



**5 POWERSCROFT ROAD,
SIDCUP**

**Change of use from office to
residential**

Transport Statement

**Prepared on behalf of Parker
Bromley SSAS**

BELC/2019/4948/TS01

August 2019

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CONTENTS

1	INTRODUCTION.....	1
1.2	Scope of the Report.....	1
2	BASELINE CONDITIONS	2
2.2	Site Access	2
2.3	Accessibility Credentials	2
	<i>Walking and Cycling</i>	2
	<i>Bus</i>	2
	<i>Rail</i>	3
2.4	Public Transport Accessibility Level (PTAL)	4
2.5	Summary of Accessibility Credentials	5
3	DEVELOPMENT PROPOSALS	6
3.2	Site Access	6
3.3	Car Parking	6
4	TRIP GENERATION	7
4.2	Existing vehicle trip generation – Office	7
4.3	Proposed vehicle trip generation – Residential.....	7
4.4	Net impact.....	8
5	SUMMARY AND CONCLUSIONS	9

PLANS

Plan 01 Site Location and Accessibility

APPENDICES

Appendix A	PTAL calculations
Appendix B	TRICS office outputs
Appendix C	TRICS residential outputs

1 INTRODUCTION

- 1.1.1 RGP is instructed by Parker Bromley SSAS to provide transport and highways support relating to the change of use from office to residential of 5 Powerscroft Road, Sidcup.
- 1.1.2 The site currently comprises a 420sqm GFA 3-storey office building with an associated access on the northern side of Powerscroft Road which leads to an on-site car park with space for up to 21 cars.
- 1.1.3 The site is located within 700m of the Foots Cray High Street which contains a small number of shops as well as two supermarkets. Sidcup station is circa 3km north of the site which can be accessed via local bus services which pass close to the site.
- 1.1.4 The development proposals consist of the change of use of the site from office (B1 land use) to form 17 studio flats over three floors under the Prior Notification process.

1.2 Scope of the Report

- 1.2.1 This Prior Notification application is to be determined against the Town and County Planning (General Permitted Development) (Amendment) (England) Order 2015 (the 'Order'). This application represents a Class O application under the Order and as such shall be permitted subject to prior approval of the Local Planning Authority (LPA), which in this case is the London Borough of Bexley (LBB).
- 1.2.2 In making an assessment of the transport impact of the proposed change of use, this Transport Statement considers the following:
 - (i) Section 2: Baseline Conditions;
 - (ii) Section 3: Development Proposals;
 - (iii) Section 4: Trip Generation and Impact; and
 - (iv) Section 5: Summary and Conclusions.

2 BASELINE CONDITIONS

2.1.1 The site is located on the northern side of Powerscroft Road which is a no through road accessed from A224 Cray Road to the west. The site is located in a primarily commercial area, however on the western side of Cray Road there are a series of residential communities. **Plan 01** appended to this document shows the site location in relation to the local highway and transport network.

2.1.2 The A224 leads to the A20 Sidcup by-pass in the south and to the A211 Sidcup Hill in the north. The A211 Sidcup Hill leads to Sidcup circa 2km northwest of the site.

2.2 Site Access

2.2.1 The site is accessed via a vehicle crossover directly from the northern side of Powerscroft Road. The site perimeter has a high fence with an associated gated access which will be retained. The car park on site has space for up to 21 cars to park, however the arrangement is ambiguous in that it offers both parallel and perpendicular spaces to the north of the building when in reality only 1 set would be used. Based on the perpendicular bays being utilised a total of 21 parking spaces are on the site.

2.3 Accessibility Credentials

Walking and Cycling

2.3.1 It is commonly accepted that walking can replace motorised transport for journeys of up to 2km and that over short distances, cycling is often quicker and cheaper than using a car and more flexible than using public transport.

2.3.2 There are footways provided on both sides of Powerscroft Road which provide access to A224 Cray Road with tactile paving at crossing points. Signalised pedestrian crossings are located on all arms at the A224 Cray Road/Hollytree Parade/Foots Cray High St junction to facilitate pedestrian access to and from Foots Cray centre.

Bus

2.3.3 The nearest bus stops to the site are located on Cray Road and are named Crittalls Corner bus stops FS (northbound) and FR (southbound). The southbound bus stop has a shelter, timetable information and a on-road bus cage whereas the northbound bus stop has a bus cage, flag and pole but does not have a shelter. These bus stops are 140-170m from the site which is a circa 2 minute walk. These bus stops form part of the TfL network and are served by bus services 52, 321 and R11 and a summary of the bus timetable is included in **Figure 2.1** below.

Route Summary		Typical Frequency	Hours of Operation
Crittalls Corner (FS) Bus Stop Northbound			
51	Woolwich – Sidcup - Orpington	Mon-Sat: every 10 mins Sun: every 15 mins	Mon-Fri: 04:41-00:16 Sat: 04:40-00:16 Sun: 06:26-00:16
321	Foots Cray – Eltham – Lewisham – New Cross Gate	Mon-Sat: every 10 mins Sun: every 12 mins	Mon-Sun: 24h
R11	Green Street Green – Orpington – St Mary Cray – Foots Cray – Sidcup – Queen Mary's Hospital	Mon-Sat: every 12 mins Sun: every 20 mins	Mon-Fri: 05:39-00:59 Sat: 05:38-00:59 Sun: 06:43-01:00
Crittalls Corner (FR) Bus Stop Southbound			
51	Orpington – Sidcup - Orpington	Mon-Sat: every 20 mins Sun: every 30 mins	Mon-Sat: 04:50-01:26 Sun: 06:51-01:26
321	New Cross Gate – Lewisham – Eltham – Foots Cray	Mon-Sat: every 10 mins Sun: every 12 mins	Mon-Sun: 24h
R11	Queen Mary's Hospital – Sidcup – Foots Cray – St Mary Cray – Orpington - Green Street Green	Mon-Sat: every 12 mins Sun: every 20 mins	Mon-Sat: 05:45-00:25 Sun: 06:20-00:25

Figure 2.1: Bus timetable

Rail

- 2.3.4 The nearest rail station is Sidcup which is circa 3km distance north west of the site which is served by the 51 bus service.
- 2.3.5 Sidcup rail station is served by Southeastern operating company and offers frequent services running to London Cannon Street and Charing Cross plus Woolwich Arsenal as well as Dartford and Gravesend in the east.
- 2.3.6 St Mary Cray station lies to the south of the site, which is also accessible by bicycle. **Figure 2.2** below outlines the available services and frequencies from Sidcup rail station and ST Mary Cray station.

Destination	Frequency	Duration	Major Calling Points
Sidcup Rail Station Timetable			
Dartford	2 trains per hour	14 minutes	Albany Park, Bexley, Crayford
London Charing Cross	4 trains per hour	37 minutes	Mottingham, Hither Green, London Bridge, London Waterloo East, London Charing Cross
Gravesend	2 trains per hour	35 minutes	Albany Park, Bexley, Crayford, Dartford, Greenhithe, Northfleet, Gravesend
Woolwich Arsenal	2 trains per hour	32 minutes	Albany Park, Bexley, Crayford, Belvedere, Abbey Wood, Plumstead
London Cannon Street	1 train per hour	34 minutes	New Eltham, Mottingham, Hither Green St Johns, London Bridge
St Mary Cray Rail Station			
Sevenoaks	2 trains per hour	24 minutes	Swanley, Eynsford, Shoreham, Otford, Bat & Ball
London Victoria	2 trains per hour	27 minutes	Bromley South
Gillingham Kent	1 train per hour	40 minutes	Swanley, Farningham Road, Longfield, Meopham, Sole Street, Rochester, Chatham
London Blackfriars	2 trains per hour	44 minutes	Bromley South, Beckenham Hill, Catford, Peckham Rye, Elephant & Castle
Rochester	2 trains per hour	34 minutes	Swanley, Longfield, Meopham, Sole Street
Ashford International	1 train per hour	1 hour 14 minutes	Swanley, West & East Malling, Maidstone East, Harrietsham, Charing

Figure 2.2 Rail timetable

2.4 Public Transport Accessibility Level (PTAL)

- 2.4.1 To assess the current Public Transport Accessibility Level (PTAL) available at the development site, RGP has carried out a site specific PTAL assessment, undertaken through Web-CAT which is a web-based Connectivity Assessment Toolkit. This assessment takes account of the distance of public transport facilities from the site and the relative frequencies of these services.
- 2.4.2 This assessment has been undertaken in accordance with the guidance methodology contained within 'Assessing Transport Connectivity in London', a TfL report published in April 2015. The results of the PTAL assessment for the site, based on TfL's online tool, are attached hereto at **Appendix A**.

- 2.4.3 The site has an Accessibility Index of 6.33, which corresponds to a PTAL rating of 2, representing a 'Poor' level of accessibility to the public transport network. As demonstrated, the site has a good provision for and access to a range of local facilities and amenities whilst the public transport available locally would cater for some of the regular journeys made by future occupiers and visitors to the site.

2.5 Summary of Accessibility Credentials

- 2.5.1 The site is well placed for access to local services and amenities in Foots Cray as well as access to destinations further afield by bus from the local bus stops circa 2 minute walk from the site.

3 DEVELOPMENT PROPOSALS

3.1.1 The development proposals consist of the change of use of the existing 420sqm office building to provide 17 studio flats. The car parking area has been reconfigured to accommodate 21 car parking spaces to serve the flats.

3.2 Site Access

3.2.1 The site access will be retained in the same location utilising the same vehicle crossover which exists at present and has operated without issue for many years.

3.3 Car Parking

3.3.1 The car parking layout is proposed to be reconfigured slightly; however it will still provide a total of 21 spaces available for future residents. This level of car parking provides a ratio of 1.24 spaces per unit which is over the 1 space per unit which is considered adequate for the location of the site and the type of units proposed. The emerging London Plan indicates that for a site in Outer London in a PTAL 2 that up to 1 space per unit is required. However, given the need to reduce the potential for on-street parking locally, a slight over-provision to accommodate demand from visitors to the units is considered appropriate.

3.3.2 It is therefore considered that the car parking is adequate for the development proposals and that the site would not generate any displaced parking on the local highway network as a result of the change of use.

4 TRIP GENERATION

4.1.1 To establish the traffic generation associated with the existing and proposed uses on site, the TRICS database has been interrogated for comparable sites.

4.2 Existing vehicle trip generation – Office

4.2.1 The site currently is permitted to operate as a B1a Office land use with a gross floor area of circa 420sqm. To establish the existing vehicle trip generation for this use, the TRICS assessment utilised the following criteria:

- (i) Use Class: Employment (Office)
- (ii) Regions: Greater London and South East
- (iii) Days of the week: Monday – Friday

4.2.2 Full TRICS outputs from the assessment are attached hereto at **Appendix B** and are summarised below in **Figure 4.1**.

Trip Rate – Per 100sqm of Office Land Use			
Time Period	Arrivals	Departures	Total Two-Way
AM Peak Hour (08:00-09:00)	1.886	0.000	1.886
PM Peak Hour (17:00-18:00)	0.150	1.131	1.281
Daily 12hr (07:00-19:00)	4.674	4.524	9.198
Traffic Generation for 420sqm Office Land Use			
Time Period	Arrivals	Departures	Total Two-Way
AM Peak Hour (08:00-09:00)	8	0	8
PM Peak Hour (17:00-18:00)	1	5	6
Daily 12hr (07:00-19:00)	20	19	39

Figure 4.1: Existing Office Vehicle Trip Generation

4.2.3 From the TRICS assessment the existing site, operating as an office, could generate 8 two-way vehicles movements in the AM peak hour, 6 two-way vehicle movements in the PM peak hour, and 39 two-way vehicle movements over the course of a typical day.

4.3 Proposed vehicle trip generation – Residential

4.3.1 The following criteria have been used as part of the TRICS assessment to assess the level of vehicle trips that 17 residential units in this location could generate

- (i) Use Class: C3 (Residential)

- (ii) Sub Class: Flats Privately Owned
- (iii) Regions: Greater London and South East
- (iv) Number of Units: 0 – 20
- (v) Days of the week: Monday – Friday

4.3.2 Full TRICS outputs from the assessment are attached hereto at **Appendix C** and are summarised below in **Figure 4.2**.

Trip Rate – Per Residential Unit			
Time Period	Arrivals	Departures	Total Two-Way
AM Peak Hour (08:00-09:00)	0.042	0.167	0.209
PM Peak Hour (17:00-18:00)	0.188	0.021	0.209
Daily 12hr (07:00-19:00)	1.315	1.317	2.632
Traffic Generation for 21 Residential Units			
Time Period	Arrivals	Departures	Total Two-Way
AM Peak Hour (08:00-09:00)	1	3	4
PM Peak Hour (17:00-18:00)	3	0	3
Daily 12hr (07:00-19:00)	22	22	44

Figure 4.2: Proposed Residential Vehicle Trip Generation – 17 units

4.3.3 From the TRICS assessment, the proposed change of use to flats would generate 4 two-way vehicle movements in the AM peak hour, 3 two-way vehicle movements in the PM peak hour and 44 two-way vehicle movements over the course of a typical 12-hour daily period. It should be noted that the TRICS information is based on various flat sizes, therefore the traffic generation could be lower than this in reality, given the small size of the proposed units.

4.4 Net impact

4.4.1 Using information from **Figure 4.1** and **4.2**, the proposed residential development is likely to generate a very similar level of vehicle trips across a daily period as the permitted office use on the site. It is considered that the proposed level of residential development is therefore comparable with the existing permitted use on the site and therefore there would not be any detrimental impact in vehicle traffic terms as a result of the development proposals.

5 SUMMARY AND CONCLUSIONS

5.1.1 This Transport Statement has concluded the following in relation to the proposed change of use of 5 Powerscroft Road from an office to form 17 studio flats.









- (i) Sustainable transport opportunities locally exist with bus stops which provide access to Sidcup rail station and other local facilities;
- (ii) The site is accessible to a range of local facilities, including retail and employment opportunities which would reduce the need to travel by private car for many journeys;
- (iii) The proposed change of use would result in a reduction in vehicle trips during peak hours when compared to the existing use and a broadly similar level across a daily period, hence it is not considered that the proposals are detrimental to local highway conditions;
- (iv) The change of use has been demonstrated to accord well with the objectives of the NPPF.


5.1.2 In light of this report, London Borough of Bexley is respectfully asked to confirm that the Prior Notification application is acceptable from a highway and transport planning perspective.



PLANS

LEGEND

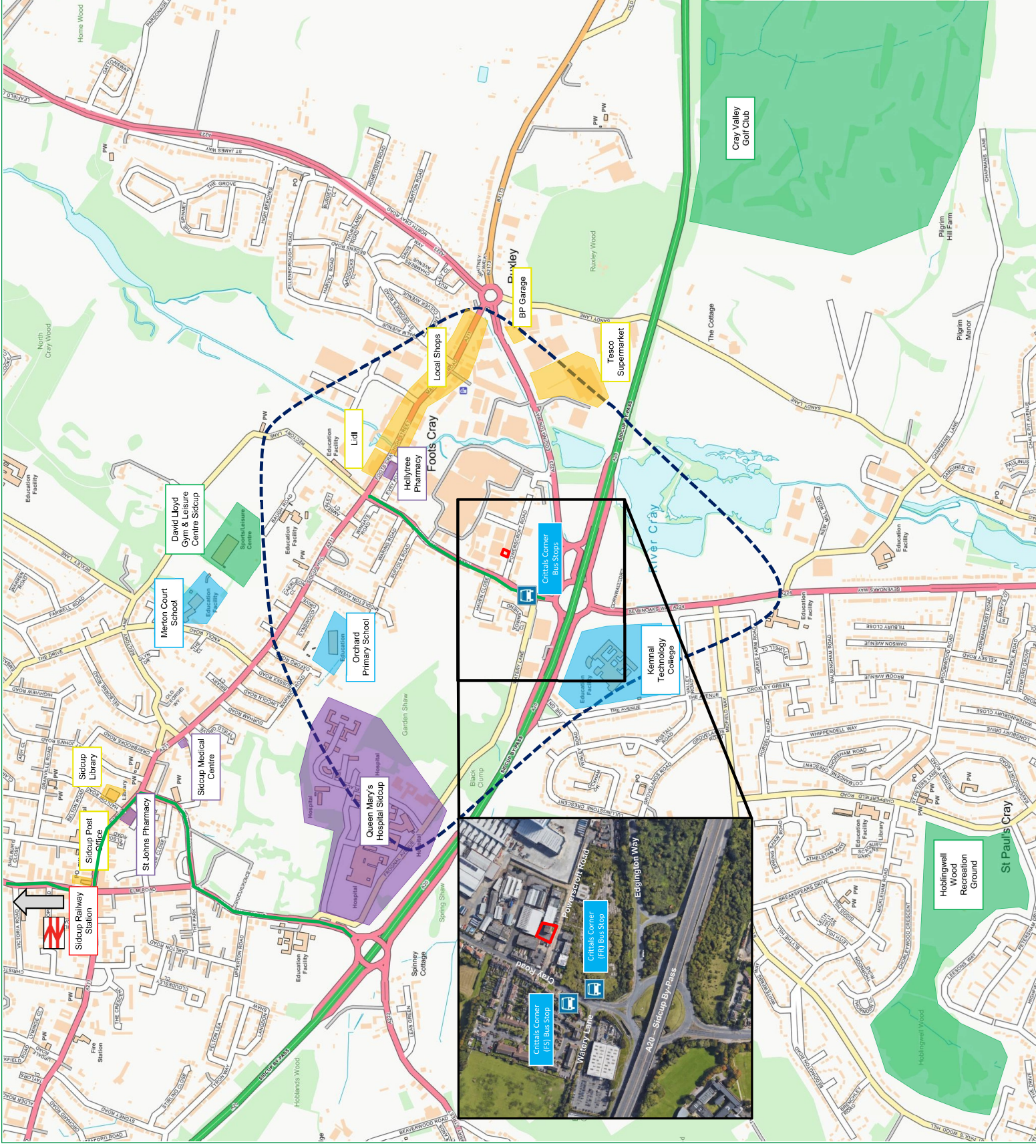
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-  CYCLE ROUTES
-  1KM WALK ISOCHROME
-  RETAIL
-  EDUCATION
-  LEISURE
-  HEALTH CARE



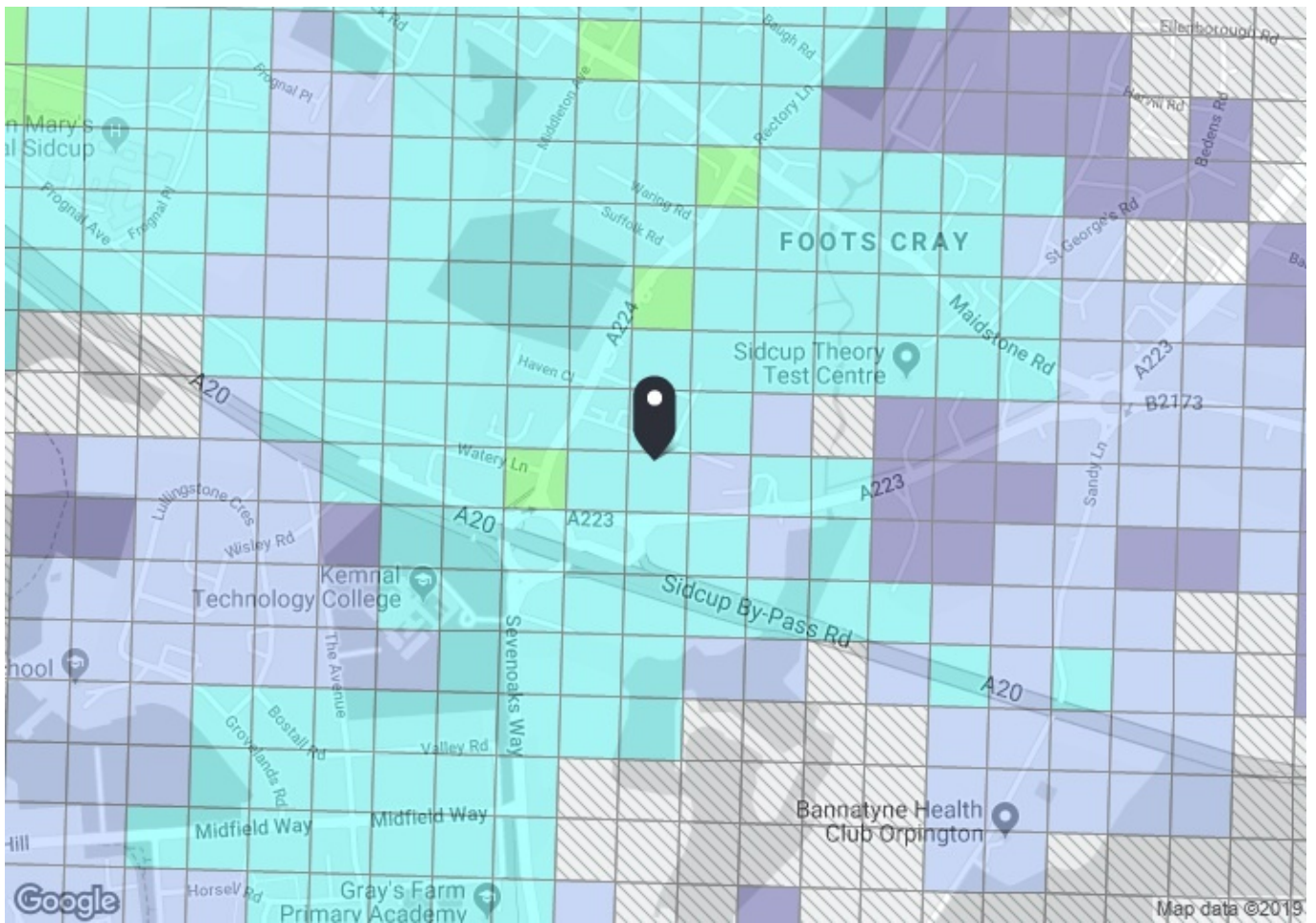
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Client: Parker Bromley SSAS
Project: 5 Powerscroft Road, Sidcup
Title: Site Location & Accessibility plan

Plan No: 01	Job No: 4948	Date: 12/08/2019	Scale: NIS
Drawn By: DWW	Checked By: CAC	Approved By: Rev:	



APPENDIX A



PTAL output for Base Year 2
 DA14 5DT
 Powerscroft Rd, Sidcup DA14 5DT, UK
 Easting: 547241, Northing: 170473

Grid Cell: 34113

Report generated: 13/08/2019

Map key- PTAL

	0 (Worst)		1a
	1b		2
	3		4
	5		6a
	6b (Best)		

Map layers

- PTAL (cell size: 100m)

Calculation Parameters

Day of Week	M-F
Time Period	AM Peak
Walk Speed	4.8 kph
Bus Node Max. Walk Access Time (mins)	8
Bus Reliability Factor	2.0
LU Station Max. Walk Access Time (mins)	12
LU Reliability Factor	0.75
National Rail Station Max. Walk Access Time (mins)	12
National Rail Reliability Factor	0.75

Calculation data

Mode	Stop	Route	Distance (metres)	Frequency(vph)	Walk Time (mins)	SWT (mins)	TAT (mins)	EDF	Weight	AI
Bus	CRAY RD CRITTALS CORNER	51	299.2	6	3.74	7	10.74	2.79	0.5	1.4
Bus	CRAY RD CRITTALS CORNER	B14	299.2	2	3.74	17	20.74	1.45	0.5	0.72
Bus	CRAY RD CRITTALS CORNER	321	299.2	7.5	3.74	6	9.74	3.08	1	3.08
Bus	CRAY RD CRITTALS CORNER	R11	299.2	4	3.74	9.5	13.24	2.27	0.5	1.13
									Total Grid Cell AI:	6.33



APPENDIX B

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
 Category : A - OFFICE

VEHICLES

Selected regions and areas:

01	GREATER LONDON	
	BT BRENT	1 days
02	SOUTH EAST	
	ES EAST SUSSEX	2 days

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

Secondary Filtering selection:

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

Parameter: Gross floor area
 Actual Range: 186 to 860 (units: sqm)
 Range Selected by User: 186 to 860 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 04/07/18

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

Selected survey days:

Tuesday	1 days
Wednesday	2 days

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

Selected survey types:

Manual count	3 days
Directional ATC Count	0 days

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

Selected Locations:

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

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

Selected Location Sub Categories:

Development Zone	1
Residential Zone	2

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

Secondary Filtering selection:

Use Class:

B1	3 days
----	--------

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

Secondary Filtering selection (Cont.):

Population within 1 mile:

25,001 to 50,000	2 days
50,001 to 100,000	1 days

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

Population within 5 miles:

75,001 to 100,000	1 days
250,001 to 500,000	1 days
500,001 or More	1 days

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

Car ownership within 5 miles:

0.6 to 1.0	3 days
------------	--------

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

Travel Plan:

Yes	2 days
No	1 days

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

PTAL Rating:

No PTAL Present	2 days
6a Excellent	1 days

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

LIST OF SITES relevant to selection parameters

1	BT-02-A-03 EMPIRE WAY WEMBLEY	OFFICES	BRENT
	Suburban Area (PPS6 Out of Centre) Development Zone		
	Total Gross floor area:	920 sqm	
	Survey date: WEDNESDAY	03/06/15	Survey Type: MANUAL
2	ES-02-A-11 THE SIDINGS HASTINGS ORE VALLEY	HOUSING COMPANY	EAST SUSSEX
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Gross floor area:	186 sqm	
	Survey date: TUESDAY	17/11/15	Survey Type: MANUAL
3	ES-02-A-13 ROMAN ROAD HOVE	OFFICES	EAST SUSSEX
	Edge of Town Centre Residential Zone		
	Total Gross floor area:	280 sqm	
	Survey date: WEDNESDAY	04/07/18	Survey Type: MANUAL

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

VEHICLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.151	3	442	0.000	3	442	0.151
08:00 - 08:30	3	442	0.830	3	442	0.000	3	442	0.830
08:30 - 09:00	3	442	1.056	3	442	0.000	3	442	1.056
09:00 - 09:30	3	442	0.452	3	442	0.377	3	442	0.829
09:30 - 10:00	3	442	0.226	3	442	0.000	3	442	0.226
10:00 - 10:30	3	442	0.151	3	442	0.000	3	442	0.151
10:30 - 11:00	3	442	0.000	3	442	0.151	3	442	0.151
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.075	3	442	0.075
12:00 - 12:30	3	442	0.226	3	442	0.075	3	442	0.301
12:30 - 13:00	3	442	0.075	3	442	0.151	3	442	0.226
13:00 - 13:30	3	442	0.226	3	442	0.151	3	442	0.377
13:30 - 14:00	3	442	0.151	3	442	0.302	3	442	0.453
14:00 - 14:30	3	442	0.000	3	442	0.226	3	442	0.226
14:30 - 15:00	3	442	0.302	3	442	0.377	3	442	0.679
15:00 - 15:30	3	442	0.075	3	442	0.226	3	442	0.301
15:30 - 16:00	3	442	0.075	3	442	0.151	3	442	0.226
16:00 - 16:30	3	442	0.151	3	442	0.302	3	442	0.453
16:30 - 17:00	3	442	0.226	3	442	0.603	3	442	0.829
17:00 - 17:30	3	442	0.075	3	442	0.754	3	442	0.829
17:30 - 18:00	3	442	0.075	3	442	0.377	3	442	0.452
18:00 - 18:30	3	442	0.151	3	442	0.226	3	442	0.377
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			4.674			4.524			9.198

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

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

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Parameter summary

Trip rate parameter range selected:	186 - 860 (units: sqm)
Survey date date range:	01/01/11 - 04/07/18
Number of weekdays (Monday-Friday):	3
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

TAXIS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.000	3	442	0.000	3	442	0.000
08:00 - 08:30	3	442	0.000	3	442	0.000	3	442	0.000
08:30 - 09:00	3	442	0.000	3	442	0.000	3	442	0.000
09:00 - 09:30	3	442	0.000	3	442	0.000	3	442	0.000
09:30 - 10:00	3	442	0.000	3	442	0.000	3	442	0.000
10:00 - 10:30	3	442	0.000	3	442	0.000	3	442	0.000
10:30 - 11:00	3	442	0.000	3	442	0.000	3	442	0.000
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.000	3	442	0.000
12:00 - 12:30	3	442	0.000	3	442	0.000	3	442	0.000
12:30 - 13:00	3	442	0.000	3	442	0.000	3	442	0.000
13:00 - 13:30	3	442	0.000	3	442	0.000	3	442	0.000
13:30 - 14:00	3	442	0.000	3	442	0.000	3	442	0.000
14:00 - 14:30	3	442	0.000	3	442	0.000	3	442	0.000
14:30 - 15:00	3	442	0.000	3	442	0.000	3	442	0.000
15:00 - 15:30	3	442	0.000	3	442	0.000	3	442	0.000
15:30 - 16:00	3	442	0.000	3	442	0.000	3	442	0.000
16:00 - 16:30	3	442	0.075	3	442	0.075	3	442	0.150
16:30 - 17:00	3	442	0.000	3	442	0.000	3	442	0.000
17:00 - 17:30	3	442	0.000	3	442	0.000	3	442	0.000
17:30 - 18:00	3	442	0.000	3	442	0.000	3	442	0.000
18:00 - 18:30	3	442	0.075	3	442	0.075	3	442	0.150
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.150			0.150			0.300

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

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

OGVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.000	3	442	0.000	3	442	0.000
08:00 - 08:30	3	442	0.000	3	442	0.000	3	442	0.000
08:30 - 09:00	3	442	0.000	3	442	0.000	3	442	0.000
09:00 - 09:30	3	442	0.000	3	442	0.000	3	442	0.000
09:30 - 10:00	3	442	0.000	3	442	0.000	3	442	0.000
10:00 - 10:30	3	442	0.000	3	442	0.000	3	442	0.000
10:30 - 11:00	3	442	0.000	3	442	0.000	3	442	0.000
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.000	3	442	0.000
12:00 - 12:30	3	442	0.000	3	442	0.000	3	442	0.000
12:30 - 13:00	3	442	0.075	3	442	0.075	3	442	0.150
13:00 - 13:30	3	442	0.000	3	442	0.000	3	442	0.000
13:30 - 14:00	3	442	0.000	3	442	0.000	3	442	0.000
14:00 - 14:30	3	442	0.000	3	442	0.000	3	442	0.000
14:30 - 15:00	3	442	0.000	3	442	0.000	3	442	0.000
15:00 - 15:30	3	442	0.000	3	442	0.000	3	442	0.000
15:30 - 16:00	3	442	0.000	3	442	0.000	3	442	0.000
16:00 - 16:30	3	442	0.000	3	442	0.000	3	442	0.000
16:30 - 17:00	3	442	0.000	3	442	0.000	3	442	0.000
17:00 - 17:30	3	442	0.000	3	442	0.000	3	442	0.000
17:30 - 18:00	3	442	0.000	3	442	0.000	3	442	0.000
18:00 - 18:30	3	442	0.000	3	442	0.000	3	442	0.000
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.075			0.075			0.150

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

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

CYCLISTS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.000	3	442	0.000	3	442	0.000
08:00 - 08:30	3	442	0.075	3	442	0.000	3	442	0.075
08:30 - 09:00	3	442	0.000	3	442	0.000	3	442	0.000
09:00 - 09:30	3	442	0.075	3	442	0.000	3	442	0.075
09:30 - 10:00	3	442	0.000	3	442	0.000	3	442	0.000
10:00 - 10:30	3	442	0.000	3	442	0.000	3	442	0.000
10:30 - 11:00	3	442	0.000	3	442	0.000	3	442	0.000
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.000	3	442	0.000
12:00 - 12:30	3	442	0.000	3	442	0.000	3	442	0.000
12:30 - 13:00	3	442	0.000	3	442	0.000	3	442	0.000
13:00 - 13:30	3	442	0.000	3	442	0.000	3	442	0.000
13:30 - 14:00	3	442	0.000	3	442	0.000	3	442	0.000
14:00 - 14:30	3	442	0.000	3	442	0.000	3	442	0.000
14:30 - 15:00	3	442	0.000	3	442	0.000	3	442	0.000
15:00 - 15:30	3	442	0.000	3	442	0.000	3	442	0.000
15:30 - 16:00	3	442	0.000	3	442	0.000	3	442	0.000
16:00 - 16:30	3	442	0.000	3	442	0.000	3	442	0.000
16:30 - 17:00	3	442	0.000	3	442	0.000	3	442	0.000
17:00 - 17:30	3	442	0.000	3	442	0.075	3	442	0.075
17:30 - 18:00	3	442	0.000	3	442	0.075	3	442	0.075
18:00 - 18:30	3	442	0.000	3	442	0.000	3	442	0.000
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.150			0.150			0.300

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

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

CARS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.151	3	442	0.000	3	442	0.151
08:00 - 08:30	3	442	0.830	3	442	0.000	3	442	0.830
08:30 - 09:00	3	442	0.980	3	442	0.000	3	442	0.980
09:00 - 09:30	3	442	0.452	3	442	0.302	3	442	0.754
09:30 - 10:00	3	442	0.226	3	442	0.000	3	442	0.226
10:00 - 10:30	3	442	0.075	3	442	0.000	3	442	0.075
10:30 - 11:00	3	442	0.000	3	442	0.151	3	442	0.151
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.075	3	442	0.075
12:00 - 12:30	3	442	0.226	3	442	0.075	3	442	0.301
12:30 - 13:00	3	442	0.000	3	442	0.075	3	442	0.075
13:00 - 13:30	3	442	0.151	3	442	0.075	3	442	0.226
13:30 - 14:00	3	442	0.075	3	442	0.226	3	442	0.301
14:00 - 14:30	3	442	0.000	3	442	0.226	3	442	0.226
14:30 - 15:00	3	442	0.226	3	442	0.302	3	442	0.528
15:00 - 15:30	3	442	0.000	3	442	0.151	3	442	0.151
15:30 - 16:00	3	442	0.000	3	442	0.075	3	442	0.075
16:00 - 16:30	3	442	0.000	3	442	0.075	3	442	0.075
16:30 - 17:00	3	442	0.151	3	442	0.603	3	442	0.754
17:00 - 17:30	3	442	0.075	3	442	0.679	3	442	0.754
17:30 - 18:00	3	442	0.075	3	442	0.377	3	442	0.452
18:00 - 18:30	3	442	0.075	3	442	0.151	3	442	0.226
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			3.768			3.618			7.386

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

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

LGVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.000	3	442	0.000	3	442	0.000
08:00 - 08:30	3	442	0.000	3	442	0.000	3	442	0.000
08:30 - 09:00	3	442	0.075	3	442	0.000	3	442	0.075
09:00 - 09:30	3	442	0.000	3	442	0.075	3	442	0.075
09:30 - 10:00	3	442	0.000	3	442	0.000	3	442	0.000
10:00 - 10:30	3	442	0.000	3	442	0.000	3	442	0.000
10:30 - 11:00	3	442	0.000	3	442	0.000	3	442	0.000
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.000	3	442	0.000
12:00 - 12:30	3	442	0.000	3	442	0.000	3	442	0.000
12:30 - 13:00	3	442	0.000	3	442	0.000	3	442	0.000
13:00 - 13:30	3	442	0.075	3	442	0.075	3	442	0.150
13:30 - 14:00	3	442	0.000	3	442	0.000	3	442	0.000
14:00 - 14:30	3	442	0.000	3	442	0.000	3	442	0.000
14:30 - 15:00	3	442	0.075	3	442	0.075	3	442	0.150
15:00 - 15:30	3	442	0.075	3	442	0.075	3	442	0.150
15:30 - 16:00	3	442	0.075	3	442	0.000	3	442	0.075
16:00 - 16:30	3	442	0.075	3	442	0.151	3	442	0.226
16:30 - 17:00	3	442	0.075	3	442	0.000	3	442	0.075
17:00 - 17:30	3	442	0.000	3	442	0.075	3	442	0.075
17:30 - 18:00	3	442	0.000	3	442	0.000	3	442	0.000
18:00 - 18:30	3	442	0.000	3	442	0.000	3	442	0.000
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.525			0.526			1.051

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

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

TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE

MOTOR CYCLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30									
00:30 - 01:00									
01:00 - 01:30									
01:30 - 02:00									
02:00 - 02:30									
02:30 - 03:00									
03:00 - 03:30									
03:30 - 04:00									
04:00 - 04:30									
04:30 - 05:00									
05:00 - 05:30									
05:30 - 06:00									
06:00 - 06:30									
06:30 - 07:00									
07:00 - 07:30	3	442	0.000	3	442	0.000	3	442	0.000
07:30 - 08:00	3	442	0.000	3	442	0.000	3	442	0.000
08:00 - 08:30	3	442	0.000	3	442	0.000	3	442	0.000
08:30 - 09:00	3	442	0.000	3	442	0.000	3	442	0.000
09:00 - 09:30	3	442	0.000	3	442	0.000	3	442	0.000
09:30 - 10:00	3	442	0.000	3	442	0.000	3	442	0.000
10:00 - 10:30	3	442	0.075	3	442	0.000	3	442	0.075
10:30 - 11:00	3	442	0.000	3	442	0.000	3	442	0.000
11:00 - 11:30	3	442	0.000	3	442	0.000	3	442	0.000
11:30 - 12:00	3	442	0.000	3	442	0.000	3	442	0.000
12:00 - 12:30	3	442	0.000	3	442	0.000	3	442	0.000
12:30 - 13:00	3	442	0.000	3	442	0.000	3	442	0.000
13:00 - 13:30	3	442	0.000	3	442	0.000	3	442	0.000
13:30 - 14:00	3	442	0.075	3	442	0.075	3	442	0.150
14:00 - 14:30	3	442	0.000	3	442	0.000	3	442	0.000
14:30 - 15:00	3	442	0.000	3	442	0.000	3	442	0.000
15:00 - 15:30	3	442	0.000	3	442	0.000	3	442	0.000
15:30 - 16:00	3	442	0.000	3	442	0.075	3	442	0.075
16:00 - 16:30	3	442	0.000	3	442	0.000	3	442	0.000
16:30 - 17:00	3	442	0.000	3	442	0.000	3	442	0.000
17:00 - 17:30	3	442	0.000	3	442	0.000	3	442	0.000
17:30 - 18:00	3	442	0.000	3	442	0.000	3	442	0.000
18:00 - 18:30	3	442	0.000	3	442	0.000	3	442	0.000
18:30 - 19:00	3	442	0.000	3	442	0.000	3	442	0.000
19:00 - 19:30									
19:30 - 20:00									
20:00 - 20:30									
20:30 - 21:00									
21:00 - 21:30									
21:30 - 22:00									
22:00 - 22:30									
22:30 - 23:00									
23:00 - 23:30									
23:30 - 24:00									
Total Rates:			0.150			0.150			0.300

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

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

APPENDIX C

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : C - FLATS PRIVATELY OWNED

VEHICLES

Selected regions and areas:

01 GREATER LONDON	
EN ENFIELD	1 days
KI KINGSTON	1 days
NH NEWHAM	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 12 to 20 (units:)
 Range Selected by User: 12 to 31 (units:)

Parking Spaces Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 11/07/16

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

Selected survey days:

Monday	2 days
Thursday	1 days

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

Selected survey types:

Manual count	3 days
Directional ATC Count	0 days

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

Selected Locations:

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

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

Selected Location Sub Categories:

Residential Zone	2
Built-Up Zone	1

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

Secondary Filtering selection:

Use Class:

C3	3 days
----	--------

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

Secondary Filtering selection (Cont.):

Population within 1 mile:

25,001 to 50,000	2 days
50,001 to 100,000	1 days

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

Population within 5 miles:

500,001 or More	3 days
-----------------	--------

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

Car ownership within 5 miles:

0.5 or Less	1 days
0.6 to 1.0	1 days
1.1 to 1.5	1 days

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

Travel Plan:

No	3 days
----	--------

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

PTAL Rating:

2 Poor	2 days
3 Moderate	1 days

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

LIST OF SITES relevant to selection parameters

1	EN-03-C-01 SOUTH STREET ENFIELD	BLOCK OF FLATS	ENFIELD
	Suburban Area (PPS6 Out of Centre) Built-Up Zone		
	Total Number of dwellings:	16	
	Survey date: MONDAY	16/11/15	Survey Type: MANUAL
2	KI-03-C-03 PORTSMOUTH ROAD SURBITON	BLOCK OF FLATS	KINGSTON
	Edge of Town Centre Residential Zone		
	Total Number of dwellings:	20	
	Survey date: MONDAY	11/07/16	Survey Type: MANUAL
3	NH-03-C-01 ARTHINGWORTH STREET STRATFORD	BLOCK OF FLATS	NEWHAM
	Neighbourhood Centre (PPS6 Local Centre) Residential Zone		
	Total Number of dwellings:	12	
	Survey date: THURSDAY	14/11/13	Survey Type: MANUAL

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

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	3	16	0,083	3	16	0,104	3	16	0,187
08:00 - 09:00	3	16	0,042	3	16	0,167	3	16	0,209
09:00 - 10:00	3	16	0,063	3	16	0,042	3	16	0,104
10:00 - 11:00	3	16	0,000	3	16	0,042	3	16	0,042
11:00 - 12:00	3	16	0,042	3	16	0,042	3	16	0,084
12:00 - 13:00	3	16	0,083	3	16	0,042	3	16	0,125
13:00 - 14:00	3	16	0,063	3	16	0,083	3	16	0,145
14:00 - 15:00	3	16	0,063	3	16	0,125	3	16	0,187
15:00 - 16:00	3	16	0,083	3	16	0,104	3	16	0,187
16:00 - 17:00	3	16	0,104	3	16	0,083	3	16	0,187
17:00 - 18:00	3	16	0,188	3	16	0,021	3	16	0,209
18:00 - 19:00	3	16	0,104	3	16	0,063	3	16	0,166
19:00 - 20:00	1	20	0.250	1	20	0.200	1	20	0.450
20:00 - 21:00	1	20	0,150	1	20	0,200	1	20	0,350
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.315			1.317			2.632

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

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

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Parameter summary

Trip rate parameter range selected:	12 - 20 (units:)
Survey date date range:	01/01/11 - 11/07/16
Number of weekdays (Monday-Friday):	3
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

CYCLISTS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	3	16	0.000	3	16	0.000	3	16	0.000
08:00 - 09:00	3	16	0.021	3	16	0.021	3	16	0.042
09:00 - 10:00	3	16	0.021	3	16	0.042	3	16	0.063
10:00 - 11:00	3	16	0.000	3	16	0.000	3	16	0.000
11:00 - 12:00	3	16	0.000	3	16	0.000	3	16	0.000
12:00 - 13:00	3	16	0.000	3	16	0.000	3	16	0.000
13:00 - 14:00	3	16	0.021	3	16	0.000	3	16	0.021
14:00 - 15:00	3	16	0.000	3	16	0.021	3	16	0.021
15:00 - 16:00	3	16	0.000	3	16	0.000	3	16	0.000
16:00 - 17:00	3	16	0.000	3	16	0.000	3	16	0.000
17:00 - 18:00	3	16	0.021	3	16	0.000	3	16	0.021
18:00 - 19:00	3	16	0.000	3	16	0.021	3	16	0.021
19:00 - 20:00	1	20	0.050	1	20	0.000	1	20	0.050
20:00 - 21:00	1	20	0.000	1	20	0.000	1	20	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.134			0.105			0.239

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

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

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

CARS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	3	16	0.063	3	16	0.063	3	16	0.124
08:00 - 09:00	3	16	0.042	3	16	0.104	3	16	0.146
09:00 - 10:00	3	16	0.063	3	16	0.021	3	16	0.083
10:00 - 11:00	3	16	0.000	3	16	0.042	3	16	0.042
11:00 - 12:00	3	16	0.042	3	16	0.042	3	16	0.084
12:00 - 13:00	3	16	0.083	3	16	0.042	3	16	0.125
13:00 - 14:00	3	16	0.021	3	16	0.042	3	16	0.063
14:00 - 15:00	3	16	0.042	3	16	0.083	3	16	0.125
15:00 - 16:00	3	16	0.042	3	16	0.063	3	16	0.104
16:00 - 17:00	3	16	0.000	3	16	0.021	3	16	0.021
17:00 - 18:00	3	16	0.146	3	16	0.021	3	16	0.167
18:00 - 19:00	3	16	0.083	3	16	0.042	3	16	0.125
19:00 - 20:00	1	20	0.200	1	20	0.150	1	20	0.350
20:00 - 21:00	1	20	0.150	1	20	0.200	1	20	0.350
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.975			0.934			1.909

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

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

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

LGVS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	3	16	0.000	3	16	0.000	3	16	0.000
08:00 - 09:00	3	16	0.000	3	16	0.000	3	16	0.000
09:00 - 10:00	3	16	0.000	3	16	0.021	3	16	0.021
10:00 - 11:00	3	16	0.000	3	16	0.000	3	16	0.000
11:00 - 12:00	3	16	0.000	3	16	0.000	3	16	0.000
12:00 - 13:00	3	16	0.000	3	16	0.000	3	16	0.000
13:00 - 14:00	3	16	0.042	3	16	0.042	3	16	0.084
14:00 - 15:00	3	16	0.021	3	16	0.021	3	16	0.042
15:00 - 16:00	3	16	0.000	3	16	0.000	3	16	0.000
16:00 - 17:00	3	16	0.042	3	16	0.042	3	16	0.084
17:00 - 18:00	3	16	0.021	3	16	0.000	3	16	0.021
18:00 - 19:00	3	16	0.000	3	16	0.000	3	16	0.000
19:00 - 20:00	1	20	0.000	1	20	0.000	1	20	0.000
20:00 - 21:00	1	20	0.000	1	20	0.000	1	20	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.126			0.126			0.252

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

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

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

MOTOR CYCLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	3	16	0.000	3	16	0.000	3	16	0.000
08:00 - 09:00	3	16	0.000	3	16	0.021	3	16	0.021
09:00 - 10:00	3	16	0.000	3	16	0.000	3	16	0.000
10:00 - 11:00	3	16	0.000	3	16	0.000	3	16	0.000
11:00 - 12:00	3	16	0.000	3	16	0.000	3	16	0.000
12:00 - 13:00	3	16	0.000	3	16	0.000	3	16	0.000
13:00 - 14:00	3	16	0.000	3	16	0.000	3	16	0.000
14:00 - 15:00	3	16	0.000	3	16	0.000	3	16	0.000
15:00 - 16:00	3	16	0.000	3	16	0.000	3	16	0.000
16:00 - 17:00	3	16	0.021	3	16	0.000	3	16	0.021
17:00 - 18:00	3	16	0.000	3	16	0.000	3	16	0.000
18:00 - 19:00	3	16	0.000	3	16	0.000	3	16	0.000
19:00 - 20:00	1	20	0.050	1	20	0.050	1	20	0.100
20:00 - 21:00	1	20	0.000	1	20	0.000	1	20	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.071			0.071			0.142

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

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