:00 PM	1:15:00 PM	
		Total	1678		
	Frontage Road Daily	Time	7:30 AM	12:00 AM	
		Total	10404		
	Development Peak - Frontage Road Traffic	Time	10:00 AM	11:00 AM	
		Total	1398		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	3.70	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	14.35	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
					50

Site 07 - Results Summary Sheet

169-171 Pennant Hills Road, Thornleigh

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Rel Only:		
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	5:30:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data						
Site Data	Activity Name	Blanc Noire Hand Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Hornsby				
	Street Address and Suburb	169-171 Pennant Hills Road, Thornleigh				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Highway		#REF!		
	Frontage Road ADT	38068				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
Approximate Café Seating Capacity	16					
B. Parking						
Parking	Parking Spaces Provided On-Site	5				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand		max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff			
C. Trip Generation						
Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	9:00:00 AM	10:00:00 AM	
		In (vph)	6	Total		
		Out (vph)	6	12		
		PM Peak Period	Time	11:45:00 AM	12:45:00 PM	
		In (vph)	3	Total		
		Out (vph)	5	8		
		Daily	Time	8:00:00 AM	5:30:00 PM	
		Total In + Out (Vpd)	55			
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		AM Peak Period	3.0000	1.4724	0.6715	
	PM Peak Period	2.0000	0.9816	0.4357		
	Daily	13.7500	6.7485	0.3005		
	General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
			Modal Split	Number	%	
Total Private Vehicles			55	93.2%		
Car (as driver)			55	93.2%		
Car (as passenger)					Not surveyed	
Taxi					Not surveyed	
Total Alt Trans (PT and Active)			4	6.8%		
On Foot			4	6.8%		
Bus					Not surveyed	
Cycle			0	0.0%		
TDC			Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):			Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking available			
	Principal Adjacent road - Peak Period (Weekday)	AM	10:45 AM - 11:45 AM		
		PM	02:30 PM - 03:30 PM		
Traffic Generation	Frontage Road AM Peak Period	Time	10:45:00 AM	11:45:00 AM	
		Total	3749		
	Frontage Road PM Peak Period	Time	2:30:00 PM	3:30:00 PM	
		Total	4598		
	Frontage Road Daily	Time	8:00:00 AM	12:00:00 AM	
	Total	38068			
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
		2.40	trips per car space		
		1.60	trips per car space		
		11.00	trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	10:45:00 AM	11:45:00 AM	
		11			
		PM Peak	3:15:00 PM	3:30:00 PM	
		5			
	Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	2.40	Trips per car space	note parking spaces estimated based on aerials
PM Peak 1-hour Vehicle-trips per Car Space		1.60	Trips per car space		
Daily Vehicle-trips per Car Space		11.00	Trips per car space		

Site 07 - Results Summary Sheet

169-171 Pennant Hills Road, Thornleigh

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	5:30:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Blanc Noire Hand Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Hornsby				
	Street Address and Suburb	169-171 Pennant Hills Road, Thornleigh				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Highway	Pennant Hills Road			
	Frontage Road ADT	40797				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
Approximate Café Seating Capacity	16					
B. Parking	Parking Spaces Provided On-Site	5				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA		Peak Parking Demand/ Employee		
		NA		NA		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:45:00 AM	12:45:00 PM	
			In (vph)	9	Total	
			Out (vph)			
				5		14
		Daily	Time	8:00:00 AM	5:30:00 PM	
			Total In + Out (Vpd)	62		
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
	Daily Peak Period	3.5000	1.7178	0.1641		
	Daily	15.5000	7.6074	0.0844		
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split				
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%		
		Total Private Vehicles	62	98.4%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	1	0.0%		
		On Foot	0	0.0%		
		Bus				
		Cycle	1	1.6%		
		Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	12:00:00 PM	1:00:00 PM	
		Total	4704		
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	40797		
	Development Peak - Frontage Road Traffic	Time	11:45 AM	12:45 PM	
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	2.80	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	12.40	Trips per car space		

Development Trips during Frontage Road Peaks	Peak
	13

Site 07 - Results Summary Sheet

169-171 Pennant Hills Road, Thornleigh

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only			
Survey Period Date and Time	0	0	8:00:00 AM	5:30:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Blanc Noire Hand Wash Café					
	Land Use Description	Café Car Wash					
	Local Authority (Council)	Hornsby					
	Street Address and Suburb	169-171 Pennant Hills Road, Thornleigh					
	Survey Site General Location	Inner					
	Highest Classification of Frontage Road	Highway	Pennant Hills Road (Cumberland H'way)				
	Frontage Road ADT	41692					
	Pedestrian Activity	Low					
	Public Transport Opportunities	Low					
	Approximate Café Seating Capacity	16					
B. Parking							
	Parking Spaces Provided On-Site	5					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Staff Parking (On-Street/Off-Site)	0					
	Peak Parking Demand	NA	max occupied spaces NA				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee				
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:00:00 AM	12:00:00 PM		
			In (vph)	6	Total		
			Out (vph)	7	13		
		Daily	Time	8:00:00 AM	5:30:00 PM		
			Total In + Out (Vpd)	81			
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)			
		Daily Peak Period	3.2500	1.5951	0.5485		
		Daily	20.2500	9.9387	0.3896		
		D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
			Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
Total Private Vehicles	81			97.6%			
Car (as driver)	0			0.0%			
Car (as passenger)							
Taxi							
Total Alt Trans (PT and Active)	2			2.4%			
On Foot	0			0.0%			
Bus							
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC	Survey Contact		Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au					

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Total	3:45:00 PM	4:45:00 PM	
	Frontage Road Daily	Time	5092		
		Total	8:00 AM	12:00 AM	
		Total	41692		
	Development Peak - Frontage Road Traffic	Time	11:00 AM	12:00 PM	
		Total	4778		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	2.60	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	16.20	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			7		

Site 08 - Results Summary Sheet

212 Parramatta Road, Auburn

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Rel Only:		
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	5:30:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data						
Site Data	Activity Name	Xlbit Car Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Cumberland				
	Street Address and Suburb	212 Parramatta Road, Auburn				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Major Arterial	Parramatta Road			
	Frontage Road ADT	23000				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Moderate				
Approximate Café Seating Capacity	20					
B. Parking						
Parking	Parking Spaces Provided On-Site	4				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand		max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff			
C. Trip Generation						
Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:30:00 AM	11:30:00 AM	
			In (vph)	5	Total	
			Out (vph)	6	11	
		PM Peak Period	Time	2:30:00 PM	3:30:00 PM	
			In (vph)	6	Total	
			Out (vph)	8	14	
		Daily	Time	8:00:00 AM	5:30:00 PM	
			Total In + Out (Vpd)	83		
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
			2.7500	1.1000	0.9244	
		3.5000	1.4000	1.3793		
		20.7500	8.3000	0.7417		
	D. General Comments and Notes					
	General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
			Modal Split	Number	%	
Total Private Vehicles			83	69.7%		
Car (as driver)			83	69.7%		
Car (as passenger)					Not surveyed	
Taxi					Not surveyed	
Total Alt Trans (PT and Active)			36	30.3%		
On Foot			36	30.3%		
Bus					Not surveyed	
Cycle			0	0.0%		
TDC			Survey Contact	Fred Stone		
Fred Stone			fred@traffidc.com.au			

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	Mechanic			
Area Characteristics					
Area Characteristics	Surrounding land use	Commerical / Residential			
	Nearby on-street parking regime	On-street parking available on Braemar Avenue			
	Principal Adjacent road - Peak Period (Weekday)	AM	11:00 AM - 12:00 PM		
		PM	01:30 PM - 02:30 PM		
Traffic Generation					
Traffic Generation	Frontage Road AM Peak Period	Time	11:00:00 AM	12:00:00 PM	
		Total	2498		
	Frontage Road PM Peak Period	Time	1:30:00 PM	2:30:00 PM	
		Total	2568		
	Frontage Road Daily	Time	8:00:00 AM	5:30:00 PM	
	Total	22935			
Vehicle Trips					
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
			2.75	trips per car space	
		PM Peak	3.50	trips per car space	
		Daily	20.75	trips per car space	
	Development Trips during Frontage Road Peaks	AM Peak	11:00:00 AM	12:00:00 PM	
			8		
		PM Peak	1:30:00 PM	2:30:00 PM	
		10			
	Other Vehicle Trip Rate Info				
	Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	2.75	Trips per car space	note parking spaces estimated based on aerials
PM Peak 1-hour Vehicle-trips per Car Space		3.50	Trips per car space		
Daily Vehicle-trips per Car Space		20.75	Trips per car space		

Site 08 - Results Summary Sheet

212 Parramatta Road, Auburn

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Rel Only		
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	5:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Xibit Car Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Cumberland				
	Street Address and Suburb	212 Parramatta Road, Auburn				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Major Arterial	Parramatta Road			
	Frontage Road ADT	22863				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Moderate				
	Approximate Café Seating Capacity	20				
B. Parking	Parking Spaces Provided On-Site	4				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA				
		NA	NA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	3:45:00 PM	4:45:00 PM	
			In (vph)	9	Total	
			Out (vph)			
			Daily	Time	8:00:00 AM	5:00:00 PM
				Total In + Out (Vpd)	87	20
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
			Daily Peak Period	5.0000	2.0000	1.4514
			Daily	21.7500	8.7000	0.7580
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split				
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%		
		Total Private Vehicles	87	79.1%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	23	20.9%		
		On Foot	23	0.0%		
		Bus				
Cycle		0	0.0%			
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au				

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	Mechanic			
Area Characteristics	Surrounding land use	Commerical / Residential			
	Nearby on-street parking regime	On-street parking available on Braemar Avenue			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	11:00:00 AM	12:00:00 PM	
		Total	2574		
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	22863		
	Development Peak - Frontage Road Traffic	Time	3:45 PM	4:45 PM	
		Total	2540		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	5.00	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	21.75	Trips per car space		

Development Trips during Frontage Road Peaks	Peak
	8

Site 08 - Results Summary Sheet

212 Parramatta Road, Auburn

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only			
Survey Period Date and Time	Sunday	28th July 2019	8:00:00 AM	5:00:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Xibit Car Wash Café					
	Land Use Description	Café Car Wash					
	Local Authority (Council)	Cumberland					
	Street Address and Suburb	212 Parramatta Road, Auburn					
	Survey Site General Location	Inner					
	Highest Classification of Frontage Road	Major Arterial	Parramatta Road				
	Frontage Road ADT	22642					
	Pedestrian Activity	Low					
	Public Transport Opportunities	Moderate					
	Approximate Café Seating Capacity	20					
B. Parking							
	Parking Spaces Provided On-Site	4					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Staff Parking (On-Street/Off-Site)	0					
	Peak Parking Demand	NA	max occupied spaces NA				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee				
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	12:30:00 PM	1:30:00 PM		
			In (vph)	5	Total		
			Out (vph)	14		19	
		Daily	Time	8:00:00 AM	5:00:00 PM		
			Total In + Out (Vpd)	108			
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)			
		Daily Peak Period	4.7500	1.9000	1.4937		
		Daily	27.0000	10.8000	0.9487		
		D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
			Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
Total Private Vehicles	108			90.8%			
Car (as driver)	0			0.0%			
Car (as passenger)							
Taxi							
Total Alt Trans (PT and Active)	11			9.2%			
On Foot	0			0.0%			
Bus							
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC	Survey Contact		Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au					

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	Mechanic			
Area Characteristics	Surrounding land use	Commerical / Residential			
	Nearby on-street parking regime	On-street parking available on Braemar Avenue			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Total	2870	1:00:00 PM	
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	22642		
	Development Peak - Frontage Road Traffic	Time	12:30 PM	1:30 PM	
		Total	2636		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	4.75	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	27.00	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			15		

Site 09 - Results Summary Sheet

109 Miranda Rd Street, Miranda

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Rel Only:		
Survey Period Date and Time	Friday	14th June 2019	7:30:00 AM	5:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Aqua Car Wash				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Sutherland				
	Street Address and Suburb	109 Miranda Rd Street, Miranda				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Collector	President Avenue			
	Frontage Road ADT	3000				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
Approximate Café Seating Capacity	14					
B. Parking	Parking Spaces Provided On-Site	18				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand		max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:45:00 AM	11:45:00 AM	
			In (vph)	16	Total	
			Out (vph)	18	34	
		PM Peak Period	Time	2:00:00 PM	3:00:00 PM	
			In (vph)	18	Total	
			Out (vph)	19	37	
		Daily	Time	7:30:00 AM	5:00:00 PM	
			Total In + Out (Vpd)	249		
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
			AM Peak Period	5.6667	3.2381	1.6882
		PM Peak Period	6.1667	3.5238	1.4380	
		Daily	41.5000	23.7143	1.0584	
	D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
			Modal Split	Number	%	
			Total Private Vehicles	249	98.4%	
			Car (as driver)	249	98.4%	
			Car (as passenger)			Not surveyed
			Taxi			Not surveyed
Total Alt Trans (PT and Active)			4	1.6%		
On Foot			4	1.6%		
Bus					Not surveyed	
Cycle			0	0.0%		
Survey Undertaken by (organisation):		TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):		Fred Stone	fred@trafficdc.com.au			

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential/ Retail			
	Nearby on-street parking regime	On-street parking available			
	Principal Adjacent road - Peak Period (Weekday)	AM	08:00 AM - 09:00 AM		
		PM	03:30 PM - 04:30 PM		
Traffic Generation	Frontage Road AM Peak Period	Time	8:00:00 AM	9:00:00 AM	
		Total	2922		
	Frontage Road PM Peak Period	Time	3:30:00 PM	4:30:00 PM	
		Total	3037		
	Frontage Road Daily	Time	7:30:00 AM	5:30:00 PM	
	Total	23527			
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
			1.89	trips per car space	
		PM Peak	2.06	trips per car space	
		Daily	13.83	trips per car space	
	Development Trips during Frontage Road Peaks	AM Peak	8:00:00 AM	9:00:00 AM	
			18		
		PM Peak	3:15:00 PM	4:30:00 PM	
			27		
	Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	1.89	Trips per car space	note parking spaces estimated based on aerials
PM Peak 1-hour Vehicle-trips per Car Space		2.06	Trips per car space		
Daily Vehicle-trips per Car Space		13.83	Trips per car space		

Site 09 - Results Summary Sheet

109 Miranda Rd Street, Miranda

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only			
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	5:00:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Aqua Car Wash					
	Land Use Description	Café Car Wash					
	Local Authority (Council)	Sutherland					
	Street Address and Suburb	109 Miranda Rd Street, Miranda					
	Survey Site General Location	Suburbs					
	Highest Classification of Frontage Road	Collector	President Avenue				
	Frontage Road ADT	24061					
	Pedestrian Activity	Low					
	Public Transport Opportunities	Low					
	Approximate Café Seating Capacity	14					
B. Parking	Parking Spaces Provided On-Site	18					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Safe Parking (On-Street/Off-Site)	0					
	Peak Parking Demand	NA	max occupied spaces NA				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA					
		NA	Peak Parking Demand/ Employee				
		NA	NA				
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:15:00 AM	12:15:00 PM		
			In (vph)	20	Total		
			Out (vph)	15	35		
		Daily	Time	8:00:00 AM	5:00:00 PM		
			Total In + Out (Vpd)	246			
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)			
		Daily Peak Period	5.8333	3.3333	1.1182		
		Daily	41.0000	23.4286	1.0224		
		D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
			Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
Total Private Vehicles	246			100.0%			
Car (as driver)	0			0.0%			
Car (as passenger)							
Taxi							
Total Alt Trans (PT and Active)	0			0.0%			
On Foot	0			0.0%			
Bus							
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC	Survey Contact		Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au					

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential/ Retail			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:00:00 PM	1:00:00 PM	
	Frontage Road Daily	Total	3174		
		Time	8:00 AM	12:00 AM	
	Development Peak - Frontage Road Traffic	Total	24061		
		Time	11:15 AM	12:15 PM	
		Total	3130		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	1.94	Trips per car space	note parking spaces estimated based on aeriels	
	Daily Vehicle-trips per Car Space	13.67	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			33		

Site 09 - Results Summary Sheet

109 Miranda Rd Street, Miranda

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Sunday	28th July 2019	8:00:00 AM	5:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Aqua Car Wash				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Sutherland				
	Street Address and Suburb	109 Miranda Rd Street, Miranda				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Collector	President Avenue			
	Frontage Road ADT	20344				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
	Approximate Café Seating Capacity	14				
B. Parking	Parking Spaces Provided On-Site	18				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee			
		NA	NA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:15:00 AM	12:15:00 PM	
			In (vph)	31	Total	
			Out (vph)	25		56
		Daily	Time	8:00:00 AM	5:00:00 PM	
			Total In + Out (Vpd)	315		
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	9.3333	5.3333	2.2346	
		Daily	52.5000	30.0000	1.5484	
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split				
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%		
		Total Private Vehicles	315	96.6%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	11	3.4%		
		On Foot	0	0.0%		
		Bus				
		Cycle	0	0.0%		

Survey Undertaken by (organisation): TDC

Survey Undertaken by (surveyor): Fred Stone

Survey Contact: fred@trafficdc.com.au

Fred Stone

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential/ Retail			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
	Frontage Road Daily	Total	2760	1:30:00 PM	
		Time	8:00 AM	12:00 AM	
		Total	20344		
	Development Peak - Frontage Road Traffic	Time	11:15 AM	12:15 PM	
		Total	2506		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	3.11	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	17.50	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			35		

Site 10 - Results Summary Sheet

10-12 Flinders Street, Wollongong

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Rel Only:	
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	5:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data					
	Activity Name	Professional Car Wash			
	Land Use Description	Café Car Wash			
	Local Authority (Council)	Wollongong			
	Street Address and Suburb	10-12 Flinders Street, Wollongong			
	Survey Site General Location	Inner			
	Highest Classification of Frontage Road	Highway			
	Frontage Road ADT	18000	Flinders Street (Princes H'way)		
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	NA			
B. Parking					
	Parking Spaces Provided On-Site	3			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation					
	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	11:30:00 AM	12:30:00 PM
			In (vph)	5	Total
			Out (vph)	6	11
		PM Peak Period	Time	1:00:00 PM	2:00:00 PM
			In (vph)	14	Total
			Out (vph)	10	24
		Daily	Time	8:00:00 AM	5:00:00 PM
			Total In + Out (Vpd)	99	
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
			AM Peak Period	2.7500	1.3253
			PM Peak Period	6.0000	2.8916
			Daily	24.7500	11.9277
D. General Comments and Notes					
	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
		Modal Split	Number	%	
		Total Private Vehicles	99	75.0%	
		Car (as driver)	99	75.0%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	33	25.0%	
		On Foot	28	21.2%	
		Bus			Not surveyed
		Cycle	5	3.8%	
		TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au	

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Retail			
	Nearby on-street parking regime	No on-street parking available			
	Principal Adjacent road - Peak Period (Weekday)	AM	08:00 AM - 09:00 AM		
		PM	03:15 PM - 04:15 PM		
Traffic Generation	Frontage Road AM Peak Period	Time	8:00:00 AM	9:00:00 AM	
		Total	2123		
	Frontage Road PM Peak Period	Time	3:15:00 PM	4:15:00 PM	
		Total	2261		
	Frontage Road Daily	Time	8:00:00 AM	12:00:00 AM	
	Total	17876			
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
			3.67	trips per car space	
		PM Peak	8.00	trips per car space	
		Daily	33.00	trips per car space	
	Development Trips during Frontage Road Peaks	AM Peak	8:00:00 AM	9:00:00 AM	
			5		
		PM Peak	3:15:00 PM	4:15:00 PM	
			10		
	Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	3.67	Trips per car space	note parking spaces estimated based on aerials
PM Peak 1-hour Vehicle-trips per Car Space		8.00	Trips per car space		
Daily Vehicle-trips per Car Space		33.00	Trips per car space		

Site 10 - Results Summary Sheet

10-12 Flinders Street, Wollongong

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th	8:00:00 AM	5:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name Land Use Description Local Authority (Council) Street Address and Suburb Survey Site General Location Highest Classification of Frontage Road Frontage Road ADT Pedestrian Activity Public Transport Opportunities Approximate Café Seating Capacity	Professional Car Wash Café Car Wash Wollongong 10-12 Flinders Street, Wollongong Inner Highway 15960 Low Moderate NA			
B. Parking	Parking Spaces Provided On-Site Other Parking Spaces (On-Street/Off-Site) Staff Parking On-Site Other Safe Parking (On-Street/Off-Site) Peak Parking Demand Peak Parking Demand During Survey	3 0 0 0 NA	max occupied spaces NA Peak Parking Demand/ 100m2 GFA NA		
C. Trip Generation	Site Surveyed Arrival / Departure Flow Trip Rate Per 100m2 or other unit (state)	Daily Peak Period Car Wash Bay	Time 10:45:00 AM In (vph) Out (vph) Time 8:00:00 AM Total In + Out (Vpd) Car Wash Bay	11:45:00 AM 10 18 5:00:00 PM 97 100m2 Site Area	Total 18 Frontage (per 100 veh)
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split Modal Split Total Private Vehicles Car (as driver) Car (as passenger) Taxi Total Alt Trans (PT and Active) On Foot Bus Cycle	Number 97 0 25 25 0	% 79.5% 0.0% 20.5% 0.0% 0.0%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits Nearby Businesses	1 NA			
Area Characteristics	Surrounding land use Nearby on-street parking regime	Retail No on-street parking available			
Traffic Generation	Link Trips Frontage Road Peak Period Frontage Road Daily Development Peak - Frontage Road Traffic	Peak % Daily % Time Time Total	NA NA 12:30:00 PM 22:15 8:00 AM 15960 10:45 AM 2027	of peak responses of all responses 1:30:00 PM 12:00 AM	NA NA
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space Daily Vehicle-trips per Car Space	6.00 32.33	Trips per car space Trips per car space	note parking spaces estimated based on aerials	
Development Trips during Frontage Road Peaks		Peak 10			

Site 10 - Results Summary Sheet

10-12 Flinders Street, Wollongong

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Sunday	28th July 2019	8:00:00 AM	5:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Professional Car Wash				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Wollongong				
	Street Address and Suburb	10-12 Flinders Street, Wollongong				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Highway	Flinders Street (Princes H'way)			
	Frontage Road ADT	12971				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Moderate				
	Approximate Café Seating Capacity	NA				
B. Parking						
	Parking Spaces Provided On-Site	3				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	10:00:00 AM	11:00:00 AM	
			In (vph)	13	Total	
			Out (vph)	7	20	
		Daily	Time	8:00:00 AM	5:00:00 PM	
			Total In + Out (Vpd)	120		
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	5.0000	2.4096	3.0030	
		Daily	30.0000	14.4578	1.8248	
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split				
		Modal Split	Number	%		
		Total Private Vehicles	120	100.0%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	0	0.0%		
		On Foot	0	0.0%		
		Bus				
		Cycle	0	0.0%		
		Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Retail			
	Nearby on-street parking regime	No on-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	11:30:00 AM	12:30:00 PM	
	Frontage Road Daily	Total	1901		
		Time	8:00 AM	12:00 AM	
		Total	12971		
	Development Peak - Frontage Road Traffic	Time	10:00 AM	11:00 AM	
		Total	1462		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	6.67	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	40.00	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			12		

Site 11 - Results Summary Sheet

44 O'Riordan Street, Alexandria

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	14th June 2019	6:00:00 AM	7:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Gold Car Wash Café			
	Land Use Description	Café Car Wash			
	Local Authority (Council)	Sydney			
	Street Address and Suburb	44 O'Riordan Street, Alexandria			
	Survey Site General Location	CBD			
	Highest Classification of Frontage Road	Collector	O'Riordan Street		
	Frontage Road ADI	52804			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	35			
B. Parking	Parking Spaces Provided On-Site	2			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:15:00 AM	11:15:00 AM
			In (vph)	14	Total
			Out (vph)	12	26
		PM Peak Period	Time	2:30:00 PM	3:30:00 PM
			In (vph)	16	Total
			Out (vph)	17	33
		Daily	Time	6:00:00 AM	7:00:00 PM
			Total In + Out (Vpd)	285	
	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		AM Peak Period	2.8889	2.6000	1.4883
		PM Peak Period	3.6667	3.3000	1.5618
		Daily	31.6667	28.5000	1.1335
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personnel on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	285	91.1%	
		Car (as driver)	285	91.1%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	28	8.9%	
		On Foot	20	6.4%	
		Bus			Not surveyed
		Cycle	8	2.6%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2		
	Nearby Businesses	Power Golf		
Area Characteristics	Surrounding land use	Retail and Commerical		
	Nearby on-street parking regime	No on-street car parking		
	Principal Adjacent road - Peak Period (Weekday)	AM	08:15 AM - 09:15 AM	
		PM	03:00 PM - 04:00 PM	
Traffic Generation	Frontage Road AM Peak Period	Time	8:15:00 AM	9:15:00 AM
		Total	2174	
	Frontage Road PM Peak Period	Time	3:00:00 PM	4:00:00 PM
		Total	2228	
	Frontage Road Daily	Time	6:00:00 AM	4:00:00 PM
		Total	25143	
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak		
			13.00 trips per car space	
		PM Peak		
			16.50 trips per car space	
		Daily		
			142.50 trips per car space	
	Development Trips during Frontage Road Peaks	AM Peak	8:15:00 AM	9:15:00 AM
			19	
		PM Peak	3:15:00 PM	4:00:00 PM
			25	
Other Vehicle Trip Rate Info	AM Peak 1-hour: Vehicle-trips per Car Space	13.00	Trips per car space	note parking spaces estimated based on aerials
	PM Peak 1-hour: Vehicle-trips per Car Space	16.50	Trips per car space	
	Daily Vehicle-trips per Car Space	142.50	Trips per car space	

Site 11 - Results Summary Sheet

44 O'Riordan Street, Alexandria

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th June 2019	6:00:00 AM	7:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Gold Car Wash Café			
	Land Use Description	Café Car Wash			
	Local Authority (Council)	Sydney			
	Street Address and Suburb	44 O'Riordan Street, Alexandria			
	Survey Site General Location	CBD			
	Highest Classification of Frontage Road	Collector	O'Riordan Street		
	Frontage Road ADT	52804			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Moderate			
	Approximate Café Seating Capacity	35			
B. Parking	Parking Spaces Provided On-Site	2			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA			
		NA	NA		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time		
			12:15:00 PM	1:15:00 PM	
		In (vph)	17		Total
		Out (vph)			
			22		39
		Daily	Time	6:00:00 AM	7:00:00 PM
			Total In + Out (Vpd)	298	
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	4.3333	3.9000	1.9559
		Daily	33.1111	29.8000	1.4021
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	298	98.7%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	4	1.3%	
		On Foot	4	0.0%	
		Bus			
		Cycle	0	0.0%	
Survey Undertaken by (organisation):		TDC	Survey Contact	Fred Stone	
Survey Undertaken by (surveyor):		Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Power Golf			
Area Characteristics	Surrounding land use	Retail and Commerical			
	Nearby on-street parking regime	No on-street car parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	1:45:00 PM	2:45:00 PM	
		Total	2039		
	Frontage Road Daily	Time	6:00 AM	4:30 PM	
		Total	21254		
	Development Peak - Frontage Road Traffic	Time	12:15 PM	1:15 PM	
		Total	1994		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	19.50	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	149.00	Trips per car space		
	Development Trips during Frontage Road Peaks	Peak			
			25		

Site 11 - Results Summary Sheet

44 O'Riordan Street, Alexandria

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Sunday	16th June 2019	6:00:00 AM	7:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Gold Car Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Sydney				
	Street Address and Suburb	44 O'Riordan Street, Alexandria				
	Survey Site General Location	CBD				
	Highest Classification of Frontage Road	Collector	O'Riordan Street			
	Frontage Road ADT	52804				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Moderate				
	Approximate Café Seating Capacity	35				
B. Parking						
	Parking Spaces Provided On-Site	2				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	4:30:00 PM	5:30:00 PM	
			In (vph)	10	Total	
			Out (vph)	12	22	
		Daily	Time	6:00:00 AM	7:00:00 PM	
			Total In + Out (Vpd)	151		
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	2.4444	2.2000	1.2702	
		Daily	16.7778	15.1000	0.7856	
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split				
		Modal Split	Number	%		
		Total Private Vehicles	151	95.6%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	7	3.8%		
		On Foot	6	0.0%		
		Bus				
		Cycle	1	0.6%		
		Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone	
		Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Power Golf			
Area Characteristics	Surrounding land use	Retail and Commerical			
	Nearby on-street parking regime	No on-street car parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:45:00 PM	1:45:00 PM	
	Frontage Road Daily	Time	1996	6:00 AM	4:30 PM
		Total	19222		
	Development Peak - Frontage Road Traffic	Time	4:30 PM	5:30 PM	
		Total	1732		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	11.00	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	75.50	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			10		

Site 12 - Results Summary Sheet

1518 Canterbury Road, Punchbowl

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	6:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Zoom Car Wash Café			
	Land Use Description	Café Car Wash			
	Local Authority (Council)	Canterbury-Bankstown			
	Street Address and Suburb	1518 Canterbury Road, Punchbowl			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Major Arterial	Canterbury Road		
	Frontage Road ADI	20615			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
	Approximate Café Seating Capacity	15			
B. Parking	Parking Spaces Provided On-Site	6			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:30:00 AM	11:30:00 AM
		In (vph)	15	Total	
		Out (vph)	9	24	
		PM Peak Period	Time	12:45:00 PM	1:45:00 PM
		In (vph)	11	Total	
		Out (vph)	10	21	
		Daily	Time	8:00:00 AM	6:00:00 PM
		Total In + Out (Vpd)	119		
	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		AM Peak Period	3.4286	2.3188	1.2448
		PM Peak Period	3.0000	2.0290	0.9929
		Daily	17.0000	11.4976	0.5772
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personnel on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	119	82.6%	
		Car (as driver)	119	82.6%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	25	17.4%	
		On Foot	25	17.4%	
		Bus			Not surveyed
		Cycle	0	0.0%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2		
	Nearby Businesses	NA		
Area Characteristics	Surrounding land use	Residential		
	Nearby on-street parking regime	No on-street parking		
	Principal Adjacent road - Peak Period (Weekday)	AM	09:15 AM - 10:15 AM	
		PM	03:45 PM - 04:45 PM	
Traffic Generation	Frontage Road AM Peak Period	Time	9:15:00 AM	10:15:00 AM
		Total	1959	
	Frontage Road PM Peak Period	Time	3:45:00 PM	4:45:00 PM
		Total	2286	
	Frontage Road Daily	Time	8:00:00 AM	6:00:00 PM
		Total	20615	
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak		
		4.00 trips per car space		
		PM Peak		
		3.50 trips per car space		
		Daily		
		19.83 trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	9:15:00 AM	10:15:00 AM
		16		
		PM Peak	3:15:00 PM	4:45:00 PM
		10		
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	4.00	Trips per car space	note parking spaces estimated based on aerials
	PM Peak 1-hour Vehicle-trips per Car Space	3.50	Trips per car space	
	Daily Vehicle-trips per Car Space	19.83	Trips per car space	

Site 12 - Results Summary Sheet

1518 Canterbury Road, Punchbowl

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	6:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Zoom Car Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Canterbury-Bankstown				
	Street Address and Suburb	1518 Canterbury Road, Punchbowl				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Major Arterial	Canterbury Road			
	Frontage Road ADT	21334				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
	Approximate Café Seating Capacity	15				
B. Parking	Parking Spaces Provided On-Site	6				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Safe Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA				
		NA	NA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	1:45:00 PM	2:45:00 PM	
			In (vph)	24	Total	
			Out (vph)	11		35
		Daily	Time	8:00:00 AM	6:00:00 PM	
			Total In + Out (Vpd)	206		
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
		Daily Peak Period	5.0000	3.3816	1.4439	
		Daily	29.4286	19.9034	0.9656	
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split				
		Modal Split				
		Total Private Vehicles	206	96.3%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	8	3.7%		
		On Foot	8	0.0%		
		Bus				
		Cycle	0	0.0%		
		TDC	Survey Contact	Fred Stone		
		Fred Stone	fred@traffidc.com.au			

Survey Undertaken by (organisation):
Survey Undertaken by (surveyor):

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	1:00:00 PM	2:00:00 PM	
		Total	2475		
	Frontage Road Daily	Time	8:00 AM	5:30 PM	
		Total	21334		
	Development Peak - Frontage Road Traffic	Time	1:45 PM	2:45 PM	
		Total	2424		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	5.83	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	34.33	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			25		

Site 12 - Results Summary Sheet

1518 Canterbury Road, Punchbowl

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Sunday	28th July 2019	8:00:00 AM	6:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Zoom Car Wash Café				
	Land Use Description	Café Car Wash				
	Local Authority (Council)	Canterbury-Bankstown				
	Street Address and Suburb	1518 Canterbury Road, Punchbowl				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Major Arterial	Canterbury Road			
	Frontage Road ADT	19549				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
	Approximate Café Seating Capacity	15				
B. Parking						
	Parking Spaces Provided On-Site	6				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces	NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	2:45:00 PM	3:45:00 PM	
			In (vph)	18	Total	
			Out (vph)	14	32	
		Daily	Time	8:00:00 AM	6:00:00 PM	
			Total In + Out (Vpd)	205		
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	4.5714	3.0918	1.4849	
		Daily	29.2857	19.8068	1.0486	
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split				
		Modal Split	Number	%		
		Total Private Vehicles	205	92.8%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	16	7.2%		
		On Foot	0	0.0%		
		Bus				
		Cycle	0	0.0%		
		Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone	
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au				

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	1:30:00 PM	2:30:00 PM	
	Frontage Road Daily	Total	2333		
		Time	8:00 AM	12:00 AM	
		Total	19549		
	Development Peak - Frontage Road Traffic	Time	2:45 PM	3:45 PM	
		Total	2155		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	5.33	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	34.17	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			19		

Site 013 - Results Summary Sheet

35 Henry Street, Penrith
Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	4:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Elegance Carwash			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Penrith			
	Street Address and Suburb	35 Henry Street, Penrith			
	Survey Site General Location	Inner			
	Highest Classification of Frontage Road	Collector	6460	Henry Street	
	Frontage Road ADI	Low			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
	Approximate Café Seating Capacity	55			
B. Parking	Parking Spaces Provided On-Site	4			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	8:45:00 AM	9:45:00 AM
			In (vph)	10	Total
			Out (vph)	2	12
		PM Peak Period	Time	12:00:00 PM	1:00:00 PM
			In (vph)	5	Total
			Out (vph)	4	9
		Daily	Time	8:00:00 AM	4:00:00 PM
			Total In + Out (Vpd)	48	
	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		AM Peak Period	2.0000	1.0909	1.4354
		PM Peak Period	1.5000	0.8182	1.0962
		Daily	8.0000	4.3636	0.7430
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personnel on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	48	72.7%	
		Car (as driver)	48	72.7%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	18	27.3%	
		On Foot	18	27.3%	
		Bus			Not surveyed
		Cycle	0	0.0%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	1		
	Nearby Businesses	Family Centre		
Area Characteristics	Surrounding land use	Retail		
	Nearby on-street parking regime	On-street parking available		
	Principal Adjacent road - Peak Period (Weekday)	AM	08:15 AM - 09:15 AM	
		PM	03:00 PM - 04:00 PM	
Traffic Generation	Frontage Road AM Peak Period	Time	8:15:00 AM	9:15:00 AM
		Total	851	
	Frontage Road PM Peak Period	Time	3:00:00 PM	4:00:00 PM
		Total	920	
	Frontage Road Daily	Time	8:00:00 AM	12:00:00 AM
		Total	6460	
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak		
		3.00 trips per car space		
		PM Peak		
		2.25 trips per car space		
		Daily		
		12.00 trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	8:15:00 AM	9:15:00 AM
		7		
		PM Peak	3:15:00 PM	4:00:00 PM
		1		
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	3.00	Trips per car space	note parking spaces estimated based on aerials
	PM Peak 1-hour Vehicle-trips per Car Space	2.25	Trips per car space	
	Daily Vehicle-trips per Car Space	12.00	Trips per car space	

Site 13 - Results Summary Sheet

35 Henry Street, Penrith

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only			
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	4:00:00 PM			
	Extended Data Collection? NO	Includes Manual Survey?	No				
A. Site Data	Activity Name	Elegance Carwash					
	Land Use Description	Car Wash & Café					
	Local Authority (Council)	Penrith					
	Street Address and Suburb	35 Henry Street, Penrith					
	Survey Site General Location	Inner					
	Highest Classification of Frontage Road	Collector	6017	Henry Street			
	Frontage Road ADT	Low					
	Pedestrian Activity	Low					
	Public Transport Opportunities	Low					
	Approximate Café Seating Capacity	55					
B. Parking	Parking Spaces Provided On-Site	4					
	Other Parking Spaces (On-Street/Off-Site)	0					
	Staff Parking On-Site	0					
	Other Safe Parking (On-Street/Off-Site)	0					
	Peak Parking Demand	NA	max occupied spaces NA				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA					
		NA	Peak Parking Demand/ Employee				
		NA					
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	11:00:00 AM	12:00:00 PM		
			In (vph)	5	Total		
			Out (vph)	6	11		
		Daily	Time	8:00:00 AM	4:00:00 PM		
			Total In + Out (Vpd)	59			
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
		Daily Peak Period	1.8333	1.0000	1.2615		
		Daily	9.8333	5.3636	0.9806		
		D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
			Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Modal Split	Number	%	
Total Private Vehicles	59			83.1%			
Car (as driver)	0			0.0%			
Car (as passenger)							
Taxi							
Total Alt Trans (PT and Active)	12			16.9%			
On Foot	0			0.0%			
Bus							
Cycle	0			0.0%			
Survey Undertaken by (organisation):	TDC	Survey Contact		Fred Stone			
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au					

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	Family Centre			
Area Characteristics	Surrounding land use	Retail			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	12:30:00 PM	1:30:00 PM	
		Total	939		
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	6017		
	Development Peak - Frontage Road Traffic	Time	11:00 AM	12:00 PM	
		Total	872		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	2.75	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	14.75	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			4		

Site 13 - Results Summary Sheet

35 Henry Street, Penrith
Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Sunday	28th July 2019	8:00:00 AM	4:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Elegance Carwash				
	Land Use Description	Car Wash & Café				
	Local Authority (Council)	Penrith				
	Street Address and Suburb	35 Henry Street, Penrith				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Collector	Henry Street			
	Frontage Road ADT	4333				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
	Approximate Café Seating Capacity	55				
B. Parking						
	Parking Spaces Provided On-Site	4				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	12:45:00 PM	1:45:00 PM	
			In (vph)	7	Total	
			Out (vph)	10		17
		Daily	Time	8:00:00 AM	4:00:00 PM	
			Total In + Out (Vpd)	57		
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	2.8333	1.5455	2.2819	
		Daily	9.5000	5.1818	1.3155	
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split				
		Modal Split	Number	%		
		Total Private Vehicles	57	57.6%		
		Car (as driver)	0	0.0%		
		Car (as passenger)				
		Taxi				
		Total Alt Trans (PT and Active)	42	42.4%		
		On Foot	0	0.0%		
		Bus				
		Cycle	0	0.0%		
		TDC	Survey Contact	Fred Stone		
		Fred Stone	fred@traffidc.com.au			

Survey Undertaken by (organisation):

Survey Undertaken by (surveyor):

Site Data	Number of Entry/Exits	1			
	Nearby Businesses	Family Centre			
Area Characteristics	Surrounding land use	Retail			
	Nearby on-street parking regime	On-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	1:00:00 PM	2:00:00 PM	
	Frontage Road Daily	Total	754		
		Time	8:00 AM	12:00 AM	
		Total	4333		
	Development Peak - Frontage Road Traffic	Time	12:45 PM	1:45 PM	
		Total	745		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	4.25	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	14.25	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			16		

Site 14 - Results Summary Sheet

120 Victoria Road, Drummoyne

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:		
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	4:45:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Rainbow Hand Car Wash & Café				
	Land Use Description	Car Wash & Café				
	Local Authority (Council)	Canada Bay				
	Street Address and Suburb	120 Victoria Road, Drummoyne				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Major Arterial	Victoria Road			
	Frontage Road ADT	34287				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
Approximate Café Seating Capacity	25					
B. Parking	Parking Spaces Provided On-Site	10				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	max occupied spaces				
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:30:00 AM	11:30:00 AM	
			In (vph)	14	Total	
			Out (vph)	11	25	
		PM Peak Period	Time	1:30:00 PM	2:30:00 PM	
			In (vph)	15	Total	
			Out (vph)	13	28	
		Daily	Time	8:00:00 AM	4:45:00 PM	
			Total In + Out (Vpd)	174		
		Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
			AM Peak Period	4.1667	2.2727	1.6297
		PM Peak Period	4.6667	2.5455	1.4300	
		Daily	29.0000	15.8182	1.1104	
	D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personnel on-site, all survey done using cameras	Daily Mode Split			
			Modal Split	Number	%	
			Total Private Vehicles	174	87.4%	
			Car (as driver)	174	87.4%	
Car (as passenger)					Not surveyed	
Taxi					Not surveyed	
Total Alt Trans (PT and Active)			25	12.6%		
On Foot			25	12.6%		
Bus					Not surveyed	
Cycle			0	0.0%		
Survey Undertaken by (organisation):		TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):		Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Eurolife kitchens & wardrobes			
Area Characteristics	Surrounding land use	Retail & Residential			
	Nearby on-street parking regime	On-street parking is available			
	Principal Adjacent road - Peak Period (Weekday)	AM	08:00 AM - 09:00 AM		
		PM	03:30 PM - 04:30 PM		
Traffic Generation	Frontage Road AM Peak Period	Time	8:00:00 AM	9:00:00 AM	
		Total	4063		
	Frontage Road PM Peak Period	Time	3:30:00 PM	4:30:00 PM	
		Total	4951		
	Frontage Road Daily	Time	8:00:00 AM	12:00:00 AM	
	Total	34287			
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak			
			2.50	trips per car space	
		PM Peak	2.80	trips per car space	
		Daily	17.40	trips per car space	
	Development Trips during Frontage Road Peaks	AM Peak	8:00:00 AM	9:00:00 AM	
			13		
		PM Peak	3:30:00 PM	4:30:00 PM	
			20		
	Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	2.50	Trips per car space	note parking spaces estimated based on aerials
PM Peak 1-hour Vehicle-trips per Car Space		2.80	Trips per car space		
Daily Vehicle-trips per Car Space		17.40	Trips per car space		

Site 14 - Results Summary Sheet

120 Victoria Road, Drummoyne

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	4:45:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?			
A. Site Data	Activity Name	Rainbow Hand Car Wash & Café			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Canada Bay			
	Street Address and Suburb	120 Victoria Road, Drummoyne			
	Survey Site General Location	Inner			
	Highest Classification of Frontage Road	Major Arterial			
	Frontage Road ADT	36175			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
	Approximate Café Seating Capacity	25			
B. Parking					
	Parking Spaces Provided On-Site	10			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Safe Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA			
		NA			
		NA			
		NA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	12:30:00 PM	1:30:00 PM
			In (vph)	15	Total
			Out (vph)		
				15	30
		Daily	Time	8:00:00 AM	4:45:00 PM
	Trip Rate Per 100m2 or other unit (state)		Total In + Out (Vpd)	183	
			Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		Daily Peak Period	5.0000	2.7273	0.379842998
		Daily	30.5000	16.6364	0.2986
D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
		Modal Split			
		Total Private Vehicles	183	90.1%	
		Car (as driver)	0	0.0%	
		Car (as passenger)			
		Taxi			
		Total Alt Trans (PT and Active)	20	9.9%	
		On Foot	0	0.0%	
		Bus			
		Cycle	0	0.0%	
		TDC	Survey Contact	Fred Stone	
		Fred Stone	fred@traffidc.com.au		

Survey Undertaken by (organisation):

Survey Undertaken by (surveyor):

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Eurolife kitchens & wardrobes			
Area Characteristics	Surrounding land use	Retail & Residential			
	Nearby on-street parking regime	On-street parking is available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
		Daily %	NA	of all responses	NA
	Frontage Road Peak Period	Time	1:45:00 PM	2:45:00 PM	
		Total	4659		
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	36175		
	Development Peak - Frontage Road Traffic	Time	12:30 PM	1:30 PM	
		Total	4409		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	3.00	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	18.30	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			24		

Site 14 - Results Summary Sheet

120 Victoria Road, Drummoyne

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	0	0	8:00:00 AM	4:45:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Rainbow Hand Car Wash & Café				
	Land Use Description	Car Wash & Café				
	Local Authority (Council)	Canada Bay				
	Street Address and Suburb	120 Victoria Road, Drummoyne				
	Survey Site General Location	Inner				
	Highest Classification of Frontage Road	Major Arterial	Victoria Road			
	Frontage Road ADT	32292				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
	Approximate Café Seating Capacity	25				
B. Parking						
	Parking Spaces Provided On-Site	10				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces	NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	2:00:00 PM	3:00:00 PM	
			In (vph)	16	Total	
			Out (vph)	14	30	
		Daily	Time	8:00:00 AM	4:45:00 PM	
			Total In + Out (Vpd)	201		
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		Daily Peak Period	5.0000	2.7273	1.5464	
		Daily	33.5000	18.2727	1.4115	
	D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
Modal Split			Number	%		
Total Private Vehicles			201	85.5%		
Car (as driver)			0	0.0%		
Car (as passenger)						
Taxi						
Total Alt Trans (PT and Active)			34	14.5%		
On Foot			0	0.0%		
Bus						
Cycle			0	0.0%		
Survey Undertaken by (organisation):			TDC	Survey Contact	Fred Stone	
Survey Undertaken by (surveyor):			Fred Stone	fred@traffidc.com.au		

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	Eurolife kitchens & wardrobes			
Area Characteristics	Surrounding land use	Retail & Residential			
	Nearby on-street parking regime	On-street parking is available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:15:00 PM	1:15:00 PM	
		Total	4208		
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	32292		
	Development Peak - Frontage Road Traffic	Time	2:00 PM	3:00 PM	
		Total	4167		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	3.00	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	20.10	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
					27

Site 15 - Results Summary Sheet

750 Victoria Road, Ryde
Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only:	
Survey Period Date and Time	Friday	14th June 2019	8:00:00 AM	6:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Sydney Car Wash Café			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Ryde			
	Street Address and Suburb	750 Victoria Road, Ryde			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Major Arterial	Victoria Road		
	Frontage Road ADI	Low	69737		
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
	Approximate Café Seating Capacity	6			
B. Parking	Parking Spaces Provided On-Site	3			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	max occupied spaces			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Staff		
C. Trip Generation	Site Surveyed Arrival / Departure Flow	AM Peak Period	Time	10:30:00 AM	11:30:00 AM
			In (vph)	6	Total
			Out (vph)	4	10
		PM Peak Period	Time	12:30:00 PM	1:30:00 PM
			In (vph)	9	Total
			Out (vph)	2	11
		Daily	Time	8:00:00 AM	6:00:00 PM
			Total In + Out (Vpd)	72	
	Peak trip Rate per 100m ² or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)	
		AM Peak Period	3.3333	1.1050	0.8183
		PM Peak Period	3.6667	1.2155	0.7687
		Daily	24.0000	7.9558	0.4693
D. General Comments and Notes	Site Characteristics/Notes	Daily Mode Split			
	Alternate survey method used. No parking surveys or customer questionnaires. No survey personnel on-site, all survey done using cameras	Modal Split	Number	%	
		Total Private Vehicles	72	62.1%	
		Car (as driver)	72	62.1%	
		Car (as passenger)			Not surveyed
		Taxi			Not surveyed
		Total Alt Trans (PT and Active)	44	37.9%	
		On Foot	44	37.9%	
		Bus			Not surveyed
		Cycle	0	0.0%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2		
	Nearby Businesses	NA		
Area Characteristics	Surrounding land use	Residential		
	Nearby on-street parking regime	No on-street parking available		
	Principal Adjacent road - Peak Period (Weekday)	AM	08:00 AM - 09:00 AM	
		PM	04:00 PM - 05:00 PM	
Traffic Generation	Frontage Road AM Peak Period	Time	8:00:00 AM	9:00:00 AM
		Total	3550	
	Frontage Road PM Peak Period	Time	4:00:00 PM	5:00:00 PM
		Total	3729	
	Frontage Road Daily	Time	8:00:00 AM	6:00:00 PM
		Total	30530	
Vehicle Trips	Peak 1-hour Vehicle-trips per Car Space (note parking spaces estimated based on aerials)	AM Peak		
		3.33 trips per car space		
		PM Peak		
		3.67 trips per car space		
		Daily		
		24.00 trips per car space		
	Development Trips during Frontage Road Peaks	AM Peak	8:00:00 AM	9:00:00 AM
		6		
		PM Peak	4:00:00 PM	5:00:00 PM
		5		
Other Vehicle Trip Rate Info	AM Peak 1-hour Vehicle-trips per Car Space	3.33	Trips per car space	note parking spaces estimated based on aerials
	PM Peak 1-hour Vehicle-trips per Car Space	3.67	Trips per car space	
	Daily Vehicle-trips per Car Space	24.00	Trips per car space	

Site 15 - Results Summary Sheet

750 Victoria Road, Ryde

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only		
Survey Period Date and Time	Saturday	15th June 2019	8:00:00 AM	6:00:00 PM		
	Extended Data Collection? NO	Includes Manual Survey?	No			
A. Site Data	Activity Name	Sydney Car Wash Café				
	Land Use Description	Car Wash & Café				
	Local Authority (Council)	Ryde				
	Street Address and Suburb	750 Victoria Road, Ryde				
	Survey Site General Location	Suburbs				
	Highest Classification of Frontage Road	Major Arterial	Victoria Road			
	Frontage Road ADT	69737				
	Pedestrian Activity	Low				
	Public Transport Opportunities	Low				
	Approximate Café Seating Capacity	6				
B. Parking	Parking Spaces Provided On-Site	3				
	Other Parking Spaces (On-Street/Off-Site)	0				
	Staff Parking On-Site	0				
	Other Staff Parking (On-Street/Off-Site)	0				
	Peak Parking Demand	NA	max occupied spaces NA			
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA				
		NA	NA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	10:00:00 AM	11:00:00 AM	
			In (vph)	10	Total	
			Out (vph)	8	18	
		Daily	Time	8:00:00 AM	6:00:00 PM	
			Total In + Out (Vpd)	113		
	Trip Rate Per 100m2 or other unit (state)	Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)		
		Daily Peak Period	6.0000	1.9890	1.1414	
		Daily	37.6667	12.4862	0.7145	
	D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split			
			Modal Split			
Total Private Vehicles			113	94.2%		
Car (as driver)			0	0.0%		
Car (as passenger)						
Taxi						
Total Alt Trans (PT and Active)			7	5.8%		
On Foot			0	0.0%		
Bus						
Cycle			0	0.0%		
TDC			Survey Contact	Fred Stone		
Fred Stone			fred@traffidc.com.au			

Survey Undertaken by (organisation):

Survey Undertaken by (surveyor):

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	4:15:00 PM	5:15:00 PM	
	Frontage Road Daily	Total	3365		
		Time	8:00 AM	12:00 AM	
		Total	31251		
	Development Peak - Frontage Road Traffic	Time	10:00 AM	11:00 AM	
		Total	2976		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	6.00	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	37.67	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			5		

Site 15 - Results Summary Sheet

750 Victoria Road, Ryde

Notes: Summary of survey results and preliminary analysis for site, as per RMS template.



Survey for:	Roads and Maritime Services NSW			Office Ref Only	
Survey Period Date and Time	Sunday	16th June 2019	8:00:00 AM	6:00:00 PM	
	Extended Data Collection? NO	Includes Manual Survey?	No		
A. Site Data	Activity Name	Sydney Car Wash Café			
	Land Use Description	Car Wash & Café			
	Local Authority (Council)	Ryde			
	Street Address and Suburb	750 Victoria Road, Ryde			
	Survey Site General Location	Suburbs			
	Highest Classification of Frontage Road	Major Arterial	Victoria Road		
	Frontage Road ADT	69737			
	Pedestrian Activity	Low			
	Public Transport Opportunities	Low			
	Approximate Café Seating Capacity	6			
B. Parking					
	Parking Spaces Provided On-Site	3			
	Other Parking Spaces (On-Street/Off-Site)	0			
	Staff Parking On-Site	0			
	Other Staff Parking (On-Street/Off-Site)	0			
	Peak Parking Demand	NA	max occupied spaces NA		
	Peak Parking Demand During Survey	Peak Parking Demand/ 100m2 GFA	Peak Parking Demand/ Employee		
	NA	NA			
C. Trip Generation	Site Surveyed Arrival / Departure Flow	Daily Peak Period	Time	3:15:00 PM	4:15:00 PM
			In (vph)	6	Total
			Out (vph)	6	12
		Daily	Time	8:00:00 AM	6:00:00 PM
			Total In + Out (Vpd)	41	
	Trip Rate Per 100m2 or other unit (state)		Car Wash Bay	100m2 Site Area	Frontage (per 100 veh)
		Daily Peak Period	4.0000	1.3260	0.8837
		Daily	13.6667	4.5304	0.3414
	D. General Comments and Notes	Site Characteristics/Notes Alternate survey method used. No parking surveys or customer questionnaires. No survey personell on-site, all survey done using cameras	Daily Mode Split		
Modal Split			Number	%	
Total Private Vehicles			41	91.1%	
Car (as driver)			0	0.0%	
Car (as passenger)					
Taxi					
Total Alt Trans (PT and Active)			4	8.9%	
On Foot			4	8.9%	
Bus					
Cycle			0	0.0%	
Survey Undertaken by (organisation):	TDC	Survey Contact	Fred Stone		
Survey Undertaken by (surveyor):	Fred Stone	fred@traffidc.com.au			

Site Data	Number of Entry/Exits	2			
	Nearby Businesses	NA			
Area Characteristics	Surrounding land use	Residential			
	Nearby on-street parking regime	No on-street parking available			
Traffic Generation	Link Trips	Peak %	NA	of peak responses	NA
	Frontage Road Peak Period	Daily %	NA	of all responses	NA
		Time	12:00:00 PM	1:00:00 PM	
		Total	2783		
	Frontage Road Daily	Time	8:00 AM	12:00 AM	
		Total	23869		
	Development Peak - Frontage Road Traffic	Time	3:15 PM	4:15 PM	
		Total	2572		
Other Vehicle Trip Rate Info	Peak 1-hour Vehicle-trips per Car Space	4.00	Trips per car space	note parking spaces estimated based on aerials	
	Daily Vehicle-trips per Car Space	13.67	Trips per car space		
Development Trips during Frontage Road Peaks		Peak			
			5		

Appendix B: TDC Survey Data Results

Car Wash Cafe Site Information	
Site Location	Blue Flame Café & Car Wash, Muswellbrook
Building Area m ²	1800
Year Opened	Unknown
Opening Times	6:00am - 7:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	Manual
Number of Employees per shift	Unknown
Surrounding Land Use	Service Station
Proximity to Public Transport	No
Survey Date	29th - 31st March 2019
Survey Period	6:00am - 7:00pm
Number of Pedestrian Access Points	Unknown
Number of Vehicle Entry/Exit Points	5
Number of On-Site Parking Bays (Including bicycle parking)	Approximately 10
Number of Loading bays	Unknown
Number of Car Wash Bays	Approximately 4
Number of Hybrid/Electric Bays	Unknown
Number of Disabled Bays	Unknown
Number of Bicycle Parking Bays	Unknown
Number of Staff Parking Bays	Unknown
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	Busiest period for the Café is before 6am (miners getting breakfast). Café is connected to service station. Staff work in the car wash and Café if car wash is quiet.

Site Map



		Friday 29th March 2019				
15 minute Period		Cars	Occupant s	Exiting Vehicle	Peds	Bicycles
Start	End					
6:00	6:15	12	16	11	1	0
6:15	6:30	11	15	9	0	0
6:30	6:45	12	16	12	3	0
6:45	7:00	8	8	10	0	0
7:00	7:15	3	3	10	2	1
7:15	7:30	8	10	5	0	0
7:30	7:45	8	10	12	0	0
7:45	8:00	7	9	10	1	0
8:00	8:15	6	6	15	0	0
8:15	8:30	3	3	1	1	0
8:30	8:45	2	2	6	1	0
8:45	9:00	5	5	7	0	0
9:00	9:15	4	5	4	1	1
9:15	9:30	3	4	10	1	0
9:30	9:45	8	11	10	2	0
9:45	10:00	1	2	3	2	0
10:00	10:15	4	9	7	3	0
10:15	10:30	5	6	6	4	1
10:30	10:45	6	9	4	0	0
10:45	11:00	2	2	8	1	0
11:00	11:15	4	7	5	1	0
11:15	11:30	1	1	1	1	0
11:30	11:45	4	4	5	3	0
11:45	12:00	4	6	10	4	0
12:00	12:15	9	12	11	2	0
12:15	12:30	3	3	10	2	0
12:30	12:45	2	3	8	3	0
12:45	13:00	0	0	3	0	0
13:00	13:15	1	1	5	0	0
13:15	13:30	4	10	2	0	0
13:30	13:45	2	3	4	1	0
13:45	14:00	3	4	5	1	0
14:00	14:15	5	8	5	1	1
14:15	14:30	2	2	3	1	0
14:30	14:45	4	5	4	0	0
14:45	15:00	1	1	5	0	0
15:00	15:15	3	4	4	1	0
15:15	15:30	3	3	4	0	0
15:30	15:45	1	1	1	2	0
15:45	16:00	3	4	4	0	0
16:00	16:15	3	5	4	0	0
16:15	16:30	2	2	7	1	0
16:30	16:45	0	0	1	1	1
16:45	17:00	2	2	3	0	0
17:00	17:15	4	6	6	0	0
17:15	17:30	3	5	3	0	0
17:30	17:45	5	7	13	0	1
17:45	18:00	1	1	2	0	0
18:00	18:15	2	2	4	0	0
18:15	18:30	0	0	4	0	0
18:30	18:45	0	0	4	0	0
18:45	19:00	0	0	5	0	0
13 Hr Total		199	263	315	48	6

		Saturday 30th March 2019				
15 minut		Cars	Occupant s	Exiting Vehicle	Peds	Bicycles
Start	End					
6:00	6:15	7	10	7	0	0
6:15	6:30	6	9	2	0	0
6:30	6:45	2	2	5	0	0
6:45	7:00	0	0	1	0	0
7:00	7:15	5	5	2	0	0
7:15	7:30	4	4	2	0	0
7:30	7:45	4	4	7	0	0
7:45	8:00	8	10	5	0	0
8:00	8:15	6	9	3	0	1
8:15	8:30	2	4	4	0	0
8:30	8:45	1	1	3	0	0
8:45	9:00	3	4	7	0	0
9:00	9:15	4	5	4	1	0
9:15	9:30	6	12	5	0	0
9:30	9:45	4	8	9	1	0
9:45	10:00	4	4	5	1	0
10:00	10:15	3	7	4	0	0
10:15	10:30	1	2	1	2	0
10:30	10:45	3	4	3	1	0
10:45	11:00	3	5	6	1	0
11:00	11:15	2	3	10	2	0
11:15	11:30	2	2	3	1	0
11:30	11:45	2	4	6	0	0
11:45	12:00	4	7	6	0	0
12:00	12:15	1	2	3	2	0
12:15	12:30	4	6	6	0	0
12:30	12:45	2	3	4	1	0
12:45	13:00	1	1	3	1	0
13:00	13:15	4	5	3	0	0
13:15	13:30	1	5	2	3	0
13:30	13:45	3	5	3	0	0
13:45	14:00	3	5	5	0	0
14:00	14:15	4	5	3	0	0
14:15	14:30	2	2	3	0	0
14:30	14:45	0	0	4	0	1
14:45	15:00	0	0	5	0	0
15:00	15:15	1	1	2	1	0
15:15	15:30	0	0	0	1	0
15:30	15:45	4	4	4	1	0
15:45	16:00	0	0	1	3	0
16:00	16:15	3	6	4	4	0
16:15	16:30	1	2	2	0	0
16:30	16:45	0	0	2	0	0
16:45	17:00	1	1	2	0	0
17:00	17:15	2	2	3	1	0
17:15	17:30	0	0	1	0	0
17:30	17:45	2	2	3	0	0
17:45	18:00	5	5	6	0	0
18:00	18:15	0	0	1	0	0
18:15	18:30	4	4	7	0	0
18:30	18:45	0	0	1	0	0
18:45	19:00	0	0	4	0	0
13 Hr Total		134	191	197	28	2

		Sunday 31st March 2019				
15 minute		Cars	Occupant s	Exiting Vehicle	Peds	Bicycles
Start	End					
6:00	6:15	8	9	4	0	0
6:15	6:30	2	2	4	0	0
6:30	6:45	6	7	5	0	0
6:45	7:00	3	3	3	0	0
7:00	7:15	2	5	2	0	0
7:15	7:30	3	4	3	1	0
7:30	7:45	0	0	1	0	0
7:45	8:00	2	3	2	0	0
8:00	8:15	7	9	4	0	0
8:15	8:30	4	4	3	0	0
8:30	8:45	0	0	2	0	0
8:45	9:00	0	0	2	1	0
9:00	9:15	5	6	5	0	0
9:15	9:30	4	5	5	0	0
9:30	9:45	3	4	3	0	0
9:45	10:00	5	6	10	1	0
10:00	10:15	5	5	2	0	0
10:15	10:30	2	3	2	0	0
10:30	10:45	5	12	2	0	0
10:45	11:00	8	10	7	1	0
11:00	11:15	5	7	7	0	0
11:15	11:30	4	4	4	0	0
11:30	11:45	4	5	2	0	0
11:45	12:00	0	0	1	0	0
12:00	12:15	4	5	2	0	0
12:15	12:30	3	9	5	4	0
12:30	12:45	4	7	4	1	0
12:45	13:00	1	1	1	1	0
13:00	13:15	1	1	2	0	0
13:15	13:30	3	3	4	0	0
13:30	13:45	0	0	1	2	0
13:45	14:00	1	1	0	0	0
14:00	14:15	1	1	2	1	0
14:15	14:30	1	2	4	0	0
14:30	14:45	3	3	3	0	0
14:45	15:00	1	1	4	0	0
15:00	15:15	0	0	3	0	0
15:15	15:30	4	6	5	1	0
15:30	15:45	1	3	7	1	0
15:45	16:00	1	2	2	0	0
16:00	16:15	3	6	4	0	1
16:15	16:30	2	6	3	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	3	3	4	1	0
17:00	17:15	0	0	2	0	0
17:15	17:30	0	0	1	1	0
17:30	17:45	5	6	3	0	0
17:45	18:00	3	4	5	0	0
18:00	18:15	7	7	9	0	0
18:15	18:30	5	6	13	0	0
18:30	18:45	1	1	0	0	0
18:45	19:00	0	0	5	0	0
13 Hr Total		145	197	183	17	1

Site Location	Muswellbrook
Survey Date	29th - 31st March 2019
Survey Period	6:00am - 7:00pm
Main Traffic Flow	Maitland Street (New England Highway)
AM Peak Period	11:00am to
PM Peak Period	12:00pm to 1:00pm



AM Peak Period	10:45am to
PM Peak Period	12:00pm to 1:00pm

AM Peak Period	11:00a m to
PM Peak Period	2:00pm to 3:00pm

Friday 29th March 2019						
15 min Period		d Eastbound		Northbound Westbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
6:00 AM	6:15 AM	61	13	55	9	
6:15 AM	6:30 AM	68	11	50	10	
6:30 AM	6:45 AM	74	13	75	13	
6:45 AM	7:00 AM	42	12	54	13	573
7:00 AM	7:15 AM	36	8	57	13	549
7:15 AM	7:30 AM	63	10	71	18	572
7:30 AM	7:45 AM	61	4	86	14	562
7:45 AM	8:00 AM	80	6	79	10	616
8:00 AM	8:15 AM	49	12	101	11	675
8:15 AM	8:30 AM	74	8	91	10	696
8:30 AM	8:45 AM	72	11	92	17	723
8:45 AM	9:00 AM	100	12	118	13	791
9:00 AM	9:15 AM	96	10	70	9	803
9:15 AM	9:30 AM	110	17	119	9	875
9:30 AM	9:45 AM	114	11	128	15	951
9:45 AM	10:00 AM	108	6	131	10	963
10:00 AM	10:15 AM	97	14	103	9	1001
10:15 AM	10:30 AM	125	9	129	12	1021
10:30 AM	10:45 AM	124	9	143	13	1042
10:45 AM	11:00 AM	120	14	132	18	1071
11:00 AM	11:15 AM	145	13	119	18	1143
11:15 AM	11:30 AM	146	15	139	8	1176
11:30 AM	11:45 AM	134	16	188	10	1235
1:00 PM	1:15 PM	120	17	137	11	1270
1:15 PM	1:30 PM	133	16	129	3	1172
1:30 PM	1:45 PM	108	9	124	7	1094
1:45 PM	2:00 PM	113	10	116	9	1062
2:00 PM	2:15 PM	127	12	111	5	1032
2:15 PM	2:30 PM	125	15	106	7	1004
2:30 PM	2:45 PM	137	7	102	7	1009
2:45 PM	3:00 PM	139	6	119	13	1038
3:00 PM	3:15 PM	88	18	123	10	1022
3:15 PM	3:30 PM	117	10	99	11	1006
3:30 PM	3:45 PM	137	10	116	7	1023
3:45 PM	4:00 PM	133	7	112	9	1007
4:00 PM	4:15 PM	108	14	119	5	1014
4:15 PM	4:30 PM	109	16	125	7	1034
4:30 PM	4:45 PM	123	10	127	9	1033
4:45 PM	5:00 PM	128	12	124	12	1048
5:00 PM	5:15 PM	99	7	142	9	1059
5:15 PM	5:30 PM	126	6	104	2	1040
5:30 PM	5:45 PM	117	3	108	8	1007
5:45 PM	6:00 PM	124	10	123	11	999
6:00 PM	6:15 PM	101	4	121	9	977
6:15 PM	6:30 PM	96	6	103	3	947
6:30 PM	6:45 PM	95	6	95	6	913
6:45 PM	7:00 PM	83	2	84	4	818
AM Peak Period		583	62	591	53	1289
PM Peak Period		606	48	667	39	1360
13 Hr Total		5649	553	5911	522	12635

Saturday 30th March 2019						
15 min Period		Southbound Eastbound		Northbound Westbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
6:00 AM	6:15 AM	37	2	19	2	
6:15 AM	6:30 AM	30	3	24	3	
6:30 AM	6:45 AM	34	1	26	2	
6:45 AM	7:00 AM	31	2	29	2	247
7:00 AM	7:15 AM	45	6	28	4	270
7:15 AM	7:30 AM	40	6	33	0	289
7:30 AM	7:45 AM	43	2	38	1	310
7:45 AM	8:00 AM	47	4	41	4	342
8:00 AM	8:15 AM	45	2	47	1	354
8:15 AM	8:30 AM	62	4	62	3	406
8:30 AM	8:45 AM	80	1	66	1	470
8:45 AM	9:00 AM	65	2	86	1	528
9:00 AM	9:15 AM	75	5	71	8	592
9:15 AM	9:30 AM	96	2	73	8	640
9:30 AM	9:45 AM	105	5	85	4	691
9:45 AM	10:00 AM	90	6	106	4	743
10:00 AM	10:15 AM	118	2	91	3	798
10:15 AM	10:30 AM	135	7	116	2	879
10:30 AM	10:45 AM	102	3	107	5	897
10:45 AM	11:00 AM	106	8	102	4	911
11:00 AM	11:15 AM	121	3	110	4	935
11:15 AM	11:30 AM	105	3	131	4	918
11:30 AM	11:45 AM	121	5	122	4	953
11:45 AM	12:00 PM	115	3	91	7	949
12:00 PM	12:15 PM	132	2	102	3	950
12:15 PM	12:30 PM	113	5	100	5	930
12:30 PM	12:45 PM	103	4	113	3	901
12:45 PM	1:00 PM	114	3	112	1	915
1:00 PM	1:15 PM	94	7	112	1	890
1:15 PM	1:30 PM	105	6	99	1	878
1:30 PM	1:45 PM	82	0	90	5	832
1:45 PM	2:00 PM	101	4	91	2	800
2:00 PM	2:15 PM	88	5	99	0	778
2:15 PM	2:30 PM	93	4	80	1	745
2:30 PM	2:45 PM	82	2	85	4	741
2:45 PM	3:00 PM	87	3	105	1	739
3:00 PM	3:15 PM	79	6	70	4	706
3:15 PM	3:30 PM	90	0	83	1	702
3:30 PM	3:45 PM	83	0	88	3	703
3:45 PM	4:00 PM	83	2	83	7	682
4:00 PM	4:15 PM	77	8	82	2	692
4:15 PM	4:30 PM	61	2	87	3	671
4:30 PM	4:45 PM	57	2	81	6	643
4:45 PM	5:00 PM	46	3	86	2	605
5:00 PM	5:15 PM	62	7	75	2	582
5:15 PM	5:30 PM	67	3	80	4	583
5:30 PM	5:45 PM	50	0	77	4	568
5:45 PM	6:00 PM	66	2	90	1	590
6:00 PM	6:15 PM	67	2	74	3	590
6:15 PM	6:30 PM	51	2	71	1	561
6:30 PM	6:45 PM	45	2	58	5	540
6:45 PM	7:00 PM	47	1	68	1	498
AM Peak Period		453	19	465	16	953
PM Peak Period		462	14	427	12	915
13 Hr Total		4073	174	4145	157	8549

Sunday 31st March 2019						
15 min Period		Southbound Eastbound		Northbound Westbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
6:00 AM	6:15 AM	16	1	24	1	
6:15 AM	6:30 AM	17	2	12	3	
6:30 AM	6:45 AM	26	2	20	2	
6:45 AM	7:00 AM	27	1	17	0	171
7:00 AM	7:15 AM	31	1	29	0	190
7:15 AM	7:30 AM	24	0	24	2	206
7:30 AM	7:45 AM	22	0	33	2	213
7:45 AM	8:00 AM	29	0	24	4	225
8:00 AM	8:15 AM	26	2	37	2	231
8:15 AM	8:30 AM	35	2	39	3	260
8:30 AM	8:45 AM	43	2	54	7	309
8:45 AM	9:00 AM	50	5	53	2	362
9:00 AM	9:15 AM	73	4	48	1	421
9:15 AM	9:30 AM	64	3	66	1	476
9:30 AM	9:45 AM	86	1	79	2	538
9:45 AM	10:00 AM	83	3	79	1	594
10:00 AM	10:15 AM	99	5	82	4	658
10:15 AM	10:30 AM	97	0	94	1	716
10:30 AM	10:45 AM	76	0	89	2	715
10:45 AM	11:00 AM	95	5	100	2	751
11:00 AM	11:15 AM	111	2	99	1	774
11:15 AM	11:30 AM	141	5	112	3	843
11:30 AM	11:45 AM	106	2	111	3	898
11:45 AM	12:00 PM	99	7	123	4	929
12:00 PM	12:15 PM	106	2	102	3	929
12:15 PM	12:30 PM	118	4	141	2	933
12:30 PM	12:45 PM	95	1	99	5	911
12:45 PM	1:00 PM	103	5	110	5	901
1:00 PM	1:15 PM	94	2	117	2	903
1:15 PM	1:30 PM	110	5	101	3	857
1:30 PM	1:45 PM	109	2	120	2	890
1:45 PM	2:00 PM	126	4	95	3	895
2:00 PM	2:15 PM	115	6	117	1	919
2:15 PM	2:30 PM	109	2	107	6	924
2:30 PM	2:45 PM	114	4	124	2	935
2:45 PM	3:00 PM	133	2	119	4	965
3:00 PM	3:15 PM	90	3	121	6	946
3:15 PM	3:30 PM	112	2	116	10	962
3:30 PM	3:45 PM	108	7	111	8	952
3:45 PM	4:00 PM	96	3	121	9	923
4:00 PM	4:15 PM	96	3	126	6	934
4:15 PM	4:30 PM	70	6	114	2	886
4:30 PM	4:45 PM	84	2	114	3	855
4:45 PM	5:00 PM	91	4	124	2	847
5:00 PM	5:15 PM	78	7	115	3	819
5:15 PM	5:30 PM	74	3	94	3	801
5:30 PM	5:45 PM	75	10	76	2	761
5:45 PM	6:00 PM	78	4	103	4	729
6:00 PM	6:15 PM	94	0	123	2	745
6:15 PM	6:30 PM	77	5	75	4	732
6:30 PM	6:45 PM	48	6	67	6	696
6:45 PM	7:00 PM	54	5	68	5	639
AM Peak Period		457	16	445	11	3444
PM Peak Period		471	14	467	13	3743
13 Hr Total		4133	164	4468	166	34669

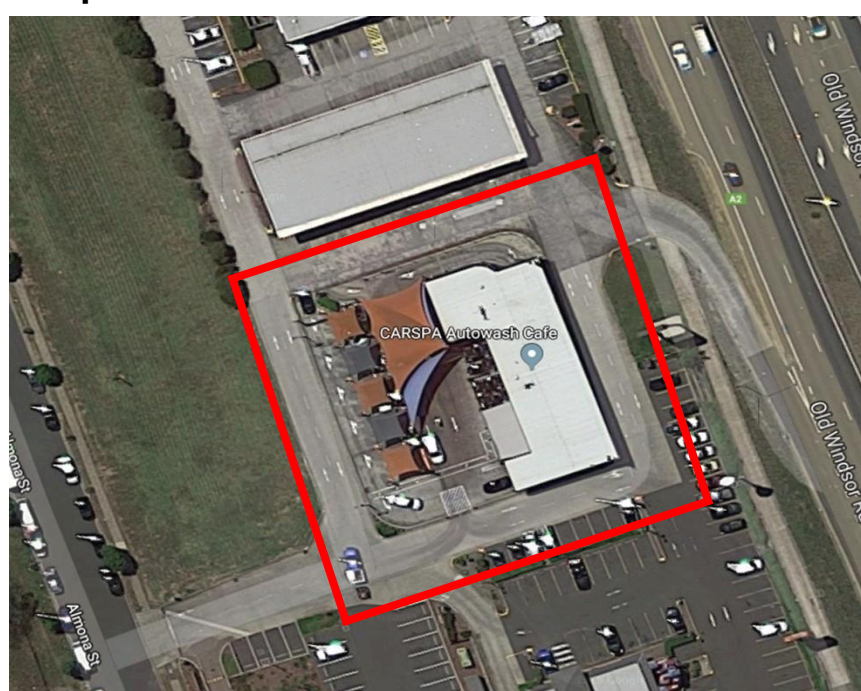
CARWASH CAFE TRIP GENERATION SURVEY					
Site Location:-	Muswellbrook				
Survey Day and Date:-	Friday 29th March 2019				
Survey Period:-	6:00am - 7:00pm				
Interview Number	Response to the following questions				
	1	2	3	4	5
	What mode of transport did you use to get here? Car - Driver (D) or Passenger (P) / Bus (B) / Train (T) / Taxi or Uber (U) / on foot (F) or Cycle (C)	If arrived by car, is the vehicle parked on site (O) or elsewhere (E)?	Are you a customer or employee? - Customer (C) or Employee (E)	Have you visited or will you visit any other venues before and/or after the carwash/café? - Yes (Y) or No (N)	How long is your visit to the carwash today? (i.e. 5-10mins, 10-30mins, 30-1hr, 1-2hr, 2-5hrs)
1	On foot		Customer	Yes	0 - 10 minutes
2	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
3	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
4	Car as Driver	On Site	Employee	No	5+ hours
5	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
6	Car as Driver	On Site	Customer	No	0 - 10 minutes
7	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
8	Car as Driver	On Site	Customer	No	30 - 60 minutes
9	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
10	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
11	Car as Driver	On Site	Customer	No	0 - 10 minutes
12	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
13	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
14	On foot		Customer	No	0 - 10 minutes
15	On foot		Customer	Yes	0 - 10 minutes
16	Car as Passenger	On Site	Customer	Yes	0 - 10 minutes
17	Car as Passenger	On Site	Customer	Yes	0 - 10 minutes
18	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
19	Car as Passenger	Elsewhere	Customer	No	0 - 10 minutes
20	On foot		Customer	No	0 - 10 minutes
21	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
22	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
23	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
24	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
25	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
26	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
27	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
28	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
29	Car as Driver	On Site	Customer	Yes	10 - 30 minutes
30	Car as Driver	On Site	Customer	No	30 - 60 minutes
31	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
32	Car as Driver	On Site	Customer	Yes	0 - 10 minutes

CARWASH CAFE TRIP GENERATION SURVEY					
Site Location:-	Muswellbrook				
Survey Day and Date:-	Saturday 30th March 2019				
Survey Period:-	6:00am - 7:00pm				
Interview Number	Response to the following questions				
	1	2	3	4	5
	What mode of transport did you use to get here? Car - Driver (D) or Passenger (P) / Bus (B) / Train (T / Taxi or Uber (U) / on foot (F) or Cycle (C)	If arrived by car, is the vehicle parked on site (O) or elsewhere (E)?	Are you a customer or employee? - Customer (C) or Employee (E)	Have you visited or will you visit any other venues before and/or after the carwash/café? - Yes (Y) or No (N)	How long is your visit to the carwash today? (i.e. 5-10mins, 10-30mins, 30-1hr, 1-2hr, 2-5hrs)
1	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
2	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
3	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
4	Car as Driver	On Site	Employee	No	5+ hours
5	Car as Driver	On Site	Employee	No	5+ hours
6	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
7	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
8	Car as Passenger	On Site	Customer	Yes	0 - 10 minutes
9	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
10	On foot		Customer	No	0 - 10 minutes
11	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
12	Car as Passenger	On Site	Customer	Yes	0 - 10 minutes
13	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
14	Car as Driver	On Site	Customer	No	0 - 10 minutes
15	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
16	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
17	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
18	On foot		Customer	No	0 - 10 minutes
19	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
20	Car as Driver	On Site	Customer	No	0 - 10 minutes
21	Car as Driver	On Site	Customer	No	0 - 10 minutes
22	On foot		Customer	Yes	0 - 10 minutes
23	On foot		Customer	Yes	0 - 10 minutes
24	Car as Driver	On Site	Customer	No	0 - 10 minutes
25	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
26	Car as Driver	On Site	Customer	No	0 - 10 minutes
27	Car as Driver	On Site	Customer	Yes	0 - 10 minutes

CARWASH CAFE TRIP GENERATION SURVEY					
Site Location:-	Muswellbrook				
Survey Day and Date:-	Sunday 31st March 2019				
Survey Period:-	6:00am - 7:00pm				
Interview Number	Response to the following questions				
	1	2	3	4	5
	What mode of transport did you use to get here? Car - Driver (D) or Passenger (P) / Bus (B) / Train (T) / Taxi or Uber (U) / on foot (F) or Cycle (C)	If arrived by car, is the vehicle parked on site (O) or elsewhere (E)?	Are you a customer or employee? - Customer (C) or Employee (E)	Have you visited or will you visit any other venues before and/or after the carwash/café? - Yes (Y) or No (N)	How long is your visit to the carwash today? (i.e. 5-10mins, 10-30mins, 30-1hr, 1-2hr, 2-5hrs)
1	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
2	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
3	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
4	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
5	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
6	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
7	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
8	Car as Driver	On Site	Customer	Yes	10 - 30 minutes
9	Car as Driver	On Site	Customer	No	0 - 10 minutes
10	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
11	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
12	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
13	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
14	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
15	On foot		Customer	Yes	0 - 10 minutes
16	On foot		Customer	Yes	0 - 10 minutes
17	On foot		Customer	Yes	0 - 10 minutes
18	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
19	Car as Passenger	On Site	Customer	Yes	0 - 10 minutes
20	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
21	On foot		Customer	No	0 - 10 minutes
22	Car as Driver	On Site	Customer	No	30 - 60 minutes
23	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
24	Car as Driver	On Site	Customer	No	0 - 10 minutes
25	Car as Driver	On Site	Customer	No	0 - 10 minutes
26	Car as Driver	On Site	Customer	Yes	0 - 10 minutes
27	Car as Driver	On Site	Customer	Yes	0 - 10 minutes

Car Wash Cafe Site Information	
Site Location	CARSPA Autowash Café, Parklea
Building Area m ²	1555
Year Opened	Unknown
Opening Times	7:30am-5:30pm Mon-Fri & 7am-5:30pm Sat & Sun
Type of Car Wash (Auto/Manual/Self/Etc)	Manual / Automated
Number of Employees per shift	Unknown
Surrounding Land Use	Service Station
Proximity to Public Transport	Yes
Survey Date	14th-16th June 2019
Survey Period	7am-5:30pm
Number of Pedestrian Access Points	Unknown
Number of Vehicle Entry/Exit Points	2
Number of On-Site Parking Bays (Including bicycle parking)	Approximately 11
Number of Loading bays	Unknown
Number of Car Wash Bays	9
Number of Hybrid/Electric Bays	Unknown
Number of Disabled Bays	Unknown
Number of Bicycle Parking Bays	Unknown
Number of Staff Parking Bays	Unknown
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



		Friday 14th June 2019			
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:30	7:45	3	0	0	0
7:45	8:00	2	2	0	0
8:00	8:15	1	3	0	0
8:15	8:30	1	0	0	0
8:30	8:45	2	0	0	0
8:45	9:00	1	0	0	0
9:00	9:15	1	1	0	0
9:15	9:30	7	2	0	0
9:30	9:45	3	1	1	0
9:45	10:00	2	1	1	0
10:00	10:15	4	4	0	0
10:15	10:30	2	2	0	0
10:30	10:45	3	3	0	0
10:45	11:00	7	1	0	0
11:00	11:15	3	2	0	0
11:15	11:30	5	2	0	0
11:30	11:45	2	3	2	0
11:45	12:00	2	3	0	0
12:00	12:15	2	2	0	0
12:15	12:30	2	5	0	0
12:30	12:45	3	3	0	0
12:45	13:00	0	4	1	0
13:00	13:15	3	6	0	0
13:15	13:30	3	1	0	0
13:30	13:45	1	1	1	0
13:45	14:00	2	4	0	0
14:00	14:15	1	2	0	0
14:15	14:30	3	1	0	0
14:30	14:45	0	2	0	0
14:45	15:00	1	2	2	0
15:00	15:15	2	1	0	0
15:15	15:30	1	0	0	0
15:30	15:45	3	2	2	0
15:45	16:00	2	2	0	0
16:00	16:15	2	1	0	0
16:15	16:30	2	3	0	0
16:30	16:45	0	2	0	0
16:45	17:00	3	1	0	0
17:00	17:15	0	0	0	0
17:15	17:30	0	1	0	0
Total		87	76	10	0

		Saturday 15th June 2019			
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:00	7:15	2	0	0	0
7:15	7:30	2	0	0	0
7:30	7:45	3	2	0	0
7:45	8:00	1	1	1	0
8:00	8:15	1	2	0	0
8:15	8:30	2	2	1	0
8:30	8:45	2	1	0	0
8:45	9:00	2	3	1	0
9:00	9:15	4	1	0	0
9:15	9:30	0	2	0	0
9:30	9:45	1	1	0	0
9:45	10:00	4	1	0	0
10:00	10:15	1	3	0	0
10:15	10:30	0	2	1	0
10:30	10:45	1	4	2	0
10:45	11:00	3	1	0	0
11:00	11:15	2	5	0	0
11:15	11:30	1	1	0	0
11:30	11:45	3	1	0	0
11:45	12:00	2	3	0	0
12:00	12:15	3	2	0	0
12:15	12:30	1	1	0	0
12:30	12:45	3	2	0	0
12:45	13:00	1	1	0	0
13:00	13:15	3	3	0	0
13:15	13:30	2	3	0	0
13:30	13:45	3	3	0	0
13:45	14:00	2	2	0	0
14:00	14:15	3	1	0	0
14:15	14:30	1	1	0	0
14:30	14:45	3	3	0	0
14:45	15:00	2	1	0	0
15:00	15:15	0	1	0	0
15:15	15:30	2	2	1	0
15:30	15:45	1	3	0	0
15:45	16:00	3	3	0	0
16:00	16:15	2	2	3	0
16:15	16:30	1	1	0	0
16:30	16:45	0	3	4	0
16:45	17:00	0	3	1	0
17:00	17:15	0	2	0	0
17:15	17:30	0	0	0	0
Total		73	79	15	0

		Sunday 16th June 2019			
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:00	7:15	1	0	0	0
7:15	7:30	0	0	0	0
7:30	7:45	1	0	0	0
7:45	8:00	1	0	0	0
8:00	8:15	2	0	1	0
8:15	8:30	0	1	0	0
8:30	8:45	1	1	0	0
8:45	9:00	2	2	0	0
9:00	9:15	0	0	0	0
9:15	9:30	1	2	0	0
9:30	9:45	2	1	0	0
9:45	10:00	2	1	0	0
10:00	10:15	0	0	0	0
10:15	10:30	1	3	0	0
10:30	10:45	0	0	3	0
10:45	11:00	0	0	0	0
11:00	11:15	3	0	0	0
11:15	11:30	2	2	1	0
11:30	11:45	0	2	0	0
11:45	12:00	0	1	0	0
12:00	12:15	0	1	0	0
12:15	12:30	2	1	0	0
12:30	12:45	1	0	0	0
12:45	13:00	1	1	0	0
13:00	13:15	0	1	0	0
13:15	13:30	0	1	0	0
13:30	13:45	2	0	0	0
13:45	14:00	2	0	0	0
14:00	14:15	0	2	0	0
14:15	14:30	0	2	0	0
14:30	14:45	0	0	0	0
14:45	15:00	1	0	1	0
15:00	15:15	1	0	0	0
15:15	15:30	0	0	0	0
15:30	15:45	1	1	0	0
15:45	16:00	1	1	0	0
16:00	16:15	0	0	0	0
16:15	16:30	0	0	0	0
16:30	16:45	2	0	0	0
16:45	17:00	0	1	0	0
17:00	17:15	0	1	0	0
17:15	17:30	0	2	0	0
Total		33	31	6	0

Site Location	CARSPA Autowash Café, Parklea
Survey Date	21st-23rd June 2019
Survey Period	7am-5:30pm
Main Traffic Flow	Old Windsor Rd
AM Peak Period	7:45am - 8:45am
PM Peak Period	3:30pm - 4:30pm



AM Peak Period	10:45am - 11:45am
PM Peak Period	12:45pm - 1:45pm

AM Peak Period	10:45am - 11:45am
PM Peak Period	11:45am - 12:45pm

Friday 14th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:30 AM	8:45 AM	456	19	255	18	3302
8:45 AM	9:00 AM	482	32	289	24	3241
9:00 AM	9:15 AM	467	21	272	32	3197
9:15 AM	9:30 AM	424	14	297	27	3129
9:30 AM	9:45 AM	477	22	282	24	3186
9:45 AM	10:00 AM	393	16	290	34	3092
10:00 AM	10:15 AM	419	23	264	27	3033
10:15 AM	10:30 AM	386	16	269	48	2990
10:30 AM	10:45 AM	385	36	301	16	2923
10:45 AM	11:00 AM	376	23	298	27	2914
11:00 AM	11:15 AM	339	30	284	21	2855
11:15 AM	11:30 AM	388	25	331	25	2905
11:30 AM	11:45 AM	326	34	314	34	2875
11:45 AM	12:00 PM	373	22	336	44	2926
12:00 PM	12:15 PM	376	29	291	26	2974
12:15 PM	12:30 PM	389	42	328	20	2984
12:30 PM	12:45 PM	372	30	408	37	3123
12:45 PM	1:00 PM	365	15	377	25	3130
1:00 PM	1:15 PM	397	26	368	21	3220
1:15 PM	1:30 PM	336	24	327	29	3157
1:30 PM	1:45 PM	347	21	361	15	3054
1:45 PM	2:00 PM	385	23	331	23	3034
2:00 PM	2:15 PM	446	31	377	23	3099
2:15 PM	2:30 PM	443	16	451	18	3311
2:30 PM	2:45 PM	368	23	458	28	3444
2:45 PM	3:00 PM	412	20	492	29	3635
3:00 PM	3:15 PM	368	12	479	34	3651
						3731
						3865
						3939
4:15 PM	4:30 PM	431	13	502	10	3911
4:30 PM	4:45 PM	431	13	468	20	3832
4:45 PM	5:00 PM	390	11	494	12	3712
5:00 PM	5:15 PM	386	3	513	13	3710
5:15 PM	5:30 PM	405	12	474	8	3653
AM Peak Period		2015	69	1209	91	3384
PM Peak Period		1872	81	1931	79	3963
Total		16625	847	14721	962	33155

Saturday 15th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:00 AM	7:15 AM	239	17	180	13	
7:15 AM	7:30 AM	259	15	232	24	
7:30 AM	7:45 AM	246	8	274	23	
7:45 AM	8:00 AM	310	8	255	11	2114
8:00 AM	8:15 AM	305	5	281	13	2269
8:15 AM	8:30 AM	334	4	327	9	2413
8:30 AM	8:45 AM	390	7	324	12	2595
8:45 AM	9:00 AM	463	9	353	13	2849
9:00 AM	9:15 AM	436	13	412	20	3126
9:15 AM	9:30 AM	424	19	376	21	3292
9:30 AM	9:45 AM	438	17	407	17	3438
9:45 AM	10:00 AM	467	15	472	11	3565
10:00 AM	10:15 AM	446	13	478	13	3634
10:15 AM	10:30 AM	517	3	499	14	3827
10:30 AM	10:45 AM	484	17	464	5	3918
10:45 AM	11:00 AM	513	12	509	11	3998
11:00 AM	11:15 AM	515	16	483	12	4074
11:15 AM	11:30 AM	522	10	495	14	4082
11:30 AM	11:45 AM	555	10	486	21	4184
11:45 AM	12:00 PM	523	2	437	11	4112
12:00 PM	12:15 PM	579	14	520	10	4209
12:15 PM	12:30 PM	526	7	465	11	4177
12:30 PM	12:45 PM	539	7	485	9	4145
12:45 PM	1:00 PM	531	8	498	7	4216
1:00 PM	1:15 PM	595	3	473	10	4174
1:15 PM	1:30 PM	606	7	496	6	4280
1:30 PM	1:45 PM	557	7	503	12	4319
1:45 PM	2:00 PM	517	15	502	7	4316
2:00 PM	2:15 PM	485	3	501	11	4235
2:15 PM	2:30 PM	471	6	512	10	4119
2:30 PM	2:45 PM	489	10	476	14	4029
2:45 PM	3:00 PM	481	5	467	15	3956
3:00 PM	3:15 PM	488	5	491	14	3954
3:15 PM	3:30 PM	489	5	464	8	3921
3:30 PM	3:45 PM	542	4	520	9	4007
3:45 PM	4:00 PM	530	9	445	8	4031
4:00 PM	4:15 PM	525	6	477	7	4048
4:15 PM	4:30 PM	465	4	457	11	4019
4:30 PM	4:45 PM	454	5	464	5	3872
4:45 PM	5:00 PM	534	5	452	4	3875
5:00 PM	5:15 PM	550	4	468	3	3885
5:15 PM	5:30 PM	527	3	506	7	3991
AM Peak Period		2105	48	1973	58	4184
PM Peak Period		2289	25	1970	35	4319
Total		19866	362	18386	486	39100

Sunday 16th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:00 AM	7:15 AM	126	0	77	1	
7:15 AM	7:30 AM	137	8	102	2	
7:30 AM	7:45 AM	171	1	137	4	
7:45 AM	8:00 AM	222	5	152	4	1149
8:00 AM	8:15 AM	189	0	155	4	1293
8:15 AM	8:30 AM	259	2	195	3	1503
8:30 AM	8:45 AM	299	3	171	3	1666
8:45 AM	9:00 AM	308	3	201	6	1801
9:00 AM	9:15 AM	276	1	232	2	1964
9:15 AM	9:30 AM	333	4	258	4	2104
9:30 AM	9:45 AM	294	6	286	2	2216
9:45 AM	10:00 AM	352	0	360	3	2413
10:00 AM	10:15 AM	294	4	296	1	2497
10:15 AM	10:30 AM	389	3	289	0	2579
10:30 AM	10:45 AM	326	2	346	2	2667
10:45 AM	11:00 AM	404	1	428	2	2787
11:00 AM	11:15 AM	395	1	321	4	2913
11:15 AM	11:30 AM	406	4	418	4	3064
11:30 AM	11:45 AM	386	0	370	1	3145
11:45 AM	12:00 PM	407	3	476	6	3202
12:00 PM	12:15 PM	460	2	467	3	3413
12:15 PM	12:30 PM	447	2	444	1	3475
12:30 PM	12:45 PM	431	2	415	3	3569
12:45 PM	1:00 PM	384	2	420	2	3485
1:00 PM	1:15 PM	476	7	446	4	3486
1:15 PM	1:30 PM	422	9	361	2	3386
1:30 PM	1:45 PM	464	0	369	4	3372
1:45 PM	2:00 PM	420	4	395	2	3385
2:00 PM	2:15 PM	402	4	348	1	3207
2:15 PM	2:30 PM	364	3	352	4	3136
2:30 PM	2:45 PM	349	2	404	1	3055
2:45 PM	3:00 PM	427	1	356	3	3021
3:00 PM	3:15 PM	434	5	365	6	3076
3:15 PM	3:30 PM	387	7	405	4	3156
3:30 PM	3:45 PM	451	5	354	1	3211
3:45 PM	4:00 PM	470	3	396	4	3297
4:00 PM	4:15 PM	440	0	370	1	3298
4:15 PM	4:30 PM	461	4	431	3	3394
4:30 PM	4:45 PM	461	2	324	3	3373
4:45 PM	5:00 PM	463	2	366	4	3335
5:00 PM	5:15 PM	459	3	345	3	3334
5:15 PM	5:30 PM	490	3	406	2	3336
AM Peak Period		1591	6	1537	11	3145
PM Peak Period		1745	9	1802	13	3569
Total		15535	123	13809	119	29586

Car Wash Cafe Site Information	
Site Location	Lugarno Café Car Wash
Building Area m ²	
Year Opened	
Opening Times	8:00am-5:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-5:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute Period		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	2	0	0	0
8:15	8:30	1	1	0	0
8:30	8:45	1	1	0	0
8:45	9:00	3	0	0	0
9:00	9:15	4	1	0	0
9:15	9:30	1	0	0	0
9:30	9:45	0	2	1	0
9:45	10:00	0	1	0	0
10:00	10:15	2	1	0	0
10:15	10:30	1	1	0	0
10:30	10:45	4	2	0	0
10:45	11:00	1	1	2	0
11:00	11:15	1	2	2	0
11:15	11:30	2	2	1	0
11:30	11:45	1	1	0	0
11:45	12:00	3	3	0	0
12:00	12:15	1	1	0	0
12:15	12:30	2	1	0	0
12:30	12:45	2	3	0	0
12:45	13:00	1	2	0	0
13:00	13:15	3	1	0	0
13:15	13:30	4	2	0	0
13:30	13:45	0	3	0	0
13:45	14:00	1	3	0	0
14:00	14:15	2	3	0	0
14:15	14:30	0	1	0	0
14:30	14:45	1	2	0	0
14:45	15:00	1	1	0	0
15:00	15:15	1	1	1	0
15:15	15:30	3	3	0	0
15:30	15:45	3	2	0	0
15:45	16:00	2	2	0	0
16:00	16:15	1	1	0	0
16:15	16:30	0	2	0	0
16:30	16:45	1	3	0	0
16:45	17:00	0	0	0	0
Total		56	56	7	0

Saturday 15th June 2019					
15 minute Period		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	5	3	2	0
8:15	8:30	2	1	0	0
8:30	8:45	1	2	0	0
8:45	9:00	1	2	0	0
9:00	9:15	4	2	0	0
9:15	9:30	3	0	1	0
9:30	9:45	1	3	4	0
9:45	10:00	0	2	1	0
10:00	10:15	1	1	0	0
10:15	10:30	3	1	1	0
10:30	10:45	7	3	2	0
10:45	11:00	3	1	0	0
11:00	11:15	2	2	1	0
11:15	11:30	2	3	0	0
11:30	11:45	3	1	1	0
11:45	12:00	4	3	0	0
12:00	12:15	1	5	1	0
12:15	12:30	4	2	2	0
12:30	12:45	4	3	1	0
12:45	13:00	2	3	0	0
13:00	13:15	2	2	0	0
13:15	13:30	2	4	2	0
13:30	13:45	2	1	0	0
13:45	14:00	1	3	0	0
14:00	14:15	0	2	0	0
14:15	14:30	1	3	0	0
14:30	14:45	2	1	0	0
14:45	15:00	1	0	0	0
15:00	15:15	2	3	0	0
15:15	15:30	1	1	1	0
15:30	15:45	1	2	0	0
15:45	16:00	0	1	0	0
16:00	16:15	1	0	1	0
16:15	16:30	1	1	0	0
16:30	16:45	1	1	0	0
16:45	17:00	0	3	0	0
Total		71	71	21	0

Sunday 28th July 2019					
15 minute Period		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	1	0	0
8:15	8:30	4	2	0	0
8:30	8:45	1	2	0	0
8:45	9:00	1	2	0	0
9:00	9:15	1	1	0	0
9:15	9:30	4	2	0	0
9:30	9:45	4	3	1	0
9:45	10:00	5	2	0	0
10:00	10:15	1	4	0	0
10:15	10:30	1	3	0	0
10:30	10:45	1	4	0	0
10:45	11:00	2	2	0	0
11:00	11:15	3	2	0	0
11:15	11:30	3	1	0	0
11:30	11:45	2	3	0	0
11:45	12:00	6	3	0	0
12:00	12:15	3	3	0	0
12:15	12:30	4	2	1	0
12:30	12:45	4	1	1	0
12:45	13:00	4	3	0	0
13:00	13:15	3	3	1	0
13:15	13:30	2	2	1	0
13:30	13:45	2	4	3	0
13:45	14:00	0	1	0	0
14:00	14:15	3	1	0	0
14:15	14:30	2	2	0	0
14:30	14:45	3	2	1	0
14:45	15:00	2	2	2	0
15:00	15:15	1	4	2	0
15:15	15:30	3	4	0	0
15:30	15:45	1	3	2	0
15:45	16:00	3	3	4	0
16:00	16:15	1	4	1	0
16:15	16:30	0	1	0	0
16:30	16:45	1	2	1	0
16:45	17:00	1	3	1	0
Total		83	87	22	0

Site Location	Lugarno Café Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	6am-7pm
Main Traffic Flow	Forest Rd
AM Peak Period	8:30am - 9:30am
PM Peak Period	4:00pm - 5:00pm

Friday 14th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM					
						713
9:15 AM	9:30 AM	71	3	112	4	857
9:30 AM	9:45 AM	29	3	30	0	682
9:45 AM	10:00 AM	14	1	13	0	473
10:00 AM	10:15 AM	67	3	78	7	435
10:15 AM	10:30 AM	63	3	87	4	402
10:30 AM	10:45 AM	73	2	81	2	498
10:45 AM	11:00 AM	69	1	89	2	631
11:00 AM	11:15 AM	73	3	80	3	635
11:15 AM	11:30 AM	79	2	76	2	637
11:30 AM	11:45 AM	63	2	84	2	630
11:45 AM	12:00 PM	110	3	69	4	655
12:00 PM	12:15 PM	55	4	68	0	623
12:15 PM	12:30 PM	89	2	117	6	678
12:30 PM	12:45 PM	82	6	76	0	691
12:45 PM	1:00 PM	82	0	73	2	662
1:00 PM	1:15 PM	87	3	70	2	697
1:15 PM	1:30 PM	75	4	71	1	634
1:30 PM	1:45 PM	89	4	63	4	630
1:45 PM	2:00 PM	85	0	71	4	633
2:00 PM	2:15 PM	78	3	66	2	620
2:15 PM	2:30 PM	93	1	85	0	648
2:30 PM	2:45 PM	128	2	65	1	684
2:45 PM	3:00 PM	98	5	92	2	721
3:00 PM	3:15 PM	91	2	142	2	809
3:15 PM	3:30 PM	125	4	92	4	855
3:30 PM	3:45 PM	114	5	88	4	870
3:45 PM						925
4:00 PM						906
4:15 PM						890
4:30 PM						
4:45 PM	5:00 PM	150	2	93	5	928
AM Peak Period		283	9	603	11	906
PM Peak Period		573	14	330	13	930
Total		3088	96	3064	93	6341



AM Peak Period	10:45am - 11:45am
PM Peak Period	12:00pm - 1:00pm

Saturday 15th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	50	1	115	4	
8:15 AM	8:30 AM	47	2	116	2	
8:30 AM	8:45 AM	46	0	115	0	
8:45 AM	9:00 AM	69	1	113	2	683
9:00 AM	9:15 AM	59	4	124	1	701
9:15 AM	9:30 AM	78	1	135	1	749
9:30 AM	9:45 AM	79	3	123	1	794
9:45 AM	10:00 AM	92	4	151	3	859
10:00 AM	10:15 AM	100	1	116	1	889
10:15 AM	10:30 AM	115	1	118	1	909
10:30 AM	10:45 AM	116	3	153	1	976
10:45 AM	11:00 AM	117	2	154	3	1002
11:00 AM	11:15 AM	115	1	121	2	1023
11:15 AM	11:30 AM	144	0	140	1	1073
11:30 AM	11:45 AM	149	2	125	3	1079
11:45 AM	12:00 PM	125	1	124	3	1056
12:00 PM	12:15 PM	126	2	117	1	1063
12:15 PM	12:30 PM	153	2	131	2	1066
12:30 PM	12:45 PM	143	3	117	2	1052
12:45 PM	1:00 PM	126	4	104	1	1034
1:00 PM	1:15 PM	125	1	108	3	1025
1:15 PM	1:30 PM	105	1	116	1	960
1:30 PM	1:45 PM	109	1	93	1	899
1:45 PM	2:00 PM	127	1	118	3	913
2:00 PM	2:15 PM	107	1	111	1	896
2:15 PM	2:30 PM	122	0	97	2	894
2:30 PM	2:45 PM	131	2	93	1	917
2:45 PM	3:00 PM	105	2	115	1	891
3:00 PM	3:15 PM	115	2	98	1	887
3:15 PM	3:30 PM	107	0	84	1	858
3:30 PM	3:45 PM	114	2	119	1	867
3:45 PM	4:00 PM	119	6	75	4	848
4:00 PM	4:15 PM	113	3	63	1	812
4:15 PM	4:30 PM	105	0	75	3	803
4:30 PM	4:45 PM	126	2	100	2	797
4:45 PM	5:00 PM	135	2	89	0	819
AM Peak Period		525	5	540	9	1079
PM Peak Period		548	11	469	6	1034
Total		3914	64	4066	61	8105

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:00pm - 1:00pm

Sunday 28th July 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	72	1	29	1	
8:15 AM	8:30 AM	63	1	47	0	
8:30 AM	8:45 AM	74	0	58	0	
8:45 AM	9:00 AM	82	0	82	1	511
9:00 AM	9:15 AM	131	1	101	0	641
9:15 AM	9:30 AM	114	1	87	4	736
9:30 AM	9:45 AM	108	1	83	1	797
9:45 AM	10:00 AM	143	3	58	3	839
10:00 AM	10:15 AM	108	3	84	0	801
10:15 AM	10:30 AM	100	1	73	2	771
10:30 AM	10:45 AM	125	0	93	1	797
10:45 AM	11:00 AM	130	0	106	0	826
11:00 AM	11:15 AM	102	1	86	0	820
11:15 AM	11:30 AM	116	1	89	2	852
11:30 AM	11:45 AM	119	0	104	1	857
11:45 AM	12:00 PM	111	1	136	0	869
12:00 PM	12:15 PM	137	1	123	1	942
12:15 PM	12:30 PM	135	1	124	0	994
12:30 PM	12:45 PM	101	0	114	1	986
12:45 PM	1:00 PM	87	0	117	2	944
1:00 PM	1:15 PM	90	2	123	0	897
1:15 PM	1:30 PM	115	1	84	2	839
1:30 PM	1:45 PM	86	0	104	1	814
1:45 PM	2:00 PM	90	1	85	1	785
2:00 PM	2:15 PM	73	1	99	0	743
2:15 PM	2:30 PM	65	1	121	1	729
2:30 PM	2:45 PM	84	0	91	1	714
2:45 PM	3:00 PM	122	0	108	0	767
3:00 PM	3:15 PM	111	1	90	0	796
3:15 PM	3:30 PM	93	1	102	1	805
3:30 PM	3:45 PM	75	1	91	2	798
3:45 PM	4:00 PM	85	0	83	0	736
4:00 PM	4:15 PM	70	1	105	2	712
4:15 PM	4:30 PM	66	1	87	1	670
4:30 PM	4:45 PM	64	3	97	0	665
4:45 PM	5:00 PM	79	0	114	2	692
AM Peak Period		448	3	415	3	869
PM Peak Period		460	2	478	4	944
Total		3526	31	3378	34	6969

Car Wash Cafe Site Information	
Site Location	Wax Car Wash
Building Area m ²	
Year Opened	
Opening Times	7:00am-6:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	7:00am-6:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:00	7:15	0	0	2	0
7:15	7:30	1	0	0	0
7:30	7:45	1	0	2	0
7:45	8:00	2	0	0	0
8:00	8:15	2	1	1	0
8:15	8:30	4	0	1	0
8:30	8:45	3	3	2	0
8:45	9:00	2	3	4	0
9:00	9:15	2	2	2	0
9:15	9:30	4	1	4	0
9:30	9:45	3	5	0	0
9:45	10:00	2	3	2	0
10:00	10:15	3	2	0	0
10:15	10:30	2	4	0	0
10:30	10:45	1	0	0	0
10:45	11:00	7	1	0	0
11:00	11:15	1	7	1	0
11:15	11:30	5	2	0	0
11:30	11:45	4	3	1	0
11:45	12:00	3	3	1	0
12:00	12:15	2	6	0	0
12:15	12:30	2	4	3	0
12:30	12:45	4	2	4	0
12:45	13:00	2	3	0	0
13:00	13:15	3	3	0	0
13:15	13:30	3	2	1	0
13:30	13:45	4	5	0	0
13:45	14:00	2	1	0	0
14:00	14:15	1	2	0	0
14:15	14:30	7	3	0	0
14:30	14:45	5	2	1	0
14:45	15:00	4	4	0	0
15:00	15:15	1	6	2	0
15:15	15:30	2	4	0	0
15:30	15:45	2	2	0	0
15:45	16:00	1	3	0	0
16:00	16:15	4	0	0	0
16:15	16:30	1	1	0	0
16:30	16:45	0	5	0	0
16:45	17:00	0	0	0	0
17:00	17:15	1	1	0	0
17:15	17:30	0	2	0	0
17:30	17:45	0	2	0	0
17:45	18:00	0	0	0	0
Total		103	103	34	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:00	7:15	4	0	2	0
7:15	7:30	2	2	1	0
7:30	7:45	2	4	0	0
7:45	8:00	3	1	0	0
8:00	8:15	4	2	0	0
8:15	8:30	3	3	0	0
8:30	8:45	8	4	0	0
8:45	9:00	8	3	0	0
9:00	9:15	2	2	0	0
9:15	9:30	2	6	1	0
9:30	9:45	5	4	0	0
9:45	10:00	3	4	0	0
10:00	10:15	3	3	0	0
10:15	10:30	1	3	0	0
10:30	10:45	0	4	2	0
10:45	11:00	3	3	0	0
11:00	11:15	5	1	0	0
11:15	11:30	2	0	0	0
11:30	11:45	3	1	2	0
11:45	12:00	3	3	2	0
12:00	12:15	5	3	0	0
12:15	12:30	3	4	0	0
12:30	12:45	3	5	0	0
12:45	13:00	2	3	0	0
13:00	13:15	4	3	1	0
13:15	13:30	0	5	1	0
13:30	13:45	0	2	0	0
13:45	14:00	3	1	1	0
14:00	14:15	3	5	0	0
14:15	14:30	2	3	0	0
14:30	14:45	5	3	0	0
14:45	15:00	2	3	1	0
15:00	15:15	4	1	0	0
15:15	15:30	4	3	0	0
15:30	15:45	1	2	2	0
15:45	16:00	1	4	2	0
16:00	16:15	2	1	0	0
16:15	16:30	0	1	0	0
16:30	16:45	1	2	0	0
16:45	17:00	1	1	1	0
17:00	17:15	0	2	0	0
17:15	17:30	0	2	0	0
17:30	17:45	0	0	0	0
17:45	18:00	0	0	0	0
Total		112	112	19	0

Sunday 28th July 2019				
15 minute		Cars In	Cars Out	Peds
Start	End			
7:00	7:15	3	0	0
7:15	7:30	4	1	0
7:30	7:45	2	4	0
7:45	8:00	5	3	0
8:00	8:15	2	3	2
8:15	8:30	1	2	1
8:30	8:45	4	4	0
8:45	9:00	3	2	0
9:00	9:15	0	3	2
9:15	9:30	2	3	2
9:30	9:45	4	0	0
9:45	10:00	7	2	0
10:00	10:15	1	3	0
10:15	10:30	4	5	0
10:30	10:45	5	3	0
10:45	11:00	5	4	1
11:00	11:15	6	2	0
11:15	11:30	4	3	0
11:30	11:45	2	4	0
11:45	12:00	5	6	0
12:00	12:15	4	5	1
12:15	12:30	7	5	0
12:30	12:45	4	3	0
12:45	13:00	3	1	0
13:00	13:15	5	6	0
13:15	13:30	5	6	0
13:30	13:45	0	7	0
13:45	14:00	0	6	1
14:00	14:15	1	3	0
14:15	14:30	2	1	0
14:30	14:45	1	1	0
14:45	15:00	1	0	0
15:00	15:15	2	3	0
15:15	15:30	3	0	0
15:30	15:45	5	0	0
15:45	16:00	2	3	3
16:00	16:15	3	2	0
16:15	16:30	2	2	0
16:30	16:45	3	4	2
16:45	17:00	1	4	0
17:00	17:15	1	4	0
17:15	17:30	0	0	0
17:30	17:45	0	2	0
17:45	18:00	0	1	0
Total		124	126	15

[illegible]

Site Location	Wax Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	7am-6pm
Main Traffic Flow	Cleveland Street
AM Peak Period	8:00am - 9:00am
PM Peak Period	5:00pm - 6:00pm

Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:00 AM	7:15 AM	210	10	194	22	
7:15 AM	7:30 AM	241	11	258	24	
7:30 AM	7:45 AM	248	28	244	26	
7:45 AM	8:00 AM	247	20	211	22	2016
						2105
						2123
						2117
9:00 AM	9:15 AM	262	19	199	25	2149
9:15 AM	9:30 AM	238	21	223	27	2106
9:30 AM	9:45 AM	219	19	234	25	2063
9:45 AM	10:00 AM	215	14	230	19	1989
10:00 AM	10:15 AM	240	23	235	16	1998
10:15 AM	10:30 AM	218	16	181	23	1927
10:30 AM	10:45 AM	237	16	217	21	1921
10:45 AM	11:00 AM	232	20	231	17	1943
11:00 AM	11:15 AM	219	23	194	19	1884
11:15 AM	11:30 AM	219	21	211	14	1911
11:30 AM	11:45 AM	255	24	194	14	1907
11:45 AM	12:00 PM	242	18	231	14	1912
12:00 PM	12:15 PM	244	10	208	16	1935
12:15 PM	12:30 PM	275	20	225	12	2002
12:30 PM	12:45 PM	269	13	224	14	2035
12:45 PM	1:00 PM	294	23	219	14	2080
1:00 PM	1:15 PM	235	14	203	19	2073
1:15 PM	1:30 PM	242	21	175	20	1999
1:30 PM	1:45 PM	261	7	205	20	1972
1:45 PM	2:00 PM	230	16	212	17	1897
2:00 PM	2:15 PM	255	12	222	17	1932
2:15 PM	2:30 PM	244	18	266	15	2017
2:30 PM	2:45 PM	260	6	243	13	2046
2:45 PM	3:00 PM	284	18	230	11	2114
3:00 PM	3:15 PM	260	19	230	8	2125
3:15 PM	3:30 PM	250	13	222	20	2087
3:30 PM	3:45 PM	255	12	243	12	2087
3:45 PM	4:00 PM	249	16	216	10	2035
4:00 PM	4:15 PM	271	11	222	8	2030
4:15 PM	4:30 PM	261	10	245	13	2054
4:30 PM	4:45 PM	261	10	239	8	2050
4:45 PM	5:00 PM	249	10	256	15	2089
						2129
						2138
						2196
AM Peak Period		1072	74	945	78	2169
PM Peak Period		1010	45	1139	47	2241
Total		10973	701	10076	735	22485



AM Peak Period	11:00am - 12:00am
PM Peak Period	12:45pm - 1:45pm

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:00 AM	7:15 AM	127	4	124	10	
7:15 AM	7:30 AM	146	7	182	16	
7:30 AM	7:45 AM	157	9	185	10	
7:45 AM	8:00 AM	202	8	181	13	1381
8:00 AM	8:15 AM	207	8	193	6	1530
8:15 AM	8:30 AM	202	19	223	12	1635
8:30 AM	8:45 AM	227	9	242	5	1757
8:45 AM	9:00 AM	226	9	240	15	1843
9:00 AM	9:15 AM	257	13	229	20	1948
9:15 AM	9:30 AM	249	9	240	13	2003
9:30 AM	9:45 AM	257	13	247	9	2046
9:45 AM	10:00 AM	285	8	228	10	2087
10:00 AM	10:15 AM	322	14	256	8	2168
10:15 AM	10:30 AM	290	13	259	6	2225
10:30 AM	10:45 AM	321	18	237	9	2284
10:45 AM	11:00 AM	256	14	235	12	2270
11:00 AM	11:15 AM	275	12	236	13	2206
11:15 AM	11:30 AM	306	12	285	7	2248
11:30 AM	11:45 AM	264	7	256	8	2198
11:45 AM	12:00 PM	273	11	291	9	2265
12:00 PM	12:15 PM	311	13	266	11	2330
12:15 PM	12:30 PM	306	11	269	11	2317
12:30 PM	12:45 PM	261	11	255	11	2320
12:45 PM	1:00 PM	306	12	264	7	2325
1:00 PM	1:15 PM	303	9	275	6	2317
1:15 PM	1:30 PM	281	9	320	8	2338
1:30 PM	1:45 PM	277	7	252	4	2340
1:45 PM	2:00 PM	302	6	262	7	2328
2:00 PM	2:15 PM	309	6	242	9	2301
2:15 PM	2:30 PM	252	7	250	7	2199
2:30 PM	2:45 PM	280	9	262	7	2217
2:45 PM	3:00 PM	302	4	279	6	2231
3:00 PM	3:15 PM	289	7	252	9	2222
3:15 PM	3:30 PM	334	4	272	9	2325
3:30 PM	3:45 PM	271	8	238	6	2290
3:45 PM	4:00 PM	267	5	258	6	2235
4:00 PM	4:15 PM	283	6	269	5	2241
4:15 PM	4:30 PM	276	8	218	9	2133
4:30 PM	4:45 PM	302	7	200	5	2124
4:45 PM	5:00 PM	310	8	218	8	2132
5:00 PM	5:15 PM	296	5	220	7	2097
5:15 PM	5:30 PM	282	4	267	5	2144
5:30 PM	5:45 PM	268	5	232	5	2140
5:45 PM	6:00 PM	261	3	236	7	2103
AM Peak Period		1118	42	1068	37	2265
PM Peak Period		1167	37	1111	25	2340
Total		11778	391	10645	386	23200

AM Peak Period	11:00am - 12:00pm
PM Peak Period	1:00pm - 2:00pm

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:00 AM	7:15 AM	68	4	95	2	
7:15 AM	7:30 AM	78	2	100	1	
7:30 AM	7:45 AM	86	2	108	4	
7:45 AM	8:00 AM	104	1	133	2	790
8:00 AM	8:15 AM	114	7	123	3	868
8:15 AM	8:30 AM	93	7	149	6	942
8:30 AM	8:45 AM	152	6	162	6	1068
8:45 AM	9:00 AM	149	7	180	6	1170
9:00 AM	9:15 AM	121	6	190	7	1247
9:15 AM	9:30 AM	179	4	232	4	1411
9:30 AM	9:45 AM	167	3	210	4	1469
9:45 AM	10:00 AM	223	8	268	9	1635
10:00 AM	10:15 AM	212	5	225	6	1759
10:15 AM	10:30 AM	193	8	248	8	1797
10:30 AM	10:45 AM	230	5	275	4	1927
10:45 AM	11:00 AM	234	7	249	6	1915
11:00 AM	11:15 AM	208	1	227	5	1908
11:15 AM	11:30 AM	236	11	236	5	1939
11:30 AM	11:45 AM	223	8	255	3	1914
11:45 AM	12:00 PM	249	3	279	5	1954
12:00 PM	12:15 PM	274	5	290	5	2087
12:15 PM	12:30 PM	265	8	288	8	2168
12:30 PM	12:45 PM	237	5	286	4	2211
12:45 PM	1:00 PM	254	10	260	6	2205
1:00 PM	1:15 PM	269	3	354	6	2263
1:15 PM	1:30 PM	305	6	311	5	2321
1:30 PM	1:45 PM	245	4	314	5	2357
1:45 PM	2:00 PM	281	7	282	3	2400
2:00 PM	2:15 PM	262	6	285	6	2327
2:15 PM	2:30 PM	256	6	304	5	2271
2:30 PM	2:45 PM	252	3	290	5	2253
2:45 PM	3:00 PM	226	4	315	5	2230
3:00 PM	3:15 PM	249	5	260	4	2189
3:15 PM	3:30 PM	236	7	230	6	2097
3:30 PM	3:45 PM	247	4	237	5	2040
3:45 PM	4:00 PM	262	6	170	7	1935
4:00 PM	4:15 PM	275	3	221	4	1920
4:15 PM	4:30 PM	262	8	222	4	1937
4:30 PM	4:45 PM	248	6	225	4	1927
4:45 PM	5:00 PM	254	8	197	6	1947
5:00 PM	5:15 PM	215	5	194	6	1864
5:15 PM	5:30 PM	300	7	207	4	1886
5:30 PM	5:45 PM	254	5	204	3	1869
5:45 PM	6:00 PM	279	7	215	7	1912
AM Peak Period		916	23	997	18	1954
PM Peak Period		1100	20	1261	19	2400
Total		9526	243	10105	219	20093

Car Wash Cafe Site Information	
Site Location	Hands on Car Wash
Building Area m ²	
Year Opened	
Opening Times	9:00am-5:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	9:00am-5:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
9:00	9:15	2	1	0	0
9:15	9:30	2	1	1	0
9:30	9:45	0	2	0	0
9:45	10:00	0	0	0	0
10:00	10:15	3	2	0	0
10:15	10:30	1	1	0	0
10:30	10:45	1	3	0	0
10:45	11:00	0	0	0	0
11:00	11:15	1	0	0	0
11:15	11:30	2	1	1	0
11:30	11:45	1	2	0	0
11:45	12:00	4	3	0	0
12:00	12:15	0	0	0	0
12:15	12:30	1	0	0	0
12:30	12:45	1	3	0	0
12:45	13:00	1	0	0	0
13:00	13:15	3	0	1	0
13:15	13:30	2	4	0	0
13:30	13:45	3	2	0	0
13:45	14:00	3	1	0	0
14:00	14:15	1	2	0	0
14:15	14:30	1	1	0	0
14:30	14:45	2	4	0	0
14:45	15:00	1	0	0	0
15:00	15:15	1	3	0	0
15:15	15:30	4	4	0	0
15:30	15:45	3	1	0	0
15:45	16:00	1	3	0	0
16:00	16:15	2	5	1	0
16:15	16:30	2	2	0	0
16:30	16:45	0	1	0	0
16:45	17:00	0	1	0	0
Total		49	53	4	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
9:00	9:15	0	0	0	0
9:15	9:30	2	0	0	0
9:30	9:45	3	2	0	0
9:45	10:00	0	0	0	0
10:00	10:15	1	0	1	0
10:15	10:30	0	0	0	2
10:30	10:45	1	1	2	0
10:45	11:00	3	2	1	0
11:00	11:15	1	2	0	0
11:15	11:30	1	2	0	0
11:30	11:45	0	3	0	0
11:45	12:00	2	0	0	0
12:00	12:15	0	2	0	0
12:15	12:30	2	3	0	0
12:30	12:45	2	1	2	0
12:45	13:00	1	2	0	0
13:00	13:15	0	0	0	0
13:15	13:30	0	0	0	0
13:30	13:45	0	0	0	0
13:45	14:00	1	1	0	0
14:00	14:15	0	1	0	0
14:15	14:30	0	0	0	0
14:30	14:45	2	2	0	0
14:45	15:00	0	1	0	0
15:00	15:15	0	0	0	0
15:15	15:30	1	0	0	0
15:30	15:45	0	0	0	0
15:45	16:00	0	0	0	0
16:00	16:15	1	0	1	0
16:15	16:30	0	0	0	0
16:30	16:45	1	0	0	0
16:45	17:00	0	0	1	0
Total		25	25	8	2

Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
9:00	9:15	1	0	0	0
9:15	9:30	1	1	0	0
9:30	9:45	0	1	0	0
9:45	10:00	1	0	0	0
10:00	10:15	0	1	0	0
10:15	10:30	0	0	0	0
10:30	10:45	0	0	0	0
10:45	11:00	1	0	0	0
11:00	11:15	0	1	0	0
11:15	11:30	2	0	0	0
11:30	11:45	0	2	0	0
11:45	12:00	2	0	0	0
12:00	12:15	1	0	0	0
12:15	12:30	0	0	0	0
12:30	12:45	1	2	0	0
12:45	13:00	1	1	0	0
13:00	13:15	1	0	0	0
13:15	13:30	1	3	0	0
13:30	13:45	0	1	0	0
13:45	14:00	0	0	0	0
14:00	14:15	1	1	0	0
14:15	14:30	0	0	0	0
14:30	14:45	1	0	0	0
14:45	15:00	0	0	0	0
15:00	15:15	0	0	0	0
15:15	15:30	0	0	0	0
15:30	15:45	0	0	0	0
15:45	16:00	0	0	0	0
16:00	16:15	1	2	0	0
16:15	16:30	0	0	0	0
16:30	16:45	0	0	0	0
16:45	17:00	0	0	0	0
Total		16	16	0	0

Site Location	Hands On Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	9am-5pm
Main Traffic Flow	Balgownie Road
AM Peak Period	9:00am - 10:00am
PM Peak Period	3:15pm - 4:15pm



AM Peak Period	9:15am - 10:15am
PM Peak Period	12:30pm - 1:30pm

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:15pm - 1:15pm

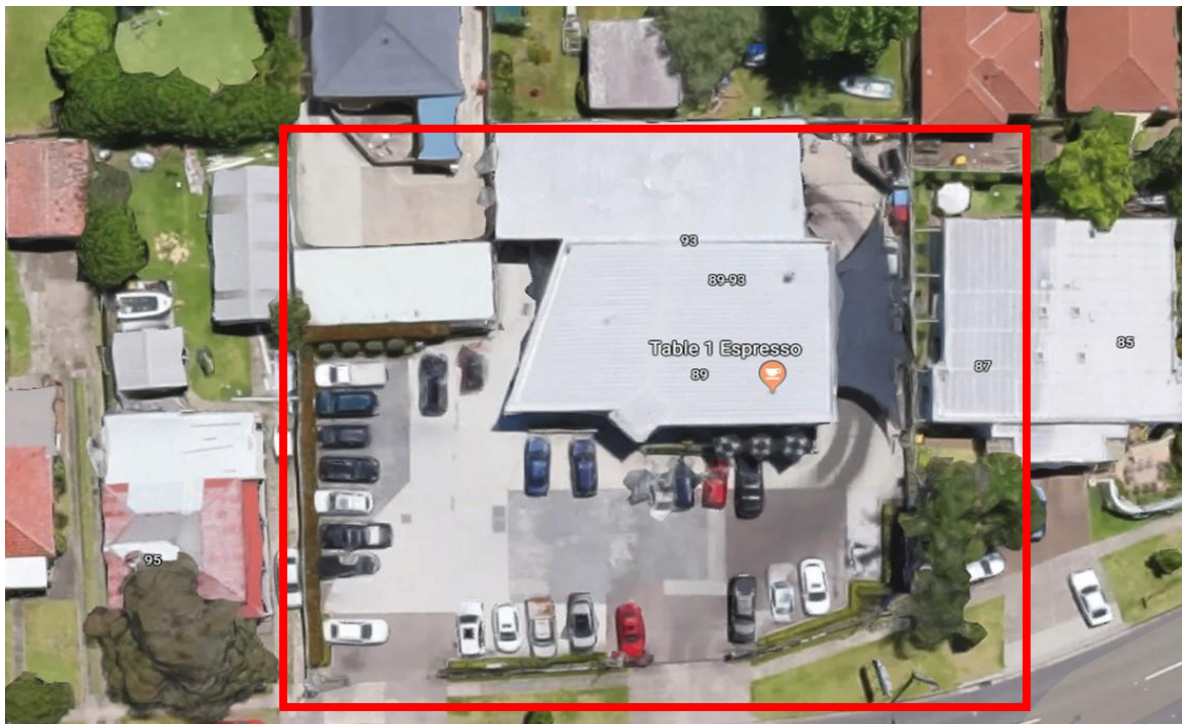
Friday 14th June 2019						
15 min Period		Eastbound		Westbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
10:00 AM	10:15 AM	50	2	40	3	398
10:15 AM	10:30 AM	49	0	38	4	382
10:30 AM	10:45 AM	61	2	43	0	394
10:45 AM	11:00 AM	45	1	32	0	370
11:00 AM	11:15 AM	35	1	34	1	346
11:15 AM	11:30 AM	45	2	37	3	342
11:30 AM	11:45 AM	51	2	36	4	329
11:45 AM	12:00 PM	66	3	29	2	351
12:00 PM	12:15 PM	55	0	41	0	376
12:15 PM	12:30 PM	65	2	38	1	395
12:30 PM	12:45 PM	70	5	29	4	410
12:45 PM	1:00 PM	60	2	36	2	410
1:00 PM	1:15 PM	55	2	27	1	399
1:15 PM	1:30 PM	49	3	57	2	404
1:30 PM	1:45 PM	42	1	34	1	374
1:45 PM	2:00 PM	36	2	32	1	345
2:00 PM	2:15 PM	68	2	30	1	361
2:15 PM	2:30 PM	64	1	38	0	353
2:30 PM	2:45 PM	67	2	37	4	385
2:45 PM	3:00 PM	69	4	30	0	417
						464
						468
						471
4:00 PM	4:15 PM	62	1	39	1	449
4:15 PM	4:30 PM	82	0	29	1	454
4:30 PM	4:45 PM	80	2	39	1	463
4:45 PM	5:00 PM	79	0	36	1	453
AM Peak Period		212	11	187	9	419
PM Peak Period		280	2	208	4	494
Total		1897	55	1256	51	3259

Saturday 15th June 2019						
15 min Period		Eastbound		Westbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
9:00 AM	9:15 AM	39	1	36	0	
9:15 AM	9:30 AM	37	1	44	2	
9:30 AM	9:45 AM	62	1	42	2	
9:45 AM	10:00 AM	54	1	40	0	362
10:00 AM	10:15 AM	69	1	45	1	402
10:15 AM	10:30 AM	47	0	23	3	391
10:30 AM	10:45 AM	66	2	35	0	387
10:45 AM	11:00 AM	52	0	42	0	386
11:00 AM	11:15 AM	58	1	33	0	362
11:15 AM	11:30 AM	54	0	35	1	379
11:30 AM	11:45 AM	58	2	38	0	374
11:45 AM	12:00 PM	63	1	42	1	387
12:00 PM	12:15 PM	53	0	36	1	385
12:15 PM	12:30 PM	45	2	30	1	373
12:30 PM	12:45 PM	54	2	37	1	369
12:45 PM	1:00 PM	73	0	36	1	372
1:00 PM	1:15 PM	49	0	44	0	375
1:15 PM	1:30 PM	49	0	42	1	389
1:30 PM	1:45 PM	54	2	34	0	385
1:45 PM	2:00 PM	55	0	23	0	353
2:00 PM	2:15 PM	40	0	39	1	340
2:15 PM	2:30 PM	44	1	27	0	320
2:30 PM	2:45 PM	54	1	33	1	319
2:45 PM	3:00 PM	53	0	35	0	329
3:00 PM	3:15 PM	59	1	21	0	330
3:15 PM	3:30 PM	42	0	29	1	330
3:30 PM	3:45 PM	42	1	28	0	312
3:45 PM	4:00 PM	53	1	19	0	297
4:00 PM	4:15 PM	43	1	22	0	282
4:15 PM	4:30 PM	53	0	29	1	293
4:30 PM	4:45 PM	56	1	41	0	320
4:45 PM	5:00 PM	77	0	42	0	366
AM Peak Period		222	4	171	5	402
PM Peak Period		225	2	159	3	389
Total		1707	24	1102	19	2852

Sunday 28th July 2019						
15 min Period		Eastbound		Westbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
9:00 AM	9:15 AM	23	0	29	0	
9:15 AM	9:30 AM	34	0	19	0	
9:30 AM	9:45 AM	38	0	42	1	
9:45 AM	10:00 AM	29	1	48	0	264
10:00 AM	10:15 AM	26	0	41	0	279
10:15 AM	10:30 AM	26	1	35	1	289
10:30 AM	10:45 AM	26	0	39	1	274
10:45 AM	11:00 AM	38	0	40	0	274
11:00 AM	11:15 AM	41	0	44	0	292
11:15 AM	11:30 AM	23	0	54	0	306
11:30 AM	11:45 AM	23	0	58	0	321
11:45 AM	12:00 PM	32	1	65	0	341
12:00 PM	12:15 PM	26	0	52	0	334
12:15 PM	12:30 PM	32	1	65	0	355
12:30 PM	12:45 PM	24	0	42	1	341
12:45 PM	1:00 PM	30	0	48	1	322
1:00 PM	1:15 PM	39	0	51	0	334
1:15 PM	1:30 PM	40	0	44	0	320
1:30 PM	1:45 PM	33	0	45	1	332
1:45 PM	2:00 PM	33	0	39	0	325
2:00 PM	2:15 PM	35	0	45	0	315
2:15 PM	2:30 PM	22	1	45	0	299
2:30 PM	2:45 PM	35	0	50	1	306
2:45 PM	3:00 PM	37	0	51	0	322
3:00 PM	3:15 PM	28	0	49	0	319
3:15 PM	3:30 PM	28	0	38	1	318
3:30 PM	3:45 PM	30	0	52	0	314
3:45 PM	4:00 PM	30	1	41	0	298
4:00 PM	4:15 PM	33	0	44	0	298
4:15 PM	4:30 PM	43	2	42	0	318
4:30 PM	4:45 PM	31	0	44	1	312
4:45 PM	5:00 PM	40	0	54	0	334
AM Peak Period		119	1	221	0	341
PM Peak Period		125	1	206	2	334
Total		1008	8	1455	9	2480

Car Wash Cafe Site Information	
Site Location	Stella Hand Car Wash & Table 1
Building Area m ²	1685
Year Opened	Unknown
Opening Times	7:30am-5pm Mon-Fri / 7:30am-3:30pm Sat & Sun
Type of Car Wash (Auto/Manual/Self/Etc)	Manual
Number of Employees per shift	Unknown
Surrounding Land Use	NA
Proximity to Public Transport	Yes
Survey Date	14th - 16th June 2019
Survey Period	7:30am-5pm
Number of Pedestrian Access Points	Unknown
Number of Vehicle Entry/Exit Points	Unknown
Number of On-Site Parking Bays (Including bicycle parking)	23
Number of Loading bays	Unknown
Number of Car Wash Bays	4
Number of Hybrid/Electric Bays	Unknown
Number of Disabled Bays	Unknown
Number of Bicycle Parking Bays	Unknown
Number of Staff Parking Bays	Unknown
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:30	7:45	6	8	0	0
7:45	8:00	7	3	1	0
8:00	8:15	8	7	0	0
8:15	8:30	5	4	0	0
8:30	8:45	2	1	0	0
8:45	9:00	5	2	0	0
9:00	9:15	5	4	2	0
9:15	9:30	3	5	0	0
9:30	9:45	10	8	0	0
9:45	10:00	9	5	3	0
10:00	10:15	6	8	0	0
10:15	10:30	4	7	0	0
10:30	10:45	7	4	0	0
10:45	11:00	2	7	0	0
11:00	11:15	3	5	0	0
11:15	11:30	4	3	0	0
11:30	11:45	3	4	0	0
11:45	12:00	5	3	0	0
12:00	12:15	7	9	0	0
12:15	12:30	1	2	0	0
12:30	12:45	2	1	0	0
12:45	13:00	5	1	0	0
13:00	13:15	4	2	0	0
13:15	13:30	4	3	0	0
13:30	13:45	2	1	0	0
13:45	14:00	0	3	0	0
14:00	14:15	1	3	0	0
14:15	14:30	4	9	0	0
14:30	14:45	0	3	0	0
14:45	15:00	1	1	0	0
15:00	15:15	2	5	0	0
15:15	15:30	3	5	0	0
15:30	15:45	1	2	0	0
15:45	16:00	1	1	0	0
16:00	16:15	0	0	0	0
16:15	16:30	0	0	0	0
16:30	16:45	0	2	0	0
16:45	17:00	0	1	0	0
Total		132	142	6	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:30	7:45	2	1	1	0
7:45	8:00	2	2	1	0
8:00	8:15	4	2	2	0
8:15	8:30	6	9	1	0
8:30	8:45	7	2	0	0
8:45	9:00	11	4	2	0
9:00	9:15	7	4	1	0
9:15	9:30	7	4	0	0
9:30	9:45	16	15	1	0
9:45	10:00	7	5	4	0
10:00	10:15	7	6	4	0
10:15	10:30	3	5	0	0
10:30	10:45	5	7	0	0
10:45	11:00	7	9	0	0
11:00	11:15	7	12	1	0
11:15	11:30	7	3	0	0
11:30	11:45	12	11	4	0
11:45	12:00	5	6	1	0
12:00	12:15	2	8	0	0
12:15	12:30	5	6	1	0
12:30	12:45	5	6	0	0
12:45	13:00	2	6	0	0
13:00	13:15	4	2	2	0
13:15	13:30	10	9	0	0
13:30	13:45	3	4	0	0
13:45	14:00	1	3	0	0
14:00	14:15	0	4	0	0
14:15	14:30	0	0	0	0
14:30	14:45	4	5	1	0
14:45	15:00	1	3	1	0
15:00	15:15	4	4	0	0
15:15	15:30	1	4	0	0
Total		164	171	28	0

Sunday 16th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:30	7:45	6	1	0	0
7:45	8:00	3	1	4	0
8:00	8:15	1	1	0	0
8:15	8:30	2	0	3	0
8:30	8:45	3	2	0	0
8:45	9:00	8	3	5	0
9:00	9:15	6	2	3	0
9:15	9:30	2	3	3	0
9:30	9:45	8	8	2	0
9:45	10:00	7	3	0	0
10:00	10:15	14	7	3	0
10:15	10:30	15	9	3	0
10:30	10:45	15	13	0	0
10:45	11:00	2	10	0	0
11:00	11:15	8	7	1	0
11:15	11:30	10	7	0	0
11:30	11:45	9	9	1	0
11:45	12:00	5	6	2	0
12:00	12:15	10	9	0	0
12:15	12:30	2	6	0	0
12:30	12:45	6	6	0	0
12:45	13:00	5	11	3	0
13:00	13:15	8	6	0	0
13:15	13:30	1	2	2	0
13:30	13:45	0	7	0	0
13:45	14:00	1	7	0	0
14:00	14:15	2	4	0	0
14:15	14:30	3	4	2	0
14:30	14:45	2	2	1	0
14:45	15:00	1	5	0	0
15:00	15:15	0	0	0	0
15:15	15:30	1	3	0	0
Total		166	164	38	0

Site Location	Stella Hand Car Wash & Table 1
Survey Date	21st-23rd June 2019
Survey Period	6am-7pm
Main Traffic Flow	City Road
AM Peak Period	7:45am - 8:45am
PM Peak Period	3:45pm - 4:45pm

Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:30 AM	7:45 AM	143	5	394	16	
						2578
8:45 AM	9:00 AM	177	10	392	13	2525
9:00 AM	9:15 AM	175	6	350	9	2422
9:15 AM	9:30 AM	170	9	279	6	2173
9:30 AM	9:45 AM	171	6	230	6	2009
9:45 AM	10:00 AM	158	7	223	7	1812
10:00 AM	10:15 AM	171	10	186	3	1642
10:15 AM	10:30 AM	144	8	201	11	1542
10:30 AM	10:45 AM	199	8	183	5	1524
10:45 AM	11:00 AM	187	9	160	7	1492
11:00 AM	11:15 AM	190	0	179	4	1495
11:15 AM	11:30 AM	176	7	191	8	1513
11:30 AM	11:45 AM	213	3	170	3	1507
11:45 AM	12:00 PM	206	9	192	4	1555
12:00 PM	12:15 PM	222	3	174	7	1588
12:15 PM	12:30 PM	165	8	168	5	1552
12:30 PM	12:45 PM	191	3	160	5	1522
12:45 PM	1:00 PM	215	9	178	6	1519
1:00 PM	1:15 PM	191	3	156	10	1473
1:15 PM	1:30 PM	201	5	174	7	1514
1:30 PM	1:45 PM	198	8	161	4	1526
1:45 PM	2:00 PM	217	8	205	10	1558
2:00 PM	2:15 PM	225	7	172	5	1607
2:15 PM	2:30 PM	270	10	156	2	1658
2:30 PM	2:45 PM	318	15	177	6	1803
2:45 PM	3:00 PM	255	6	224	5	1853
3:00 PM	3:15 PM	349	14	176	7	1990
3:15 PM	3:30 PM	361	4	219	5	2141
						2260
						2369
						2418
4:30 PM	4:45 PM	362	1	211	5	2398
4:45 PM	5:00 PM	356	2	254	3	2414
AM Peak Period		798	33	1752	14	2597
PM Peak Period		1465	31	935	23	2454
Total		8839	267	8982	231	18319



AM Peak Period	10:45am - 11:45am
PM Peak Period	12:00pm - 1:00pm

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:30 AM	7:45 AM	67	1	167	3	
7:45 AM	8:00 AM	74	4	177	4	
8:00 AM	8:15 AM	110	1	183	5	
8:15 AM	8:30 AM	119	4	176	2	1097
8:30 AM	8:45 AM	158	2	204	2	1225
8:45 AM	9:00 AM	184	2	245	1	1398
9:00 AM	9:15 AM	145	3	227	6	1480
9:15 AM	9:30 AM	193	3	213	2	1590
9:30 AM	9:45 AM	228	1	212	5	1670
9:45 AM	10:00 AM	202	1	240	4	1685
10:00 AM	10:15 AM	198	4	215	0	1721
10:15 AM	10:30 AM	231	0	234	0	1775
10:30 AM	10:45 AM	216	6	221	0	1772
10:45 AM	11:00 AM	268	5	238	2	1838
11:00 AM	11:15 AM	281	3	247	1	1953
11:15 AM	11:30 AM	237	3	214	0	1942
11:30 AM	11:45 AM	272	0	256	4	2031
11:45 AM	12:00 PM	242	2	236	4	2002
12:00 PM	12:15 PM	339	4	206	1	2020
12:15 PM	12:30 PM	279	2	289	0	2136
12:30 PM	12:45 PM	278	6	272	1	2161
12:45 PM	1:00 PM	251	4	266	3	2201
1:00 PM	1:15 PM	226	3	213	4	2097
1:15 PM	1:30 PM	283	2	236	0	2048
1:30 PM	1:45 PM	246	2	207	1	1947
1:45 PM	2:00 PM	252	1	229	0	1905
2:00 PM	2:15 PM	210	0	231	0	1900
2:15 PM	2:30 PM	233	0	232	0	1844
2:30 PM	2:45 PM	279	0	227	1	1895
2:45 PM	3:00 PM	219	2	193	1	1828
3:00 PM	3:15 PM	238	1	192	1	1819
3:15 PM	3:30 PM	195	2	175	1	1727
AM Peak Period		1058	11	955	7	2031
PM Peak Period		1147	16	1033	5	2201
Total		6953	74	7073	59	14159

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:15pm - 1:15pm

Sunday 16th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:30 AM	7:45 AM	37	1	63	0	
7:45 AM	8:00 AM	53	0	67	2	
8:00 AM	8:15 AM	60	3	65	0	
8:15 AM	8:30 AM	57	0	115	0	523
8:30 AM	8:45 AM	72	1	133	2	630
8:45 AM	9:00 AM	98	1	147	0	754
9:00 AM	9:15 AM	98	0	129	1	854
9:15 AM	9:30 AM	136	0	153	0	971
9:30 AM	9:45 AM	130	1	133	1	1028
9:45 AM	10:00 AM	154	2	171	2	1111
10:00 AM	10:15 AM	191	0	150	4	1228
10:15 AM	10:30 AM	171	0	133	1	1244
10:30 AM	10:45 AM	177	2	200	2	1360
10:45 AM	11:00 AM	174	2	189	2	1398
						1406
						1516
						1540
12:00 PM	12:15 PM	196	6	186	2	1594
						1602
						1619
						1653
1:15 PM	1:30 PM	210	0	174	0	1639
1:30 PM	1:45 PM	220	2	146	0	1585
1:45 PM	2:00 PM	178	1	183	0	1529
2:00 PM	2:15 PM	203	2	167	1	1487
2:15 PM	2:30 PM	206	0	182	0	1491
2:30 PM	2:45 PM	198	0	148	1	1470
2:45 PM	3:00 PM	186	3	185	0	1482
3:00 PM	3:15 PM	201	3	151	0	1464
3:15 PM	3:30 PM	191	2	149	0	1418
AM Peak Period		804	5	745	3	1557
PM Peak Period		880	6	790	2	1678
Total		5281	43	5054	26	10404

Car Wash Cafe Site Information	
Site Location	Blanc Noir Hand Wash Cafe
Building Area m ²	
Year Opened	
Opening Times	8:00am-5:30pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-5:30pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	0	0	0
8:15	8:30	0	0	0	0
8:30	8:45	0	0	0	0
8:45	9:00	0	0	0	0
9:00	9:15	2	2	1	0
9:15	9:30	2	0	0	0
9:30	9:45	2	1	0	0
9:45	10:00	0	3	0	0
10:00	10:15	2	0	0	0
10:15	10:30	1	0	0	0
10:30	10:45	1	2	0	0
10:45	11:00	1	1	0	0
11:00	11:15	2	1	0	0
11:15	11:30	3	0	0	0
11:30	11:45	0	3	0	0
11:45	12:00	1	1	0	0
12:00	12:15	1	2	0	0
12:15	12:30	0	1	0	0
12:30	12:45	1	1	0	0
12:45	13:00	0	1	0	0
13:00	13:15	0	0	0	0
13:15	13:30	2	0	0	0
13:30	13:45	0	1	0	0
13:45	14:00	0	1	0	0
14:00	14:15	1	0	0	0
14:15	14:30	1	1	0	0
14:30	14:45	1	0	0	0
14:45	15:00	0	1	0	0
15:00	15:15	1	1	0	0
15:15	15:30	0	1	0	0
15:30	15:45	1	0	0	0
15:45	16:00	0	1	0	0
16:00	16:15	1	0	0	0
16:15	16:30	0	0	0	0
16:30	16:45	0	1	0	0
16:45	17:00	0	1	0	0
17:00	17:15	0	0	0	0
17:15	17:30	0	0	0	0
Total		27	28	1	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	0	0	0
8:15	8:30	0	0	0	0
8:30	8:45	0	0	0	0
8:45	9:00	0	0	0	0
9:00	9:15	0	0	0	0
9:15	9:30	2	0	0	0
9:30	9:45	2	1	0	1
9:45	10:00	2	1	0	0
10:00	10:15	1	2	0	0
10:15	10:30	1	1	0	0
10:30	10:45	0	1	0	0
10:45	11:00	1	2	0	0
11:00	11:15	1	0	0	0
11:15	11:30	0	2	0	0
11:30	11:45	0	0	0	0
11:45	12:00	2	1	0	0
12:00	12:15	4	2	0	0
12:15	12:30	2	1	0	0
12:30	12:45	1	1	0	0
12:45	13:00	0	2	0	0
13:00	13:15	0	2	0	0
13:15	13:30	2	0	0	0
13:30	13:45	0	0	0	0
13:45	14:00	0	1	0	0
14:00	14:15	2	1	0	0
14:15	14:30	0	0	0	0
14:30	14:45	0	2	0	0
14:45	15:00	0	0	0	0
15:00	15:15	1	0	0	0
15:15	15:30	0	0	0	0
15:30	15:45	5	1	0	0
15:45	16:00	0	1	0	0
16:00	16:15	2	0	0	0
16:15	16:30	0	0	0	0
16:30	16:45	0	2	0	0
16:45	17:00	0	2	0	0
17:00	17:15	0	2	0	0
17:15	17:30	0	0	0	0
Total		31	31	0	1

Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	0	0	0
8:15	8:30	2	0	1	0
8:30	8:45	2	0	1	0
8:45	9:00	0	1	0	0
9:00	9:15	0	1	0	0
9:15	9:30	2	1	0	0
9:30	9:45	0	0	0	0
9:45	10:00	2	2	0	0
10:00	10:15	0	0	0	0
10:15	10:30	0	0	0	0
10:30	10:45	0	2	0	0
10:45	11:00	0	0	0	0
11:00	11:15	3	1	0	0
11:15	11:30	1	2	0	0
11:30	11:45	1	1	0	0
11:45	12:00	1	3	0	0
12:00	12:15	4	0	0	0
12:15	12:30	0	0	0	0
12:30	12:45	2	3	0	0
12:45	13:00	0	2	0	0
13:00	13:15	1	0	0	0
13:15	13:30	2	3	0	0
13:30	13:45	1	0	0	0
13:45	14:00	2	1	0	0
14:00	14:15	1	1	0	0
14:15	14:30	1	2	0	0
14:30	14:45	2	1	0	0
14:45	15:00	0	1	0	0
15:00	15:15	4	1	0	0
15:15	15:30	2	0	0	0
15:30	15:45	1	2	0	0
15:45	16:00	2	0	0	0
16:00	16:15	0	2	0	0
16:15	16:30	1	0	0	0
16:30	16:45	1	1	0	0
16:45	17:00	0	2	0	0
17:00	17:15	0	1	0	0
17:15	17:30	0	3	0	0
Total		41	40	2	0

Site Location	Blanc Noir Hand wash Café
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8am-5:30pm
Main Traffic Flow	Pennant Hills Road (Cumberland H'way)
AM Peak Period	10:45am - 11:45am
PM Peak Period	2:45pm - 3:45pm

Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	415	66	423	72	
8:15 AM	8:30 AM	369	54	395	68	
8:30 AM	8:45 AM	380	71	329	79	
8:45 AM	9:00 AM	343	68	373	74	3579
9:00 AM	9:15 AM	348	83	347	79	3460
9:15 AM	9:30 AM	362	88	397	67	3488
9:30 AM	9:45 AM	346	93	354	80	3502
9:45 AM	10:00 AM	362	105	433	94	3638
10:00 AM	10:15 AM	341	97	423	69	3711
10:15 AM	10:30 AM	369	97	415	65	3743
10:30 AM	10:45 AM	323	98	391	66	3748
						3715
						3719
						3681
11:45 AM	12:00 PM	344	88	363	88	3671
12:00 PM	12:15 PM	374	93	419	78	3701
12:15 PM	12:30 PM	363	86	401	72	3715
12:30 PM	12:45 PM	396	92	458	81	3796
12:45 PM	1:00 PM	392	88	476	72	3941
1:00 PM	1:15 PM	394	98	452	59	3980
1:15 PM	1:30 PM	354	88	464	64	4028
1:30 PM	1:45 PM	414	86	457	59	4017
1:45 PM	2:00 PM	410	90	413	70	3972
2:00 PM	2:15 PM	458	80	504	70	4081
2:15 PM	2:30 PM	461	76	411	58	4117
						4257
						4432
						4448
3:30 PM	3:45 PM	487	67	511	45	4552
3:45 PM	4:00 PM	492	61	560	36	4543
4:00 PM	4:15 PM	423	48	580	46	4512
4:15 PM	4:30 PM	440	48	628	38	4510
4:30 PM	4:45 PM	479	52	547	39	4517
4:45 PM	5:00 PM	432	40	552	51	4443
5:00 PM	5:15 PM	414	48	598	39	4445
5:15 PM	5:30 PM	484	35	484	32	4326
AM Peak Period		1469	394	1549	337	3749
PM Peak Period		1851	334	2192	221	4598
Total		15289	3012	17299	2468	38068



AM Peak Period	10:45am - 11:45am
PM Peak Period	12:00pm - 1:00pm

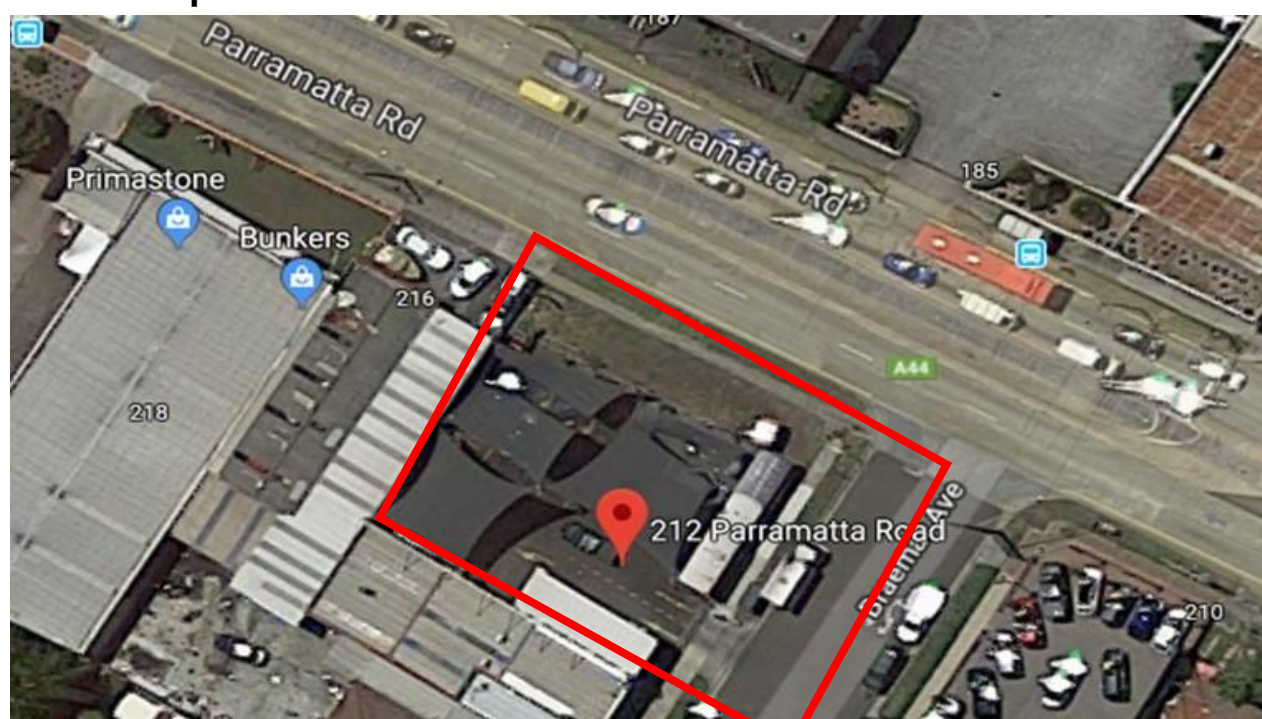
Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	371	30	355	30	
8:15 AM	8:30 AM	383	27	469	40	
8:30 AM	8:45 AM	359	33	417	31	
8:45 AM	9:00 AM	397	31	464	28	3465
9:00 AM	9:15 AM	424	25	422	37	3587
9:15 AM	9:30 AM	440	28	437	25	3598
9:30 AM	9:45 AM	459	27	468	30	3742
9:45 AM	10:00 AM	501	51	568	30	3972
10:00 AM	10:15 AM	534	37	478	32	4145
10:15 AM	10:30 AM	441	29	480	35	4200
10:30 AM	10:45 AM	471	23	559	32	4301
10:45 AM	11:00 AM	462	31	565	26	4235
11:00 AM	11:15 AM	528	33	579	38	4332
11:15 AM	11:30 AM	542	25	563	45	4522
11:30 AM	11:45 AM	497	33	577	36	4580
11:45 AM	12:00 PM	489	37	531	24	4577
12:00 PM	12:15 PM	464	26	599	30	4518
12:15 PM	12:30 PM	498	38	654	34	4567
12:30 PM	12:45 PM	547	23	611	37	4642
12:45 PM	1:00 PM	550	38	532	23	4704
1:00 PM	1:15 PM	434	31	550	34	4634
1:15 PM	1:30 PM	523	33	579	29	4574
1:30 PM	1:45 PM	504	30	529	20	4439
1:45 PM	2:00 PM	488	24	610	27	4445
2:00 PM	2:15 PM	491	26	520	33	4466
2:15 PM	2:30 PM	501	24	499	28	4354
2:30 PM	2:45 PM	509	23	527	19	4349
2:45 PM	3:00 PM	438	21	577	26	4262
3:00 PM	3:15 PM	603	18	537	20	4370
3:15 PM	3:30 PM	542	12	525	15	4412
3:30 PM	3:45 PM	516	25	502	22	4399
3:45 PM	4:00 PM	517	14	544	21	4433
4:00 PM	4:15 PM	581	18	532	12	4398
4:15 PM	4:30 PM	540	14	534	21	4413
4:30 PM	4:45 PM	611	10	473	14	4456
4:45 PM	5:00 PM	565	20	521	16	4482
5:00 PM	5:15 PM	568	14	512	18	4451
5:15 PM	5:30 PM	569	13	501	27	4452
AM Peak Period		2029	122	2284	145	4580
PM Peak Period		2059	125	2396	124	4704
Total		18857	995	19900	1045	40797

AM Peak Period	11:00am - 12:00pm
PM Peak Period	3:45pm - 4:45pm

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	256	12	218	10	
8:15 AM	8:30 AM	307	8	196	16	
8:30 AM	8:45 AM	395	6	304	13	
8:45 AM	9:00 AM	447	13	296	7	2504
9:00 AM	9:15 AM	462	12	352	12	2846
9:15 AM	9:30 AM	520	13	359	13	3224
9:30 AM	9:45 AM	526	11	432	9	3484
9:45 AM	10:00 AM	580	15	460	10	3786
10:00 AM	10:15 AM	584	10	404	5	3951
10:15 AM	10:30 AM	512	8	463	9	4038
10:30 AM	10:45 AM	512	10	521	12	4115
10:45 AM	11:00 AM	578	10	504	12	4154
11:00 AM	11:15 AM	567	9	565	9	4301
11:15 AM	11:30 AM	619	17	598	17	4560
11:30 AM	11:45 AM	570	15	601	14	4705
11:45 AM	12:00 PM	554	19	594	10	4778
12:00 PM	12:15 PM	633	13	677	18	4969
12:15 PM	12:30 PM	623	17	595	13	4966
12:30 PM	12:45 PM	520	12	615	13	4926
12:45 PM	1:00 PM	513	20	567	10	4859
1:00 PM	1:15 PM	585	17	588	15	4723
1:15 PM	1:30 PM	584	19	626	14	4718
1:30 PM	1:45 PM	578	13	569	17	4735
1:45 PM	2:00 PM	509	11	557	13	4715
2:00 PM	2:15 PM	511	10	555	17	4603
2:15 PM	2:30 PM	583	23	600	16	4582
2:30 PM	2:45 PM	539	12	575	11	4542
2:45 PM	3:00 PM	579	12	602	13	4658
3:00 PM	3:15 PM	516	15	670	9	4775
3:15 PM	3:30 PM	625	5	659	12	4854
3:30 PM	3:45 PM	511	13	573	11	4825
3:45 PM	4:00 PM	610	15	621	8	4873
4:00 PM	4:15 PM	592	18	656	16	4945
4:15 PM	4:30 PM	553	10	735	11	4953
4:30 PM	4:45 PM	603	12	619	13	5092
4:45 PM	5:00 PM	503	8	637	12	4998
5:00 PM	5:15 PM	566	14	652	11	4959
5:15 PM	5:30 PM	473	15	622	14	4774
AM Peak Period		2310	60	2358	50	4778
PM Peak Period		2358	55	2631	48	5092
Total		20298	492	20437	465	41692

Car Wash Cafe Site Information	
Site Location	Xibit Car wash Café
Building Area m ²	
Year Opened	
Opening Times	8:00am-5:30pm Weekdays, 8:00am - 5:00pm Weekends
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-5:30pm Friday, 8:00am - 5:00pm Sat & Sun
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	4	0
8:15	8:30	1	0	2	0
8:30	8:45	2	0	0	0
8:45	9:00	1	1	1	0
9:00	9:15	0	1	1	0
9:15	9:30	1	0	0	0
9:30	9:45	1	0	0	0
9:45	10:00	3	0	1	0
10:00	10:15	0	2	1	0
10:15	10:30	0	2	0	0
10:30	10:45	3	0	0	0
10:45	11:00	1	1	0	0
11:00	11:15	1	2	0	0
11:15	11:30	0	3	1	0
11:30	11:45	1	1	0	0
11:45	12:00	0	0	0	0
12:00	12:15	0	1	0	0
12:15	12:30	1	0	0	0
12:30	12:45	2	1	0	0
12:45	13:00	0	1	0	0
13:00	13:15	3	0	0	0
13:15	13:30	1	2	0	0
13:30	13:45	1	3	0	0
13:45	14:00	2	1	0	0
14:00	14:15	1	1	0	0
14:15	14:30	0	1	1	0
14:30	14:45	2	2	0	0
14:45	15:00	1	2	0	0
15:00	15:15	1	2	0	0
15:15	15:30	2	2	0	0
15:30	15:45	1	1	0	0
15:45	16:00	0	2	0	0
16:00	16:15	1	2	0	0
16:15	16:30	0	2	0	0
16:30	16:45	1	1	0	0
16:45	17:00	2	2	0	0
17:00	17:15	0	1	1	0
17:15	17:30	0	2	0	0
13 Hr Total		38	45	13	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	0	5	0
8:15	8:30	2	0	2	0
8:30	8:45	1	1	0	0
8:45	9:00	0	0	1	0
9:00	9:15	0	1	0	0
9:15	9:30	2	0	0	0
9:30	9:45	1	1	0	0
9:45	10:00	1	0	0	0
10:00	10:15	0	1	0	0
10:15	10:30	1	0	0	0
10:30	10:45	2	3	0	0
10:45	11:00	2	2	3	0
11:00	11:15	1	2	0	0
11:15	11:30	0	0	0	0
11:30	11:45	2	1	0	0
11:45	12:00	1	1	4	0
12:00	12:15	1	0	1	0
12:15	12:30	1	2	1	0
12:30	12:45	1	1	1	0
12:45	13:00	1	0	0	0
13:00	13:15	2	1	0	0
13:15	13:30	1	2	0	0
13:30	13:45	1	1	0	0
13:45	14:00	2	2	2	0
14:00	14:15	0	1	0	0
14:15	14:30	1	1	1	0
14:30	14:45	4	1	0	0
14:45	15:00	0	2	0	0
15:00	15:15	1	1	1	0
15:15	15:30	1	1	0	0
15:30	15:45	3	1	0	0
15:45	16:00	4	1	0	0
16:00	16:15	4	1	0	0
16:15	16:30	0	4	0	0
16:30	16:45	1	5	0	0
16:45	17:00	0	1	1	0
13 Hr Total		45	42	23	0

Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	0	0
8:15	8:30	0	0	0	0
8:30	8:45	3	0	0	0
8:45	9:00	1	0	0	0
9:00	9:15	3	3	0	0
9:15	9:30	2	1	0	0
9:30	9:45	0	3	0	0
9:45	10:00	2	2	0	0
10:00	10:15	0	2	0	0
10:15	10:30	1	0	0	0
10:30	10:45	1	2	0	0
10:45	11:00	1	1	0	0
11:00	11:15	0	1	0	0
11:15	11:30	3	0	0	0
11:30	11:45	3	2	0	0
11:45	12:00	1	1	0	0
12:00	12:15	2	1	0	0
12:15	12:30	3	1	2	0
12:30	12:45	1	2	5	0
12:45	13:00	1	4	1	0
13:00	13:15	1	5	0	0
13:15	13:30	2	3	0	0
13:30	13:45	1	1	0	0
13:45	14:00	2	2	0	0
14:00	14:15	1	1	1	0
14:15	14:30	2	0	0	0
14:30	14:45	2	2	0	0
14:45	15:00	1	2	2	0
15:00	15:15	4	1	0	0
15:15	15:30	2	3	0	0
15:30	15:45	1	2	0	0
15:45	16:00	3	1	0	0
16:00	16:15	0	2	0	0
16:15	16:30	1	1	0	0
16:30	16:45	0	2	0	0
16:45	17:00	1	1	0	0
13 Hr Total		53	55	11	0

Site Location	Xibit Car Wash Café
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8am-5:30pm Fri & 8am-5pm Sat &
Main Traffic Flow	Parramatta Road
AM Peak Period	11:00am - 12:00pm
PM Peak Period	1:45pm - 2:45pm



AM Peak Period	11:00am - 12:00pm
PM Peak Period	4:00pm - 5:00pm

Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	246	32	290	39	
8:15 AM	8:30 AM	279	24	281	32	
8:30 AM	8:45 AM	295	33	259	35	
8:45 AM	9:00 AM	302	34	255	35	2471
9:00 AM	9:15 AM	276	38	268	39	2485
9:15 AM	9:30 AM	277	43	268	36	2493
9:30 AM	9:45 AM	284	34	257	44	2490
9:45 AM	10:00 AM	251	39	249	31	2434
10:00 AM	10:15 AM	274	42	256	35	2420
10:15 AM	10:30 AM	279	39	279	37	2430
10:30 AM	10:45 AM	253	42	250	42	2398
10:45 AM	11:00 AM	268	38	273	44	2451
						2485
						2476
						2496
12:00 PM	12:15 PM	280	43	258	27	2465
12:15 PM	12:30 PM	302	41	251	32	2466
12:30 PM	12:45 PM	278	30	286	36	2489
12:45 PM	1:00 PM	276	45	271	26	2482
1:00 PM	1:15 PM	303	25	277	43	2522
1:15 PM	1:30 PM	289	38	285	25	2533
1:30 PM						2531
1:45 PM						2496
2:00 PM						2524
2:15 PM						
2:30 PM	2:45 PM	265	27	194	19	2435
2:45 PM	3:00 PM	271	24	254	19	2420
3:00 PM	3:15 PM	273	25	238	24	2304
3:15 PM	3:30 PM	283	11	245	22	2194
3:30 PM	3:45 PM	263	14	268	10	2244
3:45 PM	4:00 PM	276	18	268	14	2252
4:00 PM	4:15 PM	269	20	300	13	2294
4:15 PM	4:30 PM	281	13	270	13	2310
4:30 PM	4:45 PM	261	11	254	13	2294
4:45 PM	5:00 PM	257	13	288	15	2291
5:00 PM	5:15 PM	251	20	303	13	2276
5:15 PM	5:30 PM	252	13	276	12	2252
AM Peak Period		1172	142	1048	136	2498
PM Peak Period		1211	137	1112	98	2558
Total		10597	1148	10131	1059	22935

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	251	11	221	15	
8:15 AM	8:30 AM	259	21	276	19	
8:30 AM	8:45 AM	282	15	284	13	
8:45 AM	9:00 AM	279	18	247	15	2226
9:00 AM	9:15 AM	296	18	258	12	2312
9:15 AM	9:30 AM	274	13	326	12	2362
9:30 AM	9:45 AM	331	14	321	16	2450
9:45 AM	10:00 AM	315	10	257	17	2490
10:00 AM	10:15 AM	301	13	315	8	2543
10:15 AM	10:30 AM	354	11	298	7	2588
10:30 AM	10:45 AM	369	18	329	9	2631
10:45 AM	11:00 AM	377	6	300	10	2725
11:00 AM	11:15 AM	357	16	329	6	2796
11:15 AM	11:30 AM	349	11	327	6	2819
11:30 AM	11:45 AM	394	12	341	10	2851
11:45 AM	12:00 PM	370	9	330	7	2874
12:00 PM	12:15 PM	367	10	276	6	2825
12:15 PM	12:30 PM	323	9	327	7	2798
12:30 PM	12:45 PM	323	11	299	8	2682
12:45 PM	1:00 PM	317	9	280	7	2579
1:00 PM	1:15 PM	375	5	279	3	2582
1:15 PM	1:30 PM	325	9	301	7	2558
1:30 PM	1:45 PM	276	7	309	7	2516
1:45 PM	2:00 PM	266	7	307	6	2489
2:00 PM	2:15 PM	273	6	287	8	2401
2:15 PM	2:30 PM	313	3	338	7	2420
2:30 PM	2:45 PM	298	5	335	5	2464
2:45 PM	3:00 PM	284	7	371	4	2544
3:00 PM	3:15 PM	255	6	322	5	2558
3:15 PM	3:30 PM	241	3	366	3	2510
3:30 PM	3:45 PM	226	6	305	4	2408
3:45 PM	4:00 PM	233	4	319	9	2307
4:00 PM	4:15 PM	290	8	378	2	2397
4:15 PM	4:30 PM	267	3	339	3	2396
4:30 PM	4:45 PM	355	2	325	3	2540
4:45 PM	5:00 PM	281	3	364	6	2629
AM Peak Period		1470	48	1327	29	2874
PM Peak Period		1193	16	1406	14	2629
Total		11046	339	11186	292	22863

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:00pm - 1:00pm

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	153	5	195	5	
8:15 AM	8:30 AM	195	4	192	9	
8:30 AM	8:45 AM	186	9	194	8	
8:45 AM	9:00 AM	230	4	205	9	1603
9:00 AM	9:15 AM	227	7	244	6	1729
9:15 AM	9:30 AM	267	8	306	4	1914
9:30 AM	9:45 AM	303	6	304	4	2134
9:45 AM	10:00 AM	302	7	333	4	2332
10:00 AM	10:15 AM	323	4	292	3	2470
10:15 AM	10:30 AM	270	8	320	7	2490
10:30 AM	10:45 AM	300	5	352	7	2537
10:45 AM	11:00 AM	312	3	349	4	2559
						2614
						2699
						2754
						2785
						2844
						2825
1:00 PM	1:15 PM	307	5	321	2	2812
1:15 PM	1:30 PM	311	2	256	4	2636
1:30 PM	1:45 PM	256	5	275	4	2476
1:45 PM	2:00 PM	271	1	256	4	2280
2:00 PM	2:15 PM	345	4	381	4	2379
2:15 PM	2:30 PM	327	4	310	5	2452
2:30 PM	2:45 PM	348	2	294	3	2559
2:45 PM	3:00 PM	311	4	374	4	2720
3:00 PM	3:15 PM	329	2	338	3	2658
3:15 PM	3:30 PM	339	3	320	3	2677
3:30 PM	3:45 PM	334	5	353	3	2725
3:45 PM	4:00 PM	332	7	333	7	2711
4:00 PM	4:15 PM	326	7	352	2	2726
4:15 PM	4:30 PM	328	2	351	2	2744
4:30 PM	4:45 PM	338	1	369	9	2766
4:45 PM	5:00 PM	357	2	347	5	2798
AM Peak Period		1397	17	1345	10	2769
PM Peak Period		1471	20	1367	12	2870
Total		11095	163	11228	156	22642

Car Wash Cafe Site Information	
Site Location	Aqua Car wash
Building Area m ²	
Year Opened	
Opening Times	7:30am-5:00pm Mon-Fri /8:00am-5:00pm Sat & Sun
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	7:30am-5:00pm Fri /8:00am-5:00pm Sat & Sun
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
7:30	7:45	4	0	0	0
7:45	8:00	1	2	0	0
8:00	8:15	4	0	0	0
8:15	8:30	3	2	0	0
8:30	8:45	1	2	0	0
8:45	9:00	4	2	0	0
9:00	9:15	5	3	0	0
9:15	9:30	1	4	0	0
9:30	9:45	0	2	0	0
9:45	10:00	3	1	0	0
10:00	10:15	6	3	0	0
10:15	10:30	5	2	0	0
10:30	10:45	3	2	0	0
10:45	11:00	5	3	0	0
11:00	11:15	5	6	0	0
11:15	11:30	3	5	0	0
11:30	11:45	3	4	0	0
11:45	12:00	5	1	0	0
12:00	12:15	4	4	0	0
12:15	12:30	4	6	0	0
12:30	12:45	4	2	0	0
12:45	13:00	6	3	0	0
13:00	13:15	4	5	0	0
13:15	13:30	3	3	0	0
13:30	13:45	2	4	0	0
13:45	14:00	4	4	0	0
14:00	14:15	4	7	0	0
14:15	14:30	5	3	0	0
14:30	14:45	5	3	0	0
14:45	15:00	4	6	0	0
15:00	15:15	1	4	0	0
15:15	15:30	1	2	0	0
15:30	15:45	6	5	1	0
15:45	16:00	3	4	0	0
16:00	16:15	0	2	0	0
16:15	16:30	3	4	0	0
16:30	16:45	0	2	0	0
16:45	17:00	1	7	0	0
Total		125	124	1	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	5	0	0	0
8:15	8:30	4	2	0	0
8:30	8:45	1	1	0	0
8:45	9:00	3	4	0	0
9:00	9:15	1	4	0	0
9:15	9:30	8	2	0	0
9:30	9:45	3	0	0	0
9:45	10:00	4	3	0	0
10:00	10:15	1	3	0	0
10:15	10:30	3	5	0	0
10:30	10:45	3	2	0	0
10:45	11:00	6	3	0	0
11:00	11:15	4	4	0	0
11:15	11:30	4	4	0	0
11:30	11:45	4	2	0	0
11:45	12:00	5	4	0	0
12:00	12:15	7	5	0	0
12:15	12:30	2	4	0	0
12:30	12:45	3	4	0	0
12:45	13:00	4	4	0	0
13:00	13:15	4	4	0	0
13:15	13:30	3	4	0	0
13:30	13:45	4	4	0	0
13:45	14:00	3	5	0	0
14:00	14:15	4	4	0	0
14:15	14:30	3	3	0	0
14:30	14:45	2	3	0	0
14:45	15:00	4	3	0	0
15:00	15:15	7	3	0	0
15:15	15:30	2	6	0	0
15:30	15:45	1	6	0	0
15:45	16:00	2	5	0	0
16:00	16:15	4	3	0	0
16:15	16:30	4	1	0	0
16:30	16:45	0	3	0	0
16:45	17:00	0	7	0	0
Total		122	124	0	0

Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	3	0	0	0
8:15	8:30	3	2	2	0
8:30	8:45	3	5	1	0
8:45	9:00	2	2	0	0
9:00	9:15	5	0	0	0
9:15	9:30	5	2	2	0
9:30	9:45	5	3	0	0
9:45	10:00	7	6	0	0
10:00	10:15	5	2	0	0
10:15	10:30	2	4	0	0
10:30	10:45	7	6	1	0
10:45	11:00	6	4	0	0
11:00	11:15	7	4	1	0
11:15	11:30	10	6	1	0
11:30	11:45	7	4	0	0
11:45	12:00	4	6	0	0
12:00	12:15	10	9	0	0
12:15	12:30	1	6	0	0
12:30	12:45	7	5	0	0
12:45	13:00	6	4	0	0
13:00	13:15	1	5	0	0
13:15	13:30	3	4	0	0
13:30	13:45	3	5	0	0
13:45	14:00	6	9	0	0
14:00	14:15	2	3	1	0
14:15	14:30	6	2	0	0
14:30	14:45	3	5	1	0
14:45	15:00	6	2	0	0
15:00	15:15	4	6	0	0
15:15	15:30	8	5	0	0
15:30	15:45	3	3	0	0
15:45	16:00	3	6	1	0
16:00	16:15	3	5	0	0
16:15	16:30	0	5	0	0
16:30	16:45	2	6	0	0
16:45	17:00	1	5	0	0
Total		159	156	11	0

Site Location	Aqua Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	7:30am-5pm Fri, 8am-5pm Sat & Sun
Main Traffic Flow	President Avenue
AM Peak Period	8:00am - 9:00am
PM Peak Period	3:30pm - 4:30pm



AM Peak Period	10:45am - 11:45am
PM Peak Period	12:00pm - 1:00pm

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:00pm - 1:00pm

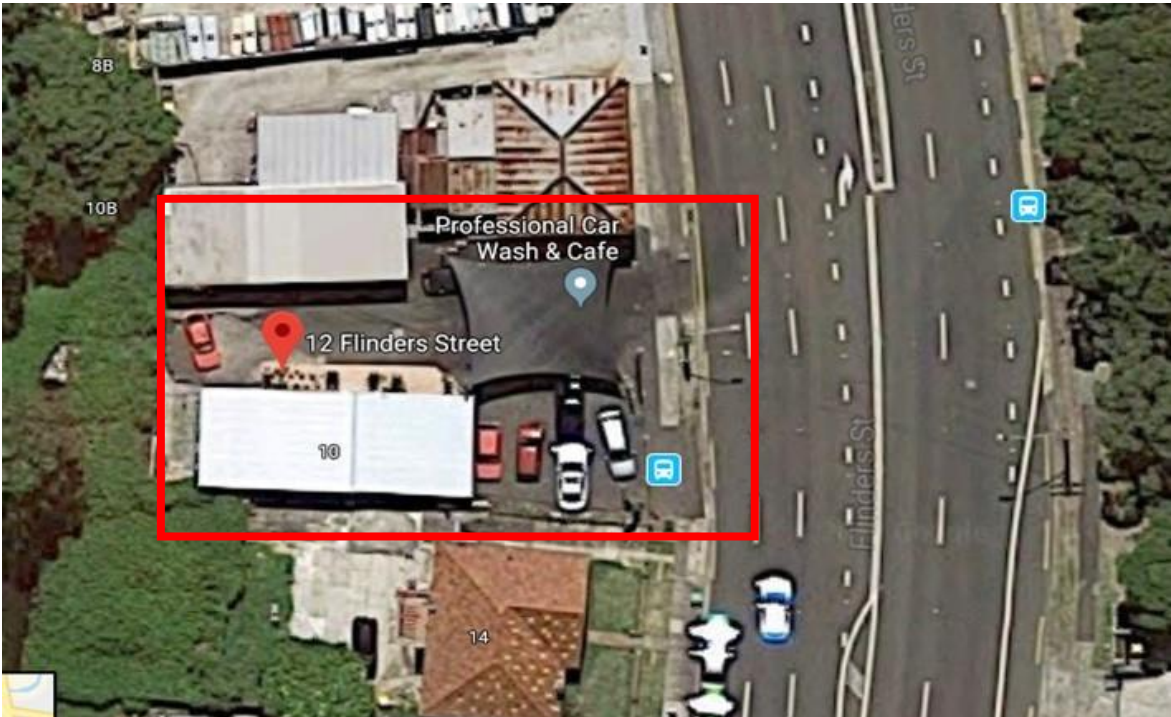
Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
7:30 AM	7:45 AM	320	8	257	4	
7:45 AM	8:00 AM	364	6	351	9	
						2736
						2921
9:00 AM	9:15 AM	326	5	334	4	2916
9:15 AM	9:30 AM	301	4	291	4	2774
9:30 AM	9:45 AM	288	4	235	6	2533
9:45 AM	10:00 AM	263	9	262	4	2340
10:00 AM	10:15 AM	223	8	262	8	2172
10:15 AM	10:30 AM	223	7	263	11	2076
10:30 AM	10:45 AM	278	5	218	7	2051
10:45 AM	11:00 AM	246	11	224	14	2008
11:00 AM	11:15 AM	234	10	238	5	1994
11:15 AM	11:30 AM	269	7	216	4	1986
11:30 AM	11:45 AM	274	9	245	8	2014
11:45 AM	12:00 PM	276	12	255	3	2065
12:00 PM	12:15 PM	263	12	272	5	2130
12:15 PM	12:30 PM	286	11	239	8	2178
12:30 PM	12:45 PM	255	10	277	10	2194
12:45 PM	1:00 PM	284	10	254	11	2207
1:00 PM	1:15 PM	294	5	218	5	2177
1:15 PM	1:30 PM	288	8	263	3	2195
1:30 PM	1:45 PM	296	10	238	3	2190
1:45 PM	2:00 PM	295	4	231	4	2165
2:00 PM	2:15 PM	294	5	250	5	2197
2:15 PM	2:30 PM	316	7	247	6	2211
2:30 PM	2:45 PM	399	11	283	7	2364
2:45 PM	3:00 PM	377	7	352	7	2573
3:00 PM	3:15 PM	381	20	324	10	2754
3:15 PM	3:30 PM	378	9	339	1	2905
						2977
						2989
						2984
4:30 PM	4:45 PM	394	5	320	5	2989
4:45 PM	5:00 PM	384	2	315	4	2939
AM Peak Period		1418	37	1441	26	2922
PM Peak Period		1648	16	1340	33	3037
Total		12135	294	10854	244	23527

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	229	4	167	2	
8:15 AM	8:30 AM	258	6	217	2	
8:30 AM	8:45 AM	304	8	272	4	
8:45 AM	9:00 AM	361	2	309	2	2147
9:00 AM	9:15 AM	292	3	301	2	2343
9:15 AM	9:30 AM	290	9	340	3	2502
9:30 AM	9:45 AM	308	9	300	4	2535
9:45 AM	10:00 AM	375	6	305	2	2549
10:00 AM	10:15 AM	381	4	331	4	2671
10:15 AM	10:30 AM	362	7	391	6	2795
10:30 AM	10:45 AM	396	4	341	1	2916
10:45 AM	11:00 AM	388	8	388	3	3015
11:00 AM	11:15 AM	390	5	307	2	2999
11:15 AM	11:30 AM	463	4	328	2	3030
11:30 AM	11:45 AM	419	4	331	1	3043
11:45 AM	12:00 PM	433	4	336	0	3029
12:00 PM	12:15 PM	387	5	409	4	3130
12:15 PM	12:30 PM	424	12	353	2	3124
12:30 PM	12:45 PM	428	6	329	4	3136
12:45 PM	1:00 PM	395	2	411	3	3174
1:00 PM	1:15 PM	409	3	345	3	3129
1:15 PM	1:30 PM	353	2	302	2	2997
1:30 PM	1:45 PM	356	5	360	2	2953
1:45 PM	2:00 PM	352	1	321	0	2816
2:00 PM	2:15 PM	349	9	261	5	2680
2:15 PM	2:30 PM	335	5	300	1	2662
2:30 PM	2:45 PM	310	0	312	0	2561
2:45 PM	3:00 PM	352	2	339	1	2581
3:00 PM	3:15 PM	337	4	274	10	2582
3:15 PM	3:30 PM	333	2	280	6	2562
3:30 PM	3:45 PM	269	1	284	6	2500
3:45 PM	4:00 PM	311	3	284	5	2409
4:00 PM	4:15 PM	283	3	277	3	2350
4:15 PM	4:30 PM	295	0	305	0	2329
4:30 PM	4:45 PM	286	1	274	0	2330
4:45 PM	5:00 PM	294	2	318	0	2341
AM Peak Period		1660	21	1354	8	3043
PM Peak Period		1634	25	1502	13	3174
Total		12507	155	11302	97	24061

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	98	1	102	1	
8:15 AM	8:30 AM	136	1	130	0	
8:30 AM	8:45 AM	137	2	179	0	
8:45 AM	9:00 AM	190	1	167	0	1145
9:00 AM	9:15 AM	234	0	209	0	1386
9:15 AM	9:30 AM	277	0	259	0	1655
9:30 AM	9:45 AM	273	1	228	1	1840
9:45 AM	10:00 AM	256	3	262	1	2004
10:00 AM	10:15 AM	282	2	251	1	2097
10:15 AM	10:30 AM	332	2	258	1	2154
10:30 AM	10:45 AM	315	3	293	0	2262
10:45 AM	11:00 AM	347	0	293	3	2383
11:00 AM	11:15 AM	317	5	331	0	2500
11:15 AM	11:30 AM	316	3	280	0	2506
11:30 AM	11:45 AM	307	3	381	0	2586
11:45 AM	12:00 PM	336	1	397	3	2680
12:00 PM	12:15 PM	324	8	324	1	2684
12:15 PM	12:30 PM	358	3	309	0	2755
12:30 PM	12:45 PM	339	1	356	0	2760
12:45 PM	1:00 PM	336	4	309	0	2672
1:00 PM	1:15 PM	295	0	304	0	2614
1:15 PM	1:30 PM	333	1	335	0	2613
1:30 PM	1:45 PM	338	1	306	0	2562
1:45 PM	2:00 PM	297	1	279	4	2494
2:00 PM	2:15 PM	315	2	279	0	2491
2:15 PM	2:30 PM	321	0	277	2	2422
2:30 PM	2:45 PM	285	5	267	1	2335
2:45 PM	3:00 PM	267	1	319	0	2341
3:00 PM	3:15 PM	298	2	279	1	2325
3:15 PM	3:30 PM	373	2	245	3	2348
3:30 PM	3:45 PM	306	3	287	1	2387
3:45 PM	4:00 PM	353	2	279	3	2437
4:00 PM	4:15 PM	274	1	280	1	2413
4:15 PM	4:30 PM	279	1	258	1	2329
4:30 PM	4:45 PM	250	0	296	0	2278
4:45 PM	5:00 PM	291	3	252	1	2188
AM Peak Period		1276	12	1389	3	2680
PM Peak Period		1357	16	1298	1	2672
Total		10385	69	9860	30	20344

Car Wash Cafe Site Information	
Site Location	Professional Car Wash
Building Area m ²	
Year Opened	
Opening Times	8:00am-5:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-5:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



y 14th June 2019						Saturday 15th June 2019						Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles	15 minute		Cars In	Cars Out	Peds	Bicycles	15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End					Start	End					Start	End				
8:00	8:15	0	0	0	1	8:00	8:15	3	0	0	0	8:00	8:15	6	0	0	0
8:15	8:30	1	0	0	0	8:15	8:30	1	0	0	0	8:15	8:30	1	1	0	0
8:30	8:45	2	1	0	0	8:30	8:45	2	0	0	0	8:30	8:45	0	3	0	0
8:45	9:00	0	1	0	0	8:45	9:00	1	2	1	0	8:45	9:00	0	2	0	0
9:00	9:15	2	0	0	1	9:00	9:15	1	1	2	0	9:00	9:15	2	1	0	0
9:15	9:30	0	0	0	0	9:15	9:30	3	1	0	0	9:15	9:30	2	1	0	0
9:30	9:45	2	1	0	0	9:30	9:45	2	0	0	0	9:30	9:45	1	1	0	0
9:45	10:00	1	0	1	0	9:45	10:00	1	1	0	0	9:45	10:00	2	1	0	0
10:00	10:15	1	2	0	0	10:00	10:15	3	2	1	0	10:00	10:15	5	2	0	0
10:15	10:30	0	2	0	0	10:15	10:30	0	2	2	0	10:15	10:30	1	1	0	0
10:30	10:45	1	0	1	0	10:30	10:45	2	1	0	0	10:30	10:45	4	2	0	0
10:45	11:00	2	0	0	0	10:45	11:00	2	0	2	0	10:45	11:00	3	2	0	0
11:00	11:15	1	1	0	0	11:00	11:15	1	5	0	0	11:00	11:15	2	1	0	0
11:15	11:30	1	0	0	0	11:15	11:30	4	1	1	0	11:15	11:30	3	1	0	0
11:30	11:45	0	2	0	0	11:30	11:45	3	2	2	0	11:30	11:45	1	1	0	0
11:45	12:00	1	2	0	0	11:45	12:00	0	1	1	0	11:45	12:00	1	3	0	0
12:00	12:15	3	1	0	0	12:00	12:15	3	3	0	0	12:00	12:15	1	2	0	0
12:15	12:30	1	1	0	0	12:15	12:30	0	1	0	0	12:15	12:30	0	3	0	0
12:30	12:45	2	1	0	0	12:30	12:45	0	1	0	0	12:30	12:45	2	1	0	0
12:45	13:00	1	0	0	0	12:45	13:00	2	1	0	0	12:45	13:00	2	3	0	0
13:00	13:15	3	2	1	0	13:00	13:15	1	1	0	0	13:00	13:15	1	1	0	0
13:15	13:30	3	2	0	0	13:15	13:30	2	2	0	0	13:15	13:30	2	3	0	0
13:30	13:45	2	3	0	0	13:30	13:45	0	1	0	0	13:30	13:45	3	2	0	0
13:45	14:00	6	3	0	0	13:45	14:00	1	2	3	0	13:45	14:00	0	1	0	0
14:00	14:15	2	3	1	0	14:00	14:15	4	1	1	0	14:00	14:15	0	2	0	0
14:15	14:30	3	0	0	0	14:15	14:30	0	2	3	0	14:15	14:30	2	3	0	0
14:30	14:45	1	3	0	0	14:30	14:45	2	0	0	0	14:30	14:45	3	3	0	0
14:45	15:00	1	2	0	0	14:45	15:00	1	3	2	0	14:45	15:00	1	2	0	0
15:00	15:15	2	2	0	0	15:00	15:15	1	3	1	0	15:00	15:15	3	1	0	0
15:15	15:30	1	2	0	0	15:15	15:30	3	2	2	0	15:15	15:30	2	2	0	0
15:30	15:45	0	1	0	0	15:30	15:45	0	1	0	0	15:30	15:45	2	2	0	0
15:45	16:00	1	2	0	0	15:45	16:00	0	1	0	0	15:45	16:00	0	3	0	0
16:00	16:15	2	1	1	0	16:00	16:15	0	2	1	0	16:00	16:15	0	0	0	0
16:15	16:30	0	3	1	0	16:15	16:30	0	0	0	0	16:15	16:30	0	1	0	0
16:30	16:45	0	1	1	0	16:30	16:45	0	1	0	0	16:30	16:45	0	2	0	0
16:45	17:00	0	5	0	0	16:45	17:00	0	1	0	0	16:45	17:00	0	2	0	0
Total		49	50	7	2	Total		49	48	25	0	Total		58	62	0	0

Site Location	Professional Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8am-5pm
Main Traffic Flow	Flinders Street (Princes H'way)
AM Peak Period	8:15am - 9:15am
PM Peak Period	3:30pm - 4:30pm

Friday 14th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
9:00 AM	9:15 AM	258	9	148	8	2047
9:15 AM	9:30 AM	217	11	199	12	1933
9:30 AM	9:45 AM	236	11	212	15	1861
9:45 AM	10:00 AM	258	9	177	4	1784
10:00 AM	10:15 AM	228	11	169	9	1778
10:15 AM	10:30 AM	222	8	200	8	1777
10:30 AM	10:45 AM	219	17	205	9	1753
10:45 AM	11:00 AM	216	9	196	10	1736
11:00 AM	11:15 AM	205	9	205	9	1747
11:15 AM	11:30 AM	241	10	227	15	1802
11:30 AM	11:45 AM	246	9	202	10	1819
11:45 AM	12:00 PM	246	8	235	12	1889
12:00 PM	12:15 PM	225	8	261	9	1964
12:15 PM	12:30 PM	221	10	261	8	1971
12:30 PM	12:45 PM	240	9	252	10	2015
12:45 PM	1:00 PM	214	9	236	9	1982
1:00 PM	1:15 PM	220	7	240	8	1954
1:15 PM	1:30 PM	221	13	249	3	1940
1:30 PM	1:45 PM	195	9	251	7	1891
1:45 PM	2:00 PM	224	8	234	6	1895
2:00 PM	2:15 PM	201	10	271	14	1916
2:15 PM	2:30 PM	196	12	285	8	1931
2:30 PM	2:45 PM	185	8	317	15	1994
2:45 PM	3:00 PM	201	8	308	10	2049
3:00 PM	3:15 PM	209	6	279	8	2055
3:15 PM						2155
3:30 PM						2158
3:45 PM						2214
4:00 PM						
4:15 PM	4:30 PM	228	7	277	6	2178
4:30 PM	4:45 PM	205	4	355	3	2217
4:45 PM	5:00 PM	219	4	341	6	2204
AM Peak Period		1309	58	712	44	2123
PM Peak Period		978	22	1232	29	2261
Total		8483	333	8736	324	17876



AM Peak Period	10:45am - 11:45am
PM Peak Period	12:30pm - 1:30pm

Saturday 15th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	100	1	107	4	
8:15 AM	8:30 AM	144	3	93	5	
8:30 AM	8:45 AM	163	6	146	7	
8:45 AM	9:00 AM	172	4	134	3	1092
9:00 AM	9:15 AM	191	5	130	3	1209
9:15 AM	9:30 AM	244	3	160	2	1373
9:30 AM	9:45 AM	213	6	151	8	1429
9:45 AM	10:00 AM	200	2	199	2	1519
10:00 AM	10:15 AM	204	1	193	12	1600
10:15 AM	10:30 AM	238	5	221	4	1659
10:30 AM	10:45 AM	257	5	203	3	1749
10:45 AM	11:00 AM	261	2	244	5	1858
11:00 AM	11:15 AM	259	4	253	8	1972
11:15 AM	11:30 AM	246	3	253	3	2009
11:30 AM	11:45 AM	232	3	246	5	2027
11:45 AM	12:00 PM	240	4	260	7	2026
12:00 PM	12:15 PM	271	5	260	5	2043
12:15 PM	12:30 PM	253	2	251	4	2048
12:30 PM	12:45 PM	267	3	286	2	2120
12:45 PM	1:00 PM	266	3	282	5	2165
1:00 PM	1:15 PM	258	3	309	3	2197
1:15 PM	1:30 PM	204	3	316	5	2215
1:30 PM	1:45 PM	219	2	254	2	2134
1:45 PM	2:00 PM	209	4	253	2	2046
2:00 PM	2:15 PM	194	0	263	6	1936
2:15 PM	2:30 PM	227	3	262	3	1903
2:30 PM	2:45 PM	215	2	253	7	1903
2:45 PM	3:00 PM	191	2	243	1	1872
3:00 PM	3:15 PM	175	3	247	5	1839
3:15 PM	3:30 PM	191	2	217	3	1757
3:30 PM	3:45 PM	168	2	260	4	1714
3:45 PM	4:00 PM	173	4	231	2	1687
4:00 PM	4:15 PM	151	2	263	4	1677
4:15 PM	4:30 PM	198	2	257	1	1722
4:30 PM	4:45 PM	192	1	236	3	1720
4:45 PM	5:00 PM	185	2	196	2	1695
AM Peak Period		998	12	996	21	2027
PM Peak Period		995	12	1193	15	2215
Total		7571	107	8132	150	15960

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:00pm - 1:00pm

Sunday 28th July 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	64	3	59	0	
8:15 AM	8:30 AM	53	1	75	3	
8:30 AM	8:45 AM	92	0	67	1	
8:45 AM	9:00 AM	96	1	78	1	594
9:00 AM	9:15 AM	102	3	107	1	681
9:15 AM	9:30 AM	138	2	108	2	799
9:30 AM	9:45 AM	175	0	112	2	928
9:45 AM	10:00 AM	207	2	121	3	1085
10:00 AM	10:15 AM	188	3	146	2	1211
10:15 AM	10:30 AM	214	2	157	1	1335
10:30 AM	10:45 AM	166	1	180	3	1396
10:45 AM	11:00 AM	221	1	174	3	1462
11:00 AM	11:15 AM	202	6	181	4	1516
11:15 AM	11:30 AM	206	1	194	4	1547
11:30 AM	11:45 AM	218	2	237	4	1658
11:45 AM	12:00 PM	246	0	240	0	1745
12:00 PM	12:15 PM	213	2	267	0	1834
12:15 PM	12:30 PM	211	1	259	1	1901
12:30 PM	12:45 PM	220	0	223	2	1885
12:45 PM	1:00 PM	227	1	223	0	1850
1:00 PM	1:15 PM	197	0	212	1	1778
1:15 PM	1:30 PM	231	3	220	1	1761
1:30 PM	1:45 PM	211	1	210	4	1742
1:45 PM	2:00 PM	215	1	217	1	1725
2:00 PM	2:15 PM	200	2	198	0	1715
2:15 PM	2:30 PM	201	1	215	0	1677
2:30 PM	2:45 PM	159	2	212	3	1627
2:45 PM	3:00 PM	178	4	222	1	1598
3:00 PM	3:15 PM	211	3	207	2	1621
3:15 PM	3:30 PM	175	2	215	2	1598
3:30 PM	3:45 PM	163	1	193	2	1581
3:45 PM	4:00 PM	140	3	217	2	1538
4:00 PM	4:15 PM	156	3	253	0	1527
4:15 PM	4:30 PM	166	0	188	2	1489
4:30 PM	4:45 PM	175	2	190	2	1499
4:45 PM	5:00 PM	96	2	139	0	1374
AM Peak Period		872	9	852	12	1745
PM Peak Period		871	4	972	3	1850
Total		6333	62	6516	60	12971

Car Wash Cafe Site Information	
Site Location	Gold Car Wash Café
Building Area m ²	1000
Year Opened	Unknown
Opening Times	6:00am - 7:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	Manual
Number of Employees per shift	Unknown
Surrounding Land Use	Power Golf
Proximity to Public Transport	Yes
Survey Date	14th-16th June 2019
Survey Period	6:00am - 7:00pm
Number of Pedestrian Access Points	Unknown
Number of Vehicle Entry/Exit Points	Unknown
Number of On-Site Parking Bays (Including bicycle parking)	2
Number of Loading bays	Unknown
Number of Car Wash Bays	9
Number of Hybrid/Electric Bays	Unknown
Number of Disabled Bays	Unknown
Number of Bicycle Parking Bays	Unknown
Number of Staff Parking Bays	Unknown
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
6:00	6:15	4	3	0	0
6:15	6:30	3	2	0	0
6:30	6:45	1	3	0	0
6:45	7:00	2	2	0	0
7:00	7:15	2	3	0	0
7:15	7:30	1	1	0	0
7:30	7:45	5	2	0	0
7:45	8:00	1	0	0	0
8:00	8:15	3	2	0	0
8:15	8:30	2	1	0	0
8:30	8:45	2	3	0	0
8:45	9:00	6	3	0	0
9:00	9:15	1	1	0	0
9:15	9:30	3	1	0	0
9:30	9:45	3	0	0	0
9:45	10:00	0	1	0	0
10:00	10:15	1	3	0	0
10:15	10:30	5	3	0	0
10:30	10:45	2	3	0	0
10:45	11:00	3	4	0	0
11:00	11:15	4	2	0	0
11:15	11:30	2	3	1	1
11:30	11:45	4	2	1	0
11:45	12:00	4	5	1	0
12:00	12:15	0	1	1	0
12:15	12:30	5	3	1	0
12:30	12:45	6	6	0	0
12:45	13:00	2	3	0	0
13:00	13:15	4	3	0	0
13:15	13:30	1	3	0	0
13:30	13:45	3	5	0	0
13:45	14:00	3	5	0	0
14:00	14:15	2	3	0	0
14:15	14:30	2	2	0	0
14:30	14:45	7	4	0	0
14:45	15:00	2	3	0	1
15:00	15:15	2	4	0	0
15:15	15:30	5	6	0	0
15:30	15:45	1	3	0	0
15:45	16:00	3	1	0	0
16:00	16:15	4	2	0	0
16:15	16:30	6	4	0	0
16:30	16:45	2	4	0	0
16:45	17:00	1	3	0	0
17:00	17:15	2	3	0	0
17:15	17:30	5	5	0	0
17:30	17:45	2	1	0	0
17:45	18:00	0	4	0	0
18:00	18:15	1	2	0	0
18:15	18:30	0	4	0	0
18:30	18:45	3	1	0	0
18:45	19:00	3	3	0	0
Total		141	144	5	2

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
6:00	6:15	5	2	0	0
6:15	6:30	2	1	0	0
6:30	6:45	2	1	0	0
6:45	7:00	1	4	0	0
7:00	7:15	2	2	0	0
7:15	7:30	0	4	0	0
7:30	7:45	2	1	0	0
7:45	8:00	2	2	0	0
8:00	8:15	4	2	0	0
8:15	8:30	2	3	0	0
8:30	8:45	7	2	0	0
8:45	9:00	5	2	0	0
9:00	9:15	1	2	0	0
9:15	9:30	2	2	0	0
9:30	9:45	0	2	2	0
9:45	10:00	2	5	0	0
10:00	10:15	4	2	0	0
10:15	10:30	3	1	0	0
10:30	10:45	7	3	0	0
10:45	11:00	4	3	0	0
11:00	11:15	0	2	0	0
11:15	11:30	6	5	0	0
11:30	11:45	2	1	0	0
11:45	12:00	5	2	0	0
12:00	12:15	3	2	0	0
12:15	12:30	2	6	0	0
12:30	12:45	5	5	0	0
12:45	13:00	7	5	0	0
13:00	13:15	3	6	0	0
13:15	13:30	3	4	0	0
13:30	13:45	0	4	0	0
13:45	14:00	5	3	0	0
14:00	14:15	3	2	0	0
14:15	14:30	4	3	0	0
14:30	14:45	1	4	0	0
14:45	15:00	5	4	0	0
15:00	15:15	4	3	0	0
15:15	15:30	4	4	0	0
15:30	15:45	3	3	0	0
15:45	16:00	4	2	0	0
16:00	16:15	1	4	0	0
16:15	16:30	4	3	2	0
16:30	16:45	2	6	0	0
16:45	17:00	2	3	0	0
17:00	17:15	2	5	0	0
17:15	17:30	0	0	0	0
17:30	17:45	2	2	0	0
17:45	18:00	1	1	0	0
18:00	18:15	5	5	0	0
18:15	18:30	2	1	0	0
18:30	18:45	1	1	0	0
18:45	19:00	1	2	0	0
Total		149	149	4	0

Sunday 16th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
6:00	6:15	1	1	0	0
6:15	6:30	3	3	0	0
6:30	6:45	0	1	0	0
6:45	7:00	1	0	0	0
7:00	7:15	1	3	0	0
7:15	7:30	1	1	0	0
7:30	7:45	1	1	0	0
7:45	8:00	1	0	0	0
8:00	8:15	0	0	0	0
8:15	8:30	0	0	1	0
8:30	8:45	0	1	0	0
8:45	9:00	0	0	0	0
9:00	9:15	3	1	1	0
9:15	9:30	4	3	0	0
9:30	9:45	4	0	0	0
9:45	10:00	0	1	0	0
10:00	10:15	1	3	0	0
10:15	10:30	2	1	1	0
10:30	10:45	1	1	0	0
10:45	11:00	2	2	1	0
11:00	11:15	0	0	0	0
11:15	11:30	0	0	0	0
11:30	11:45	1	1	0	0
11:45	12:00	2	2	0	0
12:00	12:15	1	0	0	0
12:15	12:30	2	0	0	0
12:30	12:45	1	4	0	0
12:45	13:00	3	4	0	0
13:00	13:15	0	0	0	0
13:15	13:30	1	0	1	0
13:30	13:45	0	2	0	0
13:45	14:00	2	0	0	0
14:00	14:15	1	0	0	0
14:15	14:30	1	1	0	0
14:30	14:45	5	2	0	0
14:45	15:00	0	1	0	0
15:00	15:15	2	3	0	0
15:15	15:30	3	1	0	0
15:30	15:45	3	3	0	0
15:45	16:00	2	4	0	0
16:00	16:15	2	1	0	0
16:15	16:30	1	3	0	0
16:30	16:45	3	2	0	0
16:45	17:00	1	2	0	0
17:00	17:15	3	3	0	0
17:15	17:30	3	5	0	0
17:30	17:45	3	1	1	0
17:45	18:00	1	3	0	0
18:00	18:15	2	1	0	1
18:15	18:30	0	1	0	0
18:30	18:45	0	1	0	0
18:45	19:00	1	1	0	0
Total		76	75	6	1

Site Location	Gold Car Wash Café
Survey Date	14th-16th June 2019
Survey Period	6am-7pm
Main Traffic Flow	O'Riordan Street
AM Peak Period	8:15am - 9:15am
PM Peak Period	3:00pm - 4:00pm

Friday 14th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
6:00 AM	6:15 AM	121	10	177	6	
6:15 AM	6:30 AM	157	12	167	10	
6:30 AM	6:45 AM	166	9	207	13	
6:45 AM	7:00 AM	158	5	195	16	1429
7:00 AM	7:15 AM	212	11	231	7	1576
7:15 AM	7:30 AM	256	5	216	14	1721
7:30 AM	7:45 AM	250	11	202	14	1803
7:45 AM	8:00 AM	231	11	239	11	1921
8:00 AM	8:15 AM	287	10	212	9	1978
						2064
						2131
						2171
9:15 AM	9:30 AM	246	12	220	18	2093
9:30 AM	9:45 AM	235	14	229	18	2045
9:45 AM	10:00 AM	223	14	201	9	1960
10:00 AM	10:15 AM	219	16	207	19	1900
10:15 AM	10:30 AM	213	23	199	20	1859
10:30 AM	10:45 AM	196	19	181	7	1766
10:45 AM	11:00 AM	207	19	218	16	1779
11:00 AM	11:15 AM	207	17	194	11	1747
11:15 AM	11:30 AM	203	13	201	20	1729
11:30 AM	11:45 AM	182	12	199	16	1735
11:45 AM	12:00 PM	204	21	237	18	1755
12:00 PM	12:15 PM	197	15	217	16	1771
12:15 PM	12:30 PM	238	6	256	24	1858
12:30 PM	12:45 PM	190	10	216	15	1880
12:45 PM	1:00 PM	233	21	231	13	1898
1:00 PM	1:15 PM	212	15	233	12	1925
1:15 PM	1:30 PM	212	7	242	14	1876
1:30 PM	1:45 PM	187	12	198	17	1859
1:45 PM	2:00 PM	226	8	204	11	1810
2:00 PM	2:15 PM	218	9	226	14	1805
2:15 PM	2:30 PM	246	18	279	16	1889
2:30 PM	2:45 PM	246	13	240	7	1981
2:45 PM	3:00 PM	224	10	240	8	2014
						2136
						2113
						2178
4:00 PM	4:15 PM	242	9	291	13	2194
4:15 PM	4:30 PM	248	8	268	5	2187
4:30 PM	4:45 PM	251	3	270	7	2147
4:45 PM	5:00 PM	244	5	269	11	2144
5:00 PM	5:15 PM	230	9	284	5	2117
5:15 PM	5:30 PM	242	4	334	12	2180
5:30 PM	5:45 PM	220	3	323	8	2203
5:45 PM	6:00 PM	213	5	263	5	2160
6:00 PM	6:15 PM	225	11	237	9	2114
6:15 PM	6:30 PM	204	7	253	5	1991
6:30 PM	6:45 PM	202	7	274	3	1923
6:45 PM	7:00 PM	196	5	230	6	1874
AM Peak Period		1140	57	921	56	2174
PM Peak Period		1056	49	1088	35	2228
Total		11715	590	12219	619	25143



AM Peak Period	10:15am - 11:15am
PM Peak Period	1:45pm - 2:45pm

Saturday 15th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
6:00 AM	6:15 AM	100	3	107	2	
6:15 AM	6:30 AM	104	4	86	3	
6:30 AM	6:45 AM	105	2	117	7	
6:45 AM	7:00 AM	110	6	132	7	895
7:00 AM	7:15 AM	126	10	128	9	956
7:15 AM	7:30 AM	143	8	153	8	1071
7:30 AM	7:45 AM	153	5	164	4	1166
7:45 AM	8:00 AM	161	5	124	4	1205
8:00 AM	8:15 AM	184	7	166	8	1297
8:15 AM	8:30 AM	188	5	157	4	1339
8:30 AM	8:45 AM	154	6	203	2	1378
8:45 AM	9:00 AM	187	6	204	5	1486
9:00 AM	9:15 AM	164	17	212	10	1524
9:15 AM	9:30 AM	168	10	205	11	1564
9:30 AM	9:45 AM	162	6	184	7	1558
9:45 AM	10:00 AM	185	6	204	8	1559
10:00 AM	10:15 AM	218	4	187	5	1570
10:15 AM	10:30 AM	228	10	221	8	1643
10:30 AM	10:45 AM	237	9	212	6	1748
10:45 AM	11:00 AM	251	1	267	6	1870
11:00 AM	11:15 AM	211	2	203	7	1879
11:15 AM	11:30 AM	220	6	201	9	1848
11:30 AM	11:45 AM	210	4	253	11	1862
11:45 AM	12:00 PM	214	8	233	15	1807
12:00 PM	12:15 PM	223	4	224	10	1845
12:15 PM	12:30 PM	222	1	239	4	1875
12:30 PM	12:45 PM	248	8	264	3	1920
12:45 PM	1:00 PM	249	3	269	5	1976
1:00 PM	1:15 PM	254	6	213	6	1994
1:15 PM	1:30 PM	218	0	248	7	2001
1:30 PM	1:45 PM	222	1	238	5	1944
1:45 PM	2:00 PM	251	4	277	3	1953
2:00 PM	2:15 PM	236	7	273	4	1994
2:15 PM	2:30 PM	244	4	225	5	1999
2:30 PM	2:45 PM	258	4	241	3	2039
2:45 PM	3:00 PM	233	7	239	3	1986
3:00 PM	3:15 PM	193	4	267	5	1935
3:15 PM	3:30 PM	242	4	239	10	1952
3:30 PM	3:45 PM	193	4	229	5	1877
3:45 PM	4:00 PM	217	4	213	3	1832
4:00 PM	4:15 PM	226	1	226	5	1821
4:15 PM	4:30 PM	202	4	246	6	1784
4:30 PM	4:45 PM	176	10	221	0	1760
4:45 PM	5:00 PM	169	1	219	3	1715
5:00 PM	5:15 PM	157	4	237	10	1665
5:15 PM	5:30 PM	146	0	229	3	1585
5:30 PM	5:45 PM	164	4	203	0	1549
5:45 PM	6:00 PM	141	1	227	5	1531
6:00 PM	6:15 PM	148	4	219	1	1495
6:15 PM	6:30 PM	104	5	233	3	1462
6:30 PM	6:45 PM	142	4	244	3	1484
6:45 PM	7:00 PM	121	4	202	2	1439
AM Peak Period		927	22	903	27	1879
PM Peak Period		989	19	1016	15	2039
Total		9782	257	10927	288	21254

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:45pm - 1:45pm

Sunday 16th June 2019						
15 min Period		Southbound		Northbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
6:00 AM	6:15 AM	60	3	66	0	
6:15 AM	6:30 AM	53	2	53	4	
6:30 AM	6:45 AM	73	2	89	3	
6:45 AM	7:00 AM	67	3	94	2	574
7:00 AM	7:15 AM	98	2	99	2	646
7:15 AM	7:30 AM	98	4	95	3	734
7:30 AM	7:45 AM	78	5	137	6	793
7:45 AM	8:00 AM	99	2	113	2	843
8:00 AM	8:15 AM	123	2	125	2	894
8:15 AM	8:30 AM	94	2	141	4	935
8:30 AM	8:45 AM	105	6	146	6	972
8:45 AM	9:00 AM	125	4	152	5	1042
9:00 AM	9:15 AM	123	4	141	5	1063
9:15 AM	9:30 AM	146	9	162	9	1148
9:30 AM	9:45 AM	149	8	162	1	1205
9:45 AM	10:00 AM	203	4	175	2	1303
10:00 AM	10:15 AM	164	5	177	10	1386
10:15 AM	10:30 AM	192	3	175	0	1430
10:30 AM	10:45 AM	190	1	163	2	1466
10:45 AM	11:00 AM	180	2	168	3	1435
11:00 AM	11:15 AM	168	0	247	3	1497
11:15 AM	11:30 AM	192	4	248	4	1575
11:30 AM	11:45 AM	185	4	218	4	1630
11:45 AM	12:00 PM	209	1	294	3	1784
12:00 PM	12:15 PM	173	1	260	12	1812
12:15 PM	12:30 PM	215	4	234	4	1821
12:30 PM	12:45 PM	204	4	237	3	1858
12:45 PM	1:00 PM	243	4	261	8	1867
1:00 PM	1:15 PM	231	1	283	5	1941
1:15 PM	1:30 PM	211	0	270	8	1973
1:30 PM	1:45 PM	210	2	246	3	1986
1:45 PM	2:00 PM	214	2	273	4	1963
2:00 PM	2:15 PM	207	3	249	3	1905
2:15 PM	2:30 PM	207	1	256	4	1884
2:30 PM	2:45 PM	208	2	233	5	1871
2:45 PM	3:00 PM	213	4	238	7	1840
3:00 PM	3:15 PM	199	3	237	5	1822
3:15 PM	3:30 PM	205	1	233	4	1797
3:30 PM	3:45 PM	194	3	219	2	1767
3:45 PM	4:00 PM	244	2	251	6	1808
4:00 PM	4:15 PM	206	4	229	4	1807
4:15 PM	4:30 PM	210	4	245	3	1826
4:30 PM	4:45 PM	163	2	268	2	1843
4:45 PM	5:00 PM	176	1	248	5	1770
5:00 PM	5:15 PM	223	7	238	7	1802
5:15 PM	5:30 PM	179	3	206	4	1732
5:30 PM	5:45 PM	165	2	192	0	1656
5:45 PM	6:00 PM	188	4	192	3	1613
6:00 PM	6:15 PM	171	6	181	4	1500
6:15 PM	6:30 PM	142	6	189	2	1447
6:30 PM	6:45 PM	142	1	178	8	1417
6:45 PM	7:00 PM	161	7	178	4	1380
AM Peak Period		754	9	1007	14	1784
PM Peak Period		895	7	1060	24	1986
Total		8678	166	10164	214	19222

Car Wash Cafe Site Information	
Site Location	Zoom Car Wash Café
Building Area m ²	
Year Opened	
Opening Times	8:00am-6:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-6:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	1	1	0
8:15	8:30	0	0	0	0
8:30	8:45	0	0	0	0
8:45	9:00	0	0	1	0
9:00	9:15	2	0	0	0
9:15	9:30	1	1	0	0
9:30	9:45	3	3	0	0
9:45	10:00	5	1	0	0
10:00	10:15	1	1	1	0
10:15	10:30	1	1	0	0
10:30	10:45	2	3	0	0
10:45	11:00	3	1	0	0
11:00	11:15	6	2	0	0
11:15	11:30	4	3	0	0
11:30	11:45	1	3	0	0
11:45	12:00	1	0	0	0
12:00	12:15	1	3	0	0
12:15	12:30	2	4	1	0
12:30	12:45	0	1	1	0
12:45	13:00	2	2	0	0
13:00	13:15	5	2	0	0
13:15	13:30	3	4	0	0
13:30	13:45	1	2	0	0
13:45	14:00	2	1	1	0
14:00	14:15	1	3	0	0
14:15	14:30	3	3	0	0
14:30	14:45	1	1	1	0
14:45	15:00	2	2	0	0
15:00	15:15	1	2	0	0
15:15	15:30	1	1	0	0
15:30	15:45	0	1	0	0
15:45	16:00	2	2	0	0
16:00	16:15	0	1	0	0
16:15	16:30	2	2	0	0
16:30	16:45	0	1	0	0
16:45	17:00	0	1	0	0
17:00	17:15	0	1	0	0
17:15	17:30	0	0	0	0
17:30	17:45	0	0	0	0
17:45	18:00	0	0	0	0
Total		59	60	7	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	3	0	0	0
8:15	8:30	0	3	0	0
8:30	8:45	0	1	0	0
8:45	9:00	4	0	1	0
9:00	9:15	1	2	0	0
9:15	9:30	4	1	0	0
9:30	9:45	3	3	0	0
9:45	10:00	2	3	0	0
10:00	10:15	3	2	1	0
10:15	10:30	4	2	0	0
10:30	10:45	2	3	1	0
10:45	11:00	1	3	1	0
11:00	11:15	3	4	0	0
11:15	11:30	2	0	1	0
11:30	11:45	4	2	0	0
11:45	12:00	5	3	0	0
12:00	12:15	4	4	0	0
12:15	12:30	3	4	0	0
12:30	12:45	3	4	0	0
12:45	13:00	5	5	0	0
13:00	13:15	3	3	0	0
13:15	13:30	1	3	0	0
13:30	13:45	1	3	0	0
13:45	14:00	10	1	0	0
14:00	14:15	5	2	0	0
14:15	14:30	7	4	0	0
14:30	14:45	2	4	1	0
14:45	15:00	1	3	0	0
15:00	15:15	4	1	0	0
15:15	15:30	1	7	0	0
15:30	15:45	5	4	0	0
15:45	16:00	4	1	0	0
16:00	16:15	0	5	2	0
16:15	16:30	1	2	0	0
16:30	16:45	1	5	0	0
16:45	17:00	1	3	0	0
17:00	17:15	0	0	0	0
17:15	17:30	0	2	0	0
17:30	17:45	0	1	0	0
17:45	18:00	0	0	0	0
Total		103	103	8	0

Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	3	1	0	0
8:15	8:30	5	1	0	0
8:30	8:45	4	1	0	0
8:45	9:00	3	1	0	0
9:00	9:15	3	5	0	0
9:15	9:30	4	4	0	0
9:30	9:45	1	3	0	0
9:45	10:00	0	2	0	0
10:00	10:15	0	1	0	0
10:15	10:30	4	5	0	0
10:30	10:45	2	2	0	0
10:45	11:00	3	3	0	0
11:00	11:15	5	3	0	0
11:15	11:30	6	3	1	0
11:30	11:45	3	3	0	0
11:45	12:00	4	2	0	0
12:00	12:15	2	3	0	0
12:15	12:30	3	1	0	0
12:30	12:45	3	3	0	0
12:45	13:00	6	4	2	0
13:00	13:15	2	3	2	0
13:15	13:30	4	3	0	0
13:30	13:45	0	3	0	0
13:45	14:00	3	4	0	0
14:00	14:15	3	3	0	0
14:15	14:30	0	3	1	0
14:30	14:45	3	2	0	0
14:45	15:00	9	3	0	0
15:00	15:15	5	4	1	0
15:15	15:30	0	2	0	0
15:30	15:45	4	5	0	0
15:45	16:00	1	3	0	0
16:00	16:15	1	4	1	0
16:15	16:30	1	4	0	0
16:30	16:45	1	2	0	0
16:45	17:00	0	3	0	0
17:00	17:15	0	0	0	0
17:15	17:30	0	2	0	0
17:30	17:45	0	0	0	0
17:45	18:00	0	0	0	0
Total		101	104	8	0

Site Location	Zoom Car Wash Café
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8am-6pm
Main Traffic Flow	Canterbury Road
AM Peak Period	9:30am - 10:30am
PM Peak Period	3:45pm - 4:45pm



AM Peak Period	10:30am - 11:30am
PM Peak Period	1:00pm - 2:00pm

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:45pm - 1:45pm

y 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	191	18	227	24	
8:15 AM	8:30 AM	226	12	218	33	
8:30 AM	8:45 AM	191	14	213	22	
8:45 AM	9:00 AM	205	16	246	20	1876
9:00 AM	9:15 AM	174	15	223	32	1860
9:15 AM	9:30 AM	219	20	217	34	1861
9:30 AM	9:45 AM	201	27	236	30	1915
9:45 AM	10:00 AM	216	36	210	35	1925
10:00 AM	10:15 AM	214	26	201	37	1959
10:15 AM	10:30 AM	212	27	180	23	1911
10:30 AM	10:45 AM	217	30	209	46	1919
10:45 AM	11:00 AM	234	21	197	32	1906
11:00 AM	11:15 AM	218	28	177	17	1868
11:15 AM	11:30 AM	216	27	233	26	1928
11:30 AM	11:45 AM	230	25	220	28	1929
11:45 AM	12:00 PM	227	26	227	18	1943
12:00 PM	12:15 PM	234	23	170	38	1968
12:15 PM	12:30 PM	226	33	216	28	1969
12:30 PM	12:45 PM	236	26	243	23	1994
12:45 PM	1:00 PM	203	25	219	26	1969
1:00 PM	1:15 PM	261	30	203	29	2027
1:15 PM	1:30 PM	261	25	215	21	2046
1:30 PM	1:45 PM	312	28	230	27	2115
1:45 PM	2:00 PM	258	33	218	30	2181
2:00 PM	2:15 PM	285	27	235	12	2217
2:15 PM	2:30 PM	259	21	220	19	2214
2:30 PM	2:45 PM	285	21	234	11	2168
2:45 PM	3:00 PM	265	19	259	9	2181
3:00 PM	3:15 PM	261	28	221	14	2146
3:15 PM	3:30 PM	269	27	228	23	2174
3:30 PM	3:45 PM	234	20	241	14	2132
3:45 PM	4:00 PM	308	20	264	12	2184
4:00 PM	4:15 PM	301	14	273	17	2265
4:15 PM	4:30 PM	263	23	267	7	2278
4:30 PM	4:45 PM	239	15	251	12	2286
4:45 PM	5:00 PM	282	15	258	9	2246
5:00 PM	5:15 PM	287	14	279	3	2224
5:15 PM	5:30 PM	295	16	248	6	2229
5:30 PM	5:45 PM	283	3	233	7	2238
5:45 PM	6:00 PM	270	8	246	6	2204
AM Peak Period		850	109	864	136	1959
PM Peak Period		1111	72	1055	48	2286
Total		9768	882	9105	860	20615

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	145	17	178	12	
8:15 AM	8:30 AM	185	9	199	9	
8:30 AM	8:45 AM	186	5	180	16	
8:45 AM	9:00 AM	174	10	213	10	1548
9:00 AM	9:15 AM	173	11	203	6	1589
9:15 AM	9:30 AM	213	13	206	9	1628
9:30 AM	9:45 AM	217	8	222	21	1709
9:45 AM	10:00 AM	217	11	235	9	1774
10:00 AM	10:15 AM	238	12	224	8	1863
10:15 AM	10:30 AM	252	10	203	12	1899
10:30 AM	10:45 AM	262	15	239	13	1960
10:45 AM	11:00 AM	257	8	260	7	2020
11:00 AM	11:15 AM	259	9	225	13	2044
11:15 AM	11:30 AM	255	12	259	5	2098
11:30 AM	11:45 AM	282	10	220	6	2087
11:45 AM	12:00 PM	265	8	257	5	2090
12:00 PM	12:15 PM	265	9	249	8	2115
12:15 PM	12:30 PM	273	9	251	10	2127
12:30 PM	12:45 PM	305	6	297	8	2225
12:45 PM	1:00 PM	304	7	247	5	2253
1:00 PM	1:15 PM	339	3	283	4	2351
1:15 PM	1:30 PM	314	5	308	4	2439
1:30 PM	1:45 PM	280	6	304	1	2414
1:45 PM	2:00 PM	311	12	299	2	2475
2:00 PM	2:15 PM	308	10	295	3	2462
2:15 PM	2:30 PM	289	10	273	6	2409
2:30 PM	2:45 PM	329	11	260	6	2424
2:45 PM	3:00 PM	337	7	245	5	2394
3:00 PM	3:15 PM	312	5	292	6	2393
3:15 PM	3:30 PM	315	9	280	7	2426
3:30 PM	3:45 PM	288	4	265	3	2380
3:45 PM	4:00 PM	283	4	309	6	2388
4:00 PM	4:15 PM	311	8	243	3	2338
4:15 PM	4:30 PM	291	5	273	2	2298
4:30 PM	4:45 PM	289	2	271	1	2301
4:45 PM	5:00 PM	299	5	261	3	2267
5:00 PM	5:15 PM	272	3	282	0	2259
5:15 PM	5:30 PM	288	3	259	6	2244
5:30 PM	5:45 PM	264	4	259	5	2213
5:45 PM	6:00 PM	225	4	249	2	2125
AM Peak Period		1033	44	983	38	2098
PM Peak Period		1244	26	1194	11	2475
Total		10671	319	10077	267	21334

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	91	0	81	5	
8:15 AM	8:30 AM	116	4	111	3	
8:30 AM	8:45 AM	148	4	139	4	
8:45 AM	9:00 AM	153	2	144	3	1008
9:00 AM	9:15 AM	176	2	147	1	1157
9:15 AM	9:30 AM	195	3	185	6	1312
9:30 AM	9:45 AM	188	5	202	2	1414
9:45 AM	10:00 AM	205	5	194	2	1518
10:00 AM	10:15 AM	216	3	198	5	1614
10:15 AM	10:30 AM	219	6	197	4	1651
10:30 AM	10:45 AM	251	5	195	2	1707
10:45 AM	11:00 AM	273	8	204	2	1788
11:00 AM	11:15 AM	270	3	195	6	1840
11:15 AM	11:30 AM	252	5	237	3	1911
11:30 AM	11:45 AM	294	3	278	2	2035
11:45 AM	12:00 PM	263	4	234	3	2052
12:00 PM	12:15 PM	261	1	295	6	2141
12:15 PM	12:30 PM	291	3	272	3	2213
12:30 PM	12:45 PM	277	4	266	1	2184
12:45 PM	1:00 PM	289	6	301	2	2278
1:00 PM	1:15 PM	317	3	281	2	2318
1:15 PM	1:30 PM	265	3	280	4	2301
1:30 PM	1:45 PM	283	5	289	3	2333
1:45 PM	2:00 PM	264	0	282	3	2284
2:00 PM	2:15 PM	295	2	257	2	2237
2:15 PM	2:30 PM	277	3	255	3	2223
2:30 PM	2:45 PM	244	3	324	8	2222
2:45 PM	3:00 PM	255	1	220	6	2155
3:00 PM	3:15 PM	266	2	277	3	2147
3:15 PM	3:30 PM	269	1	241	3	2123
3:30 PM	3:45 PM	281	2	271	2	2100
3:45 PM	4:00 PM	281	3	212	1	2115
4:00 PM	4:15 PM	292	3	297	2	2161
4:15 PM	4:30 PM	306	7	266	3	2229
4:30 PM	4:45 PM	267	4	256	1	2201
4:45 PM	5:00 PM	283	4	279	1	2271
5:00 PM	5:15 PM	262	5	249	4	2197
5:15 PM	5:30 PM	270	4	275	5	2169
5:30 PM	5:45 PM	258	8	261	4	2172
5:45 PM	6:00 PM	256	2	210	7	2080
AM Peak Period		1079	15	944	14	2052
PM Peak Period		1154	17	1151	11	2333
Total		9919	141	9357	132	19549

Car Wash Cafe Site Information	
Site Location	Elegance Car Wash
Building Area m ²	
Year Opened	
Opening Times	8:00am-4:00pm (closed Tuesdays)
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-4:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute Period		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	0	0	0
8:15	8:30	1	0	1	0
8:30	8:45	0	0	0	0
8:45	9:00	2	0	0	0
9:00	9:15	4	0	0	0
9:15	9:30	1	1	0	0
9:30	9:45	3	1	0	0
9:45	10:00	0	0	0	0
10:00	10:15	2	2	0	0
10:15	10:30	0	1	0	0
10:30	10:45	1	0	0	0
10:45	11:00	0	1	0	0
11:00	11:15	0	1	0	0
11:15	11:30	1	2	0	0
11:30	11:45	0	2	0	0
11:45	12:00	0	0	0	0
12:00	12:15	2	2	2	0
12:15	12:30	0	1	0	0
12:30	12:45	1	0	0	0
12:45	13:00	2	1	0	0
13:00	13:15	0	1	1	0
13:15	13:30	0	0	0	0
13:30	13:45	0	1	1	0
13:45	14:00	2	0	0	0
14:00	14:15	1	0	0	0
14:15	14:30	2	1	0	0
14:30	14:45	0	1	0	0
14:45	15:00	2	1	0	0
15:00	15:15	0	0	0	0
15:15	15:30	0	0	0	0
15:30	15:45	0	0	0	0
15:45	16:00	0	1	0	0
Total		27	21	5	0

Saturday 15th June 2019					
15 minute Period		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	5	0
8:15	8:30	2	0	0	0
8:30	8:45	2	0	0	0
8:45	9:00	2	0	0	0
9:00	9:15	2	2	0	0
9:15	9:30	0	1	0	0
9:30	9:45	0	1	0	0
9:45	10:00	1	1	0	0
10:00	10:15	1	1	1	0
10:15	10:30	3	0	0	0
10:30	10:45	0	2	0	0
10:45	11:00	0	1	0	0
11:00	11:15	1	0	0	0
11:15	11:30	3	2	0	0
11:30	11:45	0	3	0	0
11:45	12:00	1	1	0	0
12:00	12:15	0	1	2	0
12:15	12:30	1	2	2	0
12:30	12:45	1	1	0	0
12:45	13:00	1	1	0	0
13:00	13:15	0	0	1	0
13:15	13:30	0	0	0	0
13:30	13:45	0	0	0	0
13:45	14:00	1	3	0	0
14:00	14:15	1	0	0	0
14:15	14:30	1	1	1	0
14:30	14:45	0	0	0	0
14:45	15:00	1	3	0	0
15:00	15:15	0	0	0	0
15:15	15:30	1	1	0	0
15:30	15:45	1	1	0	0
15:45	16:00	1	1	0	0
Total		29	30	12	0

Sunday 28th July 2019					
15 minute Period		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	1	0
8:15	8:30	0	0	0	0
8:30	8:45	1	0	0	0
8:45	9:00	1	1	0	0
9:00	9:15	1	2	0	0
9:15	9:30	1	0	1	0
9:30	9:45	0	0	0	0
9:45	10:00	1	0	0	0
10:00	10:15	1	0	0	0
10:15	10:30	0	0	1	0
10:30	10:45	2	1	2	0
10:45	11:00	2	1	0	0
11:00	11:15	1	1	0	0
11:15	11:30	0	0	0	0
11:30	11:45	1	1	0	0
11:45	12:00	2	2	1	0
12:00	12:15	1	0	0	0
12:15	12:30	0	0	0	0
12:30	12:45	1	2	1	0
12:45	13:00	0	2	4	0
13:00	13:15	3	0	0	0
13:15	13:30	2	3	6	0
13:30	13:45	2	5	0	0
13:45	14:00	1	0	0	0
14:00	14:15	0	0	0	0
14:15	14:30	0	1	0	0
14:30	14:45	2	0	0	0
14:45	15:00	1	1	0	0
15:00	15:15	0	0	2	0
15:15	15:30	1	4	1	0
15:30	15:45	0	0	0	0
15:45	16:00	0	1	1	0
Total		29	28	21	0

Site Location	Elegance Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8am-4pm
Main Traffic Flow	Henry Street
AM Peak Period	8:15am - 9:15am
PM Peak Period	3:15pm - 4:15pm

y 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	72	3	78	2	
8:15 AM	8:30 AM	121	1	82	2	
8:30 AM	8:45 AM	93	2	88	3	
8:45 AM	9:00 AM	129	1	85	0	762
9:00 AM	9:15 AM	131	3	108	2	851
9:15 AM	9:30 AM	127	1	76	1	850
9:30 AM	9:45 AM	101	5	65	1	836
9:45 AM	10:00 AM	99	5	79	3	807
10:00 AM	10:15 AM	91	2	81	1	738
10:15 AM	10:30 AM	77	3	84	3	700
10:30 AM	10:45 AM	95	2	84	3	712
10:45 AM	11:00 AM	89	3	90	2	710
11:00 AM	11:15 AM	88	2	98	0	723
11:15 AM	11:30 AM	105	7	92	2	762
11:30 AM	11:45 AM	115	2	115	2	812
11:45 AM	12:00 PM	88	1	86	3	806
12:00 PM	12:15 PM	102	2	63	0	785
12:15 PM	12:30 PM	111	3	111	3	807
12:30 PM	12:45 PM	102	2	107	2	786
12:45 PM	1:00 PM	98	3	110	2	821
1:00 PM	1:15 PM	97	1	106	1	859
1:15 PM	1:30 PM	84	4	88	0	807
1:30 PM	1:45 PM	105	5	104	2	810
1:45 PM	2:00 PM	101	3	104	1	806
2:00 PM	2:15 PM	81	5	98	2	787
2:15 PM	2:30 PM	108	4	118	2	843
2:30 PM	2:45 PM	114	1	86	2	830
2:45 PM	3:00 PM	96	4	106	1	828
3:00 PM	3:15 PM	103	3	116	2	866
3:15 PM	3:30 PM	117	4	104	2	861
3:30 PM	3:45 PM	111	3	100	3	875
3:45 PM	4:00 PM	129	1	120	2	920
AM Peak Period		474	7	363	7	851
PM Peak Period		460	11	440	9	920
Total		3280	91	3032	57	6460



AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:30pm - 1:30pm

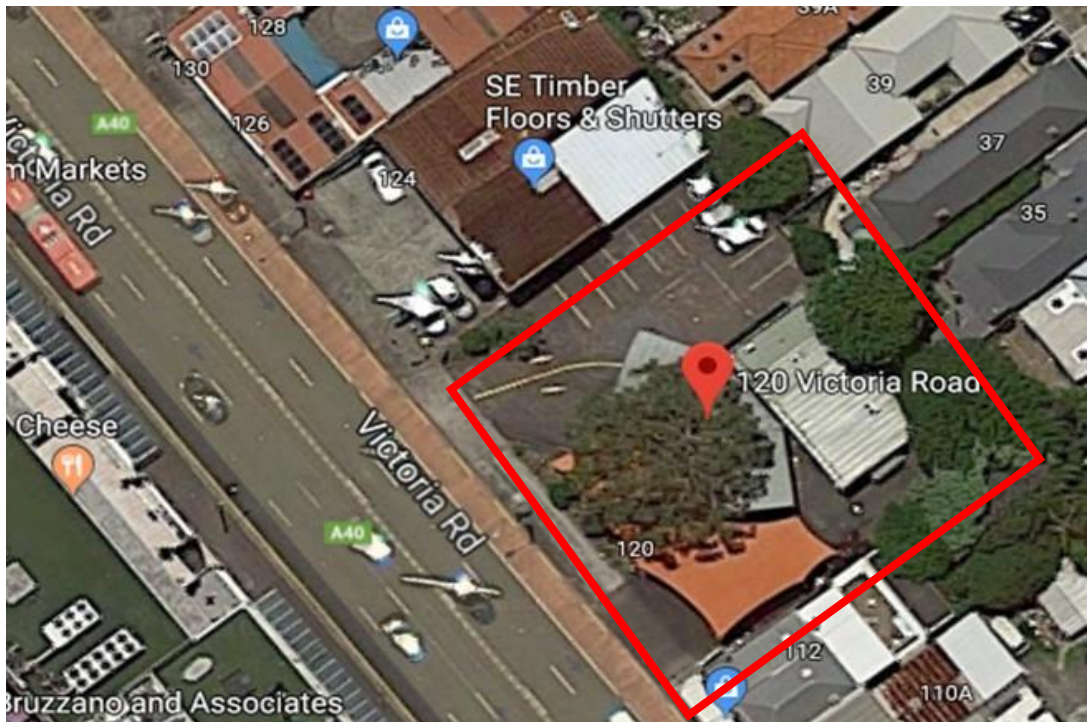
Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	44	4	27	2	
8:15 AM	8:30 AM	55	1	36	1	
8:30 AM	8:45 AM	67	1	36	1	
8:45 AM	9:00 AM	93	0	48	1	417
9:00 AM	9:15 AM	92	3	52	0	487
9:15 AM	9:30 AM	87	1	73	0	555
9:30 AM	9:45 AM	90	0	72	0	612
9:45 AM	10:00 AM	90	3	69	2	634
10:00 AM	10:15 AM	98	0	91	0	676
10:15 AM	10:30 AM	107	0	66	1	689
10:30 AM	10:45 AM	114	1	96	0	738
10:45 AM	11:00 AM	127	1	90	1	793
11:00 AM	11:15 AM	96	0	116	0	816
11:15 AM	11:30 AM	104	0	97	0	843
11:30 AM	11:45 AM	106	3	107	0	848
11:45 AM	12:00 PM	138	0	104	1	872
12:00 PM	12:15 PM	121	2	111	0	894
12:15 PM	12:30 PM	111	0	101	0	905
12:30 PM	12:45 PM	117	6	118	0	930
12:45 PM	1:00 PM	135	1	94	2	919
1:00 PM	1:15 PM	128	3	112	0	928
1:15 PM	1:30 PM	107	2	111	2	938
1:30 PM	1:45 PM	91	3	114	1	906
1:45 PM	2:00 PM	78	2	116	1	871
2:00 PM	2:15 PM	100	1	91	1	821
2:15 PM	2:30 PM	102	0	123	0	824
2:30 PM	2:45 PM	92	2	98	1	808
2:45 PM	3:00 PM	101	0	109	1	822
3:00 PM	3:15 PM	99	1	85	0	814
3:15 PM	3:30 PM	79	0	97	1	766
3:30 PM	3:45 PM	77	1	88	0	739
3:45 PM	4:00 PM	76	1	83	1	689
AM Peak Period		444	3	424	1	872
PM Peak Period		487	12	435	4	938
Total		3122	43	2831	21	6017

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:15pm - 1:15pm

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	23	3	12	0	
8:15 AM	8:30 AM	25	0	25	0	
8:30 AM	8:45 AM	24	0	25	1	
8:45 AM	9:00 AM	41	0	33	0	212
9:00 AM	9:15 AM	48	2	17	1	242
9:15 AM	9:30 AM	46	0	33	0	271
9:30 AM	9:45 AM	37	0	41	1	300
9:45 AM	10:00 AM	63	0	49	0	338
10:00 AM	10:15 AM	48	1	48	0	367
10:15 AM	10:30 AM	61	0	66	1	416
10:30 AM	10:45 AM	60	1	44	0	442
10:45 AM	11:00 AM	78	0	71	0	479
11:00 AM	11:15 AM	95	1	69	0	547
11:15 AM	11:30 AM	95	1	70	1	586
11:30 AM	11:45 AM	95	0	62	0	638
11:45 AM	12:00 PM	89	0	90	0	668
12:00 PM	12:15 PM	98	1	70	0	672
12:15 PM	12:30 PM	99	3	79	1	687
12:30 PM	12:45 PM	106	1	80	0	717
12:45 PM	1:00 PM	110	0	97	0	745
1:00 PM	1:15 PM	81	1	95	1	754
1:15 PM	1:30 PM	75	0	70	1	718
1:30 PM	1:45 PM	89	0	86	1	707
1:45 PM	2:00 PM	77	0	104	0	681
2:00 PM	2:15 PM	69	1	83	1	657
2:15 PM	2:30 PM	71	1	84	0	667
2:30 PM	2:45 PM	68	0	85	1	645
2:45 PM	3:00 PM	73	0	76	0	613
3:00 PM	3:15 PM	60	1	88	1	609
3:15 PM	3:30 PM	63	0	88	1	605
3:30 PM	3:45 PM	59	0	92	1	603
3:45 PM	4:00 PM	60	1	82	0	597
AM Peak Period		374	2	291	1	668
PM Peak Period		396	5	351	2	754
Total		2186	19	2114	14	4333

Car Wash Cafe Site Information	
Site Location	Rainbow Hand Car Wash & Café
Building Area m ²	
Year Opened	
Opening Times	8:00am-4:45pm (closed Tuesdays)
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8:00am-4:45pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	1	0
8:15	8:30	3	0	0	0
8:30	8:45	2	2	0	0
8:45	9:00	3	2	0	0
9:00	9:15	3	2	1	0
9:15	9:30	2	2	0	0
9:30	9:45	2	2	0	0
9:45	10:00	4	3	0	0
10:00	10:15	2	2	0	0
10:15	10:30	1	3	0	0
10:30	10:45	2	3	0	0
10:45	11:00	6	2	0	0
11:00	11:15	3	3	0	0
11:15	11:30	3	3	0	0
11:30	11:45	3	1	0	0
11:45	12:00	3	3	0	0
12:00	12:15	2	4	0	0
12:15	12:30	2	4	0	0
12:30	12:45	2	2	0	0
12:45	13:00	1	3	1	0
13:00	13:15	4	3	0	0
13:15	13:30	2	2	0	0
13:30	13:45	4	4	1	0
13:45	14:00	3	4	1	0
14:00	14:15	5	3	0	0
14:15	14:30	3	2	0	0
14:30	14:45	2	1	1	0
14:45	15:00	3	2	1	0
15:00	15:15	2	3	0	0
15:15	15:30	2	3	0	0
15:30	15:45	3	2	0	0
15:45	16:00	1	4	0	0
16:00	16:15	2	3	0	0
16:15	16:30	1	4	0	0
16:30	16:45	1	0	0	0
Total		88	86	7	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	1	0
8:15	8:30	4	1	0	0
8:30	8:45	0	1	4	0
8:45	9:00	2	1	0	0
9:00	9:15	3	2	0	0
9:15	9:30	2	2	0	0
9:30	9:45	5	2	0	0
9:45	10:00	1	1	0	0
10:00	10:15	1	2	4	0
10:15	10:30	3	3	0	0
10:30	10:45	9	1	2	0
10:45	11:00	4	1	0	0
11:00	11:15	3	2	0	0
11:15	11:30	5	1	0	0
11:30	11:45	3	4	0	0
11:45	12:00	2	4	3	0
12:00	12:15	2	3	1	0
12:15	12:30	3	2	0	0
12:30	12:45	5	3	0	0
12:45	13:00	3	4	0	0
13:00	13:15	6	1	0	0
13:15	13:30	1	7	0	0
13:30	13:45	1	2	0	0
13:45	14:00	2	3	0	0
14:00	14:15	3	2	2	0
14:15	14:30	4	4	0	0
14:30	14:45	3	3	1	0
14:45	15:00	4	5	0	0
15:00	15:15	0	2	0	0
15:15	15:30	0	3	0	0
15:30	15:45	4	3	1	0
15:45	16:00	1	3	0	0
16:00	16:15	2	2	1	0
16:15	16:30	4	4	0	0
16:30	16:45	0	3	0	0
Total		96	87	20	0

Sunday 28th July 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	4	0	1	0
8:15	8:30	3	1	0	0
8:30	8:45	1	3	1	0
8:45	9:00	3	2	1	0
9:00	9:15	2	2	0	0
9:15	9:30	5	1	0	0
9:30	9:45	5	1	0	0
9:45	10:00	1	5	0	0
10:00	10:15	2	2	0	0
10:15	10:30	2	5	3	0
10:30	10:45	2	6	0	0
10:45	11:00	5	0	0	0
11:00	11:15	2	3	3	0
11:15	11:30	4	5	0	0
11:30	11:45	1	2	2	0
11:45	12:00	1	5	0	0
12:00	12:15	2	1	0	0
12:15	12:30	6	3	0	0
12:30	12:45	1	3	3	0
12:45	13:00	4	3	0	0
13:00	13:15	2	5	1	0
13:15	13:30	2	2	0	0
13:30	13:45	4	1	1	0
13:45	14:00	2	3	4	0
14:00	14:15	6	4	4	0
14:15	14:30	3	4	1	0
14:30	14:45	2	4	2	0
14:45	15:00	5	2	0	0
15:00	15:15	2	3	0	0
15:15	15:30	4	4	1	0
15:30	15:45	3	4	1	0
15:45	16:00	2	2	0	0
16:00	16:15	4	5	5	0
16:15	16:30	3	2	0	0
16:30	16:45	0	3	0	0
Total		100	101	34	0

Site Location	Rainbow Hand Car Wash
Survey Date	14th, 15th June & 28th July 2019
Survey Period	8am-4:45pm
Main Traffic Flow	Victoria Road
AM Peak Period	8:00am - 9:00am
PM Peak Period	3:30pm - 4:30pm



AM Peak Period	11:00am - 12:00pm
PM Peak Period	1:45pm - 2:45pm

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:15pm - 1:15pm

Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
9:00 AM	9:15 AM	334	20	506	35	3940
9:15 AM	9:30 AM	301	34	645	33	3856
9:30 AM	9:45 AM	346	26	535	19	3832
9:45 AM	10:00 AM	372	30	595	30	3861
10:00 AM	10:15 AM	315	21	500	36	3838
10:15 AM	10:30 AM	359	30	496	34	3744
10:30 AM	10:45 AM	341	18	497	27	3701
10:45 AM	11:00 AM	348	28	523	29	3602
11:00 AM	11:15 AM	358	22	503	32	3645
11:15 AM	11:30 AM	391	28	504	19	3668
11:30 AM	11:45 AM	361	22	492	25	3685
11:45 AM	12:00 PM	377	27	490	19	3670
12:00 PM	12:15 PM	359	30	461	22	3627
12:15 PM	12:30 PM	408	18	468	31	3610
12:30 PM	12:45 PM	404	31	419	22	3586
12:45 PM	1:00 PM	402	18	468	22	3583
1:00 PM	1:15 PM	377	24	446	23	3581
1:15 PM	1:30 PM	410	17	458	19	3560
1:30 PM	1:45 PM	420	26	456	28	3614
1:45 PM	2:00 PM	439	25	411	15	3594
2:00 PM	2:15 PM	479	15	433	27	3678
2:15 PM	2:30 PM	536	18	449	37	3814
2:30 PM	2:45 PM	458	24	451	21	3838
2:45 PM	3:00 PM	514	23	473	26	3984
3:00 PM	3:15 PM	403	23	476	27	3959
3:15 PM	3:30 PM	411	15	497	21	3863
						4224
						4446
						4670
4:30 PM	4:45 PM	555	15	521	15	4742
AM Peak Period		1565	110	2276	112	4063
PM Peak Period		2491	98	2256	106	4951
Total		14834	836	17705	912	34287

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	245	12	447	19	
8:15 AM	8:30 AM	266	11	451	14	
8:30 AM	8:45 AM	291	12	533	10	
8:45 AM	9:00 AM	334	8	519	14	3186
9:00 AM	9:15 AM	312	8	520	23	3326
9:15 AM	9:30 AM	373	12	536	15	3520
9:30 AM	9:45 AM	416	13	505	14	3622
9:45 AM	10:00 AM	397	6	560	16	3726
10:00 AM	10:15 AM	383	11	534	12	3803
10:15 AM	10:30 AM	421	15	560	14	3877
10:30 AM	10:45 AM	408	10	516	9	3872
10:45 AM	11:00 AM	423	11	576	8	3911
11:00 AM	11:15 AM	431	12	542	17	3973
11:15 AM	11:30 AM	418	11	555	10	3957
11:30 AM	11:45 AM	503	14	571	12	4114
11:45 AM	12:00 PM	479	9	567	12	4163
12:00 PM	12:15 PM	487	11	573	12	4244
12:15 PM	12:30 PM	510	9	560	14	4343
12:30 PM	12:45 PM	550	12	590	12	4407
12:45 PM	1:00 PM	515	18	528	5	4406
1:00 PM	1:15 PM	542	16	561	23	4465
1:15 PM	1:30 PM	470	15	523	29	4409
1:30 PM	1:45 PM	527	17	603	11	4403
1:45 PM	2:00 PM	551	11	588	15	4502
2:00 PM	2:15 PM	559	10	567	10	4506
2:15 PM	2:30 PM	556	9	596	11	4641
2:30 PM	2:45 PM	564	10	591	11	4659
2:45 PM	3:00 PM	499	9	578	10	4590
3:00 PM	3:15 PM	499	9	501	11	4464
3:15 PM	3:30 PM	577	5	577	9	4460
3:30 PM	3:45 PM	504	11	538	10	4347
3:45 PM	4:00 PM	539	9	493	10	4302
4:00 PM	4:15 PM	544	12	575	12	4425
4:15 PM	4:30 PM	523	13	593	9	4395
4:30 PM	4:45 PM	543	6	552	7	4440
AM Peak Period		1831	46	2235	51	4163
PM Peak Period		2230	40	2342	47	4659
Total		16159	387	19179	450	36175

Sunday 28th July 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	145	2	280	10	
8:15 AM	8:30 AM	159	5	304	10	
8:30 AM	8:45 AM	211	4	372	10	
8:45 AM	9:00 AM	237	8	397	8	2162
9:00 AM	9:15 AM	204	8	406	12	2355
9:15 AM	9:30 AM	230	5	491	7	2610
9:30 AM	9:45 AM	301	4	536	11	2865
9:45 AM	10:00 AM	314	4	554	10	3097
10:00 AM	10:15 AM	306	10	530	10	3323
10:15 AM	10:30 AM	363	5	519	11	3488
10:30 AM	10:45 AM	360	8	527	7	3538
10:45 AM	11:00 AM	417	4	536	8	3621
11:00 AM	11:15 AM	396	9	565	8	3743
11:15 AM	11:30 AM	388	6	556	8	3803
11:30 AM	11:45 AM	438	5	539	6	3889
11:45 AM	12:00 PM	451	9	568	1	3953
12:00 PM	12:15 PM	467	7	573	7	4029
12:15 PM	12:30 PM	475	8	566	7	4127
12:30 PM	12:45 PM	460	5	594	5	4203
12:45 PM	1:00 PM	468	4	555	6	4207
1:00 PM	1:15 PM	443	7	597	8	4208
1:15 PM	1:30 PM	451	5	570	9	4187
1:30 PM	1:45 PM	426	6	547	10	4112
1:45 PM	2:00 PM	414	5	594	4	4096
2:00 PM	2:15 PM	460	5	554	5	4065
2:15 PM	2:30 PM	512	7	564	5	4118
2:30 PM	2:45 PM	438	5	558	8	4138
2:45 PM	3:00 PM	505	8	527	6	4167
3:00 PM	3:15 PM	493	8	496	15	4155
3:15 PM	3:30 PM	493	5	502	10	4077
3:30 PM	3:45 PM	545	5	473	15	4106
3:45 PM	4:00 PM	489	7	474	6	4036
4:00 PM	4:15 PM	516	8	427	6	3981
4:15 PM	4:30 PM	524	5	445	8	3953
4:30 PM	4:45 PM	526	9	472	7	3929
AM Peak Period		1673	29	2228	23	3953
PM Peak Period		1846	24	2312	26	4208
Total		14025	215	17768	284	32292

Car Wash Cafe Site Information	
Site Location	Sydney Car Wash Café
Building Area m ²	
Year Opened	
Opening Times	8:00am-6:00pm
Type of Car Wash (Auto/Manual/Self/Etc)	
Number of Employees per shift	
Surrounding Land Use	
Proximity to Public Transport	
Survey Date	14th - 16th June 2019
Survey Period	8:00am-6:00pm
Number of Pedestrian Access Points	
Number of Vehicle Entry/Exit Points	
Number of On-Site Parking Bays (Including bicycle parking)	
Number of Loading bays	
Number of Car Wash Bays	
Number of Hybrid/Electric Bays	
Number of Disabled Bays	
Number of Bicycle Parking Bays	
Number of Staff Parking Bays	
Traffic Surveyor Comments (eg. Local issues?, Roadworks?, Closed Areas?, Disability Access?, etc)	

Site Map



Friday 14th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	2	0	1	0
8:15	8:30	0	0	1	0
8:30	8:45	2	2	1	0
8:45	9:00	0	0	0	0
9:00	9:15	0	1	0	0
9:15	9:30	1	0	1	0
9:30	9:45	0	0	0	0
9:45	10:00	0	1	0	0
10:00	10:15	1	0	0	0
10:15	10:30	0	0	0	0
10:30	10:45	1	1	0	0
10:45	11:00	1	2	0	0
11:00	11:15	2	0	0	0
11:15	11:30	2	1	0	0
11:30	11:45	0	1	0	0
11:45	12:00	0	0	0	0
12:00	12:15	1	3	0	0
12:15	12:30	0	0	0	0
12:30	12:45	1	0	0	0
12:45	13:00	5	0	0	0
13:00	13:15	2	1	0	0
13:15	13:30	1	1	0	0
13:30	13:45	0	1	2	0
13:45	14:00	2	1	0	0
14:00	14:15	2	1	0	0
14:15	14:30	2	0	1	0
14:30	14:45	1	2	0	0
14:45	15:00	0	2	0	0
15:00	15:15	0	2	2	0
15:15	15:30	0	1	0	0
15:30	15:45	2	0	0	0
15:45	16:00	2	0	0	0
16:00	16:15	0	2	1	0
16:15	16:30	0	0	0	0
16:30	16:45	0	1	0	0
16:45	17:00	0	2	1	0
17:00	17:15	0	2	1	0
17:15	17:30	1	2	0	0
17:30	17:45	1	1	0	0
17:45	18:00	1	2	2	0
Total		36	36	14	0

Saturday 15th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	0	0	5	0
8:15	8:30	1	0	0	0
8:30	8:45	1	0	0	0
8:45	9:00	1	2	0	0
9:00	9:15	2	1	0	0
9:15	9:30	1	1	0	0
9:30	9:45	0	1	0	0
9:45	10:00	2	0	0	0
10:00	10:15	4	1	0	0
10:15	10:30	3	1	0	0
10:30	10:45	3	2	0	0
10:45	11:00	0	4	0	0
11:00	11:15	1	1	0	0
11:15	11:30	2	3	0	0
11:30	11:45	0	1	0	0
11:45	12:00	1	1	0	0
12:00	12:15	3	0	0	0
12:15	12:30	4	3	2	0
12:30	12:45	1	2	0	0
12:45	13:00	2	3	0	0
13:00	13:15	1	1	0	0
13:15	13:30	0	4	0	0
13:30	13:45	2	1	0	0
13:45	14:00	3	1	0	0
14:00	14:15	3	3	0	0
14:15	14:30	2	0	0	0
14:30	14:45	2	2	0	0
14:45	15:00	1	0	0	0
15:00	15:15	2	4	0	0
15:15	15:30	2	1	0	0
15:30	15:45	1	4	0	0
15:45	16:00	2	0	0	0
16:00	16:15	1	2	0	0
16:15	16:30	0	3	0	0
16:30	16:45	1	1	0	0
16:45	17:00	0	0	0	0
17:00	17:15	0	0	0	0
17:15	17:30	1	1	0	0
17:30	17:45	0	0	0	0
17:45	18:00	1	1	0	0
Total		57	56	7	0

Sunday 16th June 2019					
15 minute		Cars In	Cars Out	Peds	Bicycles
Start	End				
8:00	8:15	1	0	1	0
8:15	8:30	0	0	1	0
8:30	8:45	0	0	0	0
8:45	9:00	0	0	0	0
9:00	9:15	0	0	0	0
9:15	9:30	0	0	0	0
9:30	9:45	0	0	0	0
9:45	10:00	0	0	0	0
10:00	10:15	0	0	0	0
10:15	10:30	1	0	0	0
10:30	10:45	1	0	0	0
10:45	11:00	0	2	0	0
11:00	11:15	0	0	0	0
11:15	11:30	0	0	0	0
11:30	11:45	0	0	0	0
11:45	12:00	0	0	1	0
12:00	12:15	2	0	0	0
12:15	12:30	1	0	0	0
12:30	12:45	0	1	0	0
12:45	13:00	0	1	0	0
13:00	13:15	0	1	0	0
13:15	13:30	0	0	0	0
13:30	13:45	1	0	0	0
13:45	14:00	0	1	0	0
14:00	14:15	1	0	0	0
14:15	14:30	1	0	0	0
14:30	14:45	1	1	0	0
14:45	15:00	1	0	0	0
15:00	15:15	1	2	0	0
15:15	15:30	1	1	0	0
15:30	15:45	2	1	0	0
15:45	16:00	2	1	0	0
16:00	16:15	1	3	0	0
16:15	16:30	1	1	0	0
16:30	16:45	1	1	0	0
16:45	17:00	0	1	0	0
17:00	17:15	0	1	0	0
17:15	17:30	0	0	0	0
17:30	17:45	0	1	0	0
17:45	18:00	0	1	1	0
Total		20	21	4	0

Site Location	Sydney Car Wash Café
Survey Date	21st-23rd June 2019
Survey Period	8am-6pm
Main Traffic Flow	Victoria Road
AM Peak Period	8:00am - 9:00am
PM Peak Period	4:00pm - 5:00pm



AM Peak Period	9:30am - 10:30am
PM Peak Period	4:15pm - 5:15pm

AM Peak Period	11:00am - 12:00pm
PM Peak Period	12:00pm - 1:00pm

Friday 14th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
9:00 AM	9:15 AM	266	21	417	25	3396
9:15 AM	9:30 AM	350	31	363	22	3217
9:30 AM	9:45 AM	286	21	366	25	3056
9:45 AM	10:00 AM	304	15	280	32	2824
10:00 AM	10:15 AM	278	18	329	26	2746
10:15 AM	10:30 AM	268	31	355	29	2663
10:30 AM	10:45 AM	258	32	290	20	2565
10:45 AM	11:00 AM	295	22	332	32	2615
11:00 AM	11:15 AM	280	18	242	18	2522
11:15 AM	11:30 AM	300	17	281	17	2454
11:30 AM	11:45 AM	291	25	193	14	2377
11:45 AM	12:00 PM	296	21	261	12	2286
12:00 PM	12:15 PM	312	22	283	14	2359
12:15 PM	12:30 PM	324	34	275	20	2397
12:30 PM	12:45 PM	326	26	282	26	2534
12:45 PM	1:00 PM	319	24	287	27	2601
1:00 PM	1:15 PM	319	17	302	17	2625
1:15 PM	1:30 PM	375	25	301	17	2690
1:30 PM	1:45 PM	355	12	296	21	2714
1:45 PM	2:00 PM	338	20	245	15	2675
2:00 PM	2:15 PM	373	31	335	29	2788
2:15 PM	2:30 PM	421	27	319	29	2866
2:30 PM	2:45 PM	385	28	358	18	2971
2:45 PM	3:00 PM	361	32	366	19	3131
3:00 PM	3:15 PM	352	20	419	16	3170
3:15 PM	3:30 PM	458	24	356	19	3231
3:30 PM	3:45 PM	434	16	383	13	3288
3:45 PM	4:00 PM	475	16	418	15	3434
						3544
						3622
						3697
5:00 PM	5:15 PM	431	18	457	7	3725
5:15 PM	5:30 PM	429	11	476	10	3716
5:30 PM	5:45 PM	418	12	472	5	3702
5:45 PM	6:00 PM	457	10	464	8	3685
AM Peak Period		1569	82	1806	93	3550
PM Peak Period		1802	59	1819	49	3729
Total		14505	838	14428	759	30530

Saturday 15th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	204	17	323	12	
8:15 AM	8:30 AM	215	9	360	9	
8:30 AM	8:45 AM	281	10	338	21	
8:45 AM	9:00 AM	319	6	352	12	2488
9:00 AM	9:15 AM	303	11	340	13	2599
9:15 AM	9:30 AM	300	10	372	9	2697
9:30 AM	9:45 AM	351	6	415	10	2829
9:45 AM	10:00 AM	409	4	418	11	2982
10:00 AM	10:15 AM	369	9	332	3	3028
10:15 AM	10:30 AM	404	12	356	6	3115
10:30 AM	10:45 AM	348	13	336	9	3039
10:45 AM	11:00 AM	413	9	354	3	2976
11:00 AM	11:15 AM	400	13	367	7	3050
11:15 AM	11:30 AM	415	6	353	9	3055
11:30 AM	11:45 AM	367	6	374	8	3104
11:45 AM	12:00 PM	407	7	350	7	3096
12:00 PM	12:15 PM	391	11	376	4	3091
12:15 PM	12:30 PM	458	8	425	6	3205
12:30 PM	12:45 PM	349	13	397	7	3216
12:45 PM	1:00 PM	372	6	405	6	3234
1:00 PM	1:15 PM	414	14	388	10	3278
1:15 PM	1:30 PM	419	9	410	7	3226
1:30 PM	1:45 PM	371	5	401	8	3245
1:45 PM	2:00 PM	454	9	370	6	3295
2:00 PM	2:15 PM	474	12	361	4	3320
2:15 PM	2:30 PM	392	9	399	5	3280
2:30 PM	2:45 PM	416	3	384	5	3303
2:45 PM	3:00 PM	442	13	368	7	3294
3:00 PM	3:15 PM	434	8	369	4	3258
3:15 PM	3:30 PM	462	6	371	1	3293
3:30 PM	3:45 PM	420	12	332	6	3255
3:45 PM	4:00 PM	449	8	353	7	3242
4:00 PM	4:15 PM	405	7	378	5	3222
4:15 PM	4:30 PM	423	7	442	2	3256
4:30 PM	4:45 PM	391	9	413	6	3305
4:45 PM	5:00 PM	356	5	429	2	3280
5:00 PM	5:15 PM	462	8	407	3	3365
5:15 PM	5:30 PM	408	2	433	3	3337
5:30 PM	5:45 PM	372	7	424	2	3323
5:45 PM	6:00 PM	430	7	392	4	3364
AM Peak Period		1533	31	1521	30	3115
PM Peak Period		1632	29	1691	13	3365
Total		15469	346	15167	269	31251

Sunday 16th June 2019						
15 min Period		Westbound		Eastbound		Hourly Total
Start	End	Cars	Trucks	Cars	Trucks	
8:00 AM	8:15 AM	139	2	129	1	
8:15 AM	8:30 AM	128	6	147	4	
8:30 AM	8:45 AM	157	3	206	2	
8:45 AM	9:00 AM	176	2	198	2	1302
9:00 AM	9:15 AM	190	2	233	4	1460
9:15 AM	9:30 AM	213	3	285	1	1677
9:30 AM	9:45 AM	222	1	327	1	1860
9:45 AM	10:00 AM	273	2	309	3	2069
10:00 AM	10:15 AM	246	1	264	1	2152
10:15 AM	10:30 AM	276	3	273	3	2205
10:30 AM	10:45 AM	257	0	300	2	2213
10:45 AM	11:00 AM	311	1	313	3	2254
11:00 AM	11:15 AM	308	2	291	2	2345
11:15 AM	11:30 AM	315	2	296	4	2407
11:30 AM	11:45 AM	298	3	296	3	2448
11:45 AM	12:00 PM	300	3	330	0	2453
12:00 PM	12:15 PM	331	1	349	1	2532
12:15 PM	12:30 PM	336	0	324	2	2577
12:30 PM	12:45 PM	374	3	337	6	2697
12:45 PM	1:00 PM	370	2	346	1	2783
1:00 PM	1:15 PM	305	3	320	2	2731
1:15 PM	1:30 PM	345	4	341	2	2761
1:30 PM	1:45 PM	331	2	361	1	2736
1:45 PM	2:00 PM	343	1	327	0	2688
2:00 PM	2:15 PM	342	2	316	1	2719
2:15 PM	2:30 PM	346	3	275	2	2653
2:30 PM	2:45 PM	271	1	311	2	2543
2:45 PM	3:00 PM	342	4	328	4	2550
3:00 PM	3:15 PM	373	7	347	1	2617
3:15 PM	3:30 PM	326	1	314	3	2635
3:30 PM	3:45 PM	329	4	313	0	2696
3:45 PM	4:00 PM	364	0	339	4	2725
4:00 PM	4:15 PM	331	3	238	3	2572
4:15 PM	4:30 PM	353	2	326	1	2610
4:30 PM	4:45 PM	294	1	304	5	2568
4:45 PM	5:00 PM	393	3	311	2	2570
5:00 PM	5:15 PM	349	2	279	2	2627
5:15 PM	5:30 PM	330	0	280	1	2556
5:30 PM	5:45 PM	322	2	286	1	2563
5:45 PM	6:00 PM	315	0	304	2	2475
AM Peak Period		1221	10	1213	9	2453
PM Peak Period		1411	6	1356	10	2783
Total		11924	87	11773	85	23869