

**APPLICATION FOR RESIDENTIAL DEVELOPMENT AT
'LAND BETWEEN CLAY LANE AND SAGARS ROAD, HANDFORTH'**

TRANSPORT ASSESSMENT REVIEW

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1.0 INTRODUCTION

1.1 This Transport Assessment Review has been produced by TTHC Ltd on behalf of Handforth Parish Council in connection with a planning application for a proposed residential development of circa 250 dwellings, located between Clay Lane and Sagars Road, Handforth, hereafter referred to as 'the Site'.

1.2 The Site is located west of the suburban town of Handforth and lies within the Unitary Authority of Cheshire East Council (CEC).

1.3 This report sets out TTHC's findings following a review of the Transport Assessment (TA) submitted for the development, produced by SK Transport Planning Ltd on behalf of HIMOR Land.

1.4 This review has considered the following main areas of the Transport Assessment document:

- Access to sustainable transport;
- Access to Services and Amenity;
- Assessment Traffic Calculations and Traffic Distribution;
- Highway Impact and Junction Assessments; and
- Summary and Conclusions.

1.5 These findings will now be discussed.

2.0 ACCESS TO SUSTAINABLE TRANSPORT

2.1 TTHC has undertaken an assessment of the Site's accessibility by non car modes of transport. The results of this have been compared to the information provided in the TA with regards to walking, cycling, public transport access and proximity to local services and amenity. These points will now be discussed.

Walking

2.2 Walking facilities in proximity to the site are of a reasonable standard but are limited in the level of service they provide. The Site's walking routes connect with the wider network to a reasonable standard.

2.3 It is our opinion that the primary pedestrian route to / from the site is via Meriton Road. Observations show that regular and frequent on-street car parking occurs along both sides of Meriton Road; the width of the carriageway being such that vehicles park half on the footway. This frequent parking will impede the use of the footway, particularly for those using pushchairs, wheelchairs, and disabled / partially sighted pedestrians. This arrangement is therefore undesirable and not conducive to promoting pedestrian trips in general, including from the proposed development.

Cycling

2.4 The cycle network is of a reasonable standard. Meriton Road and Sagars Road are identified on 'Cycle Wilmslow's' map of the area as 'Suggested Quieter Routes', a copy of which is provided at **Appendix A**. Sagars Road is also identified as connecting to a traffic free cycle route. However, it should be noted that the additional vehicular traffic associated with proposed development of circa 250 dwellings, could change the status of such roads, and reduce the suitability of these routes for cycle use.

- 2.5 The on-street parking on Meriton Road, discussed above, is also a hazard for cyclists. The parking reduces the effective carriageway width and the space available for cars to safely pass cycles. Cycles may also have to stop in the road and wait for vehicles to pass parked cars, when space is particularly limited. These features are undesirable and are not conducive to promoting cycle trip making in general and including from the proposed development.
- 2.6 The above cycle hazards are evident within the existing highway conditions; the proposed development would create additional traffic along Meriton Road, which would increase the potential for interaction with cycle trips and exacerbate these issues.
- 2.7 It is noted that there is no cycle provision along the B5358 (Wilmslow Road) as it passes through the centre of Handforth, and similarly further south as it passes through the centre of Wilmslow. Whilst some of the nearby routes are classified as 'Suggested Quieter Routes', these do not provide access into and through the local centres, which is where the primary services and facilities are located.

Bus

- 2.8 Access to bus services from the proposed development is poor. The eastern boundary of the Site is a 650m walk from the closest bus stop. This distance is greater than the typically accepted 400m walk distance threshold to bus services. The distance to a bus stop is also beyond CEC's maximum acceptable walking distance to a bus stop of 500m, as set out by their Local Plan Accessibility Criteria (which is also identified on page 6 of the TA). It should be noted that all dwellings in the proposed development would be greater than a 650m walk from the bus stop, with the furthest dwellings being approximately 1km away.
- 2.9 Furthermore, the bus stop is only served by one bus route, which limits the destinations available by bus.

- 2.10 Whilst the TA would have been accurate at the time of writing, our review of the bus services has identified that bus service frequency has reduced since the planning application was submitted.
- 2.11 The frequency has reduced from a relatively low starting point of two buses per hour in the AM/PM peaks (08:00-09:00 and 17:00-18:00), to now only providing one bus per hour in each direction. The TfGM timetable for this service is attached at **Appendix B**.
- 2.12 The closest bus stop is located too far away from the Site, and in any event it is served by a single, low frequency, service to limited destinations. As discussed above, the route to the bus stop is also not ideal. We therefore conclude that the Site has poor accessibility to bus services, and has little prospect of generating a significant number of bus trips.

Rail

- 2.13 Handforth Rail station provides a good level of service to local and wider destinations including Manchester, Stockport and Macclesfield.
- 2.14 The Station is approximately an 800m walk from the boundary of the proposed development; all of the proposed dwellings will therefore be located further away than this, with the furthest dwellings located over 1km from the station.
- 2.15 This walk to the Station is within the 2km threshold set out by CEC, however, it should be noted that it is beyond the typical walk distance set out by others, such as the Institution of Highways and Transportation (IHT), who state in their guidelines of 2000 that a distance of up to 800m should be considered acceptable.

Access to Sustainable Transport - Summary

- 2.16 The above shows that the Site location is not conducive to walk and cycle trips, and that the closest bus stops are located well beyond acceptable walking thresholds. The Site would also only be served by a single, low frequency, service to limited destinations.
- 2.17 The Site is therefore unlikely to generate any significant level of sustainable trip making, and will likely be heavily reliant on trips by private car.

3.0 ACCESS TO SERVICES AND AMENITY

- 3.1 The quality of the routes to the local services and amenities is discussed in the above section. This should be considered in conjunction with the below.
- 3.2 TTHC have reviewed the distances to services discussed in Page 6 of the TA; it is considered that the stated distances to services are generally acceptable and within the walking thresholds set out by CEC. However, it should be noted that some key services, such as food and healthcare provision, are found at the upper end of these thresholds, which, when combined with the poor standard of pedestrian and cycle accessibility, is not favourable.
- 3.3 The Site's access to education facilities is limited. The site is located in reasonable proximity to a Primary School, but that is the only such facility in the area. In terms of access to secondary and further education, there are no facilities in close proximity to the Site or within a suitable walking distance. These facilities could be reached by bus, but as discussed above, the Site is served by a poor frequency bus service, that is remote from the Site.
- 3.4 The TA states in Table 4.2, page 6, that amenity and playground space will be provided on site, and that this is shown on the proposed site layout in TA Appendix A. However, following our review of this site layout, a copy of which is provided in **Appendix C**, it is not clear where the proposed amenity or playground space is supposed to be located. This point requires clarification.
- 3.5 It is noted that the Site is within the Parish of Styal, but that Styal is beyond acceptable walking distance and not served by suitable pedestrian routes. Trips to Styal must therefore be made by car, with vehicles having to use an indirect route via Handforth and Finney Green

4.0 ASSESSMENT TRAFFIC CALCULATIONS AND TRAFFIC DISTRIBUTION

Trip Rates and use of the TRICS Database

- 4.1 The trip rates used within the TA (pg. 6-7) have been considered to determine their suitability for the proposed development, and in turn, the validity of the TA's traffic impact analysis.
- 4.2 In order to achieve this, TTHC generated trip rates using the same database system as the TA, but applying criteria that we consider suitable for the proposed development. A copy of these TRICS output reports are shown at **Appendix D**, and the results discussed below.
- 4.3 Three different scenarios were considered in order to determine how sensitive the trip rates are to changes in the TRICS input criteria. The details of these criteria are also set out in **Appendix D**.
- 4.4 The TTHC-generated TRICS output showed some variation in trip rates between the scenarios, however, overall they returned lower trip rate values than those used in the TA.
- 4.5 We therefore conclude that suitable trip rate figures have been applied in the TA.

Future Year Growth Factors

- 4.6 The TA uses 'TEMPro' software to calculate traffic growth factors, which is an industry standard approach. The TA has considered a future assessment year of 2022, a 5 year forecast, which is typical and acceptable for this location.
- 4.7 TTHC has undertaken its own traffic growth exercise for 2022, also using the TEMPPro software (version 7.2), to consider if the forecast growth factors applied in the TA are suitable.

4.8 The results of the TTHC growth factor exercise are attached at **Appendix E**. These results show that the TA factors are higher than those generated by TTHC. The TA junction tests will therefore incorporate a suitable level of traffic associated with 'background growth'.

4.9 We note that nearby Committed Developments include those at Little Stanneylands, Hethfield Farm, and Adlington Road. It would be useful to understand if the traffic impact of these developments were specifically considered as part of this Application's Committed Development scoping exercise.

4.10 **Traffic Distribution**

4.11 We note that the TA routes all development traffic along Meriton Road, as this is the primary access route for the development.

4.12 It should be noted that an alternative route is available via Sagars Road / Bulkeley Road, however, that is a less direct route and involves a lower quality highway network with narrow carriageways, limited pedestrian provision and on-street parking.

Traffic Flow Diagrams - Missing Trips

4.13 A review of the diagrams in TA Appendices F and G shows that traffic flows exiting a junction do not balance with the flow shown entering the subsequent junction in the network. It is appreciated that adjustments have been made to some movements, which is discussed later, but this does not appear to account for this very localised imbalance.

4.14 These issues occur throughout the flow diagrams, but examples are highlighted in the proposed development flow diagrams, a copy of which is provided at **Appendix F**. The highlighted sections show, for example, how the traffic leaving the northern roundabout does not balance with the traffic entering the southern roundabout. These inconsistencies need to be rectified

before conclusions on the traffic impact of the proposed development can be considered.

- 4.15 These issues also occur throughout the assessment flow diagrams, an example of which is highlighted in the '2022 with development flow diagrams', a copy of which is provided at **Appendix G**. These are the flows that have been entered into the junction models to consider the traffic impact of the proposed development. The extracts highlight that vehicle movements through the 2 roundabouts do not balance, with the discrepancy ranging between 184 and 209 vehicles. These inconsistencies need to be rectified before conclusions on the traffic impact of the proposed development can be considered.
- 4.16 The Adjustment of traffic flows is briefly mentioned in TA section 5, but the information provided is not sufficient to understand fully what adjustments have been made. No diagrams have been provided that specifically set out what flow adjustment has been made. This point may also be difficult to follow given the imbalances discussed above.
- 4.17 In any event, the TA states that observed traffic flows have been proportionately adjusted in line with traffic information from the A6MARR application. However, a review of the appropriate diagrams in TA Appendix G shows that, for example, only the northern movements through the southern roundabout have been proportionately adjusted. The remaining arms have simply had their turning movements reduced. This approach is inconsistent across the junction and inconsistent with methodology described in the TA text. This inconsistency needs to be rectified, or further explanation provided, before conclusions on the traffic impact of the proposed development can be considered.

5.0 HIGHWAY IMPACT AND JUNCTION ASSESSMENTS

- 5.1 In terms of highway impacts, the characteristics of Meriton Road are discussed in detail in **Section 2** above. In summary, there is a high prevalence of on street parking, which reduces the 'effective carriageway width' available for road users. The effective road width is not able to accommodate the 2-way movements of vehicles. Vehicles will therefore have to give way to oncoming vehicles / cyclists, which may lead to localised congestion.
- 5.2 The TA provides junction assessments of Meriton Road / Wilmslow Road, Sagars Road / Wilmslow Road and Wilmslow Road / Station Road. The TA does not provide scaled drawings of these junctions; we require this information in order to be able to verify the geometry input of those models.
- 5.3 TTHC has reviewed the junction assessment output presented in the TA. We consider that these results are generally acceptable; however, it should be noted that the TA's junction assessment analysis may need to be repeated in response to the above and the comments in **Section 4**. If that is the case, we would need to review the results of the revised modelling in order to consider their suitability.

6.0 SUMMARY AND CONCLUSIONS

- 6.1 This Transport Assessment Review has been produced by TTHC Ltd on behalf of Handforth Parish Council in connection with a planning application for a proposed residential development of circa 250 dwellings, located between Clay Lane and Sagars Lane, Handforth, hereafter referred to as 'the Site'.
- 6.2 The review explains that the Site location is not conducive to walk and cycle trips, and that the closest bus stops are located well beyond acceptable walking thresholds. The Site would also only be served by a single, low frequency, service to limited destinations.
- 6.3 The Site's access to education facilities is limited, with no Secondary or Further education establishments within acceptable walking distance, or served by bus services with an appropriate frequency.
- 6.4 The TA also states that amenity and playground space will be provided on site, but it is not clear where the proposed amenity or playground space is supposed to be located.
- 6.5 The Site is therefore unlikely to generate any significant level of sustainable trip making, and will likely be heavily reliant on trips by private car.
- 6.6 The effective road width is not able to accommodate the 2-way movements of vehicles. Vehicles will therefore have to give way to oncoming vehicles / cyclists, which may lead to localised congestion.
- 6.7 The Trip Rate and traffic growth factors applied by the TA are appropriate; however, a review of the flow diagrams has identified inconsistencies in the information. The flow diagrams show that traffic exiting a junction does not 'balance' with the flows shown entering the subsequent junction in the network. This creates a shortfall in traffic within the assessment flow diagrams of up to 209 vehicles.

- 6.8 Traffic adjustments have been made to reflect future year changes to the highway network, however, insufficient information has been provided in order to fully understand what adjustments have been made. A review of the traffic flow diagrams also shows that some factoring has been applied inconsistently across the network.
- 6.9 These traffic flow issues need to be rectified, and further explanation provided, before a conclusion on the traffic impact of the proposed development can be established.

Appendix A

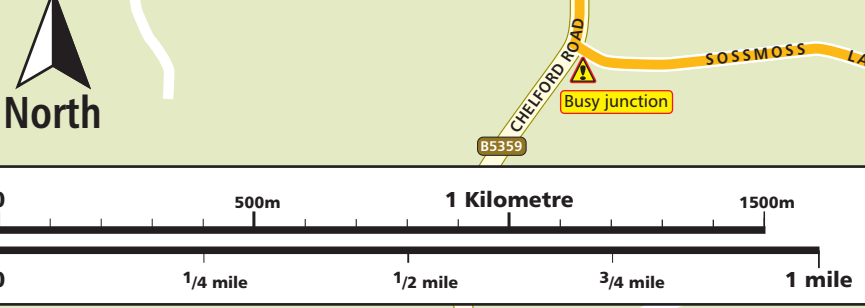
Wilmslow Cycle Map

(including Handforth & Alderley Edge)



- Suggested Quieter Routes
 - On-Road Cycle Lanes
 - Traffic Free* (good surface)
 - - - Traffic Free* (poor surface)
 - - - Walk Only Here
 - One Way
 - ⚠ Hazard Warning
 - 🚲 Toucan Crossing
 - P Hilly Section (points downhill)
 - P Cycle Parking
 - 🚲 Cycle Shop
 - 🍷 Pub
 - ☕ Cafe
 - 🚉 Railway
 - + Place of Worship
 - 85 National Cycle Network
 - 70 Regional Cycle Network
- Main Road Numbers:
- A34 Primary Roads
 - A538 A Roads
 - B5359 B Roads

* The majority of these routes are traffic free however some will have occasional traffic.
 Whilst every care has been made to ensure the information presented is accurate we, the publishers, can not guarantee it is error free. If you come across any inaccuracies then we would be grateful if you would let us know. In no event will we be liable for special, direct, indirect or consequential damages out of the use of this publication.
 The representation on the maps of a road, track, or path is no evidence of the existence of a right of way.
 Map contains Ordnance Survey data © Crown copyright and database right 2013 / © CycleWilmslow
 Produced by Active Maps Limited. www.activemaps.co.uk



Appendix B



From 3 September

130

Times are changed on Mondays to Saturdays with additional early morning and early evening journeys introduced. In addition, some Monday to Friday peak period journeys will run via Macclesfield College instead of Churchill Way

Bus

130



Easy access on all buses

Macclesfield
Broken Cross
Henbury
Monk's Heath
Alderley Edge
Wilmslow
Colshaw Farm
Handforth
Cheadle Hulme
Cheadle
East Didsbury
Burnage
Manchester

From 3 September 2017

For public transport information
phone **0161 244 1000**

7am – 8pm Mon to Fri

8am – 8pm Sat, Sun & public holidays

This timetable is available online at
www.tfgm.com

Operated by
Arriva North West

Additional information

Alternative format

To ask for leaflets to be sent to you, or to request large print, Braille or recorded information phone 0161 244 1000 or visit www.tfgm.com

Easy access on buses



Journeys run with low floor buses have no steps at the entrance, making getting on and off easier. Where shown, low floor buses have a ramp for access and a dedicated space for wheelchairs and pushchairs inside the bus. The bus operator will always try to provide easy access services where these services are scheduled to run.

Using this timetable

Timetables show the direction of travel, bus numbers and the days of the week.

Main stops on the route are listed on the left. Where no time is shown against a particular stop, the bus does not stop there on that journey. Check any letters which are shown in the timetable against the key at the bottom of the page.

Where to find information about service changes

www.tfgm.com

Bus station posters

Leaflets from outlets.

Tickets and information

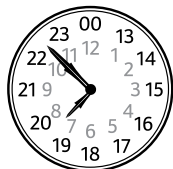
Bus companies offer a range of tickets for use on their own buses. For travel on any service in the County, use System One tickets, including DaySaver. Travelshops provide tickets, information and journey planning advice on buses, trains and trams for work and pleasure.

Using the 24 hour clock

Times are shown in four figures. The first two are the hour and the last two are the minutes.

0753 is 53 minutes past 7am

1953 is 53 minutes past 7pm



Operator details

Arriva North West

73 Ormskirk Road,
Aintree, Liverpool, L9 5AE
Telephone 0344 800 4411

Travelshops

Manchester Piccadilly Gardens

Mon to Sat 7am to 6pm
Sunday 10am to 6pm
Public hols 10am to 5.30pm

Manchester Shudehill Interchange

Mon to Sat 7am to 7.30pm
Sunday* 10am to 1.45pm and 2.30pm to 5.30pm

*Including public holidays

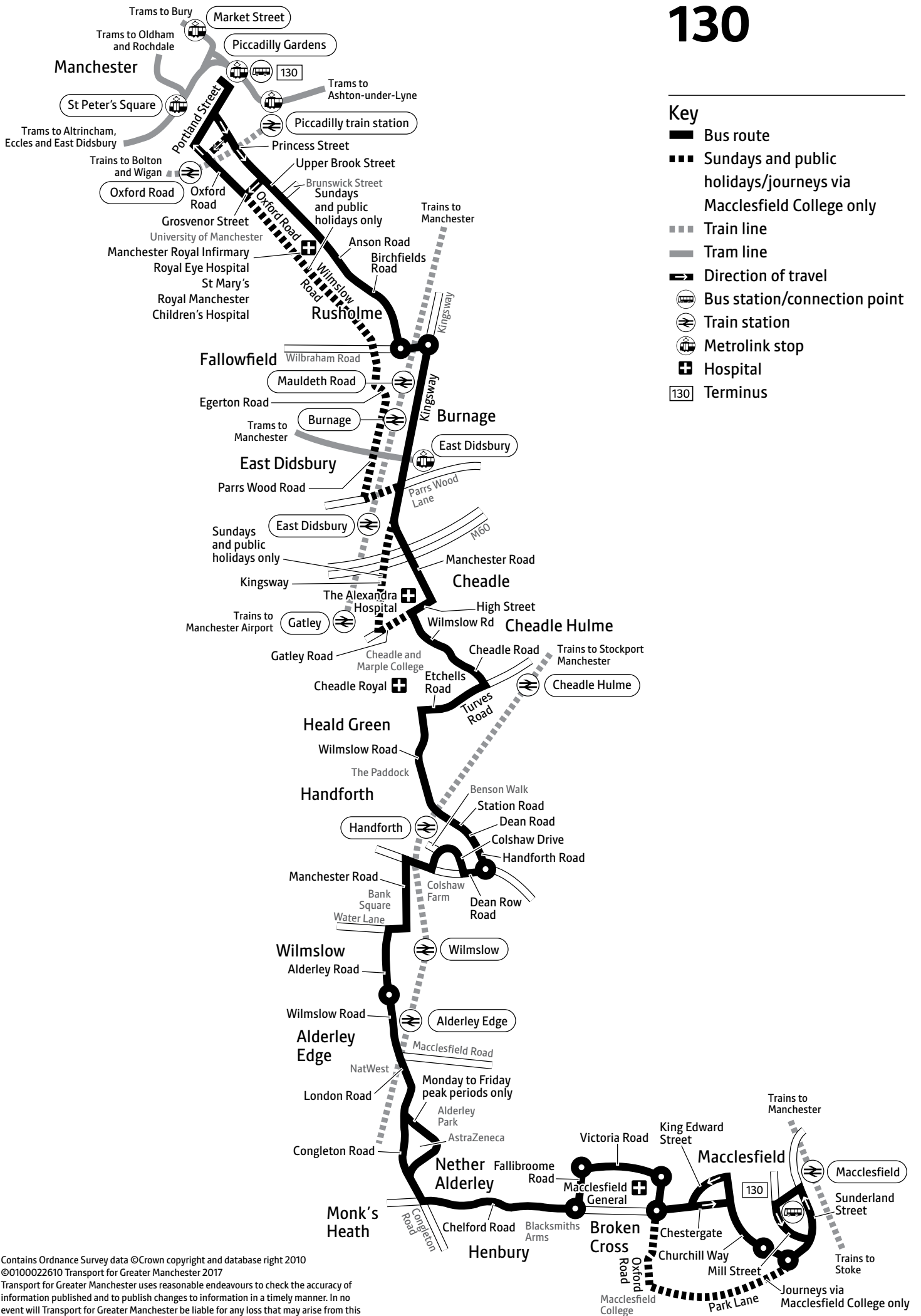
Mondays to Fridays

Macclesfield, Bus Station	0530	0550	0620	0640	0740	0818	0858	0938	1008	1038	1108	1138	1208	1238	1308	1338	1408	1438	1508	
Alderley Park			0645	0705	0805	0843	0923												1502	1532
Alderley Edge, NatWest Bank	0550	0610	0654	0714	0814	0852	0932	1004	1034	1104	1134	1204	1234	1304	1334	1404	1435	1511	1541	
Wilmslow, Bank Square	0558	0618	0704	0724	0824	0902	0941	1013	1043	1113	1143	1213	1243	1313	1343	1413	1445	1521	1551	
Colshaw Farm, Benson Walk	0603	0623	0712	0734	0832	0912	0949	1022	1050	1122	1150	1222	1250	1322	1350	1422	1452	1530	1558	
Handforth, The Paddock	0612	0632	0722	0744	0842	0929	0959	1059	1159	1259	1359	1459	1559	1659						
Cheadle and Marple College	0623	0643	0742		0902	1012	1111	1211	1311	1411	1517	1626								
East Didsbury, Parrs Wood	0634	0654	0755		0915	1024	1124	1224	1324	1425	1532	1645								
Oxford Road/Booth Street West		0702	0804		0924	1032	1132	1232	1332	1433	1541	1657								
Manchester, Piccadilly Gardens		0719	0829		0949	1050	1150	1250	1350	1453	1605	1725								

	b	b		
Macclesfield, Bus Station	1548	1635	1710	1825
Macclesfield College	1556	1643		
Alderley Park	1612	1704	1734	1847
Alderley Edge, NatWest Bank	1621	1713	1743	1856
Wilmslow, Bank Square	1631	1723	1752	1905
Colshaw Farm, Benson Walk	1638	1730	1801	1912
Handforth, The Paddock	1649	1741		1921
Cheadle and Marple College	1706	1758		1931
East Didsbury, Parrs Wood	1725	1817		1940
Oxford Road/Booth Street West	1737	1829		
Manchester, Piccadilly Gardens	1805	1857		

b – Runs via Park Lane and Oxford Road to serve Macclesfield College

♿ – All bus 130 journeys are run using easy access buses. See inside front cover of this Bus Times leaflet for details



Saturdays

Macclesfield, Bus Station	0608	0708	0808	0838	08	38		1708
Alderley Edge, NatWest Bank	0634	0734	0834	0904	34	04		1734
Wilmslow, Bank Square	0643	0743	0843	0913	43	13	mins	1743
Colshaw Farm, Benson Walk	0650	0750	0850	0922	then	50	22	past 1750
Handforth, The Paddock	0659	0759	0859		at	59		each 1759
Cheadle and Marple College	0711	0811	0911			11		hour 1811
East Didsbury, Parrs Wood	0724	0824	0924			24		until 1824
Oxford Road/Booth Street West	0732	0832	0932			32		1832
Manchester, Piccadilly Gardens	0750	0850	0950			50		1850

Sundays and public holidays (except Christmas and New Year period)

	a	a	a	a	a	a	a	a
Macclesfield, Bus Station	0900	1000	1200	1300	1400	1600	1700	
Alderley Edge, NatWest Bank		0921	1021	1221	1321	1421	1621	1721
Wilmslow, Bank Square	0829	0929	1029	1229	1329	1429	1629	1729
Colshaw Farm, Benson Walk	0835	0935	1035	1235	1335	1435	1635	1735
Handforth, The Paddock	0843	0943	1043	1243	1343	1443	1643	1743
Cheadle and Marple College	0852	0952	1052	1252	1352	1452	1652	1752
East Didsbury, Parrs Wood	0905	1005	1105	1305	1405	1505	1705	1805
Oxford Road/Booth Street West	0917	1017	1117	1317	1417	1517	1717	1817
Manchester, Piccadilly Gardens	0926	1026	1126	1326	1426	1526	1726	1826

For details of buses during Christmas and New Year, please phone 0161 244 1000

a – Runs via the Sunday and public holiday route shown on the route plan

♿ – All bus 130 journeys are run using easy access buses. See inside front cover of this Bus Times leaflet for details

Mondays to Fridays

	b	b																		
Manchester, Piccadilly Gardens			0728	0844	0958	1058	1158	1258	1358	1458	1612									
Oxford Road/Booth Street West			0746	0900	1012	1112	1212	1312	1414	1517	1631									
East Didsbury, Parris Wood	0619	0642	0803	0908	1020	1120	1220	1320	1422	1532	1646									
Cheadle and Marple College	0626	0649	0816	0921	1033	1133	1233	1333	1435	1545	1659									
Handforth, The Paddock	0637	0702	0747	0832	0934	1045	1145	1245	1345	1448	1716									
Colshaw Farm, Benson Walk	0645	0712	0757	0842	0915	0943	1024	1054	1124	1154	1224	1254	1324	1354	1424	1457	1532	1612	1726	
Wilmslow, Bank Square	0652	0719	0805	0850	0923	0951	1032	1102	1132	1202	1232	1302	1332	1402	1432	1505	1540	1620	1734	
Alderley Edge, NatWest Bank	0702	0729	0815	0900	0933	0959	1040	1110	1140	1210	1240	1310	1340	1410	1440	1513	1550	1632	1746	
Alderley Park	08710	0738	0823	0908	0941											1521	1558	1641	1755	
Macclesfield College		0758	0842																	
Macclesfield, Bus Station	0731	0806	0850	0930	1003	1024	1103	1133	1203	1233	1303	1333	1403	1433	1503	1543	1620	1705	1819	
Manchester, Piccadilly Gardens		1742	1824	1901																
Oxford Road/Booth Street West		1802	1844	1918																
East Didsbury, Parris Wood		1810	1852	1925																
Cheadle and Marple College		1821	1903	1935																
Handforth, The Paddock		1834	1916	1947																
Colshaw Farm, Benson Walk	1806	1841	1923	1954																
Wilmslow, Bank Square	1814	1847	1929	2000																
Alderley Edge, NatWest Bank	1826	1855	1937	2007																
Alderley Park	1835																			
Macclesfield, Bus Station	1859	1913	1955	2022																

b – Runs via Oxford Road and Park Lane to serve Macclesfield College

♿ – All bus 130 journeys are run using easy access buses. See inside front cover of this Bus Times leaflet for details

Saturdays

Manchester, Piccadilly Gardens			0758		58			1658	1758	
Oxford Road/Booth Street West			0812		12			1712	1812	
East Didsbury, Parrs Wood	0650	0750	0820		20		mins	1720	1820	
Cheadle and Marple College	0703	0803	0833		then	33		past	1733	1833
Handforth, The Paddock	0715	0815	0845		at	45		each	1745	1845
Colshaw Farm, Benson Walk	0724	0824	0854	0924		54	24	hour	1754	1854
Wilmslow, Bank Square	0732	0832	0902	0932		02	32	until	1802	1902
Alderley Edge, NatWest Bank	0740	0840	0910	0940		10	40		1810	1910
Macclesfield, Bus Station	0803	0903	0933	1003		33	03		1833	1933

Sundays and public holidays (except Christmas and New Year period)

	a	a	a	a	a	a	a	a	a
Manchester, Piccadilly Gardens	0929	1029	1129	1329	1429	1529	1729	1829	
Oxford Road/Booth Street West	0939	1039	1139	1339	1439	1539	1739	1839	
East Didsbury, Parrs Wood	0951	1051	1151	1351	1451	1551	1751	1851	
Cheadle and Marple College		1003	1103	1203	1403	1503	1603	1803	1903
Handforth, The Paddock		1011	1111	1211	1411	1511	1611	1811	1911
Colshaw Farm, Benson Walk		1019	1119	1219	1419	1519	1619	1819	1919
Wilmslow, Bank Square	0925	1025	1125	1225	1425	1525	1625	1825	1925
Alderley Edge, NatWest Bank	0933	1033	1133	1233	1433	1533	1633	1833	
Macclesfield, Bus Station	0954	1054	1154	1254	1454	1554	1654	1854	

For details of buses during Christmas and New Year, please phone 0161 244 1000

a – Runs via the Sunday and public holiday route shown on the route plan

♿ – All bus 130 journeys are run using easy access buses. See inside front cover of this Bus Times leaflet for details

Appendix C



Illustrative layout

Appendix D

Calculation Reference: AUDIT-734101-170831-0852

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	EX ESSEX	1 days
	HC HAMPSHIRE	1 days
	SC SURREY	1 days
	WS WEST SUSSEX	1 days
03	SOUTH WEST	
	DC DORSET	1 days
	DV DEVON	2 days
04	EAST ANGLIA	
	NF NORFOLK	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	2 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	3 days
	SY SOUTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	2 days
09	NORTH	
	CB CUMBRIA	1 days
	DH DURHAM	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 50 to 432 (units:)
 Range Selected by User: 50 to 450 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/08 to 28/08/17

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.

Selected survey days:

Monday	4 days
Tuesday	6 days
Wednesday	2 days
Thursday	4 days
Friday	3 days

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

Selected survey types:

Manual count	19 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)	11
Edge of Town	8

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

Selected Location Sub Categories:

Residential Zone	14
No Sub Category	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.

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters

1	CB-03-A-04	SEMI DETACHED		CUMBRIA
	MOORCLOSE ROAD			
	SALTERBACK			
	WORKINGTON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		82	
	Survey date: FRIDAY		24/04/09	Survey Type: MANUAL
2	CH-03-A-02	HOUSES/FLATS		CHESHIRE
	SYDNEY ROAD			
	CREWE			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		174	
	Survey date: TUESDAY		14/10/08	Survey Type: MANUAL
3	CH-03-A-06	SEMI-DET./BUNGALOWS		CHESHIRE
	CREWE ROAD			
	CREWE			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:		129	
	Survey date: TUESDAY		14/10/08	Survey Type: MANUAL
4	DC-03-A-01	DETACHED		DORSET
	ISAACS CLOSE			
	POOLE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		51	
	Survey date: WEDNESDAY		16/07/08	Survey Type: MANUAL
5	DH-03-A-01	SEMI DETACHED		DURHAM
	GREENFIELDS ROAD			
	BISHOP AUCKLAND			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		50	
	Survey date: TUESDAY		28/03/17	Survey Type: MANUAL
6	DV-03-A-02	HOUSES & BUNGALOWS		DEVON
	MILLHEAD ROAD			
	HONITON			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		116	
	Survey date: FRIDAY		25/09/15	Survey Type: MANUAL
7	DV-03-A-03	TERRACED & SEMI DETACHED		DEVON
	LOWER BRAND LANE			
	HONITON			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		70	
	Survey date: MONDAY		28/09/15	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

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LIST OF SITES relevant to selection parameters (Cont.)

8	EX-03-A-01 MILTON ROAD CORRINGHAM STANFORD-LE-HOPE Edge of Town Residential Zone Total Number of dwellings: 237 Survey date: TUESDAY 13/05/08	SEMI -DET.	ESSEX	Survey Type: MANUAL
9	HC-03-A-18 CANADA WAY LIPHOOK Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 62 Survey date: TUESDAY 29/11/16	HOUSES & FLATS	HAMPSHIRE	Survey Type: MANUAL
10	NE-03-A-02 HANOVER WALK SCUNTHORPE Edge of Town No Sub Category Total Number of dwellings: 432 Survey date: MONDAY 12/05/14	SEMI DETACHED & DETACHED	NORTH EAST LINCOLNSHIRE	Survey Type: MANUAL
11	NF-03-A-02 DEREHAM ROAD NORWICH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 98 Survey date: MONDAY 22/10/12	HOUSES & FLATS	NORFOLK	Survey Type: MANUAL
12	NY-03-A-06 HORSEFAIR BOROUGHBRIDGE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 115 Survey date: FRIDAY 14/10/11	BUNGALOWS & SEMI DET.	NORTH YORKSHIRE	Survey Type: MANUAL
13	NY-03-A-09 GRAMMAR SCHOOL LANE NORTHALLERTON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 52 Survey date: MONDAY 16/09/13	MIXED HOUSING	NORTH YORKSHIRE	Survey Type: MANUAL
14	NY-03-A-10 BOROUGHBRIDGE ROAD RIPON Edge of Town No Sub Category Total Number of dwellings: 71 Survey date: TUESDAY 17/09/13	HOUSES AND FLATS	NORTH YORKSHIRE	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

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LIST OF SITES relevant to selection parameters (Cont.)

15	SC-03-A-04 HIGH ROAD	DETACHED & TERRACED		SURREY
	BYFLEET Edge of Town Residential Zone			
	Total Number of dwellings:	71		
	Survey date: THURSDAY	23/01/14		Survey Type: MANUAL
16	SH-03-A-04 ST MICHAEL'S STREET	TERRACED		SHROPSHIRE
	SHREWSBURY Suburban Area (PPS6 Out of Centre) No Sub Category			
	Total Number of dwellings:	108		
	Survey date: THURSDAY	11/06/09		Survey Type: MANUAL
17	SH-03-A-05 SANDCROFT SUTTON HILL TELFORD	SEMI-DETACHED/TERRACED		SHROPSHIRE
	Edge of Town Residential Zone			
	Total Number of dwellings:	54		
	Survey date: THURSDAY	24/10/13		Survey Type: MANUAL
18	SY-03-A-01 A19 BENTLEY ROAD BENTLEY RISE DONCASTER	SEMI DETACHED HOUSES		SOUTH YORKSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:	54		
	Survey date: WEDNESDAY	18/09/13		Survey Type: MANUAL
19	WS-03-A-04 HILLS FARM LANE BROADBRIDGE HEATH HORSHAM	MIXED HOUSES		WEST SUSSEX
	Edge of Town Residential Zone			
	Total Number of dwellings:	151		
	Survey date: THURSDAY	11/12/14		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.

TTHC OXFORD STREET MANCHESTER

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TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	19	115	0.069	19	115	0.268	19	115	0.337
08:00 - 09:00	19	115	0.124	19	115	0.365	19	115	0.489
09:00 - 10:00	19	115	0.137	19	115	0.156	19	115	0.293
10:00 - 11:00	19	115	0.135	19	115	0.175	19	115	0.310
11:00 - 12:00	19	115	0.140	19	115	0.145	19	115	0.285
12:00 - 13:00	19	115	0.165	19	115	0.153	19	115	0.318
13:00 - 14:00	19	115	0.158	19	115	0.147	19	115	0.305
14:00 - 15:00	19	115	0.160	19	115	0.175	19	115	0.335
15:00 - 16:00	19	115	0.266	19	115	0.184	19	115	0.450
16:00 - 17:00	19	115	0.270	19	115	0.173	19	115	0.443
17:00 - 18:00	19	115	0.319	19	115	0.179	19	115	0.498
18:00 - 19:00	19	115	0.241	19	115	0.164	19	115	0.405
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.184			2.284			4.468

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.

Parameter summary

Trip rate parameter range selected: 50 - 432 (units:)
 Survey date date range: 01/01/08 - 28/08/17
 Number of weekdays (Monday-Friday): 19
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 1
 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.

Calculation Reference: AUDIT-734101-170831-0855

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	EX ESSEX	1 days
	HC HAMPSHIRE	1 days
	SC SURREY	1 days
	WS WEST SUSSEX	2 days
03	SOUTH WEST	
	DC DORSET	2 days
	DV DEVON	3 days
	SM SOMERSET	1 days
04	EAST ANGLIA	
	NF NORFOLK	3 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	4 days
	ST STAFFORDSHIRE	1 days
	WK WARWICKSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	6 days
	SY SOUTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	5 days
	GM GREATER MANCHESTER	1 days
	MS MERSEYSIDE	1 days
09	NORTH	
	CB CUMBRIA	2 days
	DH DURHAM	1 days
	TW TYNE & WEAR	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 10 to 432 (units:)
 Range Selected by User: 10 to 450 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/08 to 28/08/17

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.

Selected survey days:

Monday	8 days
Tuesday	11 days
Wednesday	9 days
Thursday	8 days
Friday	6 days

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

Selected survey types:

Manual count	42 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)	20
Edge of Town	22

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

Selected Location Sub Categories:

Residential Zone	35
No Sub Category	7

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.

TTHC OXFORD STREET MANCHESTER

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LIST OF SITES relevant to selection parameters

1	CB-03-A-03	SEMI DETACHED		CUMBRIA
	HAWKSHEAD AVENUE			
	WORKINGTON			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		40	
	Survey date:	THURSDAY	20/11/08	Survey Type: MANUAL
2	CB-03-A-04	SEMI DETACHED		CUMBRIA
	MOORCLOSE ROAD			
	SALTERBACK			
	WORKINGTON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		82	
	Survey date:	FRIDAY	24/04/09	Survey Type: MANUAL
3	CH-03-A-02	HOUSES/FLATS		CHESHIRE
	SYDNEY ROAD			
	CREWE			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		174	
	Survey date:	TUESDAY	14/10/08	Survey Type: MANUAL
4	CH-03-A-05	DETACHED		CHESHIRE
	SYDNEY ROAD			
	SYDNEY			
	CREWE			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		17	
	Survey date:	TUESDAY	14/10/08	Survey Type: MANUAL
5	CH-03-A-06	SEMI-DET./BUNGALOWS		CHESHIRE
	CREWE ROAD			
	CREWE			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:		129	
	Survey date:	TUESDAY	14/10/08	Survey Type: MANUAL
6	CH-03-A-08	DETACHED		CHESHIRE
	WHITCHURCH ROAD			
	BOUGHTON HEATH			
	CHESTER			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		11	
	Survey date:	TUESDAY	22/05/12	Survey Type: MANUAL
7	CH-03-A-09	TERRACED HOUSES		CHESHIRE
	GREYSTOKE ROAD			
	HURDSFIELD			
	MACCLESFIELD			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		24	
	Survey date:	MONDAY	24/11/14	Survey Type: MANUAL
8	DC-03-A-01	DETACHED		DORSET
	ISAACS CLOSE			
	POOLE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		51	
	Survey date:	WEDNESDAY	16/07/08	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters (Cont.)

9	DC-03-A-08	BUNGALOWS		DORSET
	HURSTDENE ROAD			
	CASTLE LANE WEST			
	BOURNEMOUTH			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		28	
	Survey date:	MONDAY	24/03/14	Survey Type: MANUAL
10	DH-03-A-01	SEMI DETACHED		DURHAM
	GREENFIELDS ROAD			
	BISHOP AUCKLAND			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		50	
	Survey date:	TUESDAY	28/03/17	Survey Type: MANUAL
11	DV-03-A-01	TERRACED HOUSES		DEVON
	BRONSHILL ROAD			
	TORQUAY			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		37	
	Survey date:	WEDNESDAY	30/09/15	Survey Type: MANUAL
12	DV-03-A-02	HOUSES & BUNGALOWS		DEVON
	MILLHEAD ROAD			
	HONITON			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		116	
	Survey date:	FRIDAY	25/09/15	Survey Type: MANUAL
13	DV-03-A-03	TERRACED & SEMI DETACHED		DEVON
	LOWER BRAND LANE			
	HONITON			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		70	
	Survey date:	MONDAY	28/09/15	Survey Type: MANUAL
14	ES-03-A-02	PRIVATE HOUSING		EAST SUSSEX
	SOUTH COAST ROAD			
	PEACEHAVEN			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		37	
	Survey date:	FRIDAY	18/11/11	Survey Type: MANUAL
15	EX-03-A-01	SEMI -DET.		ESSEX
	MILTON ROAD			
	CORRINGHAM			
	STANFORD-LE-HOPE			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		237	
	Survey date:	TUESDAY	13/05/08	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters (Cont.)

16	GM-03-A-10 BUTT HILL DRIVE PRESTWICH MANCHESTER Edge of Town Residential Zone	DETACHED/SEMI		GREATER MANCHESTER
	Total Number of dwellings:		29	
	Survey date:	WEDNESDAY	12/10/11	Survey Type: MANUAL
17	HC-03-A-18 CANADA WAY	HOUSES & FLATS		HAMPSHIRE
	LIPHOOK Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:		62	
	Survey date:	TUESDAY	29/11/16	Survey Type: MANUAL
18	LN-03-A-03 ROOKERY LANE BOULTHAM LINCOLN Suburban Area (PPS6 Out of Centre) Residential Zone	SEMI DETACHED		LINCOLNSHIRE
	Total Number of dwellings:		22	
	Survey date:	TUESDAY	18/09/12	Survey Type: MANUAL
19	MS-03-A-03 BEMPTON ROAD OTTERSPOOL LIVERPOOL Suburban Area (PPS6 Out of Centre) Residential Zone	DETACHED		MERSEYSIDE
	Total Number of dwellings:		15	
	Survey date:	FRIDAY	21/06/13	Survey Type: MANUAL
20	NE-03-A-02 HANOVER WALK	SEMI DETACHED & DETACHED		NORTH EAST LINCOLNSHIRE
	SCUNTHORPE Edge of Town No Sub Category			
	Total Number of dwellings:		432	
	Survey date:	MONDAY	12/05/14	Survey Type: MANUAL
21	NF-03-A-01 YARMOUTH ROAD	SEMI DET. & BUNGALOWS		NORFOLK
	CAISTER-ON-SEA Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:		27	
	Survey date:	TUESDAY	16/10/12	Survey Type: MANUAL
22	NF-03-A-02 DEREHAM ROAD	HOUSES & FLATS		NORFOLK
	NORWICH Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:		98	
	Survey date:	MONDAY	22/10/12	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

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LIST OF SITES relevant to selection parameters (Cont.)

23	NF-03-A-03 HALING WAY	DETACHED HOUSES	NORFOLK
	THETFORD		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	10	
	Survey date: WEDNESDAY	16/09/15	Survey Type: MANUAL
24	NY-03-A-06 HORSEFAIR	BUNGALOWS & SEMI DET.	NORTH YORKSHIRE
	BOROUGHBRIDGE		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	115	
	Survey date: FRIDAY	14/10/11	Survey Type: MANUAL
25	NY-03-A-07 CRAVEN WAY	DETACHED & SEMI DET.	NORTH YORKSHIRE
	BOROUGHBRIDGE		
	Edge of Town		
	No Sub Category		
	Total Number of dwellings:	23	
	Survey date: TUESDAY	18/10/11	Survey Type: MANUAL
26	NY-03-A-08 NICHOLAS STREET	TERRACED HOUSES	NORTH YORKSHIRE
	YORK		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	21	
	Survey date: MONDAY	16/09/13	Survey Type: MANUAL
27	NY-03-A-09 GRAMMAR SCHOOL LANE	MIXED HOUSING	NORTH YORKSHIRE
	NORTHALLERTON		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	52	
	Survey date: MONDAY	16/09/13	Survey Type: MANUAL
28	NY-03-A-10 BOROUGHBRIDGE ROAD	HOUSES AND FLATS	NORTH YORKSHIRE
	RIPON		
	Edge of Town		
	No Sub Category		
	Total Number of dwellings:	71	
	Survey date: TUESDAY	17/09/13	Survey Type: MANUAL
29	NY-03-A-11 HORSEFAIR	PRIVATE HOUSING	NORTH YORKSHIRE
	BOROUGHBRIDGE		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	23	
	Survey date: WEDNESDAY	18/09/13	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

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LIST OF SITES relevant to selection parameters (Cont.)

30	SC-03-A-04 HIGH ROAD	DETACHED & TERRACED		SURREY
	BYFLEET Edge of Town Residential Zone			
	Total Number of dwellings:	71		
	Survey date: THURSDAY	23/01/14		Survey Type: MANUAL
31	SF-03-A-05 VALE LANE	DETACHED HOUSES		SUFFOLK
	BURY ST EDMUNDS Edge of Town Residential Zone			
	Total Number of dwellings:	18		
	Survey date: WEDNESDAY	09/09/15		Survey Type: MANUAL
32	SH-03-A-03 SOMERBY DRIVE BICTON HEATH SHREWSBURY	DETACHED		SHROPSHIRE
	Edge of Town No Sub Category			
	Total Number of dwellings:	10		
	Survey date: FRIDAY	26/06/09		Survey Type: MANUAL
33	SH-03-A-04 ST MICHAEL'S STREET	TERRACED		SHROPSHIRE
	SHREWSBURY Suburban Area (PPS6 Out of Centre) No Sub Category			
	Total Number of dwellings:	108		
	Survey date: THURSDAY	11/06/09		Survey Type: MANUAL
34	SH-03-A-05 SANDCROFT SUTTON HILL TELFORD	SEMI-DETACHED/TERRACED		SHROPSHIRE
	Edge of Town Residential Zone			
	Total Number of dwellings:	54		
	Survey date: THURSDAY	24/10/13		Survey Type: MANUAL
35	SH-03-A-06 ELLESMERE ROAD	BUNGALOWS		SHROPSHIRE
	SHREWSBURY Edge of Town Residential Zone			
	Total Number of dwellings:	16		
	Survey date: THURSDAY	22/05/14		Survey Type: MANUAL
36	SM-03-A-01 WEMBDON ROAD NORTHFIELD BRIDGWATER	DETACHED & SEMI		SOMERSET
	Edge of Town Residential Zone			
	Total Number of dwellings:	33		
	Survey date: THURSDAY	24/09/15		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

37	ST-03-A-05	TERRACED & DETACHED		STAFFORDSHIRE
	WATERMEET GROVE			
	ETRURIA			
	STOKE-ON-TRENT			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		14	
	Survey date:	WEDNESDAY	26/11/08	Survey Type: MANUAL
38	SY-03-A-01	SEMI DETACHED HOUSES		SOUTH YORKSHIRE
	A19 BENTLEY ROAD			
	BENTLEY RISE			
	DONCASTER			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		54	
	Survey date:	WEDNESDAY	18/09/13	Survey Type: MANUAL
39	TW-03-A-02	SEMI-DETACHED		TYNE & WEAR
	WEST PARK ROAD			
	GATESHEAD			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		16	
	Survey date:	MONDAY	07/10/13	Survey Type: MANUAL
40	WK-03-A-02	BUNGALOWS		WARWICKSHIRE
	NARBERTH WAY			
	POTTERS GREEN			
	COVENTRY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		17	
	Survey date:	THURSDAY	17/10/13	Survey Type: MANUAL
41	WS-03-A-04	MIXED HOUSES		WEST SUSSEX
	HILLS FARM LANE			
	BROADBRIDGE HEATH			
	HORSHAM			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		151	
	Survey date:	THURSDAY	11/12/14	Survey Type: MANUAL
42	WS-03-A-05	TERRACED & FLATS		WEST SUSSEX
	UPPER SHOREHAM ROAD			
	SHOREHAM BY SEA			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		48	
	Survey date:	WEDNESDAY	18/04/12	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.

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	42	65	0.073	42	65	0.273	42	65	0.346
08:00 - 09:00	42	65	0.130	42	65	0.373	42	65	0.503
09:00 - 10:00	42	65	0.138	42	65	0.163	42	65	0.301
10:00 - 11:00	42	65	0.139	42	65	0.164	42	65	0.303
11:00 - 12:00	42	65	0.146	42	65	0.154	42	65	0.300
12:00 - 13:00	42	65	0.167	42	65	0.156	42	65	0.323
13:00 - 14:00	42	65	0.159	42	65	0.149	42	65	0.308
14:00 - 15:00	42	65	0.160	42	65	0.180	42	65	0.340
15:00 - 16:00	42	65	0.266	42	65	0.189	42	65	0.455
16:00 - 17:00	42	65	0.282	42	65	0.175	42	65	0.457
17:00 - 18:00	42	65	0.328	42	65	0.178	42	65	0.506
18:00 - 19:00	42	65	0.237	42	65	0.163	42	65	0.400
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.225			2.317			4.542

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.

Parameter summary

Trip rate parameter range selected:	10 - 432 (units:)
Survey date date range:	01/01/08 - 28/08/17
Number of weekdays (Monday-Friday):	42
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	2
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.

Calculation Reference: AUDIT-734101-170831-0814

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	EX ESSEX	1 days
	HC HAMPSHIRE	1 days
	SC SURREY	1 days
	WS WEST SUSSEX	2 days
03	SOUTH WEST	
	DC DORSET	1 days
	DV DEVON	3 days
	SM SOMERSET	1 days
04	EAST ANGLIA	
	NF NORFOLK	3 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	4 days
	ST STAFFORDSHIRE	1 days
	WK WARWICKSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	6 days
	SY SOUTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	5 days
	GM GREATER MANCHESTER	1 days
	MS MERSEYSIDE	1 days
09	NORTH	
	CB CUMBRIA	2 days
	DH DURHAM	1 days
	TW TYNE & WEAR	1 days

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

Secondary Filtering selection:

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

Parameter: Number of dwellings
 Actual Range: 10 to 432 (units:)
 Range Selected by User: 10 to 450 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/08 to 28/08/17

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.

Selected survey days:

Monday	7 days
Tuesday	11 days
Wednesday	9 days
Thursday	8 days
Friday	6 days

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

Selected survey types:

Manual count	41 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)	20
Edge of Town	21

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

Selected Location Sub Categories:

Residential Zone	34
No Sub Category	7

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.

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters

1	CB-03-A-03	SEMI DETACHED		CUMBRIA
	HAWKSHEAD AVENUE			
	WORKINGTON			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		40	
	Survey date:	THURSDAY	20/11/08	Survey Type: MANUAL
2	CB-03-A-04	SEMI DETACHED		CUMBRIA
	MOORCLOSE ROAD			
	SALTERBACK			
	WORKINGTON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		82	
	Survey date:	FRIDAY	24/04/09	Survey Type: MANUAL
3	CH-03-A-02	HOUSES/FLATS		CHESHIRE
	SYDNEY ROAD			
	CREWE			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		174	
	Survey date:	TUESDAY	14/10/08	Survey Type: MANUAL
4	CH-03-A-05	DETACHED		CHESHIRE
	SYDNEY ROAD			
	SYDNEY			
	CREWE			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		17	
	Survey date:	TUESDAY	14/10/08	Survey Type: MANUAL
5	CH-03-A-06	SEMI-DET./BUNGALOWS		CHESHIRE
	CREWE ROAD			
	CREWE			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:		129	
	Survey date:	TUESDAY	14/10/08	Survey Type: MANUAL
6	CH-03-A-08	DETACHED		CHESHIRE
	WHITCHURCH ROAD			
	BOUGHTON HEATH			
	CHESTER			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		11	
	Survey date:	TUESDAY	22/05/12	Survey Type: MANUAL
7	CH-03-A-09	TERRACED HOUSES		CHESHIRE
	GREYSTOKE ROAD			
	HURDSFIELD			
	MACCLESFIELD			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		24	
	Survey date:	MONDAY	24/11/14	Survey Type: MANUAL
8	DC-03-A-01	DETACHED		DORSET
	ISAACS CLOSE			
	POOLE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		51	
	Survey date:	WEDNESDAY	16/07/08	Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters (Cont.)

9	DH-03-A-01 GREENFIELDS ROAD	SEMI DETACHED		DURHAM
	BISHOP AUCKLAND Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 50 Survey date: TUESDAY 28/03/17			
10	DV-03-A-01 BRONSHILL ROAD	TERRACED HOUSES		Survey Type: MANUAL DEVON
	TORQUAY Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 37 Survey date: WEDNESDAY 30/09/15			
11	DV-03-A-02 MILLHEAD ROAD	HOUSES & BUNGALOWS		Survey Type: MANUAL DEVON
	HONITON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 116 Survey date: FRIDAY 25/09/15			
12	DV-03-A-03 LOWER BRAND LANE	TERRACED & SEMI DETACHED		Survey Type: MANUAL DEVON
	HONITON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 70 Survey date: MONDAY 28/09/15			
13	ES-03-A-02 SOUTH COAST ROAD	PRIVATE HOUSING		Survey Type: MANUAL EAST SUSSEX
	PEACEHAVEN Edge of Town Residential Zone Total Number of dwellings: 37 Survey date: FRIDAY 18/11/11			
14	EX-03-A-01 MILTON ROAD CORRINGHAM STANFORD-LE-HOPE	SEMI-DET.		Survey Type: MANUAL ESSEX
	Edge of Town Residential Zone Total Number of dwellings: 237 Survey date: TUESDAY 13/05/08			
15	GM-03-A-10 BUTT HILL DRIVE PRESTWICH MANCHESTER	DETACHED/SEMI		Survey Type: MANUAL GREATER MANCHESTER
	Edge of Town Residential Zone Total Number of dwellings: 29 Survey date: WEDNESDAY 12/10/11			

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters (Cont.)

16	HC-03-A-18 CANADA WAY	HOUSES & FLATS		HAMPSHIRE
	LIPHOOK Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:	62		
	Survey date: TUESDAY	29/11/16		Survey Type: MANUAL
17	LN-03-A-03 ROOKERY LANE BOULTHAM LINCOLN	SEMI DETACHED		LINCOLNSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:	22		
	Survey date: TUESDAY	18/09/12		Survey Type: MANUAL
18	MS-03-A-03 BEMPTON ROAD OTTERSPOOL LIVERPOOL	DETACHED		MERSEYSIDE
	Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:	15		
	Survey date: FRIDAY	21/06/13		Survey Type: MANUAL
19	NE-03-A-02 HANOVER WALK	SEMI DETACHED & DETACHED		NORTH EAST LINCOLNSHIRE
	SCUNTHORPE Edge of Town No Sub Category			
	Total Number of dwellings:	432		
	Survey date: MONDAY	12/05/14		Survey Type: MANUAL
20	NF-03-A-01 YARMOUTH ROAD	SEMI DET. & BUNGALOWS		NORFOLK
	CAISTER-ON-SEA Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:	27		
	Survey date: TUESDAY	16/10/12		Survey Type: MANUAL
21	NF-03-A-02 DEREHAM ROAD	HOUSES & FLATS		NORFOLK
	NORWICH Suburban Area (PPS6 Out of Centre) Residential Zone			
	Total Number of dwellings:	98		
	Survey date: MONDAY	22/10/12		Survey Type: MANUAL
22	NF-03-A-03 HALING WAY	DETACHED HOUSES		NORFOLK
	THETFORD Edge of Town Residential Zone			
	Total Number of dwellings:	10		
	Survey date: WEDNESDAY	16/09/15		Survey Type: MANUAL

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters (Cont.)

23	NY-03-A-06 HORSEFAIR	BUNGALOWS & SEMI DET.		NORTH YORKSHIRE
	BOROUGHBRIDGE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 115 Survey date: FRIDAY 14/10/11			
	Survey Type: MANUAL			
24	NY-03-A-07 CRAVEN WAY	DETACHED & SEMI DET.		NORTH YORKSHIRE
	BOROUGHBRIDGE Edge of Town No Sub Category Total Number of dwellings: 23 Survey date: TUESDAY 18/10/11			
	Survey Type: MANUAL			
25	NY-03-A-08 NICHOLAS STREET	TERRACED HOUSES		NORTH YORKSHIRE
	YORK Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 21 Survey date: MONDAY 16/09/13			
	Survey Type: MANUAL			
26	NY-03-A-09 GRAMMAR SCHOOL LANE	MIXED HOUSING		NORTH YORKSHIRE
	NORTHALLERTON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 52 Survey date: MONDAY 16/09/13			
	Survey Type: MANUAL			
27	NY-03-A-10 BOROUGHBRIDGE ROAD	HOUSES AND FLATS		NORTH YORKSHIRE
	RIPON Edge of Town No Sub Category Total Number of dwellings: 71 Survey date: TUESDAY 17/09/13			
	Survey Type: MANUAL			
28	NY-03-A-11 HORSEFAIR	PRIVATE HOUSING		NORTH YORKSHIRE
	BOROUGHBRIDGE Edge of Town Residential Zone Total Number of dwellings: 23 Survey date: WEDNESDAY 18/09/13			
	Survey Type: MANUAL			
29	SC-03-A-04 HIGH ROAD	DETACHED & TERRACED		SURREY
	BYFLEET Edge of Town Residential Zone Total Number of dwellings: 71 Survey date: THURSDAY 23/01/14			
	Survey Type: MANUAL			

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

LIST OF SITES relevant to selection parameters (Cont.)

30	SF-03-A-05 VALE LANE	DETACHED HOUSES		SUFFOLK
	BURY ST EDMUNDS			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	18		
	Survey date: WEDNESDAY	09/09/15		Survey Type: MANUAL
31	SH-03-A-03 SOMERBY DRIVE	DETACHED		SHROPSHIRE
	BICTON HEATH			
	SHREWSBURY			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:	10		
	Survey date: FRIDAY	26/06/09		Survey Type: MANUAL
32	SH-03-A-04 ST MICHAEL'S STREET	TERRACED		SHROPSHIRE
	SHREWSBURY			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total Number of dwellings:	108		
	Survey date: THURSDAY	11/06/09		Survey Type: MANUAL
33	SH-03-A-05 SANDCROFT	SEMI -DETACHED/TERRACED		SHROPSHIRE
	SUTTON HILL			
	TELFORD			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	54		
	Survey date: THURSDAY	24/10/13		Survey Type: MANUAL
34	SH-03-A-06 ELLESMERE ROAD	BUNGALOWS		SHROPSHIRE
	SHREWSBURY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	16		
	Survey date: THURSDAY	22/05/14		Survey Type: MANUAL
35	SM-03-A-01 WEMBDON ROAD	DETACHED & SEMI		SOMERSET
	NORTHFIELD			
	BRIDGWATER			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:	33		
	Survey date: THURSDAY	24/09/15		Survey Type: MANUAL
36	ST-03-A-05 WATERMEET GROVE	TERRACED & DETACHED		STAFFORDSHIRE
	ETRURIA			
	STOKE-ON-TRENT			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:	14		
	Survey date: WEDNESDAY	26/11/08		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

37	SY-03-A-01	SEMI DETACHED HOUSES		SOUTH YORKSHIRE
	A19 BENTLEY ROAD			
	BENTLEY RISE			
	DONCASTER			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		54	
	Survey date: WEDNESDAY		18/09/13	Survey Type: MANUAL
38	TW-03-A-02	SEMI-DETACHED		TYNE & WEAR
	WEST PARK ROAD			
	GATESHEAD			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		16	
	Survey date: MONDAY		07/10/13	Survey Type: MANUAL
39	WK-03-A-02	BUNGALOWS		WARWICKSHIRE
	NARBERTH WAY			
	POTTERS GREEN			
	COVENTRY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		17	
	Survey date: THURSDAY		17/10/13	Survey Type: MANUAL
40	WS-03-A-04	MIXED HOUSES		WEST SUSSEX
	HILLS FARM LANE			
	BROADBRIDGE HEATH			
	HORSHAM			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		151	
	Survey date: THURSDAY		11/12/14	Survey Type: MANUAL
41	WS-03-A-05	TERRACED & FLATS		WEST SUSSEX
	UPPER SHOREHAM ROAD			
	SHOREHAM BY SEA			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Number of dwellings:		48	
	Survey date: WEDNESDAY		18/04/12	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.

TTHC OXFORD STREET MANCHESTER

Licence No: 734101

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	41	65	0.072	41	65	0.274	41	65	0.346
08:00 - 09:00	41	65	0.130	41	65	0.375	41	65	0.505
09:00 - 10:00	41	65	0.138	41	65	0.162	41	65	0.300
10:00 - 11:00	41	65	0.138	41	65	0.164	41	65	0.302
11:00 - 12:00	41	65	0.144	41	65	0.149	41	65	0.293
12:00 - 13:00	41	65	0.163	41	65	0.155	41	65	0.318
13:00 - 14:00	41	65	0.157	41	65	0.148	41	65	0.305
14:00 - 15:00	41	65	0.159	41	65	0.179	41	65	0.338
15:00 - 16:00	41	65	0.268	41	65	0.189	41	65	0.457
16:00 - 17:00	41	65	0.282	41	65	0.175	41	65	0.457
17:00 - 18:00	41	65	0.330	41	65	0.178	41	65	0.508
18:00 - 19:00	41	65	0.239	41	65	0.164	41	65	0.403
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.220			2.312			4.532

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.

Parameter summary

Trip rate parameter range selected: 10 - 432 (units:)
 Survey date date range: 01/01/08 - 28/08/17
 Number of weekdays (Monday-Friday): 41
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 2
 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.

Appendix E

AM Peak

Level	Area	Local Growth Figure
Authority	Cheshire East	1.055
E02003856	Cheshire East 004	1.060

PM Peak

Level	Area	Local Growth Figure
Authority	Cheshire East	1.052
E02003856	Cheshire East 004	1.057

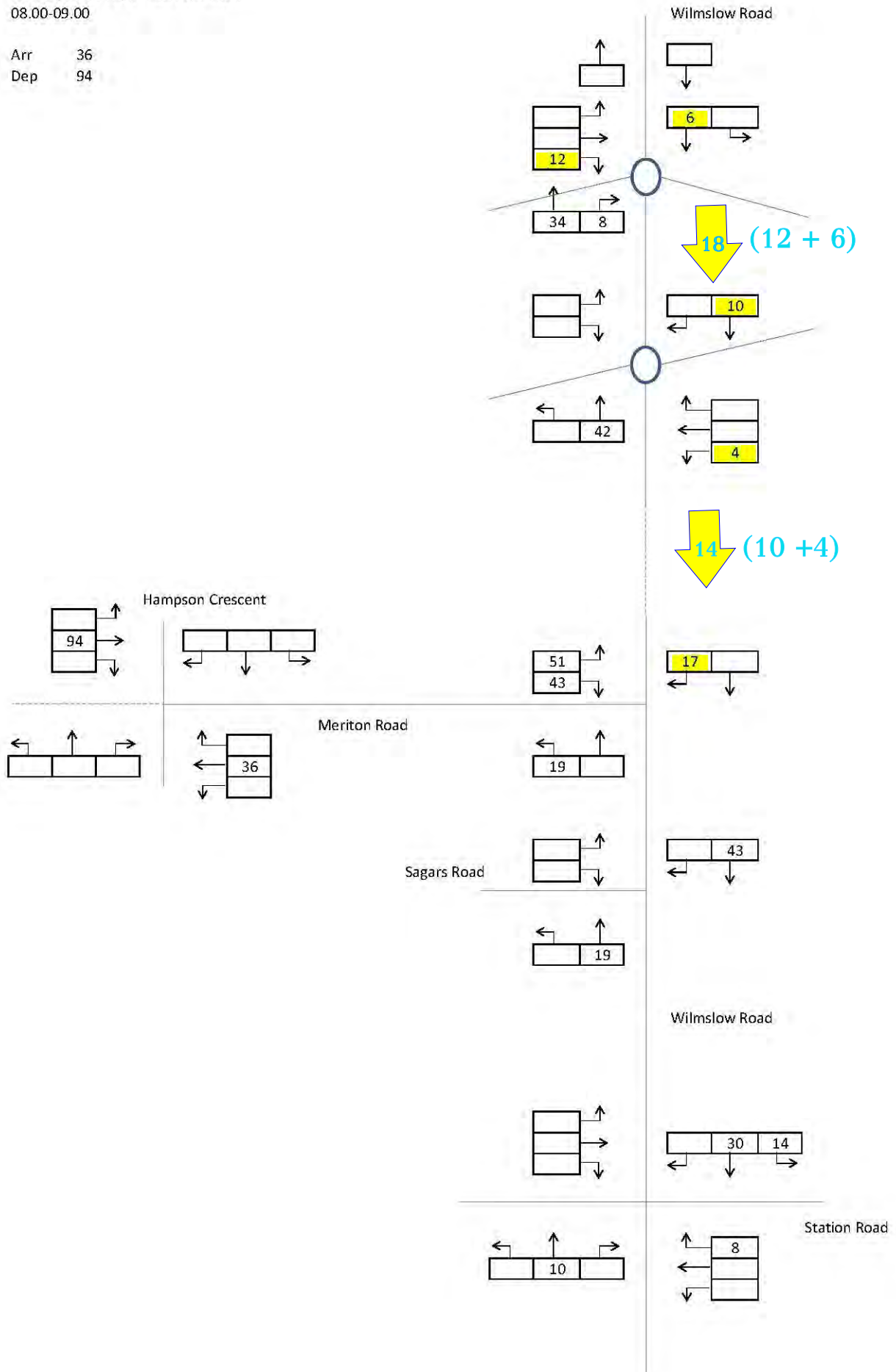
Appendix F

Appendix F

Development Trips - AM Peak Hour
08.00-09.00

Arr 36
Dep 94

■ = Relevant Trip Flows



Appendix F

Development Trips - PM Peak Hour
17.00-18.00

Arr 83
Dep 46

■ = Relevant Trip Flows

