

TRANSPORT TECHNICAL NOTE

112 CLEVELAND STREET, W1T 6PA

Prior Approval for Change of Use from Retail Unit to 1 x Residential Flat

Date: August 2021

Ref: 6130/TN01

1 INTRODUCTION

- 1.1 RGP is instructed to provide transport planning and highways support with regards to change of use proposals at 112 Cleveland Street, W1T 6PA, within the London Borough of Camden.
- 1.2 The proposals are for a change of use from a single commercial unit (use class E) to a single residential unit (use class C3) at basement and ground floor levels via the prior approval process (part MA). The full description of the application is as follows:

"An application seeking a determination as to whether prior approval is required for the conversion of the existing ground and basement floorspace from a use falling within Class E (commercial, business and services) to create a single residential unit over the ground and basement level (Use Class C3)."

1.3 With regards to the transport considerations of this prior approval process (part MA), the legislation states that development is permitted where:

"Before beginning development under Class MA, the developer must apply to the local planning authority for a determination as to whether the prior approval of the authority will be required as to—

(a) transport impacts of the development, particularly to ensure safe site access..."

1.4 The purpose of this Transport Technical Note is therefore to demonstrate the proposed change of use would not result in any negative transport impacts, particularly with regards to safe site access.

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2 SITE DESCRIPTION AND ACCESSIBILITY CREDENTIALS

- 2.1 The site is located on the eastern side of Cleveland Street and has pedestrian access via two separate doors at ground floor level. There is no on-site car parking or access to the application site from the rear.
- 2.2 On-street resident permit holder parking bays (Zone CA-E) are located directly outside the site frontage on the eastern side of Cleveland Street. Enforcement hours are Monday to Saturday between 8.30am and 6.30pm.
- 2.3 Immediately to the north of these on-street parking bays there is a single yellow line, which is subject to 'no waiting' restrictions during the above enforcement hours. As per Camden's online guidance (https://www.camden.gov.uk/loading-unloading) loading and unloading is therefore permitted from this location for up to 20 minutes during enforcement hours (or up to 40 minutes for heavy goods vehicles). There is a circa 5.0m carriageway width at this location which enables through-traffic to continue unimpeded whilst a vehicle is unloading.
- 2.4 The site is in a highly accessible location, close to a range of key amenities and facilities. As per the below output from TfL's WebCAT online tool, the site is in a PTAL 6b location which corresponds to an 'excellent' level of accessibility by public transport and is the highest score achievable. This is due to the site's proximity to a number of London Underground and National Rail stations, as well as numerous bus services.



Figure 2.1. PTAL Output



2.5 As a result of these excellent accessibility credentials, future residents would be likely to undertake the vast majority of journeys using sustainable modes such as walking, cycling and public transport (as detailed in the trip generation assessment at Section 3 of this report).

3 TRIP GENERATION IMPACT

3.1 The TRICS database is the industry standard tool for calculating the trip generation credentials of a variety of use classes. This has therefore been interrogated to establish the multi-modal trip generation for the existing retail unit and the proposed residential unit.

Existing Trip Generation Potential

- 3.2 It is understood the commercial unit has previously operated as a clothes shop and also an estate agency in recent years. As these specific types of retail unit do not appear on the TRICS database, the "convenience store" category has been interrogated since it is the most comparable use to a small retail unit. This is reflective of the potential trip generation of a retail unit at this location.
- 3.3 There are two such TRICS sites in PTAL 6 locations within central London, which have both therefore been included in the assessment. The full TRICS outputs are attached hereto at **Appendix A** and are summarised below within **Figure 3.1** which details the typical AM (08:00-09:00) and PM (17:00-18:00) peak hour trips, as well as the total daily trip generation.
- 3.4 Whilst the TRICS trip rates are typically applied to gross floor space, the data has been applied only to the ground floor retail floorspace for robustness (which is in the order of 16sqm).

	AN	A Peak Ho	our	PN	NPeak Ho	our	Total Daily			
	Arr	Dep	2-way	Arr Dep 2-way		Arr Dep		2-way		
Vehicles	0	0	0	0	0	0	3	3	5	
Walk	3	6	9	7	6	13	98	105	203	
Cycle	0	0	0	0	0	0	1	1	1	
Bus/rail	4	0	4	1	1	3	18	11	29	
Total	7	6	13	8	8	16	119	119	239	

Note. Some discrepancies due to rounding

Figure 3.1. Existing Trip Generation Potential (16sqm Retail Floorspace)

3.5 Whilst the traffic impact of such retail units can vary considerably dependent on their specific occupant, the above assessment demonstrates they have the potential to generate a substantial level of activity.



Proposed Trip Generation

- 3.6 The following TRICS selection criteria has been applied to establish the trip generation of the proposed residential flat:
 - i) Land use Flats, privately owned
 - ii) Survey type Multi-modal
 - iii) Regions Greater London only
 - iv) Date range January 2013 to March 2020
 - v) Survey days Weekdays only
 - vi) Locations Town centre and edge of town centre
 - vii) PTAL rating 6a and 6b
- 3.7 The full TRICS outputs are attached hereto at **Appendix B** and are summarised below within **Figure 3.2** which details the typical AM (08:00-09:00) and PM (17:00-18:00) peak hour trips, as well as the total daily trip generation.

	AN	A Peak Ho	our	PN	A Peak Ho	our	Total Daily			
	Arr	Dep	2-way	Arr	Dep	Dep 2-way		Dep	2-way	
Vehicles	0	0	0	0	0	0	0	0	1	
Walk	0	0	0	0	0	0	1	1	2	
Cycle	0	0	0	0	0	0	0	0	0	
Bus/rail	0	0	0	0	0	0	1	1	2	
Total	0	0	1	0	0	1	2	2	4	

Note. Some discrepancies due to rounding Figure 3.2. Proposed Trip Generation (1 residential flat)

- 3.8 As summarised above the proposed residential flat would be likely to generate a total of 4 two-way movements by all modes over the course of a typical weekday.
- 3.9 It can be seen this level of activity is significantly less than could be generated by a retail use of the site. This includes a reduction across all mode types, including a reduction in vehicular activity.



4 PARKING AND SERVICING OVERVIEW

Existing Parking Demand

4.1 There is no on-site car parking provided for the existing retail use. However, as detail within **Figure 3.1** of this report, the existing retail unit has the potential to attract 3 vehicles per day, each of which would be likely to park nearby (on the public highway) for some duration.

Proposed Parking Demand

- 4.2 Given the highly accessible location of the site, there would be no requirement for on-site car parking for the proposed residential flat from a policy perspective. Additionally, there would be minimal demand for parking at a flatted dwelling in this location.
- 4.3 2011 census data for the local area confirms an especially low demand for car park for residential flats. As confirmed within the output sheet attached hereto at **Appendix C**, of the 128 flats in the local output area (E00004194), less than 19% own a car.
- 4.4 The proposed residential flat would therefore have no perceptible impact on parking demand locally and would most likely generate a reduced demand for parking compared with the existing retail use of the site.

Servicing Impact

- 4.5 Servicing activity associated with the proposed residential flat would be accommodated on Cleveland Street, in accordance with the surrounding parking / loading restrictions. This would most likely be accommodated from the single yellow line or from vacant parking spaces, immediately outside the site on the eastern side of Cleveland Street. These arrangements are entirely safe and are consistent with existing servicing arrangements for the retail unit.
- 4.6 From the TRICS data presented in Section 3 of this report, it can be seen the existing retail unit has the potential to generate an average of 0.283 service vehicle visits per day, whereas the proposed residential use would generate an average of 0.102 service vehicle visits per day. A reduced level of delivery and servicing activity would therefore be generated by the proposed residential use of the site.
- 4.7 Additionally, residential deliveries tend to be small courier type activity, delivering online shopping for example. These tend to be shorter in duration than retail deliveries where a more substantial quantity of goods are required to stock the retail premises.



5 SUMMARY AND CONCLUSIONS

- 5.1 In summary, the following key conclusions are made with respect to the change of use proposals at 112 Cleveland Street:
 - i) The site is in a highly accessible location, as demonstrated by its PTAL 6b.
 - ii) The proposals would result in a reduced level of trips compared with the existing site use.
 - iii) The proposals would not generate a material demand for car parking and would most likely generate a reduced level of parking demand than to the existing site use.
 - iv) The proposals would be accessed and serviced as per the existing established arrangements, albeit there would be a reduced level of servicing activity generated.
- 5.2 Overall, it can be seen there would be no adverse transport or highway impacts, particularly with respect to highway safety.



APPENDIX A

Calculation Reference: AUDIT-728001-210811-0841

Licence No: 728001

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL Category : 0 - CONVENIENCE STORE MULTI-MODAL TOTAL VEHICLES

Selected regions and areas: 01 GREATER LONDON

KN KENSINGTON AND CHELSEA	1 days
WE WESTMINSTER	1 days

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

Primary 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:	300 to 550 (units: sqm)
Range Selected by User:	120 to 795 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision: Selection by:

Include all surveys

Date Range: 01/01/13 to 16/11/17

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.

<u>Selected survey days:</u>	
Monday	1 days
Tuesday	1 days

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

<u>Selected survey types:</u>	
Manual count	2 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 undertaking using machines.

Selected Locations:	
Town Centre	

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.

<u>Selected Location Sub Categories:</u> Built-Up Zone

2

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:

<u>Use Class:</u> E(a)

2 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®.

S 7.8.2 210621 B20.20 Database right of TR	RICS Consortium Limited, 2021. All rights reserved	Wednesday 11/08/21
Mill Pool House Godalming		Licence No: 728001
Secondary Filtering selection (Cont.):		
Population within 1 mile:		
50,001 to 100,000	1 days	
100,001 or More	1 days	
This data displays the number of selected su	rveys within stated 1-mile radii of population.	
Population within 5 miles:		
500,001 or More	2 days	
This data displays the number of selected su	rveys within stated 5-mile radii of population.	
<u>Car ownership within 5 miles:</u>		
0.5 or Less	1 days	
0.6 to 1.0	1 days	
This data displays the number of selected su within a radius of 5-miles of selected survey	rveys within stated ranges of average cars owned per sites.	r residential dwelling,
Petrol filling station:		
Included in the survey count	0 days	
Excluded from count or no filling station	2 days	
This data displays the number of surveys will number of surveys that do not.	thin the selected set that include petrol filling station a	activity, and the
<u>Travel Plan:</u>		
No	2 days	
This data displays the number of surveys will and the number of surveys that were undert	thin the selected set that were undertaken at sites wit taken at sites without Travel Plans.	th Travel Plans in place,
DTAL Dating		

<u>PTAL Rating:</u> 6b (High) Excellent

2 days

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

TRICS	7.8.2	210621 B20.20	Database right of TRICS Co	nsortium Limited, 2021.	All rights reserved	Wednesday 11/08/21 Page 3
RGP	Mill Po	ool House Godal	ming			Licence No: 728001
	LIST	OF SITES relevant	to selection parameters			
	1	KN-01-O-01 QUEENSWAY BAYSWATER	SAINSBURY'S LOCAL		KENSINGTON AND CH	ELSEA
	2	Town Centre Built-Up Zone Total Gross floor a <i>Survey da</i> WE-01-O-01 MORTIMER STREE FITZROVIA	area: h <i>te: MONDAY</i> SAINSBURY'S LOCAL ET	300 sqm <i>22/06/15</i>	<i>Survey Type: MANUA</i> WESTMINSTER	12
		Town Centre Built-Up Zone Total Gross floor a <i>Survey da</i>	area: i <i>te: TUESDAY</i>	550 sqm <i>23/06/15</i>	Survey Type: MANUA	12

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 01 - RETAIL/O - CONVENIENCE STORE MULTI-MODAL TOTAL VEHICLES Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

	ARRIVALS				DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	1.059	0.169	2	425	0.588	0.094	2	425	1.647	0.263
08:00 - 09:00	2	425	1.294	0.207	2	425	1.059	0.169	2	425	2.353	0.376
09:00 - 10:00	2	425	1.412	0.226	2	425	1.412	0.226	2	425	2.824	0.452
10:00 - 11:00	2	425	1.882	0.301	2	425	1.176	0.188	2	425	3.058	0.489
11:00 - 12:00	2	425	1.294	0.207	2	425	0.941	0.151	2	425	2.235	0.358
12:00 - 13:00	2	425	0.824	0.132	2	425	1.412	0.226	2	425	2.236	0.358
13:00 - 14:00	2	425	0.353	0.056	2	425	0.824	0.132	2	425	1.177	0.188
14:00 - 15:00	2	425	0.235	0.038	2	425	0.471	0.075	2	425	0.706	0.113
15:00 - 16:00	2	425	0.588	0.094	2	425	0.353	0.056	2	425	0.941	0.150
16:00 - 17:00	2	425	1.647	0.264	2	425	0.941	0.151	2	425	2.588	0.415
17:00 - 18:00	2	425	0.941	0.151	2	425	1.294	0.207	2	425	2.235	0.358
18:00 - 19:00	2	425	1.059	0.169	2	425	1.529	0.245	2	425	2.588	0.414
19:00 - 20:00	2	425	0.588	0.094	2	425	0.588	0.094	2	425	1.176	0.188
20:00 - 21:00	2	425	2.235	0.358	2	425	2.706	0.433	2	425	4.941	0.791
21:00 - 22:00	2	425	0.941	0.151	2	425	0.706	0.113	2	425	1.647	0.264
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			16.352	2.617			16.000	2.560			32.352	5.177

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

300 - 550 (units: sqm)
01/01/13 - 16/11/17
2
0
0
0
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 01 - RETAIL/O - CONVENIENCE STORE MULTI-MODAL TAXIS Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

	ARRIVALS				DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
08:00 - 09:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
09:00 - 10:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038
10:00 - 11:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
11:00 - 12:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
12:00 - 13:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
13:00 - 14:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
14:00 - 15:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038
15:00 - 16:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
16:00 - 17:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038
17:00 - 18:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000
18:00 - 19:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038
19:00 - 20:00	2	425	0.353	0.056	2	425	0.353	0.056	2	425	0.706	0.112
20:00 - 21:00	2	425	0.471	0.075	2	425	0.471	0.075	2	425	0.942	0.150
21:00 - 22:00	2	425	0.235	0.038	2	425	0.235	0.038	2	425	0.470	0.076
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			1.531	0.245			1.531	0.245			3.062	0.490

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE MULTI-MODAL CYCLISTS Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

		AF	RIVALS			DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	0.000	0.000	2	425	0.118	0.019	2	425	0.118	0.019	
08:00 - 09:00	2	425	0.471	0.075	2	425	0.353	0.056	2	425	0.824	0.131	
09:00 - 10:00	2	425	0.471	0.075	2	425	0.353	0.056	2	425	0.824	0.131	
10:00 - 11:00	2	425	0.353	0.056	2	425	0.118	0.019	2	425	0.471	0.075	
11:00 - 12:00	2	425	0.118	0.019	2	425	0.000	0.000	2	425	0.118	0.019	
12:00 - 13:00	2	425	0.353	0.056	2	425	0.353	0.056	2	425	0.706	0.112	
13:00 - 14:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
14:00 - 15:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
15:00 - 16:00	2	425	0.353	0.056	2	425	0.235	0.038	2	425	0.588	0.094	
16:00 - 17:00	2	425	0.235	0.038	2	425	0.118	0.019	2	425	0.353	0.057	
17:00 - 18:00	2	425	0.353	0.056	2	425	0.471	0.075	2	425	0.824	0.131	
18:00 - 19:00	2	425	0.235	0.038	2	425	0.824	0.132	2	425	1.059	0.170	
19:00 - 20:00	2	425	0.588	0.094	2	425	0.118	0.019	2	425	0.706	0.113	
20:00 - 21:00	2	425	0.471	0.075	2	425	0.471	0.075	2	425	0.942	0.150	
21:00 - 22:00	2	425	0.235	0.038	2	425	0.353	0.056	2	425	0.588	0.094	
22:00 - 23:00													
23:00 - 24:00													
Total Rates:			4.472	0.714			4.121	0.658			8.593	1.372	

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE MULTI - MODAL PEDESTRIANS Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

		AF	RIVALS		DEPARTURES					TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	11.059	1.769	2	425	25.294	4.047	2	425	36.353	5.816	
08:00 - 09:00	2	425	17.059	2.729	2	425	36.118	5.779	2	425	53.177	8.508	
09:00 - 10:00	2	425	27.529	4.405	2	425	41.176	6.588	2	425	68.705	10.993	
10:00 - 11:00	2	425	31.647	5.064	2	425	34.471	5.515	2	425	66.118	10.579	
11:00 - 12:00	2	425	32.353	5.176	2	425	34.941	5.591	2	425	67.294	10.767	
12:00 - 13:00	2	425	81.059	12.969	2	425	79.765	12.762	2	425	160.824	25.731	
13:00 - 14:00	2	425	97.412	15.586	2	425	99.529	15.925	2	425	196.941	31.511	
14:00 - 15:00	2	425	58.000	9.280	2	425	58.000	9.280	2	425	116.000	18.560	
15:00 - 16:00	2	425	44.471	7.115	2	425	43.647	6.984	2	425	88.118	14.099	
16:00 - 17:00	2	425	36.941	5.911	2	425	33.882	5.421	2	425	70.823	11.332	
17:00 - 18:00	2	425	42.000	6.720	2	425	39.765	6.362	2	425	81.765	13.082	
18:00 - 19:00	2	425	45.059	7.209	2	425	42.000	6.720	2	425	87.059	13.929	
19:00 - 20:00	2	425	35.529	5.685	2	425	32.353	5.176	2	425	67.882	10.861	
20:00 - 21:00	2	425	27.647	4.424	2	425	29.647	4.744	2	425	57.294	9.168	
21:00 - 22:00	2	425	25.882	4.141	2	425	26.706	4.273	2	425	52.588	8.414	
22:00 - 23:00													
23:00 - 24:00													
Total Rates:			613.647	98.183			657.294	105.167			1270.941	203.350	

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE MULTI-MODAL PUBLIC TRANSPORT USERS Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

	ARRIVALS					DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	17.529	2.805	2	425	2.941	0.471	2	425	20.470	3.276	
08:00 - 09:00	2	425	22.118	3.539	2	425	1.647	0.264	2	425	23.765	3.803	
09:00 - 10:00	2	425	13.176	2.108	2	425	1.529	0.245	2	425	14.705	2.353	
10:00 - 11:00	2	425	4.824	0.772	2	425	1.765	0.282	2	425	6.589	1.054	
11:00 - 12:00	2	425	4.471	0.715	2	425	1.882	0.301	2	425	6.353	1.016	
12:00 - 13:00	2	425	2.588	0.414	2	425	1.882	0.301	2	425	4.470	0.715	
13:00 - 14:00	2	425	2.235	0.358	2	425	2.471	0.395	2	425	4.706	0.753	
14:00 - 15:00	2	425	0.824	0.132	2	425	1.176	0.188	2	425	2.000	0.320	
15:00 - 16:00	2	425	5.176	0.828	2	425	5.412	0.866	2	425	10.588	1.694	
16:00 - 17:00	2	425	4.588	0.734	2	425	8.941	1.431	2	425	13.529	2.165	
17:00 - 18:00	2	425	7.647	1.224	2	425	8.000	1.280	2	425	15.647	2.504	
18:00 - 19:00	2	425	10.588	1.694	2	425	13.882	2.221	2	425	24.470	3.915	
19:00 - 20:00	2	425	6.235	0.998	2	425	9.412	1.506	2	425	15.647	2.504	
20:00 - 21:00	2	425	6.471	1.035	2	425	5.176	0.828	2	425	11.647	1.863	
21:00 - 22:00	2	425	3.412	0.546	2	425	2.000	0.320	2	425	5.412	0.866	
22:00 - 23:00													
23:00 - 24:00													
Total Rates:			111.882	17.902			68.116	10.899			179.998	28.801	

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE MULTI - MODAL TOTAL PEOPLE Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

		A	RRIVALS			DEF	PARTURES			٦	OTALS	
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	29.647	4.744	2	425	28.706	4.593	2	425	58.353	9.337
08:00 - 09:00	2	425	40.941	6.551	2	425	39.294	6.287	2	425	80.235	12.838
09:00 - 10:00	2	425	42.588	6.814	2	425	44.353	7.096	2	425	86.941	13.910
10:00 - 11:00	2	425	38.824	6.212	2	425	37.412	5.986	2	425	76.236	12.198
11:00 - 12:00	2	425	38.353	6.136	2	425	37.882	6.061	2	425	76.235	12.197
12:00 - 13:00	2	425	84.941	13.591	2	425	83.294	13.327	2	425	168.235	26.918
13:00 - 14:00	2	425	100.118	16.019	2	425	102.941	16.471	2	425	203.059	32.490
14:00 - 15:00	2	425	59.294	9.487	2	425	59.765	9.562	2	425	119.059	19.049
15:00 - 16:00	2	425	50.588	8.094	2	425	49.647	7.944	2	425	100.235	16.038
16:00 - 17:00	2	425	43.059	6.889	2	425	43.765	7.002	2	425	86.824	13.891
17:00 - 18:00	2	425	50.941	8.151	2	425	49.529	7.925	2	425	100.470	16.076
18:00 - 19:00	2	425	57.059	9.129	2	425	58.471	9.355	2	425	115.530	18.484
19:00 - 20:00	2	425	42.824	6.852	2	425	42.235	6.758	2	425	85.059	13.610
20:00 - 21:00	2	425	37.176	5.948	2	425	38.471	6.155	2	425	75.647	12.103
21:00 - 22:00	2	425	30.235	4.838	2	425	29.882	4.781	2	425	60.117	9.619
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			746.588	119.455			745.647	119.303			1492.235	238.758

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE MULTI-MODAL CARS Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

		AR	RIVALS		DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	0.706	0.113	2	425	0.235	0.038	2	425	0.941	0.151
08:00 - 09:00	2	425	0.471	0.075	2	425	0.235	0.038	2	425	0.706	0.113
09:00 - 10:00	2	425	0.353	0.056	2	425	0.471	0.075	2	425	0.824	0.131
10:00 - 11:00	2	425	0.706	0.113	2	425	0.353	0.056	2	425	1.059	0.169
11:00 - 12:00	2	425	0.588	0.094	2	425	0.235	0.038	2	425	0.823	0.132
12:00 - 13:00	2	425	0.353	0.056	2	425	0.588	0.094	2	425	0.941	0.150
13:00 - 14:00	2	425	0.000	0.000	2	425	0.118	0.019	2	425	0.118	0.019
14:00 - 15:00	2	425	0.000	0.000	2	425	0.235	0.038	2	425	0.235	0.038
15:00 - 16:00	2	425	0.353	0.056	2	425	0.118	0.019	2	425	0.471	0.075
16:00 - 17:00	2	425	1.176	0.188	2	425	0.588	0.094	2	425	1.764	0.282
17:00 - 18:00	2	425	0.588	0.094	2	425	0.941	0.151	2	425	1.529	0.245
18:00 - 19:00	2	425	0.471	0.075	2	425	0.941	0.151	2	425	1.412	0.226
19:00 - 20:00	2	425	0.235	0.038	2	425	0.235	0.038	2	425	0.470	0.076
20:00 - 21:00	2	425	1.647	0.264	2	425	1.882	0.301	2	425	3.529	0.565
21:00 - 22:00	2	425	0.706	0.113	2	425	0.471	0.075	2	425	1.177	0.188
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			8.353	1.335			7.646	1.225			15.999	2.560

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE MULTI-MODAL Servicing Vehicles Calculation factor: 100 sqm Estimated TRIP rate value per 16 SQM shown in shaded columns BOLD print indicates peak (busiest) period

	ARRIVALS					DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	
Time Range	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	Trip Rate	Days	GFA	Rate	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	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
08:00 - 09:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000	
09:00 - 10:00	2	425	0.353	0.056	2	425	0.353	0.056	2	425	0.706	0.112	
10:00 - 11:00	2	425	0.588	0.094	2	425	0.588	0.094	2	425	1.176	0.188	
11:00 - 12:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000	
12:00 - 13:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
13:00 - 14:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
14:00 - 15:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000	
15:00 - 16:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
16:00 - 17:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
17:00 - 18:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
18:00 - 19:00	2	425	0.118	0.019	2	425	0.118	0.019	2	425	0.236	0.038	
19:00 - 20:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000	
20:00 - 21:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000	
21:00 - 22:00	2	425	0.000	0.000	2	425	0.000	0.000	2	425	0.000	0.000	
22:00 - 23:00													
23:00 - 24:00													
Total Rates:			1.767	0.283			1.767	0.283			3.534	0.566	

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.



APPENDIX B

Calculation Reference: AUDIT-728001-210811-0845

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL Category : C - FLATS PRIVATELY OWNED MULTI-MODAL TOTAL VEHICLES

Selected regions and areas: 01 GREATED LONDON

GREA	IER LONDON	
BM	BROMLEY	1 days
HM	HAMMERSMITH AND FULHAM	1 days
IS	ISLINGTON	3 days
SK	SOUTHWARK	2 days

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

Primary 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: Actual Range: Range Selected by User:	No of Dv 14 to 19 9 to 493	vellings 4 (units:) (units:)
Parking Spaces Range:	All Surve	eys Included
Parking Spaces per Dwellin	g Range:	All Surveys Included
Bedrooms per Dwelling Rar	ige:	All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/13 to 06/03/20

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.

<u>Selected survey days:</u>	
Monday	2 days
Tuesday	1 days
Wednesday	1 days
Thursday	2 days
Friday	1 days

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

<u>Selected survey types:</u>	
Manual count	7 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 undertaking using machines.

<u>Selected Locations:</u>	
Town Centre	2
Edge of Town Centre	5

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	1
Built-Up Zone	5

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:

<u>*Use Class:*</u> C3

7 days

7 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®.

Population within 500m Range:	
All Surveys Included	
Population within 1 mile:	
25,001 to 50,000	1 days
50,001 to 100,000	3 days
100,001 or More	3 days

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

Population within 5 miles:	
500,001 or More	

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

Car ownership within 5 miles:	
0.5 or Less	5 days
0.6 to 1.0	2 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.

3 days
4 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:6a Excellent4 days6b (High) Excellent3 days

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

				Page 3
RGP	Mill F	Pool House Godalming		Licence No: 728001
	LIST	T OF SITES relevant to selection parameters		
	1	BM-03-C-01 BLOCKS OF FLATS RINGER'S ROAD BROMLEY		BROMLEY
	2	Town Centre Built-Up Zone Total No of Dwellings: <i>Survey date: MONDAY</i> HM-03-C-02 BLOCKS OF FLATS GLENTHORNE ROAD HAMMERSMITH	160 <i>12/11/18</i>	<i>Survey Type: MANUAL</i> HAMMERSMITH AND FULHAM
	3	Town Centre Built-Up Zone Total No of Dwellings: <i>Survey date: TUESDAY</i> I S-03-C-04 BLOCK OF FLATS CITY ROAD ISLINGTON	194 <i>30/04/19</i>	<i>Survey Type: MANUAL</i> ISLINGTON
	4	Edge of Town Centre Development Zone Total No of Dwellings: <i>Survey date: THURSDAY</i> I S-03-C-05 BLOCK OF FLATS LEVER STREET FINSBURY	157 <i>14/07/16</i>	<i>Survey Type: MANUAL</i> ISLINGTON
	5	Edge of Town Centre Built-Up Zone Total No of Dwellings: <i>Survey date: WEDNESDAY</i> I S-03-C-06 BLOCK OF FLATS CALEDONIAN ROAD HOLLOWAY	15 <i>29/06/16</i>	<i>Survey Type: MANUAL</i> ISLINGTON
	6	Edge of Town Centre Residential Zone Total No of Dwellings: <i>Survey date: MONDAY</i> SK-03-C-01 BLOCK OF FLATS PARK STREET SOUTHWARK	14 <i>27/06/16</i>	<i>Survey Type: MANUAL</i> SOUTHWARK
	7	Edge of Town Centre Built-Up Zone Total No of Dwellings: <i>Survey date: FRIDAY</i> SK-03-C-02 LAMB WALK BERMONDSEY	53 <i>19/09/14</i>	<i>Survey Type: MANUAL</i> SOUTHWARK
		Edge of Town Centre Built-Up Zone Total No of Dwellings: <i>Survey date: THURSDAY</i>	29 <i>23/04/15</i>	Survey Type: MANUAL

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Wednesday 11/08/21

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 MULTI-MODAL TOTAL VEHICLES Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

		AF	RIVALS			DEP	ARTURES		TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.026	0.000	7	89	0.047	0.000	7	89	0.073	0.000
08:00 - 09:00	7	89	0.016	0.000	7	89	0.039	0.000	7	89	0.055	0.000
09:00 - 10:00	7	89	0.032	0.000	7	89	0.035	0.000	7	89	0.067	0.000
10:00 - 11:00	7	89	0.034	0.000	7	89	0.026	0.000	7	89	0.060	0.000
11:00 - 12:00	7	89	0.021	0.000	7	89	0.034	0.000	7	89	0.055	0.000
12:00 - 13:00	7	89	0.026	0.000	7	89	0.034	0.000	7	89	0.060	0.000
13:00 - 14:00	7	89	0.032	0.000	7	89	0.035	0.000	7	89	0.067	0.000
14:00 - 15:00	7	89	0.013	0.000	7	89	0.014	0.000	7	89	0.027	0.000
15:00 - 16:00	7	89	0.031	0.000	7	89	0.023	0.000	7	89	0.054	0.000
16:00 - 17:00	7	89	0.040	0.000	7	89	0.032	0.000	7	89	0.072	0.000
17:00 - 18:00	7	89	0.032	0.000	7	89	0.019	0.000	7	89	0.051	0.000
18:00 - 19:00	7	89	0.045	0.000	7	89	0.037	0.000	7	89	0.082	0.000
19:00 - 20:00	6	95	0.033	0.000	6	95	0.028	0.000	6	95	0.061	0.000
20:00 - 21:00	6	95	0.019	0.000	6	95	0.019	0.000	6	95	0.038	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.400	0.000			0.422	0.000			0.822	0.000

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:	14 - 194 (units:)
Survey date date range:	01/01/13 - 06/03/20
Number of weekdays (Monday-Friday):	7
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 MULTI-MODAL TAXIS Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

		AF	RIVALS			DEP	ARTURES		TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.010	0.000	7	89	0.010	0.000	7	89	0.020	0.000
08:00 - 09:00	7	89	0.002	0.000	7	89	0.002	0.000	7	89	0.004	0.000
09:00 - 10:00	7	89	0.005	0.000	7	89	0.006	0.000	7	89	0.011	0.000
10:00 - 11:00	7	89	0.006	0.000	7	89	0.006	0.000	7	89	0.012	0.000
11:00 - 12:00	7	89	0.003	0.000	7	89	0.003	0.000	7	89	0.006	0.000
12:00 - 13:00	7	89	0.002	0.000	7	89	0.002	0.000	7	89	0.004	0.000
13:00 - 14:00	7	89	0.005	0.000	7	89	0.005	0.000	7	89	0.010	0.000
14:00 - 15:00	7	89	0.000	0.000	7	89	0.000	0.000	7	89	0.000	0.000
15:00 - 16:00	7	89	0.002	0.000	7	89	0.002	0.000	7	89	0.004	0.000
16:00 - 17:00	7	89	0.005	0.000	7	89	0.005	0.000	7	89	0.010	0.000
17:00 - 18:00	7	89	0.005	0.000	7	89	0.005	0.000	7	89	0.010	0.000
18:00 - 19:00	7	89	0.006	0.000	7	89	0.006	0.000	7	89	0.012	0.000
19:00 - 20:00	6	95	0.005	0.000	6	95	0.005	0.000	6	95	0.010	0.000
20:00 - 21:00	6	95	0.007	0.000	6	95	0.005	0.000	6	95	0.012	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.063	0.000			0.062	0.000			0.125	0.000

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.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL CYCLISTS Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

		AR	RIVALS			DEP	ARTURES		TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.002	0.000	7	89	0.008	0.000	7	89	0.010	0.000
08:00 - 09:00	7	89	0.000	0.000	7	89	0.016	0.000	7	89	0.016	0.000
09:00 - 10:00	7	89	0.003	0.000	7	89	0.006	0.000	7	89	0.009	0.000
10:00 - 11:00	7	89	0.008	0.000	7	89	0.008	0.000	7	89	0.016	0.000
11:00 - 12:00	7	89	0.002	0.000	7	89	0.000	0.000	7	89	0.002	0.000
12:00 - 13:00	7	89	0.002	0.000	7	89	0.003	0.000	7	89	0.005	0.000
13:00 - 14:00	7	89	0.002	0.000	7	89	0.002	0.000	7	89	0.004	0.000
14:00 - 15:00	7	89	0.006	0.000	7	89	0.002	0.000	7	89	0.008	0.000
15:00 - 16:00	7	89	0.000	0.000	7	89	0.000	0.000	7	89	0.000	0.000
16:00 - 17:00	7	89	0.003	0.000	7	89	0.002	0.000	7	89	0.005	0.000
17:00 - 18:00	7	89	0.008	0.000	7	89	0.002	0.000	7	89	0.010	0.000
18:00 - 19:00	7	89	0.003	0.000	7	89	0.000	0.000	7	89	0.003	0.000
19:00 - 20:00	6	95	0.011	0.000	6	95	0.004	0.000	6	95	0.015	0.000
20:00 - 21:00	6	95	0.005	0.000	6	95	0.002	0.000	6	95	0.007	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.055	0.000			0.055	0.000			0.110	0.000

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.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL PEDESTRIANS Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

		AF	RIVALS			DEP	ARTURES		TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.013	0.000	7	89	0.047	0.000	7	89	0.060	0.000
08:00 - 09:00	7	89	0.040	0.000	7	89	0.129	0.000	7	89	0.169	0.000
09:00 - 10:00	7	89	0.029	0.000	7	89	0.082	0.000	7	89	0.111	0.000
10:00 - 11:00	7	89	0.032	0.000	7	89	0.047	0.000	7	89	0.079	0.000
11:00 - 12:00	7	89	0.061	0.000	7	89	0.045	0.000	7	89	0.106	0.000
12:00 - 13:00	7	89	0.039	0.000	7	89	0.032	0.000	7	89	0.071	0.000
13:00 - 14:00	7	89	0.045	0.000	7	89	0.051	0.000	7	89	0.096	0.000
14:00 - 15:00	7	89	0.040	0.000	7	89	0.051	0.000	7	89	0.091	0.000
15:00 - 16:00	7	89	0.071	0.000	7	89	0.063	0.000	7	89	0.134	0.000
16:00 - 17:00	7	89	0.103	0.000	7	89	0.056	0.000	7	89	0.159	0.000
17:00 - 18:00	7	89	0.071	0.000	7	89	0.064	0.000	7	89	0.135	0.000
18:00 - 19:00	7	89	0.129	0.000	7	89	0.082	0.000	7	89	0.211	0.000
19:00 - 20:00	6	95	0.074	0.000	6	95	0.054	0.000	6	95	0.128	0.000
20:00 - 21:00	6	95	0.067	0.000	6	95	0.062	0.000	6	95	0.129	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.814	0.000			0.865	0.000			1.679	0.000

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.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL PUBLIC TRANSPORT USERS Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

		AR	RIVALS			DEP	ARTURES		TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.018	0.000	7	89	0.196	0.000	7	89	0.214	0.000
08:00 - 09:00	7	89	0.018	0.000	7	89	0.254	0.000	7	89	0.272	0.000
09:00 - 10:00	7	89	0.014	0.000	7	89	0.087	0.000	7	89	0.101	0.000
10:00 - 11:00	7	89	0.029	0.000	7	89	0.059	0.000	7	89	0.088	0.000
11:00 - 12:00	7	89	0.021	0.000	7	89	0.042	0.000	7	89	0.063	0.000
12:00 - 13:00	7	89	0.043	0.000	7	89	0.042	0.000	7	89	0.085	0.000
13:00 - 14:00	7	89	0.048	0.000	7	89	0.032	0.000	7	89	0.080	0.000
14:00 - 15:00	7	89	0.042	0.000	7	89	0.021	0.000	7	89	0.063	0.000
15:00 - 16:00	7	89	0.024	0.000	7	89	0.023	0.000	7	89	0.047	0.000
16:00 - 17:00	7	89	0.037	0.000	7	89	0.032	0.000	7	89	0.069	0.000
17:00 - 18:00	7	89	0.106	0.000	7	89	0.021	0.000	7	89	0.127	0.000
18:00 - 19:00	7	89	0.183	0.000	7	89	0.024	0.000	7	89	0.207	0.000
19:00 - 20:00	6	95	0.151	0.000	6	95	0.014	0.000	6	95	0.165	0.000
20:00 - 21:00	6	95	0.049	0.000	6	95	0.014	0.000	6	95	0.063	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.783	0.000			0.861	0.000			1.644	0.000

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.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL TOTAL PEOPLE Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

		AF	RIVALS			DEP	ARTURES		TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.053	0.000	7	89	0.305	0.000	7	89	0.358	0.000
08:00 - 09:00	7	89	0.074	0.000	7	89	0.450	0.000	7	89	0.524	0.000
09:00 - 10:00	7	89	0.080	0.000	7	89	0.215	0.000	7	89	0.295	0.000
10:00 - 11:00	7	89	0.105	0.000	7	89	0.150	0.000	7	89	0.255	0.000
11:00 - 12:00	7	89	0.103	0.000	7	89	0.125	0.000	7	89	0.228	0.000
12:00 - 13:00	7	89	0.117	0.000	7	89	0.113	0.000	7	89	0.230	0.000
13:00 - 14:00	7	89	0.127	0.000	7	89	0.125	0.000	7	89	0.252	0.000
14:00 - 15:00	7	89	0.105	0.000	7	89	0.090	0.000	7	89	0.195	0.000
15:00 - 16:00	7	89	0.132	0.000	7	89	0.109	0.000	7	89	0.241	0.000
16:00 - 17:00	7	89	0.196	0.000	7	89	0.116	0.000	7	89	0.312	0.000
17:00 - 18:00	7	89	0.223	0.000	7	89	0.111	0.000	7	89	0.334	0.000
18:00 - 19:00	7	89	0.367	0.000	7	89	0.150	0.000	7	89	0.517	0.000
19:00 - 20:00	6	95	0.271	0.000	6	95	0.105	0.000	6	95	0.376	0.000
20:00 - 21:00	6	95	0.142	0.000	6	95	0.091	0.000	6	95	0.233	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			2.095	0.000			2.255	0.000			4.350	0.000

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.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL CARS Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

	ARRIVALS				DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.013	0.000	7	89	0.032	0.000	7	89	0.045	0.000
08:00 - 09:00	7	89	0.006	0.000	7	89	0.031	0.000	7	89	0.037	0.000
09:00 - 10:00	7	89	0.011	0.000	7	89	0.008	0.000	7	89	0.019	0.000
10:00 - 11:00	7	89	0.008	0.000	7	89	0.008	0.000	7	89	0.016	0.000
11:00 - 12:00	7	89	0.011	0.000	7	89	0.014	0.000	7	89	0.025	0.000
12:00 - 13:00	7	89	0.010	0.000	7	89	0.013	0.000	7	89	0.023	0.000
13:00 - 14:00	7	89	0.014	0.000	7	89	0.013	0.000	7	89	0.027	0.000
14:00 - 15:00	7	89	0.008	0.000	7	89	0.008	0.000	7	89	0.016	0.000
15:00 - 16:00	7	89	0.016	0.000	7	89	0.010	0.000	7	89	0.026	0.000
16:00 - 17:00	7	89	0.018	0.000	7	89	0.006	0.000	7	89	0.024	0.000
17:00 - 18:00	7	89	0.026	0.000	7	89	0.013	0.000	7	89	0.039	0.000
18:00 - 19:00	7	89	0.032	0.000	7	89	0.024	0.000	7	89	0.056	0.000
19:00 - 20:00	6	95	0.021	0.000	6	95	0.016	0.000	6	95	0.037	0.000
20:00 - 21:00	6	95	0.011	0.000	6	95	0.012	0.000	6	95	0.023	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.205	0.000			0.208	0.000			0.413	0.000

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.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL Servicing Vehicles Calculation factor: 1 DWELLS Estimated TRIP rate value per 1 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

	ARRIVALS				DEPARTURES				TOTALS			
	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated	No.	Ave.	Trip	Estimated
Time Range	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	Trip Rate	Days	DWELLS	Rate	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	7	89	0.005	0.000	7	89	0.005	0.000	7	89	0.010	0.000
08:00 - 09:00	7	89	0.008	0.000	7	89	0.005	0.000	7	89	0.013	0.000
09:00 - 10:00	7	89	0.011	0.000	7	89	0.013	0.000	7	89	0.024	0.000
10:00 - 11:00	7	89	0.011	0.000	7	89	0.008	0.000	7	89	0.019	0.000
11:00 - 12:00	7	89	0.006	0.000	7	89	0.010	0.000	7	89	0.016	0.000
12:00 - 13:00	7	89	0.010	0.000	7	89	0.010	0.000	7	89	0.020	0.000
13:00 - 14:00	7	89	0.013	0.000	7	89	0.013	0.000	7	89	0.026	0.000
14:00 - 15:00	7	89	0.002	0.000	7	89	0.003	0.000	7	89	0.005	0.000
15:00 - 16:00	7	89	0.010	0.000	7	89	0.008	0.000	7	89	0.018	0.000
16:00 - 17:00	7	89	0.014	0.000	7	89	0.016	0.000	7	89	0.030	0.000
17:00 - 18:00	7	89	0.002	0.000	7	89	0.002	0.000	7	89	0.004	0.000
18:00 - 19:00	7	89	0.005	0.000	7	89	0.005	0.000	7	89	0.010	0.000
19:00 - 20:00	6	95	0.004	0.000	6	95	0.004	0.000	6	95	0.008	0.000
20:00 - 21:00	6	95	0.000	0.000	6	95	0.000	0.000	6	95	0.000	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												
Total Rates:			0.101	0.000			0.102	0.000			0.203	0.000

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.



APPENDIX C

LC4415EW - Accommodation type by car or van availability by number of usual residents aged 17 or over in household

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population	All households
units	Persons
date	2011
area type	2011 output areas
area name	E00004194
no of your regidents in househ	All actogorized Number of your presidents aged 17 or

no of usual residents in househ All categories: Number of usual residents aged 17 or over in household

Cars or Vans	All categories: Accommodation type	Whole house or bungalow	Flat, maisonette, apartment, caravan or other mobile or temporary structure
All categories: Car or van availa	144	16	128
No cars or vans in household	110	6	104
1 car or van in household	32	9	23
2 or more cars or vans in house	2	1	1

In order to protect against disclosure of personal information, records have been swapped between different geographic areas. Some counts will be affected, particularly small counts at the lowest geographies.