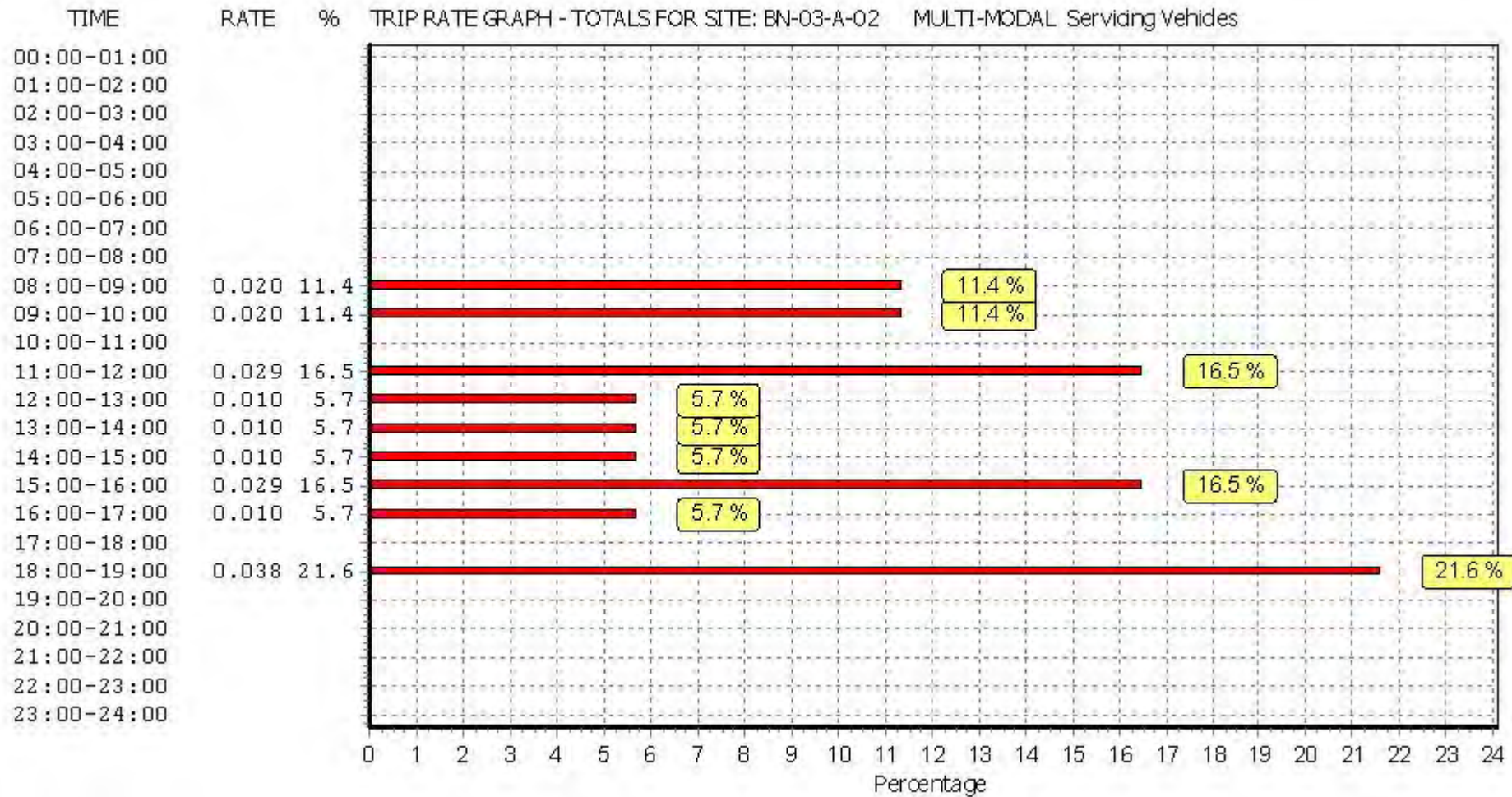


This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.

Calculation Reference: AUDIT-860401-190205-0201

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
 Category : C - INDUSTRIAL UNIT
 VEHICLES

Selected regions and areas:

01 GREATER LONDON
 HD HILLINGDON 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: 1080 to 3912 (units: sqm)
 Range Selected by User: 620 to 6100 (units: sqm)

Parking Spaces Range: Selected: 3 to 156 Actual: 3 to 156

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 10/09/14

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:

Wednesday 1 days
 Friday 1 days

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

Selected survey types:

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 undertaken using machines.

Selected Locations:

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:

Industrial 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 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®.

Secondary Filtering selection (Cont.):

Population within 1 mile:

10,001 to 15,000	1 days
15,001 to 20,000	1 days

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

Population within 5 miles:

125,001 to 250,000	2 days
--------------------	--------

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

Car ownership within 5 miles:

1.1 to 1.5	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.

Travel Plan:

No	2 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	1 days
1b Very poor	1 days

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

LIST OF SITES relevant to selection parameters

- | | | | |
|---|---|-------------------|----------------------------|
| 1 | HD-02-C-01
PUMP LANE
HAYES | TARMAC PRODUCTION | HILLINGDON |
| | Suburban Area (PPS6 Out of Centre)
Industrial Zone | | |
| | Total Gross floor area: | 3912 sqm | |
| | <i>Survey date: FRIDAY</i> | <i>11/05/12</i> | <i>Survey Type: MANUAL</i> |
| 2 | HD-02-C-02
BETAM ROAD
HAYES | WINDOW PRODUCTION | HILLINGDON |
| | Suburban Area (PPS6 Out of Centre)
Industrial Zone | | |
| | Total Gross floor area: | 1080 sqm | |
| | <i>Survey date: WEDNESDAY</i> | <i>05/12/12</i> | <i>Survey Type: MANUAL</i> |

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/C - INDUSTRIAL UNIT
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 - 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	2496	0.661	2	2496	0.561	2	2496	1.222
08:00 - 09:00	2	2496	0.441	2	2496	0.300	2	2496	0.741
09:00 - 10:00	2	2496	0.461	2	2496	0.441	2	2496	0.902
10:00 - 11:00	2	2496	0.541	2	2496	0.481	2	2496	1.022
11:00 - 12:00	2	2496	0.561	2	2496	0.581	2	2496	1.142
12:00 - 13:00	2	2496	0.481	2	2496	0.721	2	2496	1.202
13:00 - 14:00	2	2496	0.300	2	2496	0.421	2	2496	0.721
14:00 - 15:00	2	2496	0.461	2	2496	0.501	2	2496	0.962
15:00 - 16:00	2	2496	0.401	2	2496	0.461	2	2496	0.862
16:00 - 17:00	2	2496	0.321	2	2496	0.401	2	2496	0.722
17:00 - 18:00	2	2496	0.240	2	2496	0.401	2	2496	0.641
18:00 - 19:00	2	2496	0.120	2	2496	0.260	2	2496	0.380
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			4.989			5.530			10.519

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.

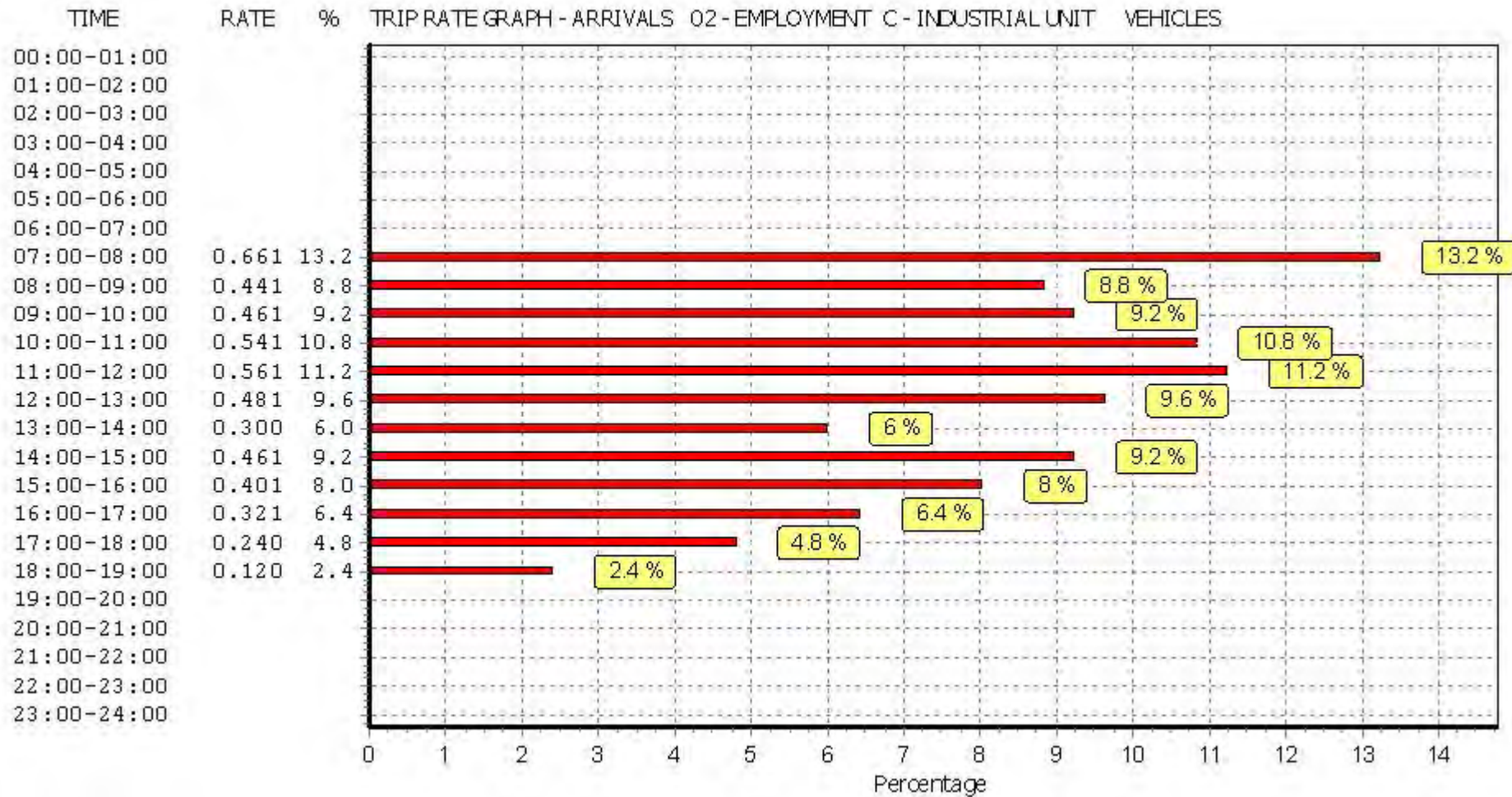
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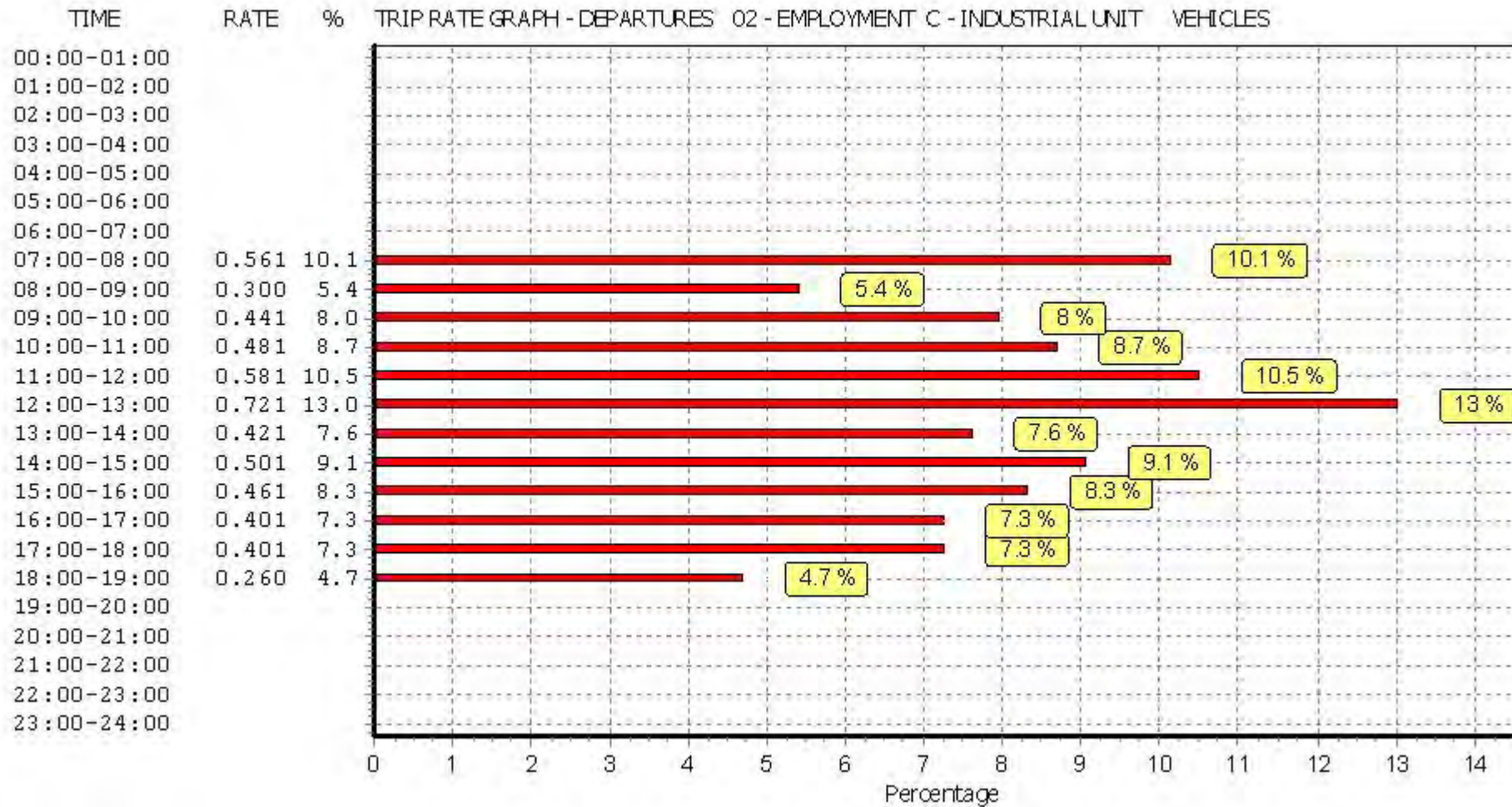
Parameter summary

Trip rate parameter range selected:	1080 - 3912 (units: sqm)
Survey date date range:	01/01/10 - 10/09/14
Number of weekdays (Monday-Friday):	2
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

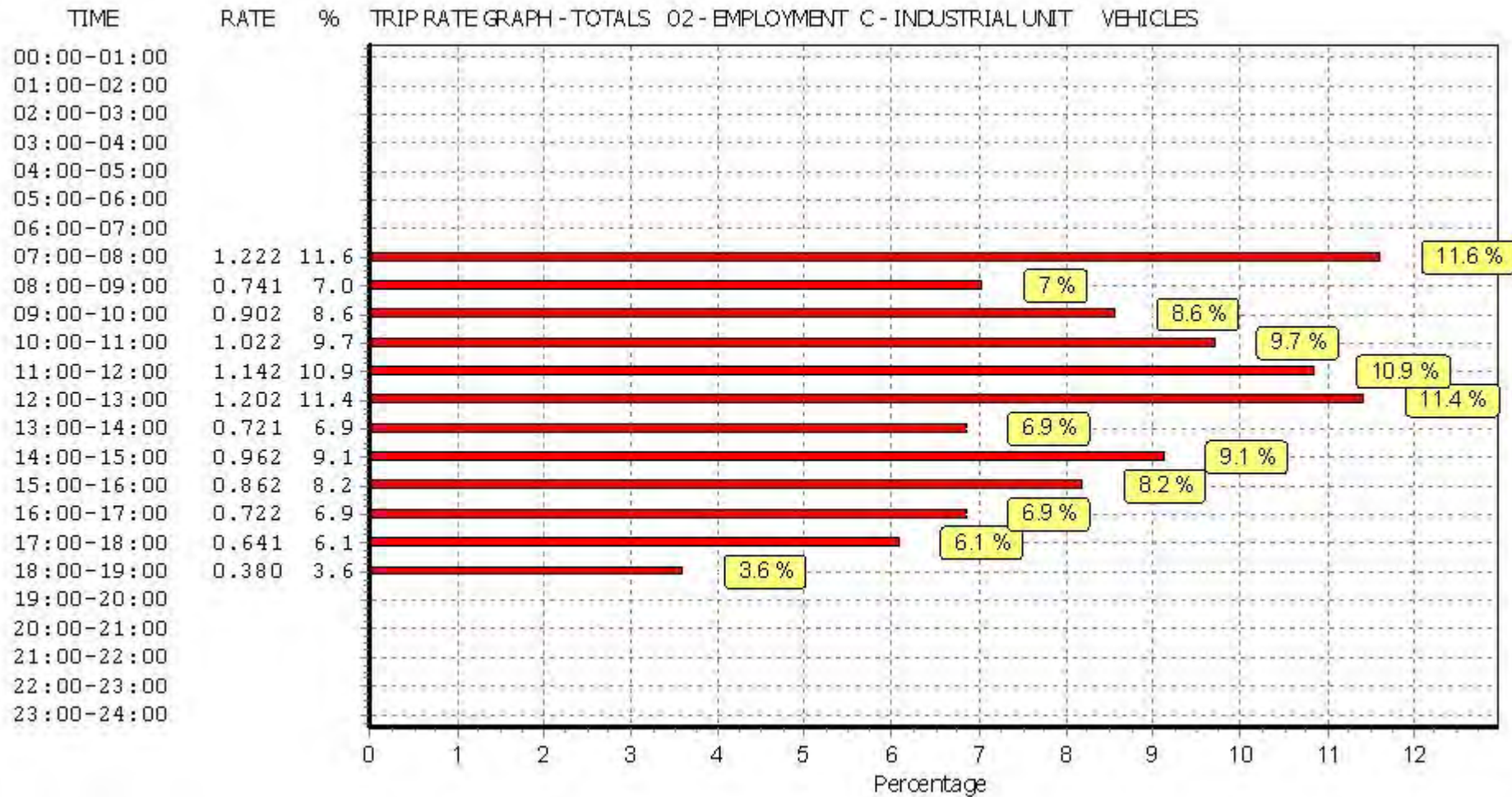
This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected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



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



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TRIP RATE for Land Use 02 - EMPLOYMENT/C - INDUSTRIAL UNIT

OGVS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

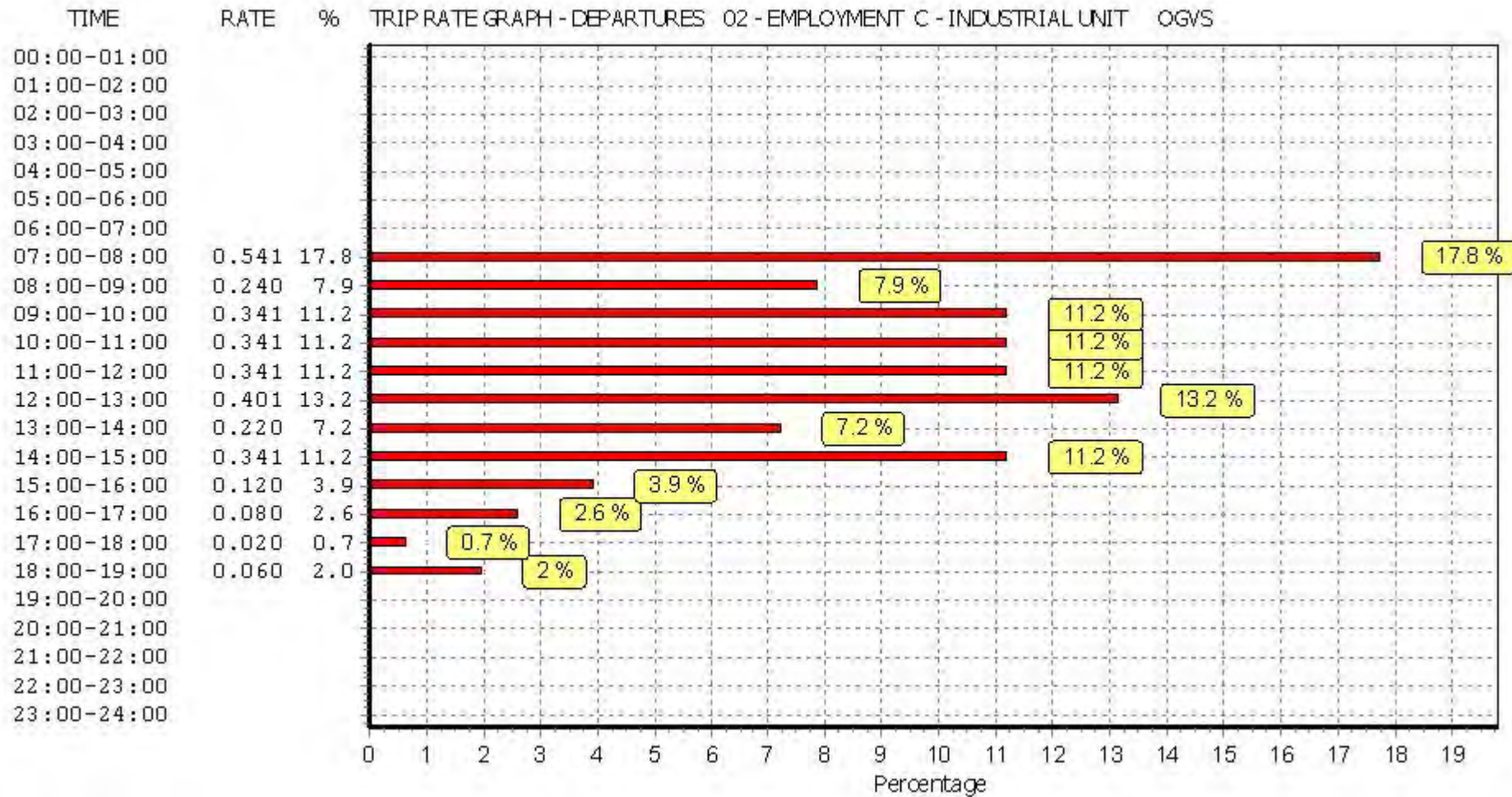
Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	2	2496	0.220	2	2496	0.541	2	2496	0.761
08:00 - 09:00	2	2496	0.120	2	2496	0.240	2	2496	0.360
09:00 - 10:00	2	2496	0.300	2	2496	0.341	2	2496	0.641
10:00 - 11:00	2	2496	0.361	2	2496	0.341	2	2496	0.702
11:00 - 12:00	2	2496	0.361	2	2496	0.341	2	2496	0.702
12:00 - 13:00	2	2496	0.341	2	2496	0.401	2	2496	0.742
13:00 - 14:00	2	2496	0.180	2	2496	0.220	2	2496	0.400
14:00 - 15:00	2	2496	0.401	2	2496	0.341	2	2496	0.742
15:00 - 16:00	2	2496	0.300	2	2496	0.120	2	2496	0.420
16:00 - 17:00	2	2496	0.240	2	2496	0.080	2	2496	0.320
17:00 - 18:00	2	2496	0.080	2	2496	0.020	2	2496	0.100
18:00 - 19:00	2	2496	0.020	2	2496	0.060	2	2496	0.080
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.924			3.046			5.970

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.

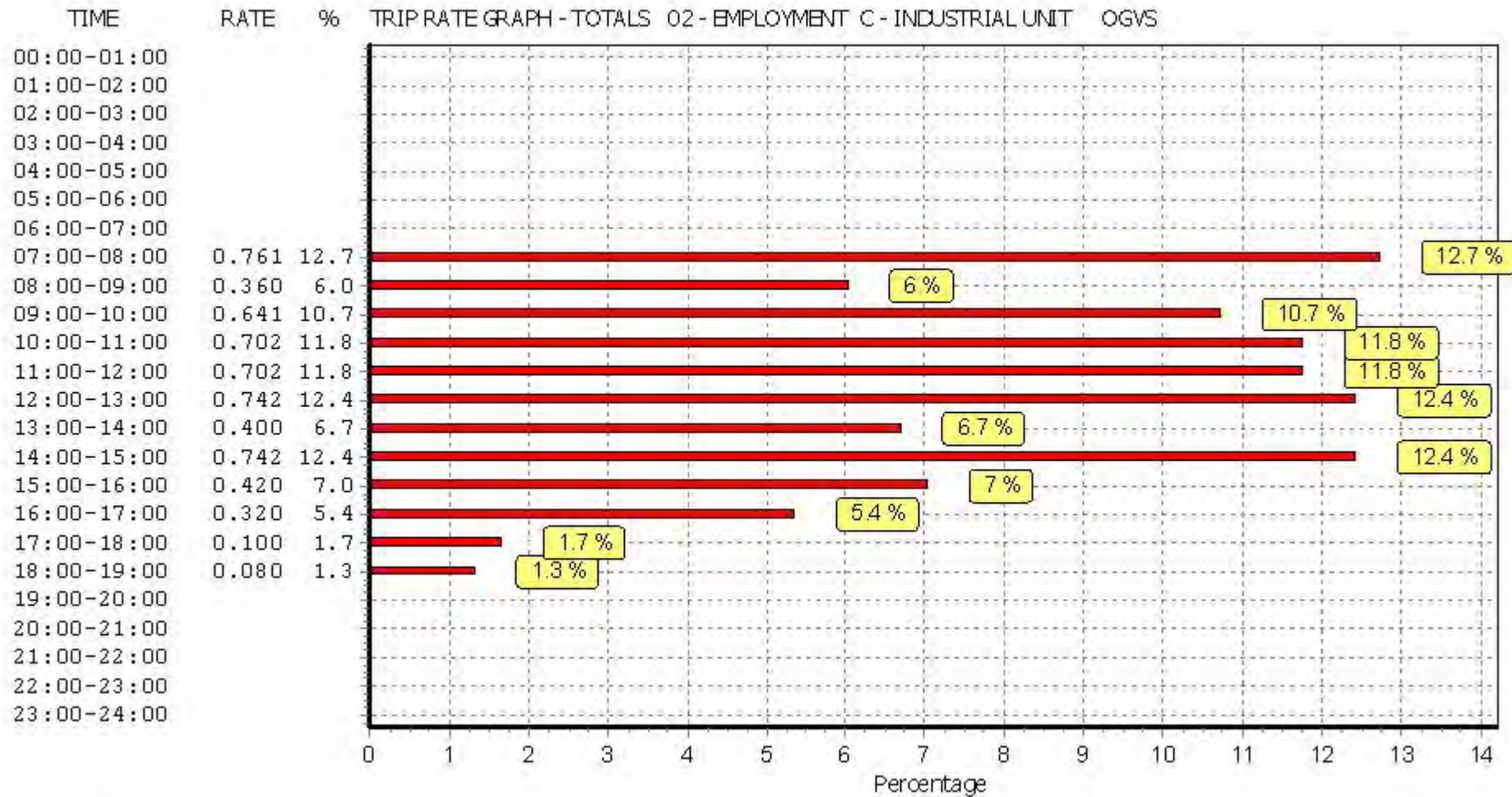
To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected 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.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.

Calculation Reference: AUDIT-860401-190715-0725

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
 Category : A - OFFICE

VEHICLES

Selected regions and areas:

01 GREATER LONDON
 BT BRENT 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: Gross floor area
 Actual Range: 920 to 920 (units: sqm)
 Range Selected by User: 408 to 120000 (units: sqm)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 26/06/18

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:

Wednesday 1 days

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

Selected survey types:

Manual count 1 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:

Suburban Area (PPS6 Out of 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:

Development 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:

B1 1 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 1 mile:

50,001 to 100,000 1 days

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

Secondary Filtering selection (Cont.):

Population within 5 miles:

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 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:

Yes 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:

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 OFFICES BRENT
EMPIRE WAY
WEMBLEY

Suburban Area (PPS6 Out of Centre)
Development Zone

Total Gross floor area: 920 sqm

Survey date: WEDNESDAY

03/06/15

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.

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
BT-02-A-04	NA
HD-02-A-09	NA
HO-02-A-01	NA
WH-02-A-03	NA

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 - 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	1	920	0.000	1	920	0.000	1	920	0.000
08:00 - 09:00	1	920	0.326	1	920	0.000	1	920	0.326
09:00 - 10:00	1	920	0.435	1	920	0.000	1	920	0.435
10:00 - 11:00	1	920	0.000	1	920	0.000	1	920	0.000
11:00 - 12:00	1	920	0.000	1	920	0.000	1	920	0.000
12:00 - 13:00	1	920	0.217	1	920	0.217	1	920	0.434
13:00 - 14:00	1	920	0.217	1	920	0.217	1	920	0.434
14:00 - 15:00	1	920	0.109	1	920	0.326	1	920	0.435
15:00 - 16:00	1	920	0.109	1	920	0.109	1	920	0.218
16:00 - 17:00	1	920	0.109	1	920	0.000	1	920	0.109
17:00 - 18:00	1	920	0.109	1	920	0.435	1	920	0.544
18:00 - 19:00	1	920	0.000	1	920	0.109	1	920	0.109
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.631			1.413			3.044

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.

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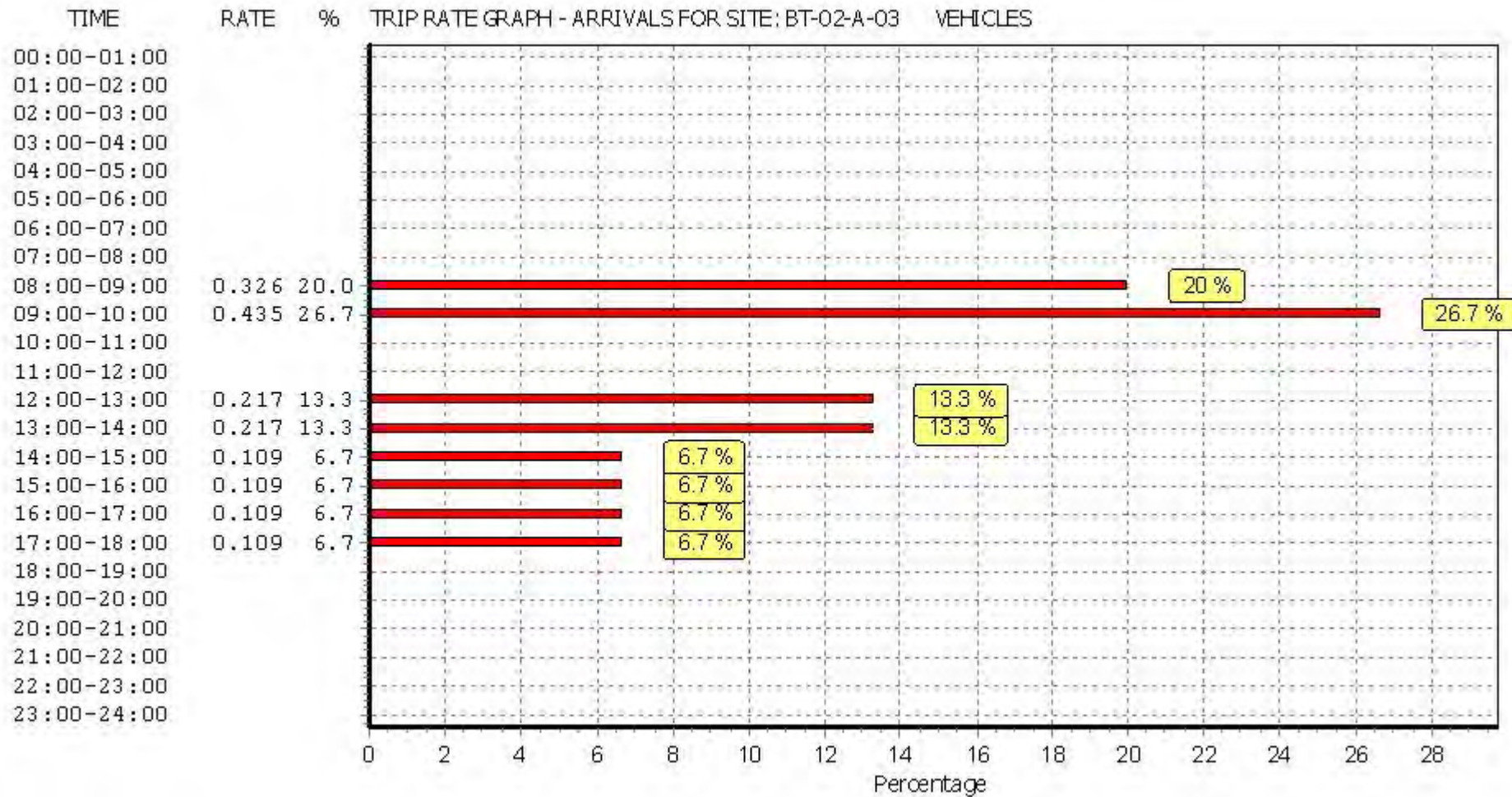
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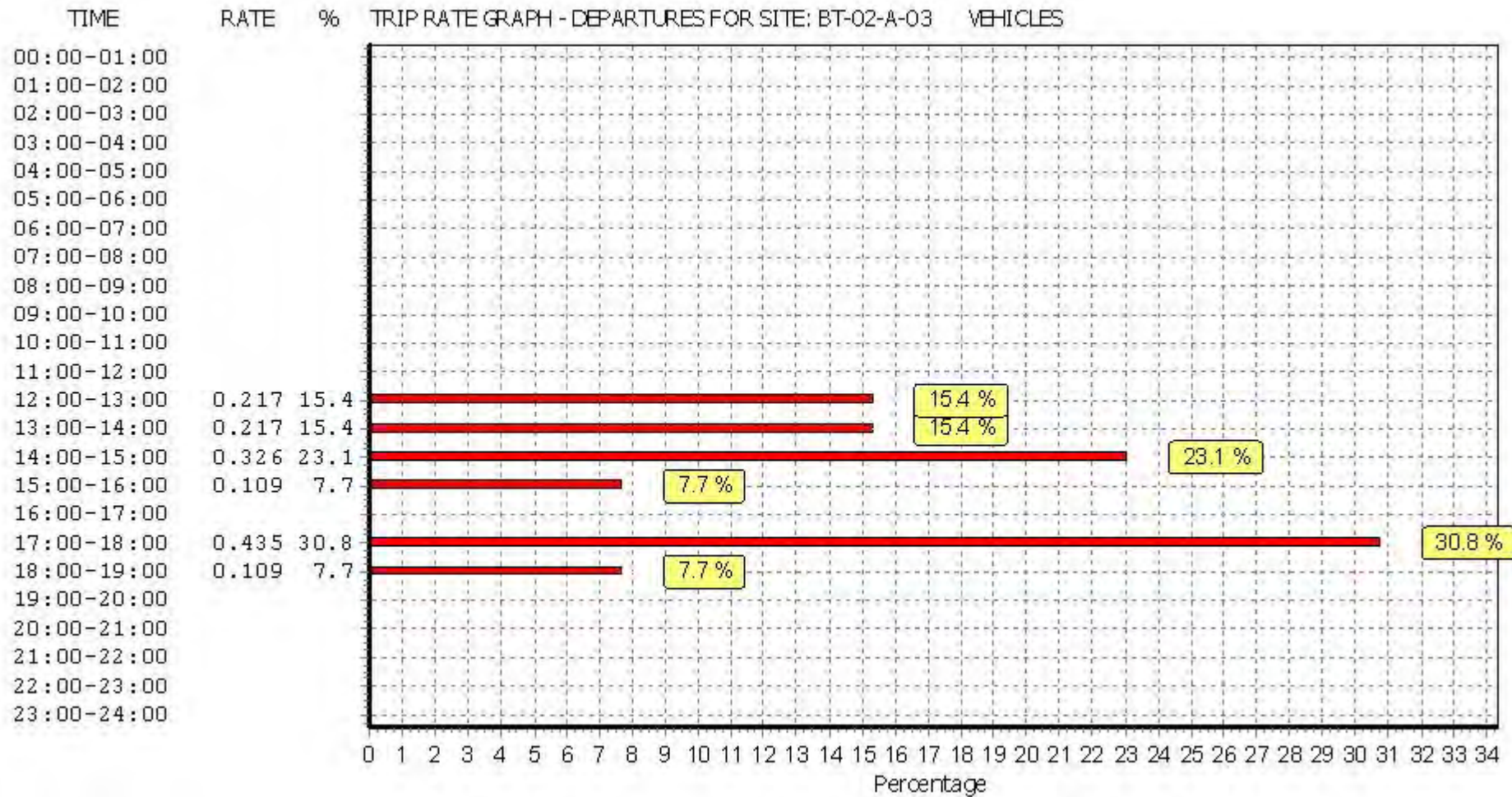
Parameter summary

Trip rate parameter range selected:	920 - 920 (units: sqm)
Survey date date range:	01/01/11 - 26/06/18
Number of weekdays (Monday-Friday):	1
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	3
Surveys manually removed from selection:	4

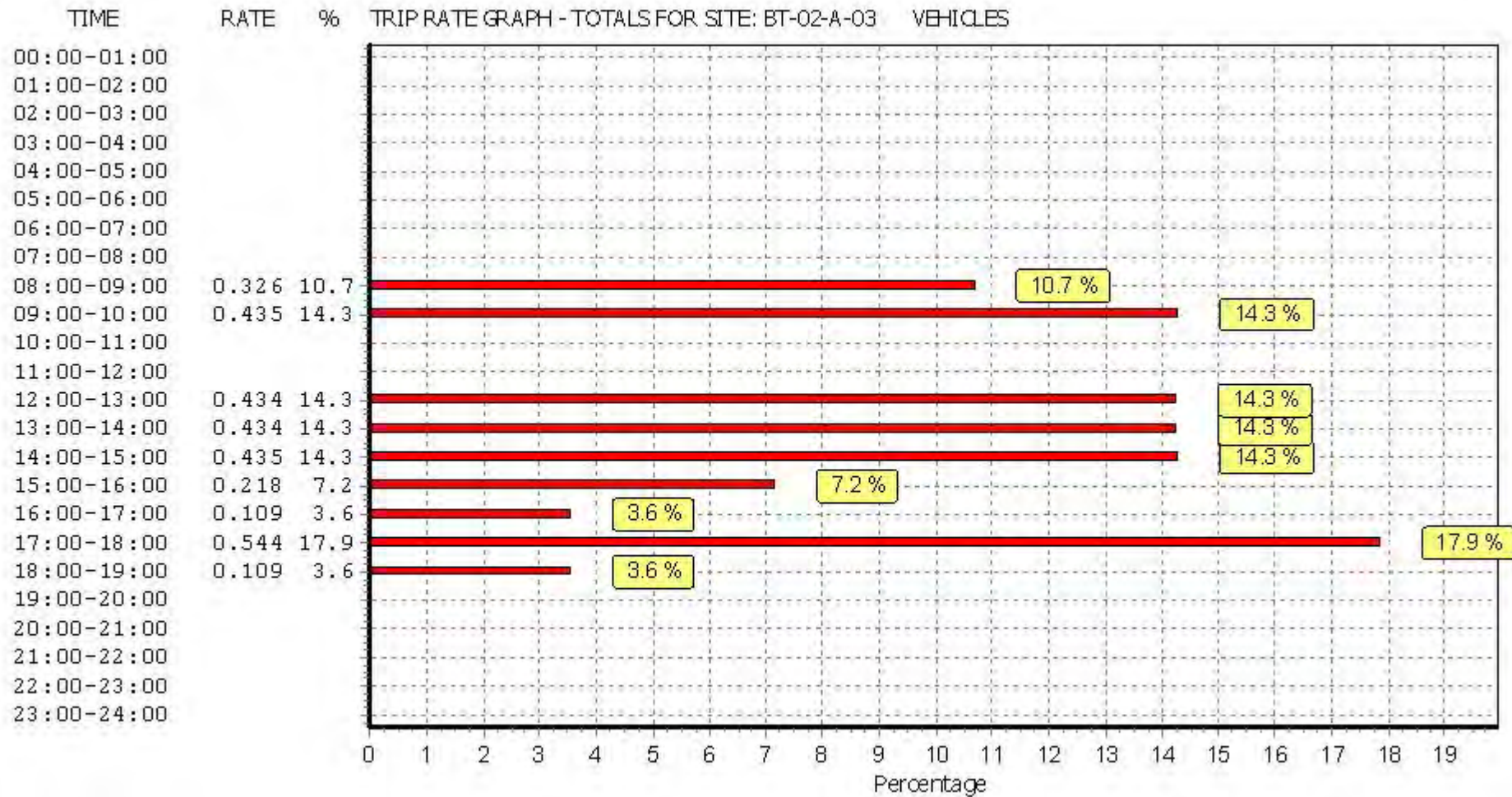
This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected 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.



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This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.

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

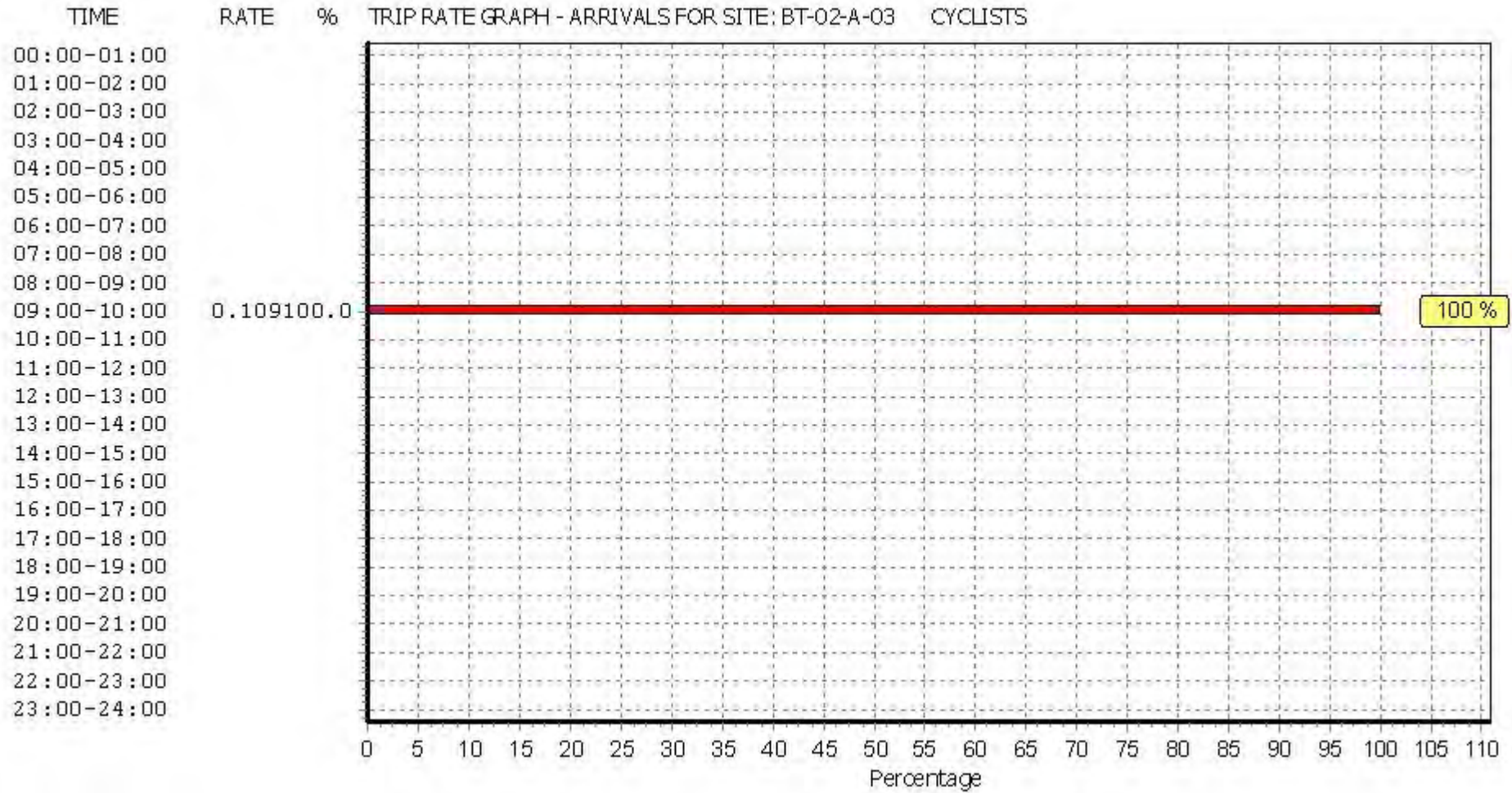
Calculation factor: 100 sqm

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 - 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	1	920	0.000	1	920	0.000	1	920	0.000
08:00 - 09:00	1	920	0.000	1	920	0.000	1	920	0.000
09:00 - 10:00	1	920	0.109	1	920	0.000	1	920	0.109
10:00 - 11:00	1	920	0.000	1	920	0.000	1	920	0.000
11:00 - 12:00	1	920	0.000	1	920	0.000	1	920	0.000
12:00 - 13:00	1	920	0.000	1	920	0.000	1	920	0.000
13:00 - 14:00	1	920	0.000	1	920	0.000	1	920	0.000
14:00 - 15:00	1	920	0.000	1	920	0.000	1	920	0.000
15:00 - 16:00	1	920	0.000	1	920	0.000	1	920	0.000
16:00 - 17:00	1	920	0.000	1	920	0.000	1	920	0.000
17:00 - 18:00	1	920	0.000	1	920	0.109	1	920	0.109
18:00 - 19:00	1	920	0.000	1	920	0.000	1	920	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.109			0.109			0.218

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.

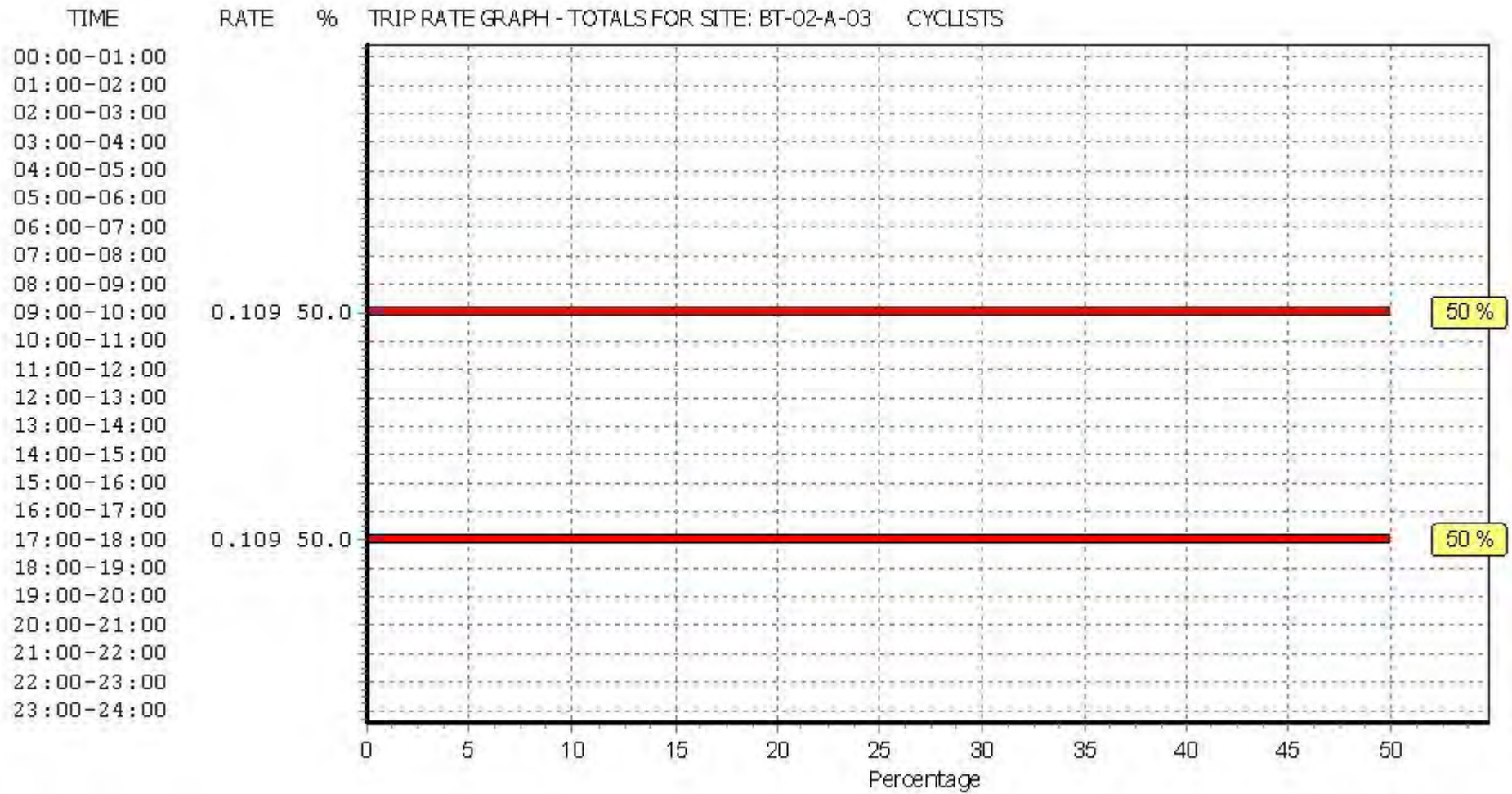
To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected 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.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.

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

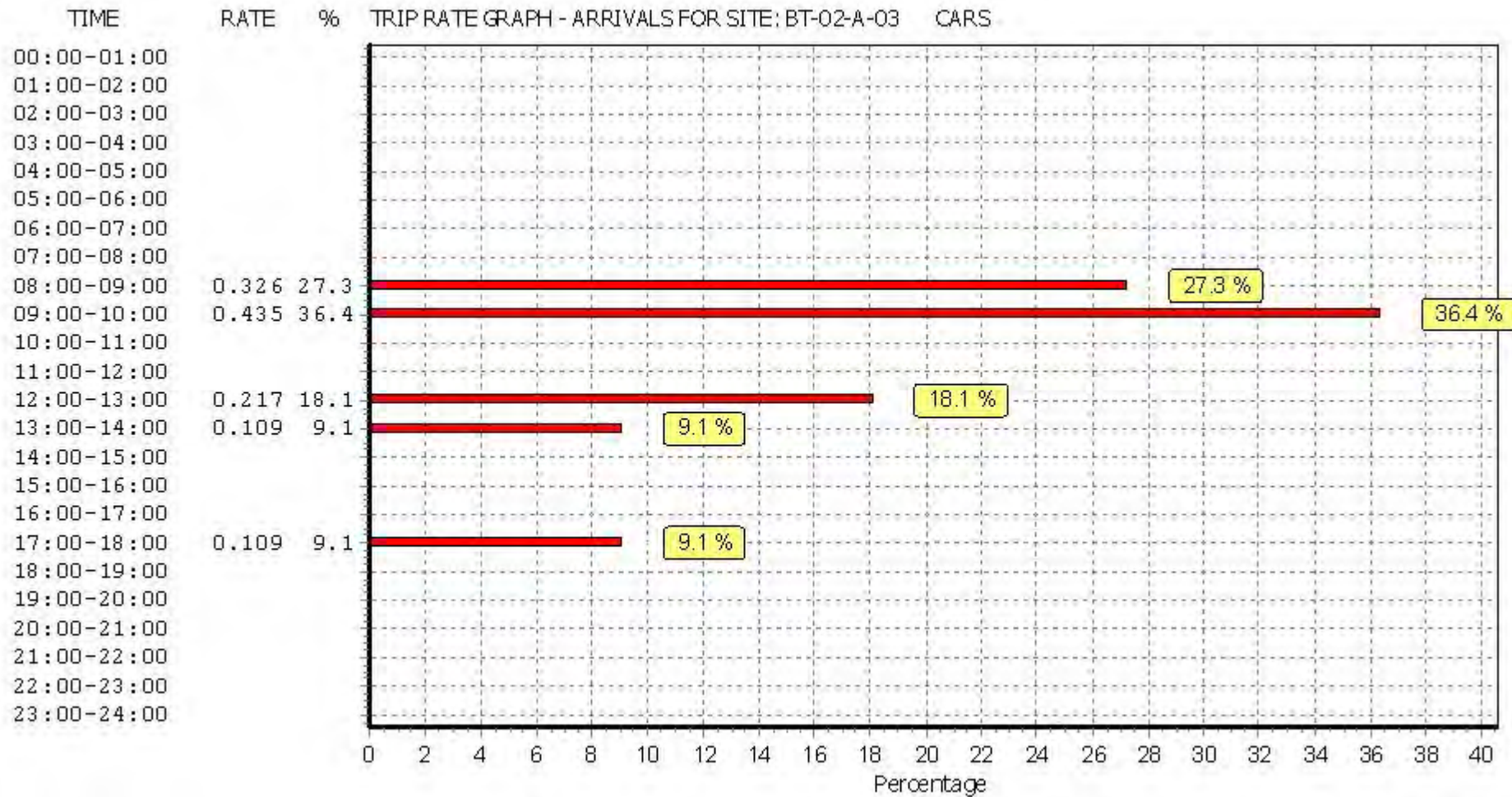
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

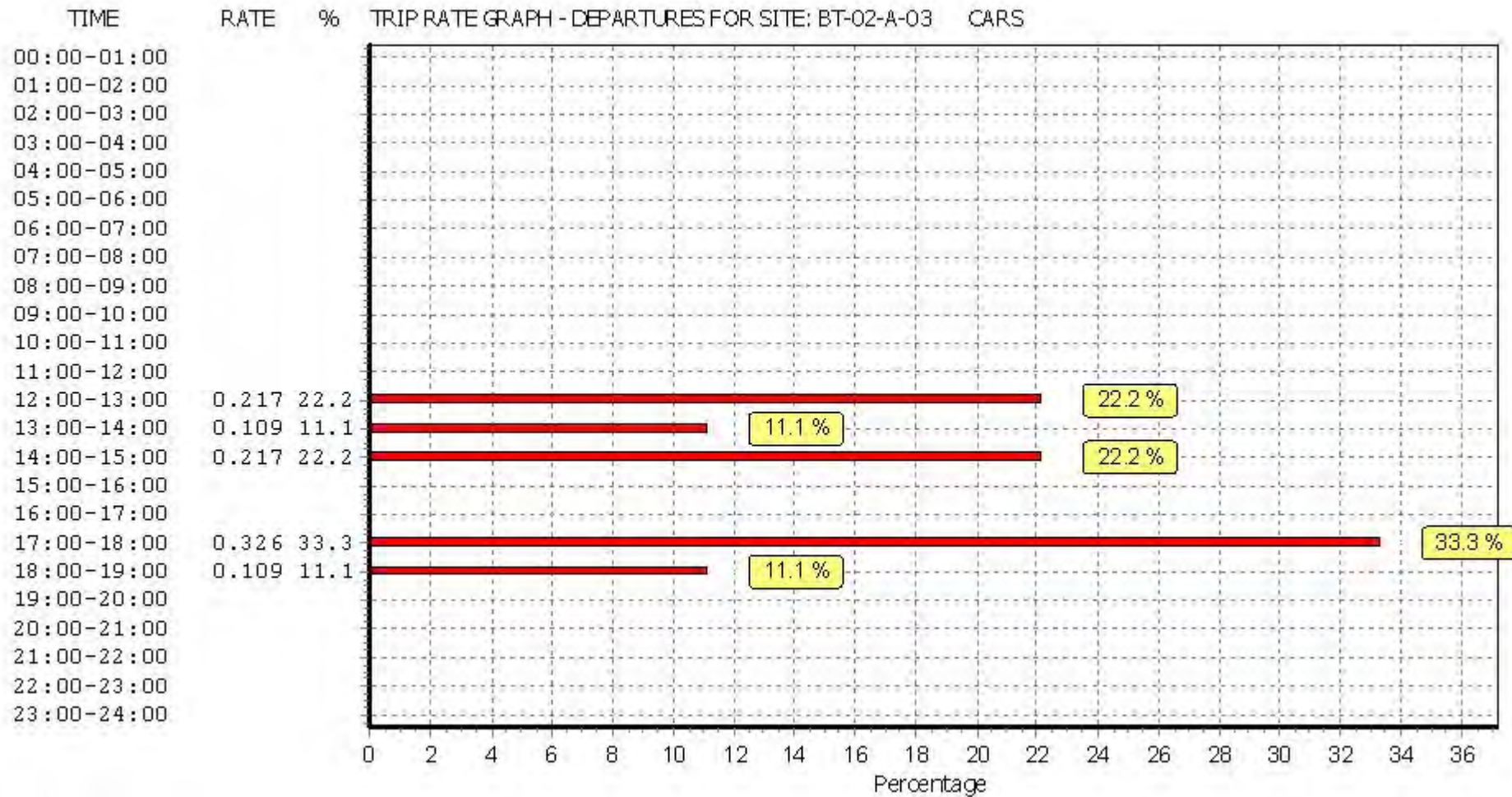
Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	1	920	0.000	1	920	0.000	1	920	0.000
08:00 - 09:00	1	920	0.326	1	920	0.000	1	920	0.326
09:00 - 10:00	1	920	0.435	1	920	0.000	1	920	0.435
10:00 - 11:00	1	920	0.000	1	920	0.000	1	920	0.000
11:00 - 12:00	1	920	0.000	1	920	0.000	1	920	0.000
12:00 - 13:00	1	920	0.217	1	920	0.217	1	920	0.434
13:00 - 14:00	1	920	0.109	1	920	0.109	1	920	0.218
14:00 - 15:00	1	920	0.000	1	920	0.217	1	920	0.217
15:00 - 16:00	1	920	0.000	1	920	0.000	1	920	0.000
16:00 - 17:00	1	920	0.000	1	920	0.000	1	920	0.000
17:00 - 18:00	1	920	0.109	1	920	0.326	1	920	0.435
18:00 - 19:00	1	920	0.000	1	920	0.109	1	920	0.109
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.196			0.978			2.174

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.

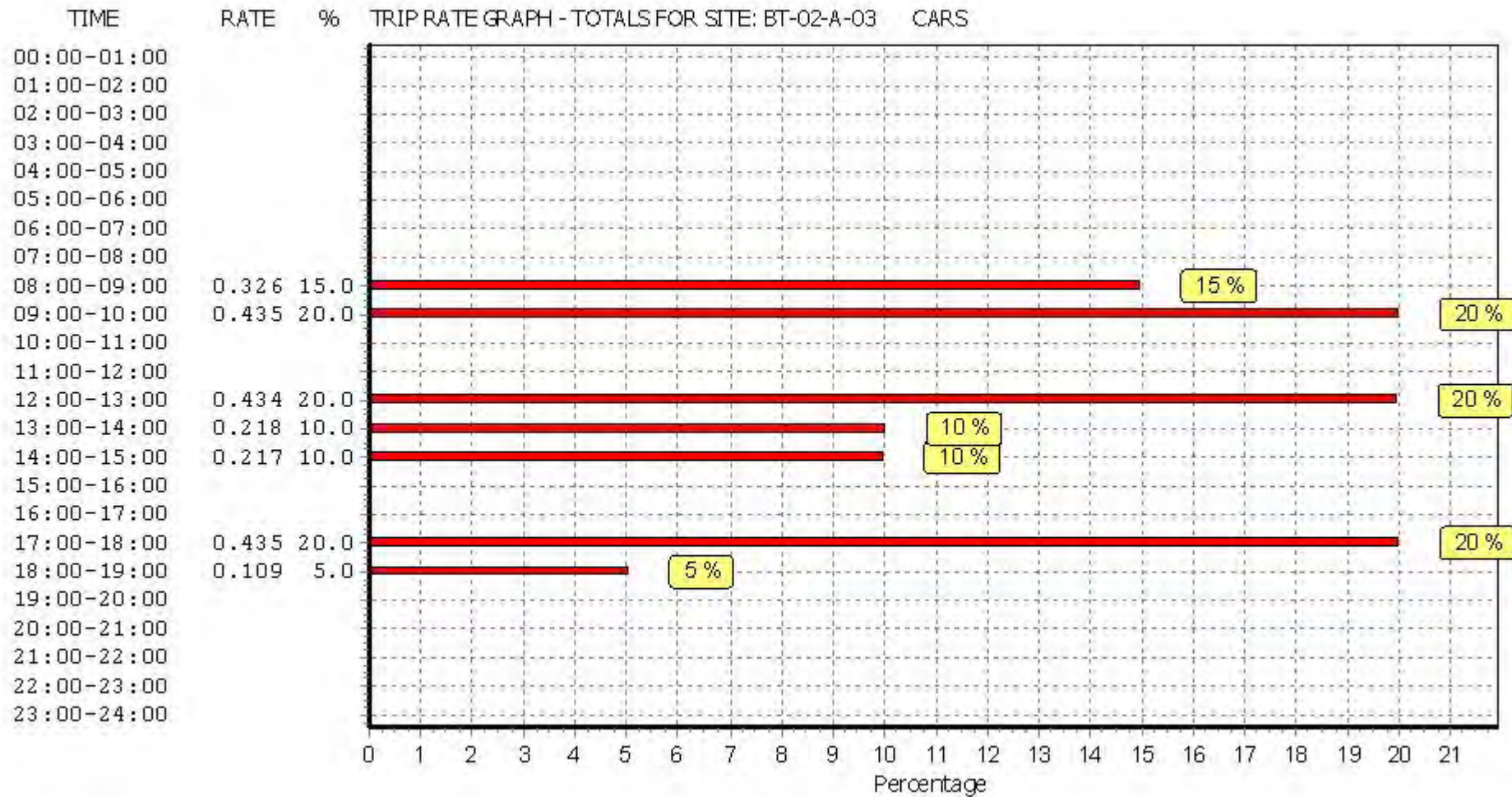
*To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected 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.*



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.

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

LGVS

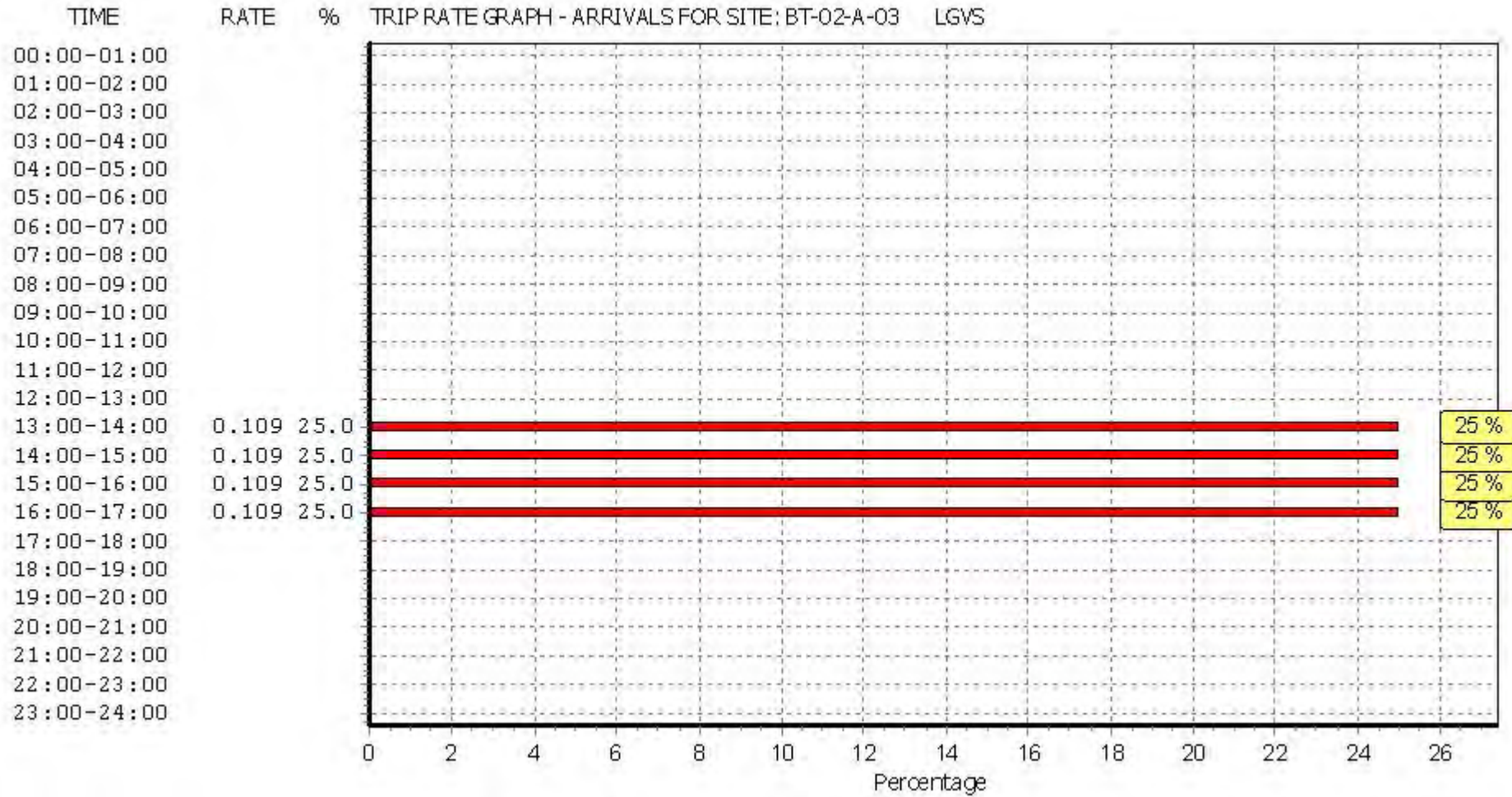
Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

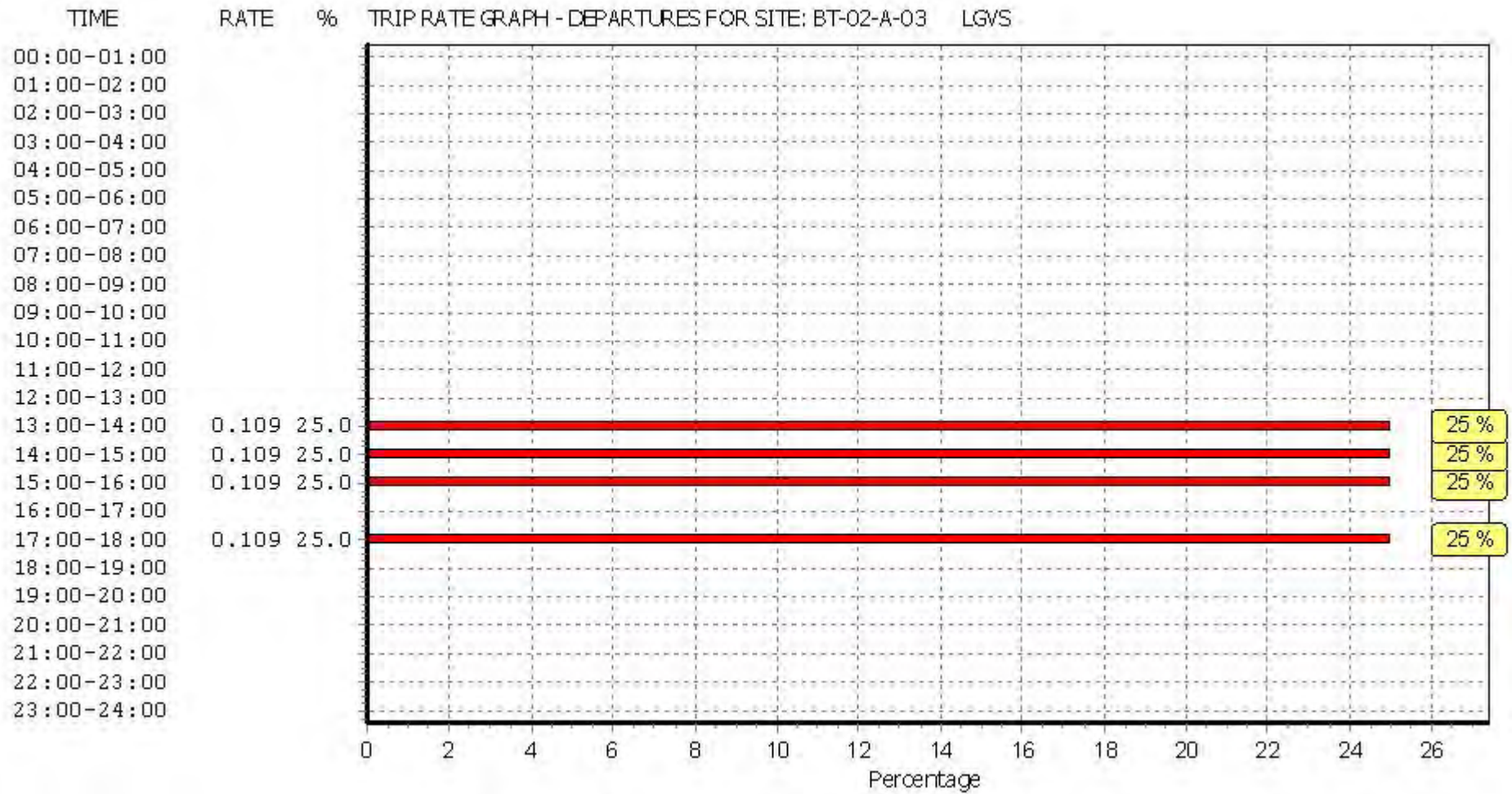
Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	1	920	0.000	1	920	0.000	1	920	0.000
08:00 - 09:00	1	920	0.000	1	920	0.000	1	920	0.000
09:00 - 10:00	1	920	0.000	1	920	0.000	1	920	0.000
10:00 - 11:00	1	920	0.000	1	920	0.000	1	920	0.000
11:00 - 12:00	1	920	0.000	1	920	0.000	1	920	0.000
12:00 - 13:00	1	920	0.000	1	920	0.000	1	920	0.000
13:00 - 14:00	1	920	0.109	1	920	0.109	1	920	0.218
14:00 - 15:00	1	920	0.109	1	920	0.109	1	920	0.218
15:00 - 16:00	1	920	0.109	1	920	0.109	1	920	0.218
16:00 - 17:00	1	920	0.109	1	920	0.000	1	920	0.109
17:00 - 18:00	1	920	0.000	1	920	0.109	1	920	0.109
18:00 - 19:00	1	920	0.000	1	920	0.000	1	920	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.436			0.436			0.872

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.

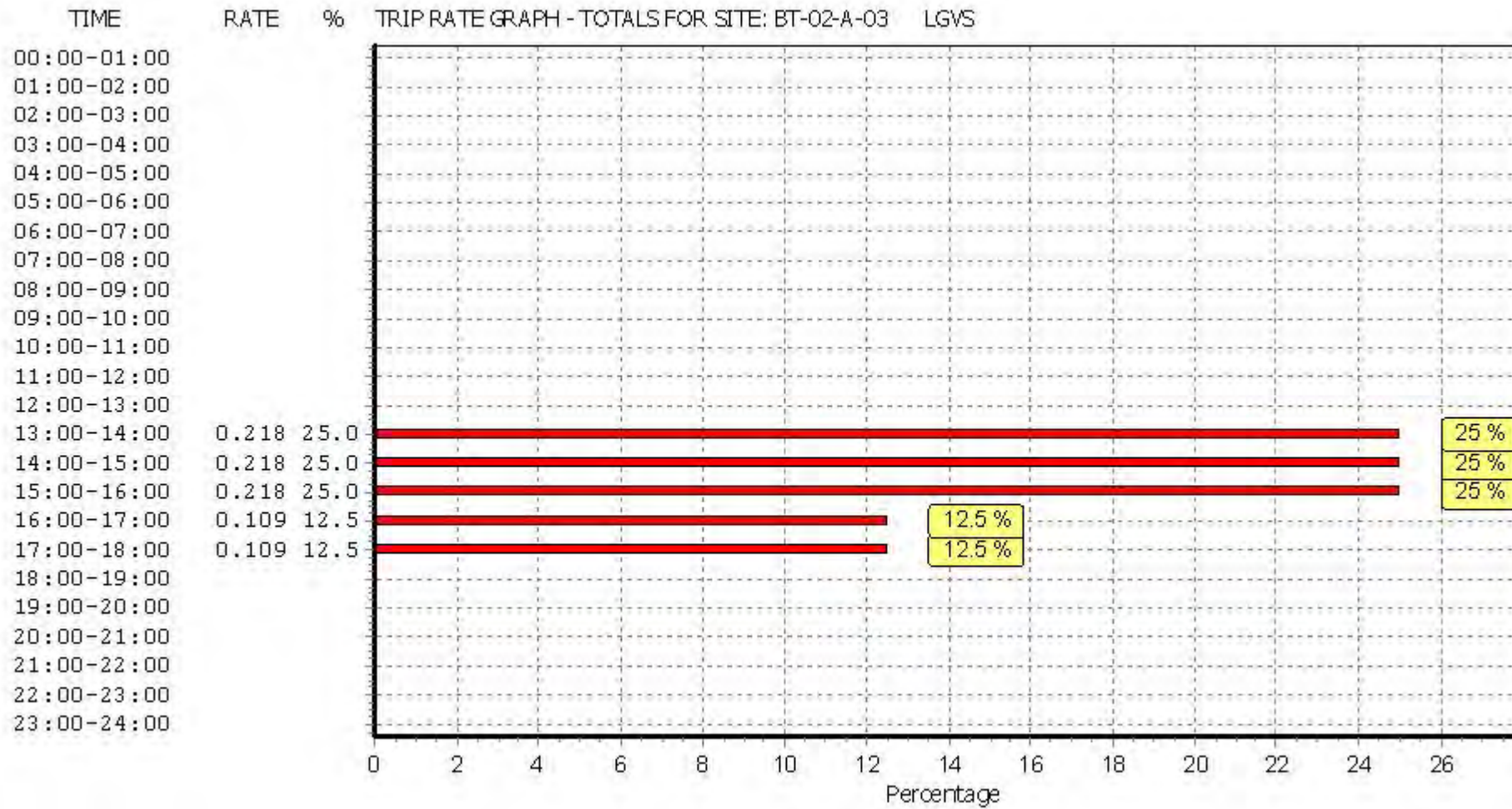
To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected 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.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.



This graph is a visual representation of the trip rate calculation results screen. The same time periods and trip rates are displayed, but in addition there is an additional column showing the percentage of the total trip rate by individual time period, allowing peak periods to be easily identified through observation. Note that the type of count and the selected direction is shown at the top of the graph.

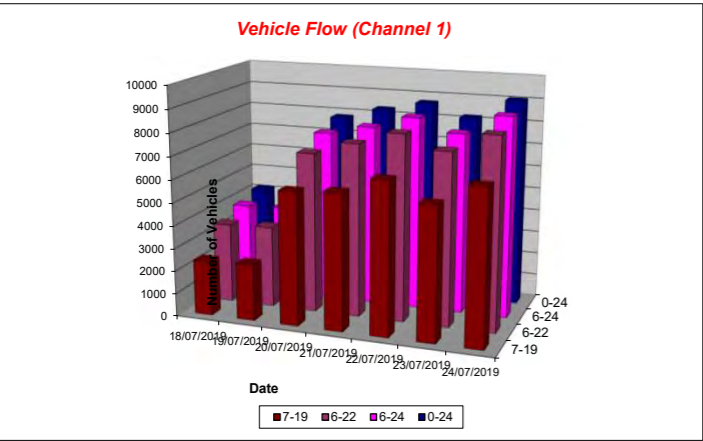
APPENDIX I – AUTOMATIC TRAFFIC COUNT SURVEYS

Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 1 - Eastbound								Vehicle Flow		Week 1
Hr Ending	18/07/2019	19/07/2019	20/07/2019	21/07/2019	22/07/2019	23/07/2019	24/07/2019	5 Day Ave	7 Day Ave	
	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday			
1	49	83	101	164	49	43	55	56	78	
2	31	44	63	96	30	37	30	34	48	
3	16	27	41	40	16	22	26	21	27	
4	23	22	38	40	10	26	26	21	26	
5	38	38	39	25	39	45	35	39	37	
6	133	118	55	48	136	132	143	132	109	
7	287	340	151	114	395	422	425	374	305	
8	128	179	280	190	574	567	627	415	364	
9	128	258	369	233	513	457	525	376	355	
10	164	284	405	341	556	505	549	412	401	
11	196	268	512	432	541	559	578	428	441	
12	270	260	550	475	522	516	628	439	480	
13	238	179	434	618	551	531	546	409	442	
14	245	176	642	505	572	574	591	432	472	
15	262	233	580	684	560	555	619	446	499	
16	234	173	580	563	589	338	668	400	449	
17	199	185	500	624	627	343	502	371	426	
18	163	145	489	665	481	425	345	312	388	
19	175	137	482	625	560	454	552	376	426	
20	227	142	443	567	516	569	552	399	429	
21	320	358	318	564	335	458	376	369	390	
22	296	250	264	365	227	270	267	256	273	
23	213	217	256	203	186	217	241	215	219	
24	147	163	231	121	120	123	148	140	150	
7-19	2402	2477	5823	5955	6646	5824	6730	4816	5122	
6-22	3502	3567	6969	7565	8119	7533	8350	6214	6519	
5-31	3389	3387	7398	7273	8333	7333	8333	6569	6889	
0-24	4152	4277	7823	8304	8705	8178	9054	6873	7213	



Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 1 - Eastbound								Average Speed		Week 1
Hr Ending	18/07/2019	19/07/2019	20/07/2019	21/07/2019	22/07/2019	23/07/2019	24/07/2019	5 Day Ave	7 Day Ave	
	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday			
1	32.3	33.8	31.5	31.9	34.6	34.5	32.6			
2	36.5	33.1	32.1	33.7	32.0	31.6	35.3			
3	36.8	33.5	32.8	33.8	38.0	33.6	35.9			
4	38.0	37.9	36.9	33.4	36.0	34.9	35.3			
5	33.8	35.2	34.6	33.2	36.1	34.3	34.5			
6	32.6	35.3	35.2	35.2	33.1	35.3	35.2			
7	23.1	23.9	32.7	33.5	29.6	30.0	30.6			
8	10.2	8.1	30.1	31.4	24.4	25.8	26.7			
9	8.7	20.4	29.7	31.4	27.0	24.5	27.6			
10	9.3	12.4	28.9	29.2	26.6	28.1	25.3			
11	9.0	16.0	27.4	28.3	27.0	27.7	25.9			
12	7.2	11.1	24.1	26.7	27.3	28.5	27.1			
13	9.6	7.7	16.2	27.3	26.8	28.3	28.2			
14	8.7	9.2	26.1	19.2	27.6	27.6	28.6			
15	9.5	8.8	25.9	27.1	27.5	25.3	27.4			
16	8.6	8.6	27.7	26.7	26.7	17.5	26.1			
17	8.9	9.7	28.5	27.3	24.5	20.2	20.6			
18	8.5	8.8	29.1	27.5	28.0	23.4	13.0			
19	10.6	9.5	28.8	27.2	28.1	17.2	27.4			
20	9.8	10.7	29.7	28.8	29.3	25.7	28.7			
21	28.5	29.1	30.0	29.3	30.7	27.3	29.9			
22	31.7	30.5	30.6	30.5	31.0	30.9	30.5			
23	31.6	30.9	31.3	32.3	31.2	31.6	31.2			
24	31.5	33.3	31.1	33.3	32.7	33.4	31.9			
10-12	8.0	13.6	25.7	27.4	27.1	28.0	26.5			
14-16	9.1	8.7	26.8	26.9	27.1	22.3	26.7			
0-24	16.7	18.6	27.8	28.0	27.7	26.3	27.1			

7 Day Ave 24.6

85th Percentile							
Hr Ending	18/07/2019	19/07/2019	20/07/2019	21/07/2019	22/07/2019	23/07/2019	24/07/2019
	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday
1	38.7	38.6	39.0	33.7	43.9	38.7	38.2
2	43.5	38.3	38.4	38.9	33.7	38.9	43.5
3	43.6	38.3	38.3	38.8	48.5	38.5	43.3
4	43.3	48.8	48.2	38.0	38.4	43.1	38.3
5	38.3	43.8	43.2	38.5	43.1	43.8	38.0
6	38.8	43.6	43.6	43.9	38.8	38.4	43.5
7	33.0	34.0	38.4	38.4	33.5	33.5	33.2
8	18.8	13.9	33.4	38.7	33.8	33.5	33.9
9	13.8	28.2	33.7	38.5	33.6	33.2	33.6
10	13.7	23.7	33.3	33.5	33.8	33.3	33.8
11	13.0	29.0	33.6	33.5	33.0	33.1	33.9
12	13.4	23.2	28.2	33.4	33.2	33.6	33.3
13	18.9	13.5	28.2	33.4	33.1	33.2	33.5
14	13.8	18.1	33.6	28.3	33.1	33.9	33.1
15	13.4	14.0	33.1	33.1	33.3	33.1	33.6
16	14.0	13.7	33.5	33.2	33.1	23.4	33.4
17	13.9	18.0	33.9	34.0	33.0	26.3	34.0
18	18.1	13.6	33.3	33.1	33.5	33.9	23.1
19	18.9	13.1	33.8	33.4	33.7	28.8	33.9
20	13.4	28.1	33.4	33.4	33.5	33.3	33.6
21	33.5	33.8	33.3	33.5	33.8	33.7	33.3
22	38.9	33.3	33.9	33.2	33.1	33.3	33.1
23	33.1	33.0	33.6	38.5	33.2	33.1	33.5
24	38.6	38.3	33.6	38.3	38.7	38.0	33.2
10-12	13.5	28.4	33.4	33.6	33.5	33.3	34.0
14-16	13.3	13.3	35.1	33.5	33.4	28.6	33.1
0-24	33.6	33.9	33.6	33.2	33.1	33.3	33.0

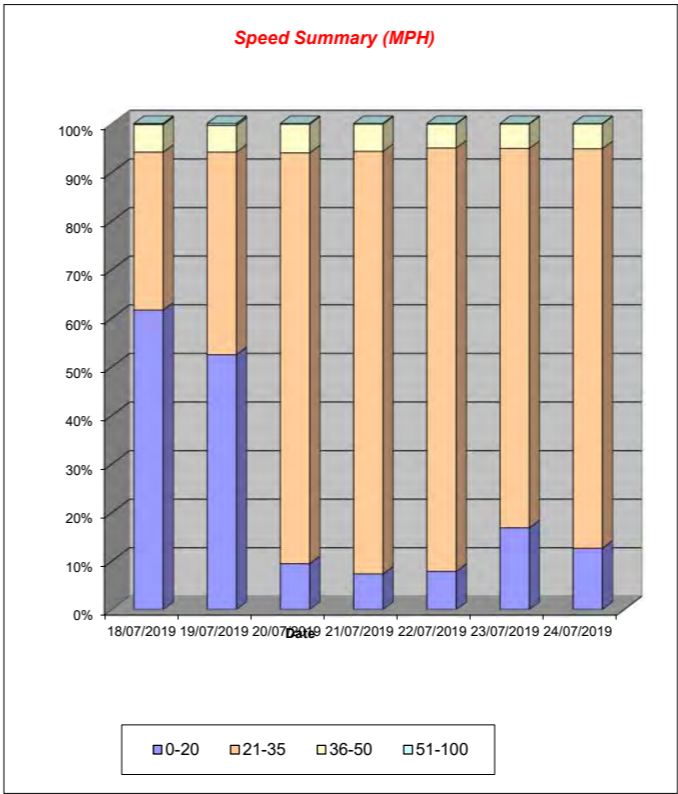
7 Day Ave 33.4

Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 1 - Eastbound								Speed Summary		Week 1
Speed (MPH)	18/07/2019	19/07/2019	20/07/2019	21/07/2019	22/07/2019	23/07/2019	24/07/2019			
	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday			
0-20	2559	2244	739	607	683	1375	1142			
21-35	1349	1782	6613	7222	7586	6386	7444			
36-50	236	234	463	467	427	410	461			
51-100	8	17	8	8	9	7	7			
TOTAL	4152	4277	7823	8304	8705	8178	9054			

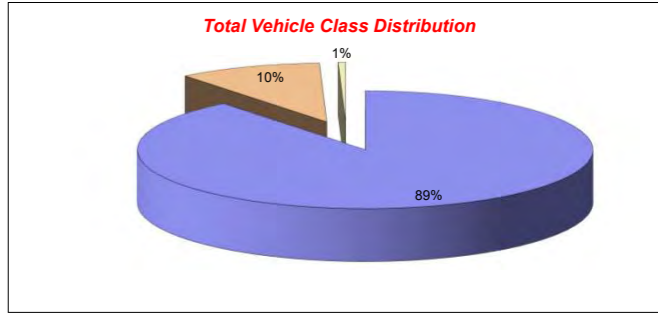


Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 1 - Eastbound				Vehicle Class		Week 1
Day / Time	Classes	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL	
18/07/2019						
7-19		2247	147	8	2402	
6-22		3246	245	11	3502	
6-24		3578	271	13	3862	
0-24		3809	328	15	4152	
19/07/2019						
7-19		2288	181	8	2477	
6-22		3275	281	11	3567	
6-24		3628	310	11	3949	
0-24		3899	364	14	4277	
20/07/2019						
7-19		5316	487	20	5823	
6-22		6427	549	23	6999	
6-24		6697	564	23	7284	
0-24		7183	614	26	7823	
21/07/2019						
7-19		5557	377	21	5955	
6-22		7055	476	24	7555	
6-24		7387	508	24	7919	
0-24		7739	538	27	8304	
22/07/2019						
7-19		5704	891	51	6646	
6-22		7064	1000	55	8119	
6-24		7383	1025	57	8465	
0-24		7566	1080	59	8705	
23/07/2019						
7-19		4982	790	52	5824	
6-22		6520	958	55	7533	
6-24		6937	976	57	7970	
0-24		7091	1027	60	8178	
24/07/2019						
7-19		5750	935	45	6730	
6-22		7192	1102	56	8350	
6-24		7448	1128	59	8635	
0-24		7805	1186	63	9054	
Average						
7-19		4549	544	29	5122	
6-22		5627	659	34	6319	
6-24		6193	684	35	6889	
0-24		6442	734	38	7213	

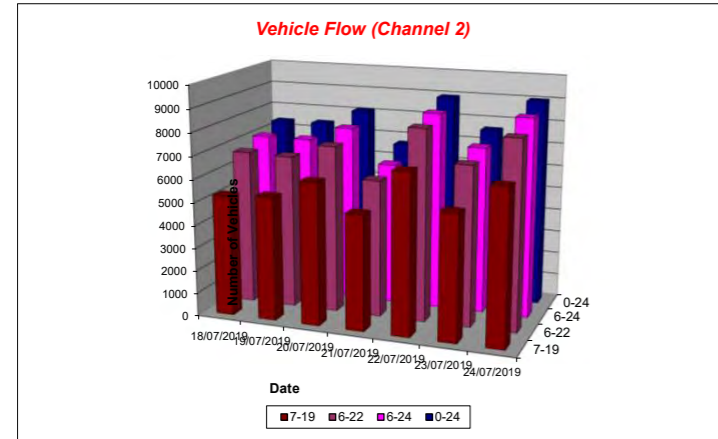


Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 2 - Westbound									Vehicle Flow			Week 1	
Hr Ending	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5 Day Ave	7 Day Ave				
1	47	63	95	152	40	45	59	51	72				
2	24	36	51	85	41	29	27	31	42				
3	23	25	48	68	12	29	17	21	32				
4	27	31	49	59	19	26	27	26	34				
5	44	52	66	54	43	40	47	45	49				
6	171	154	107	76	198	193	172	178	153				
7	473	403	198	113	560	575	514	505	405				
8	501	464	320	157	785	732	750	646	530				
9	454	470	426	241	622	642	649	567	501				
10	431	504	571	354	589	544	563	526	508				
11	466	450	624	442	535	472	502	485	499				
12	419	434	543	560	543	449	469	467	491				
13	455	439	524	541	534	491	477	479	494				
14	400	417	570	495	489	505	582	479	494				
15	403	433	496	411	531	449	515	466	463				
16	452	449	481	397	636	153	565	451	448				
17	447	435	543	429	613	276	543	463	469				
18	420	462	588	481	592	413	529	483	495				
19	413	433	528	506	503	339	537	445	466				
20	377	345	374	356	331	308	374	347	362				
21	341	304	257	271	251	316	326	308	295				
22	276	243	255	209	217	262	289	261	253				
23	193	187	208	158	161	194	222	191	189				
24	124	180	195	89	96	114	232	149	147				
7-19	5261	5390	6194	5013	6972	5465	6701	5958	5857				
6-22	6728	6685	7278	5962	8331	6946	8204	7379	7162				
5-30	3445	3245	3851	4345	4338	3354	4335	3719	3498				
0-24	7381	7413	8097	6703	8941	7616	9007	8072	7880				



Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 2 - Westbound									Average Speed			Week 1	
Hr Ending	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5 Day Ave	7 Day Ave				
1	31.4	33.1	30.8	31.5	34.2	32.9	33.3						
2	33.6	31.6	32.3	32.7	32.8	37.4	36.9						
3	35.0	32.9	32.4	33.7	30.5	31.6	38.4						
4	35.9	35.9	34.3	32.8	37.3	36.5	33.6						
5	36.4	35.5	32.1	33.4	38.2	36.9	36.9						
6	32.6	33.8	35.9	35.5	34.2	34.3	34.5						
7	28.1	30.5	33.6	34.5	29.9	29.6	31.0						
8	24.0	25.6	31.3	32.8	25.9	26.7	27.1						
9	22.6	27.3	28.6	30.9	27.2	27.3	27.1						
10	23.0	24.7	27.9	29.1	27.2	28.5	27.8						
11	24.3	26.1	27.5	28.6	27.9	27.5	27.9						
12	24.8	25.3	26.5	27.6	27.1	29.0	28.6						
13	24.8	24.0	26.8	27.4	27.3	29.6	29.0						
14	24.1	25.2	28.5	26.7	28.1	28.5	28.4						
15	25.0	24.3	28.6	29.3	28.5	29.1	28.8						
16	24.7	25.4	29.0	29.3	27.2	11.8	28.9						
17	25.7	25.8	28.6	28.6	27.5	23.2	27.0						
18	25.5	24.4	28.4	28.5	27.5	26.5	24.8						
19	25.2	25.6	28.2	27.8	29.0	19.5	28.2						
20	26.2	26.2	28.5	28.8	29.5	22.0	29.3						
21	29.1	28.4	30.7	29.7	30.5	27.6	29.0						
22	29.4	29.0	29.9	30.4	30.5	30.8	29.6						
23	30.1	30.9	30.0	31.7	31.7	31.5	31.0						
24	31.8	31.3	30.5	31.5	32.8	31.0	29.9						
10-12	24.4	25.7	27.0	28.0	27.5	28.2	28.2						
14-16	24.8	24.9	25.8	25.3	27.8	24.7	28.9						
0-24	25.8	26.6	28.8	29.1	28.3	27.5	28.5		27.8				

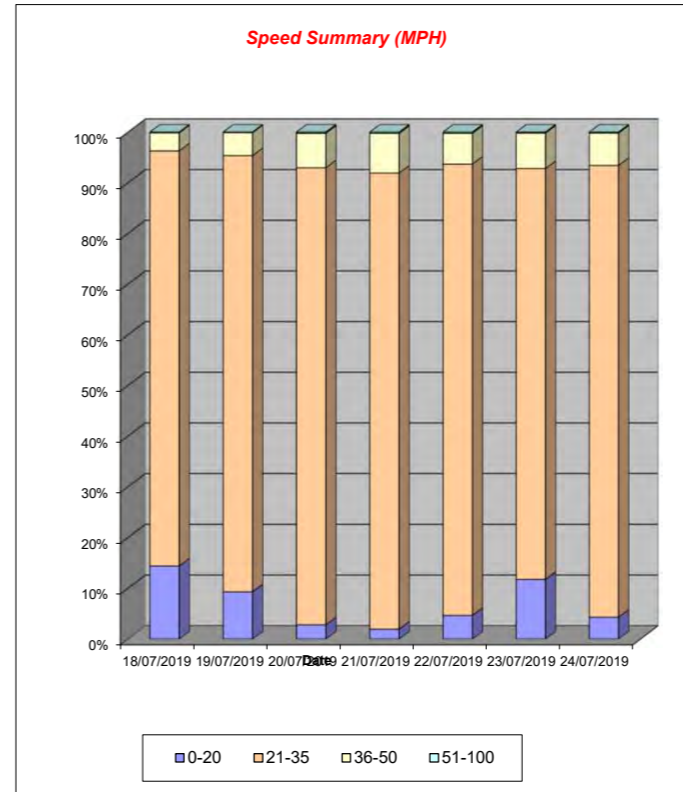
85th Percentile									Week 1	
Hr Ending	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5 Day Ave	7 Day Ave	
1	38.3	38.3	33.7	38.6	38.2	43.6	38.8			
2	38.5	38.3	38.5	38.3	38.2	43.8	55.8			
3	43.9	38.2	38.6	38.1	33.3	38.5	43.7			
4	43.5	43.5	43.2	38.2	43.8	48.2	43.4			
5	43.4	43.2	38.5	38.1	43.1	43.9	43.8			
6	38.8	38.6	43.7	43.4	38.5	38.4	43.7			
7	33.8	38.4	38.8	44.0	33.8	33.3	38.4			
8	28.7	33.9	33.4	38.5	33.8	33.8	33.1			
9	28.7	33.5	33.9	33.5	33.3	33.2	33.4			
10	29.0	28.2	33.7	34.0	34.0	33.4	33.3			
11	28.3	28.7	33.1	33.2	33.8	33.2	33.7			
12	28.5	28.7	33.6	33.4	33.7	33.9	33.3			
13	28.4	28.6	33.7	33.4	33.9	33.6	33.8			
14	28.7	28.8	33.0	33.3	33.9	33.4	33.2			
15	28.2	28.2	33.4	33.5	33.4	33.4	33.6			
16	28.4	28.8	33.4	33.1	33.1	16.9	34.0			
17	33.5	28.2	33.3	33.5	34.0	33.6	33.2			
18	33.8	29.0	34.0	34.0	33.8	33.9	28.9			
19	28.5	28.1	33.8	33.6	33.7	28.5	33.1			
20	33.4	28.1	33.7	33.9	33.4	28.3	34.0			
21	33.5	33.8	33.4	33.7	33.0	33.9	33.6			
22	33.2	33.4	33.7	33.4	33.2	33.3	33.6			
23	33.6	38.5	33.3	38.7	38.2	33.3	38.9			
24	38.5	38.1	33.4	38.1	38.5	38.2	33.6			
10-12	28.7	28.1	33.4	33.8	33.4	33.3	33.2			
14-16	29.9	25.2	35.9	33.7	33.1	33.0	33.9			
0-24	33.4	33.0	33.1	33.5	33.3	33.7	33.1		33.3	

Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 2 - Westbound								Speed Summary			Week 1	
Speed (MPH)	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5 Day Ave	7 Day Ave			
0-20	1062	690	226	131	415	896	387					
21-35	6047	6380	7302	6031	7964	6173	8029					
36-50	262	335	551	525	542	534	575					
51-100	10	8	18	16	20	13	16					
TOTAL	7381	7413	8097	6703	8941	7616	9007					

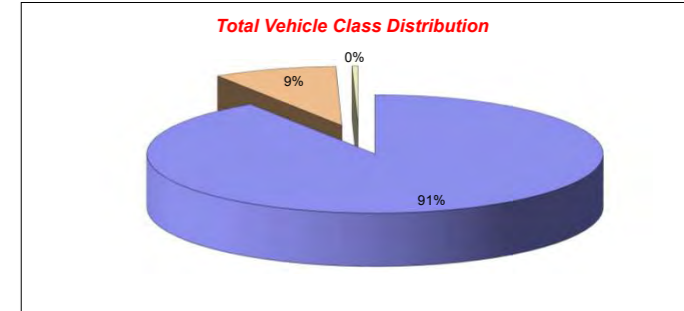


Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 2 - Westbound				Vehicle Class			Week 1	
Day / Time	Classes	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL			
18/07/2019		4744	493	24	5261			
6-22		6107	594	27	6728			
6-24		6693	614	28	7335			
0-24		6697	654	30	7381			
19/07/2019		4853	518	19	5390			
6-22		6083	581	21	6685			
6-24		6439	592	21	7052			
0-24		6750	640	23	7413			
20/07/2019		5796	374	22	6194			
6-22		6815	439	24	7278			
6-24		7007	448	26	7481			
0-24		7586	485	26	8097			
21/07/2019		4741	259	13	5013			
6-22		5625	323	14	5962			
6-24		5829	338	14	6181			
0-24		6323	365	15	6703			
22/07/2019		6111	810	51	6972			
6-22		7370	907	54	8331			
6-24		7958	926	54	8941			
0-24		7925	961	55	8941			
23/07/2019		4845	589	31	5465			
6-22		6203	705	38	6946			
6-24		6411	724	39	7174			
0-24		6804	771	41	7616			
24/07/2019		5886	781	34	6701			
6-22		7278	888	38	8204			
6-24		7708	910	40	8658			
0-24		8008	955	44	9007			
Average		5283	546	28	5857			
6-22		6497	634	31	7162			
6-24		6919	633	33	7498			
0-24		7156	690	33	7880			



Hampton ATC 02, Upper Sunbury Road (West)

Produced by Streetwise Services Ltd.



Channel 1 - Eastbound































	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	4152	4277	7823	8304	8705	8178	9054	6873	7213
Mean Speed	16.7	18.6	27.8	28.0	27.7	26.3	27.1	23.3	24.6
85%ile Speed	33.6	33.9	33.6	33.2	33.1	33.3	33.0	33.4	33.4
No. Vehicles > 30 MPH Limit	761	883	2390	2456	2287	2067	2525	1705	1910
% Vehicles > 30 MPH Limit	18.3	20.6	30.6	29.6	26.3	25.3	27.9	23.7	25.5
No. Vehicles > 45 MPH	28	27	30	28	32	16	29	26	27
% Vehicles > 45 MPH	0.7	0.6	0.4	0.3	0.4	0.2	0.3	0.4	0.4

Channel 2 - Westbound

	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	7381	7413	8097	6703	8941	7616	9007	8072	7880
Mean Speed	25.8	26.6	28.8	29.1	28.3	27.5	28.5	27.3	27.8
85%ile Speed	33.4	33.0	33.1	33.5	33.3	33.7	33.1	33.3	33.3
No. Vehicles > 30 MPH Limit	1211	1380	2446	2204	2436	2294	2734	2011	2101
% Vehicles > 30 MPH Limit	16.4	18.6	30.2	32.9	27.2	30.1	30.4	24.5	26.5
No. Vehicles > 45 MPH	27	31	41	47	44	42	34	36	38
% Vehicles > 45 MPH	0.4	0.4	0.5	0.7	0.5	0.6	0.4	0.4	0.5

Channels 1+2 - Eastbound & Westbound










	18/07/2019 Thursday	19/07/2019 Friday	20/07/2019 Saturday	21/07/2019 Sunday	22/07/2019 Monday	23/07/2019 Tuesday	24/07/2019 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	11533	11690	15920	15007	17646	15794	18061	14945	15093
Mean Speed	21.3	22.6	28.3	28.6	28.0	26.9	27.8	25.3	26.2
85%ile Speed	33.5	33.5	33.3	33.4	33.2	33.5	33.0	33.3	33.3
No. Vehicles > 30 MPH Limit	1972	2263	4836	4660	4723	4361	5259	3716	4011
% Vehicles > 30 MPH Limit	17.1	19.4	30.4	31.1	26.8	27.6	29.1	24.0	25.9
No. Vehicles > 45 MPH	55	58	71	75	76	58	63	62	65
% Vehicles > 45 MPH	0.5	0.5	0.4	0.5	0.4	0.4	0.3	0.4	0.4

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi  	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer  	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer  	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer  	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer  	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer  	13	Vehicle with 7 or more Axles 

APPENDIX J – PROPOSED ZEBRA CROSSING DESIGN AND ROAD SAFETY AUDIT



DO NOT SCALE OFF THIS DRAWING


- KEY**
-  PROPOSED ZEBRA CROSSING LOCATION
 -  PROPOSED ROAD MARKINGS
 -  PROPOSED TACTILE PAVING
 -  PROPOSED YELLOW GLOBE
 -  PROPOSED COLOUMN
 -  PROPOSED DROPPED KERB
 -  PROPOSED TRANSITION KERB
 -  FULL HEIGHT KERB
 -  2.4m x 43m VISIBILITY SPLAY FROM SITE EGRESS



Revision History							
Rev	Comment	By	Chkd	Appr	Date		
P02	FOR INFORMATION			NB	PF	PF	06.02.24
P01	FOR INFORMATION			RLM	PF	PF	03.10.22
Rev	Comment	By	Chkd	Appr	Date		
Current Revision							
P02	FOR INFORMATION			NB	PF	PF	06.02.04
Rev	Comment	By	Chkd	Appr	Date		

S2 - FOR INFORMATION

WATERFALL HAMPTON INVESTMENT LTD



MARKIDES ASSOCIATES
TRANSPORT PLANNING AND ENGINEERING

Project: **HAMPTON WATER TREATMENT**

Drawing Title: **PROPOSED ZEBRA CROSSING**



RKS
Associates

RKS Associates Limited
11 Falconer Road
Bushey Village
Bushey
Herts
WD23 3AQ

Our Ref: VRP1463-01-L1

E-mail: vpatel@rks.org.uk

6th February 2024

Panos Floros

Markides Associates Ltd.
2nd Floor, The Bridge,
81 Southwark Bridge Road,
London,
SE1 0NQ

Dear Panos,

Stage 1 RSA Designer's Response: Upper Sunbury Road, Hampton, London Borough of Richmond upon Thames

Thank you for sending us a copy of your Designer's Response to the Stage 1 Road Safety Audit for the Proposed Pedestrian Crossing on Upper Sunbury Road, Hampton, London Borough of Richmond upon Thames.

The Audit Team can confirm the acceptance of the Designers Response to the Stage 1 Road Safety Audit, together with the drawings referred to therein.

In any event we recommend that the Designers Response together with the respective drawings are forwarded to the Local Highway Authority for their approval and sign off in accordance with highway standards.

Please contact me if you require any further assistance.

Yours sincerely

Vimal Patel,
BEng (Hons), GMICE, FIHE, HE Cert Comp, Reg RSA (IHE)

Enc.

Designers Response to Stage 1 RSA - Proposed Pedestrian Crossing on Upper Sunbury Road, Hampton
Markides Drawing Number: 17200-MA-XX-DR-C-0110 Revision P02 – Proposed Zebra Crossing

**Upper Sunbury Road, Hampton,
London Borough of Richmond
upon Thames**

Proposed Pedestrian Crossing

STAGE 1

Road Safety Audit Report

REQUESTED BY:

Markides Associates

October 2022



RKS
Associates

Project: Upper Sunbury Road, Hampton, London Borough of Richmond upon Thames
Proposed Pedestrian Crossing

Client: Markides Associates

Document: Stage 1 Road Safety Audit

RKS Associates Ref: VRP1463 - RSA 1

Issue date: 4th October 2022

Status: Final

Authorised by: VP/WP

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RKS
Associates

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Bushey
Hertfordshire
WD23 3AQ



CONTENTS

1	Introduction	1
2	Issues Identified During Stage 1 RSA	3
3	Audit Team Statement.....	4

Appendices

Appendix A: Location of Problems Identified During Stage 1 Road Safety Audit

Appendix B: Designers Response



1 INTRODUCTION

1.1 This report results from a Stage 1 Road Safety Audit carried out on a proposed zebra crossing on the A308 Upper Sunbury Road, Hampton in the London Borough of Richmond upon Thames. The highway works are associated with the conversion of two buildings at Hampton Waterworks to provide a 36 residential units and 306m² of commercial use B1(a) offices, B1(b) research and development, B1(c) light industrial use and 39 car parking spaces.

1.2 The highway works subject to this Stage 1 Road Safety Audit are limited to the proposed zebra crossing on the A308 Upper Sunbury Road. The proposed zebra crossing is located between Beard's Hill and Lower Sunbury Road junctions.

1.3 The A308 Upper Sunbury Road is a single two-way carriageway aligned in an east to west direction, the carriageway is lit and is locally subject to a 30mph speed limit. It benefits from a wide continuous footway along the northern side and a continuous narrow footway along the southern side of the carriageway.

1.4 Markides Associates has supplied the following information upon which this Stage 1 RSA is based:

- Markides Associates Drawing Number: 17200-MA-XX-DR-C-0110 Revision P01 – Proposed Zebra Crossing; and
- Collision data for the local highway network for the 3-year period up to June 2021.

1.5 The main parties to this Road Safety Audit include the following:

Road Safety Audit Team Leader	Vimal Patel BEng (Hons), GMICE, FIHE, HE Cert Comp, Reg RSA (IHE)
Road Safety Audit Team Member	Wendy Palmer MCIHT, MSoRSA, FIHE, HE Cert Comp
Local Highway Authority	London Borough of Richmond upon Thames
Design Organisation	Markides Associates

1.6 The Audit was undertaken following an examination of the submitted documents, including a site visit undertaken on Monday 3rd October 2022 between the hours of 2pm and 3pm. The weather was overcast with sunny intervals, and the road surface was dry. Observations during the site inspection noted moderate traffic flows and a low number of pedestrian and cycle flows along the section of the A308 Upper Sunbury Road in the vicinity of the proposed zebra crossing.



Terms of Reference

- 1.7** The Audit Team is independent of the project design team and has no other involvement with the project. This Stage 1 RSA has been undertaken in accordance with the relevant sections of GG-119, part of the Design Manual for Roads and Bridges (DMRB).
- 1.8** The Safety Audit Team has examined only matters relating to road safety implications of the scheme and has not verified compliance of the design to any other criteria. The Audit Team has not been made aware of any Departures from Standard. All of the problems identified in this report are considered by the Audit Team to require action in order to improve the safety of the scheme and to minimise accident occurrence for all users. The location of the problems identified in this Safety Audit is shown in **Appendix A** where the reference numbers relate to the problems identified in this report.
- 1.9** The recommendations in this report are aimed at addressing the identified road safety problems; however, there may be other alternative acceptable ways to overcome a specific problem, when other practical issues are considered. The recommendations contained herein do not absolve the Designer of his/her responsibilities. The Auditors would be pleased to discuss the acceptability of alternative solutions to problems identified during the Audit and would encourage the Designer to consult them on this matter.
- 1.10** The LHA response to the RSA should be formally recorded and reported to the Designer and the RSA Team so that a record of the Audit process is contained in the As Built design pack to be provided and retained by the Local Highway Authority on completion.

Collision Data

- 1.11** The design engineers have provided a copy of the publicly available Personal Injury Collision (PIC) information which has been obtained from the *Crashmap* UK website (www.crashmap.co.uk) for the three-year period up to June 2021. This collision data indicates that no collisions have occurred along the A308 Upper Sunbury Road in the immediate vicinity of the proposed zebra crossing during the three-year period up to June 2021.



2 ISSUES IDENTIFIED DURING STAGE 1 RSA

2.1 **Problem:**

Summary: Potential risk of pedestrians/cyclists struck by passing traffic

Location: *Pedestrian footway along the southern side of A308 Upper Sunbury Road*

Observations during the site inspection noted the narrow footway along the southern side of A308 Upper Sunbury Road in the vicinity of the proposed zebra crossing. The introduction of the zebra crossing beacon will further reduce the available width for pedestrians using the footway. Consequently, there is concern that insufficient footway width may not safely accommodate pedestrians with prams, wheelchair users or cyclists and may result in these users entering the carriageway where the risk of being struck by passing traffic will be greater.

Recommendation:

Review the location of the proposed yellow globe lighting column on the southern footway, it may be more appropriate to put the column to the back of footway with a cantilever for the beacon.

2.2 **Problem:**

Summary: Potential risk of pedestrians/cyclists struck by traffic

Location: *Tree along the southern side of A308 Upper Sunbury Road*

Observations during the site inspection noted a large tree set back behind the footway along the southern side of A308 Upper Sunbury Road in the vicinity of the proposed zebra crossing. There is concern that the branches overhanging the carriageway may obstruct visibility to the proposed zebra crossing belisha beacon and may make the zebra crossing less conspicuous. This may result in motorist failing to observe the presence of the zebra crossing and may increase the risk of pedestrians using the zebra crossing being struck by passing traffic.

Recommendation:

Ensure that overhanging branches of the tree are cut back and regularly pruned.



3 AUDIT TEAM STATEMENT

- 3.1 We certify that this audit has been carried out in accordance with GG-119 of Design Manual for Roads & Bridges Volume 5 Section 2 - Road Safety Audits. Its sole purpose being to identify features of the scheme that could be removed or modified to improve safety. No member of the Audit Team has been involved in the scheme design.

Audit Team Leader

Vimal Patel
BEng (Hons), GMICE, FIHE, RegRSA (IHE), HE Cert Comp

Signed:

Date: 4th October 2022

Audit Team Member

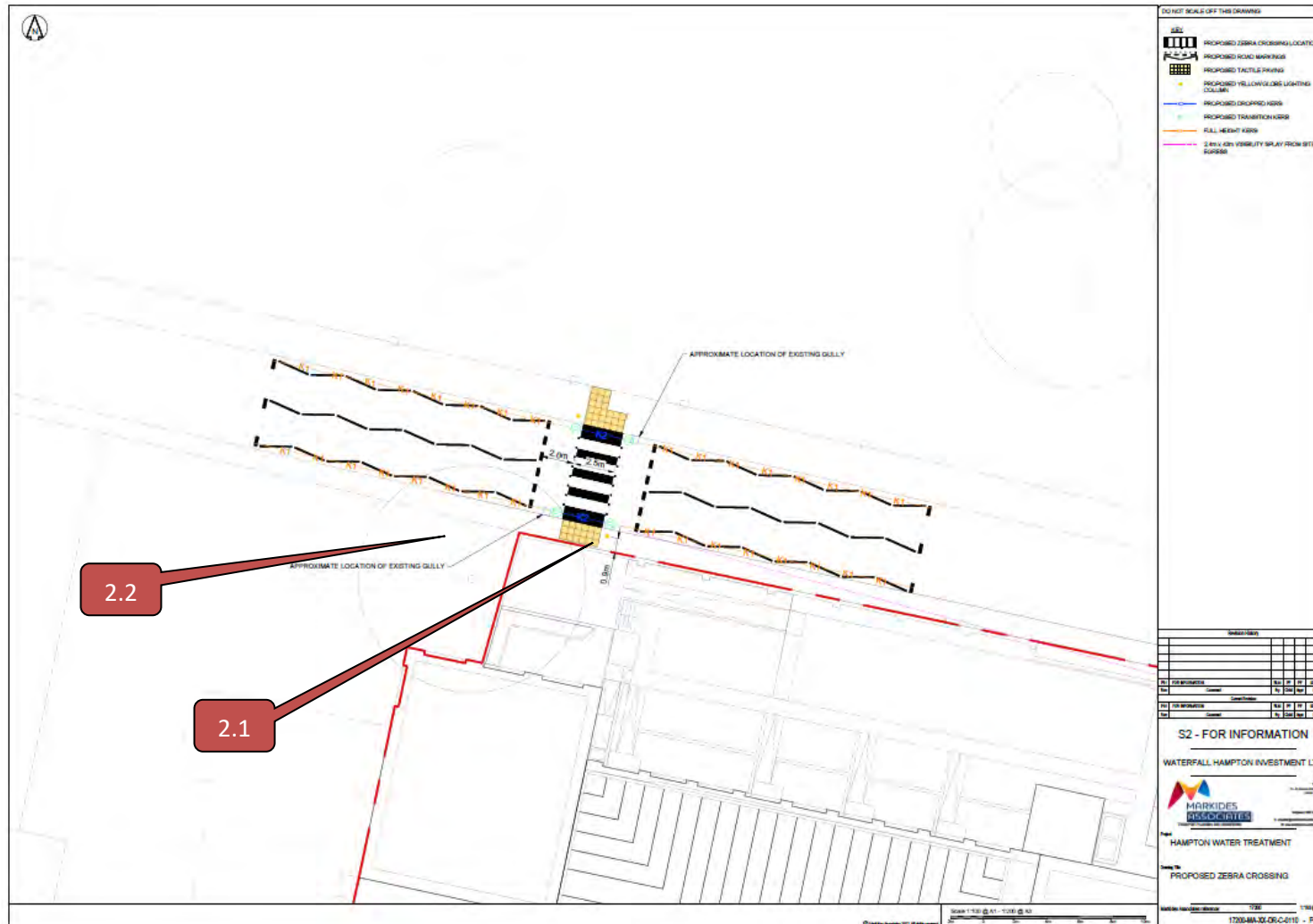
Wendy Palmer
MCIHT, MSoRSA, FIHE, HE Cert Comp

Signed:

Date: 4th October 2022



Appendix A





Appendix B



Item No.	Audit Team Recommendation(s)	Designer's Response
2.1	Review the location of the proposed yellow globe lighting column on the southern footway, it may be more appropriate to put the column to the back of footway with a cantilever for the beacon.	Accepted. The column has been moved to the back of the footway with a cantilever for the beacon.
2.2	Ensure that overhanging branches of the tree are cut back and regularly pruned.	Accepted. The designer of the next stage will make reasonable efforts to coordinate with the owner of the adjacent property to trim the overhanging branches of the tree.

Designer's Statement:

I certify that I have considered the items that have arisen in the Stage 1 Road Safety Audit Report and my response to its recommendations are set out above.

.....  Date:
 Designer

Project Sponsor/ Client Organisation Statement:

I accept/do not accept the Designer's Response (please delete as appropriate)

..... Date: