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TPS DEZ Developments Ltd

**Proposed Mixed-Use Development,
100 Booker Avenue, Liverpool**

A086135

Transport Statement

21 May 2014

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1. Introduction

1.1 Preamble

- 1.1.1 WYG has been appointed by TPS DEZ Developments Ltd (the 'Applicant') to prepare a Transport Statement (TS) to accompany a detailed planning application for the proposed redevelopment of a former petrol filling station (PFS) site at 100 Booker Avenue, Liverpool, (the 'Site').
- 1.1.2 The proposals are for a mixed used development comprising a single-storey retail unit (A1 Use Class) of approximately 372 sq.m and two residential dwellings (C3 Use Class) located at the junction of Booker Avenue and Greenhill Road, Liverpool.
- 1.1.3 Given the scale of the development and in accordance with current Department for Transport (DfT) guidance, a Transport Statement has been prepared to consider the development in highways and transportation terms.
- 1.1.4 The methodology used in this assessment adopts the guidance set out in the DfT document 'Guidance for Transport Assessment (2007)'.
- 1.1.5 The TS provides information on the transportation aspects of the development proposals and forms supplementary information to assist with the determination of the planning application.

1.2 Report Structure

- 1.2.1 The TS describes the key transport issues associate with the Site and demonstrates how the proposals will achieve a sustainable development which will not have an adverse impact upon the surrounding highway network.
- 1.2.2 The report is structured as follows;
- **Section 2** outlines the local and national policy context relevant to the development proposals.
 - **Section 3** describes the existing site conditions, including the existing development, local highway network, sustainable transport options and personal injury accident history.
 - **Section 4** provides details of the proposed development, including access arrangements, parking provision and servicing arrangements.



- **Section 5** provides an estimate and comparison of the likely traffic generation associated with the existing lawful extant use (PFS) and the development proposals.

1.2.3 The TS will conclude in **Section 6**, that the proposals will not have an adverse impact upon the adjoining highway network and that there are no transportation or highways reasons why the proposed development should not be approved.



2. Policy Context

2.1 Preamble

2.1.1 This chapter of the TS reviews and analyses the relevant current and emerging transport planning policy and policy guidance documents in the context of the proposed development at the Site.

2.1.2 The policies reviewed within this chapter demonstrate the ways in which the proposed development at the Site is consistent with policy objectives at a national and local level. The relevant policies considered are as follows:

- Government's National Planning Policy Framework (NPPF) (March 2012)
- Liverpool Unitary Development Plan Policies (2002)
- Ensuring Choice of Travel Supplementary Planning Document

2.2 National Planning Policy Framework (2012)

2.2.1 The Department for Communities and Local Government published its National Planning Policy Framework (NPPF) in 2012. The NPPF replaces all previous Planning Policy Guidance (PPG) Notes and Planning Policy Statements (PPS) with a single document. This is in line with the Government's 'Localism' reforms, to reduce the role of central guidance and rationalise planning policies nationally.

2.2.2 Local authorities are expected to grant permission, using the NPPF as policy, where the Local Plan is absent, silent, indeterminate or where relevant policies are out of date, unless the adverse effects of granting planning permission significantly and demonstrably outweigh the benefits of the scheme.

2.2.3 At the heart of NPPF is:

"a presumption in favour of sustainable development, which should be seen as a golden thread running through both plan-making and decision-taking" (paragraph 14).

2.2.4 Further to this the NPPF states in paragraph 15 that policies in:

"Local Plans should follow the approach of the presumption in favour of sustainable development so that it is clear that development which is sustainable can be approved without delay. All plans



should be based upon and reflect the presumption in favour of sustainable development, with clear policies that will guide how the presumption should be applied locally”.

2.2.5 NPPF states that development planning should:

- *“...give “people a real choice about how they travel” (paragraph 29)*
- *“ensure developments that generate significant movement are located where the need to travel will be minimised and the use of sustainable transport modes can be maximised” (paragraph 34)*
- *“developments should be located and designed where practical to give priority to pedestrians and cycle movements, and have access to high quality public transport facilities” (paragraph 35).*

2.2.6 NPPF sets out a test for the acceptability of planning applications in terms of highway impact it says that: *“Development should only be prevented or refused on transport grounds where the residual cumulative impacts of development are severe” (Paragraph 32).*

2.2.7 It is therefore clear from the NPPF that development:

- Should be capable of being accessed satisfactorily with safe and suitable access provided for all.
- Should be sustainable, with preference given to accessibility by sustainable modes of transport.
- Should not be prevented unless the impacts of the development are severe.

2.2.8 It will be demonstrated in subsequent sections of this TS that that the Site can be accessed safely and by sustainable modes of travel. Furthermore the change in use at the Site will not have an adverse or severe impact upon the adjoining highway network and will result in a significant reduction in vehicular trips when compared against the former extant use at the Site.

2.3 Liverpool Unitary Development Plan Policies

2.3.1 Liverpool’s current local plan, The City of Liverpool Unitary Development Plan was adopted in 2002, this forms the statutory basis in which current planning decisions are made by LCC. At the time of writing LCC are in the process of working on a new plan to replace it and have advanced to the preparation of their Core Strategy Development Plan Submission Draft Document. Once adopted, it will provide a framework for development up until 2031.



2.3.2 Liverpool UDP was adopted in November 2002. The UDP provides guidance on a wide range of land use issues which provide the basis upon which development planning decisions are made by LCC. The transport policies relevant to the proposed development have been extracted from the UDP and are detailed below:

"Policy T12

All new developments including changes of use, which generate a demand for car parking will be required to make provision for car parking on site, to meet the minimum operational needs of the development. Additional space for non operational car parking will be permitted up to a maximum standard. This will be determined by:

- *the nature and type of use;*
- *whether off-site car parking would result in a danger to highway and pedestrian safety;*
- *whether the locality in which the proposed development is located is served by public car parking facilities;*
- *whether off-site parking would result in demonstrable harm to residential amenity; and*
- *the relative accessibility of the development site by public transport services."*

2.3.3 Car and cycle parking provision at the proposed development has been planned in accordance with the maximum standards set out in the LCC "Ensuring Choice of Travel Supplementary Planning Document", the councils adopted parking standards.

"Policy T13

Car parking for the disabled should be provided in accordance with the following specific standards:

- i. a minimum of 6% of the first hundred parking spaces in a development should be reserved for Orange Badge holders. Thereafter, the number of spaces will be negotiable;*
- ii. parking bays should be wide enough to facilitate the easy transfer of a wheelchair to and from a car;*
- iii. disabled parking bays should be clearly marked as such and be located close to the point of access to and from the development served;"*

2.3.4 The number of disabled car parking spaces at the Site will adhere to these standards and will be located within close proximity to the store access.



2.4 Ensuring Choice of Travel Supplementary Planning Document

- 2.4.1 This Supplementary Planning Document (SPD) has been developed in order to provide consistent guidance to developers on access and transport requirements for new development across the Merseyside area.
- 2.4.2 The Minimum Accessibility Standard Assessment in the document has been undertaken and the Site either meets or exceeds the standards of accessibility stated in the SPD. This will be described in further detail in the subsequent section of the TS.
- 2.4.3 The parking provision at the Site will accord with guidance with specified in the SPD.

2.5 Compliance with Policy

- 2.5.1 Subsequent sections of this report describe the development proposals and surrounding existing facilities such as local services, public transport services and cycle ways. In particular, the Site is accessible by a range of sustainable transport modes. Furthermore, there will be sufficient car parking provision provided on-site which will negate the need for on-street parking. This demonstrates that the development proposals comply with the guidelines and policies detailed above



3. Existing Transport Conditions

3.1 Preamble

- 3.1.1 This chapter of the TS describes the existing, or 'baseline', transport conditions currently prevailing at the Site and in the immediate surrounding area.
- 3.1.2 It is important that baseline conditions are accurately established so that the context of the proposed development at the Site, and its potential impact on the surrounding transport and highway networks, can be fully understood.
- 3.1.3 Baseline studies have been informed by a site audit undertaken on the 31st March 2014 and a desk-based research exercise carried out in March and April 2014.

3.2 Site Location and Description

- 3.2.1 The Site benefits from a previous planning consent for a former petrol filling station and convenience store.
- 3.2.2 The Site is located at the south-western corner of the junction of Booker Avenue and Greenhill Road, approximately 7km from Liverpool City Centre. It is bound by existing residential property to the east, a parade of shops to the south, Booker Avenue to the north and Greenhill Road to the east.
- 3.2.3 The location of the Site in a local context is shown in **Plan 1**.

3.3 Existing Highway Network

- 3.3.1 Booker Avenue is a circa 9 metre wide local distributor road that runs in an east - west alignment between the A561 to the west and the A562 to the east. Both the A561 and A562 provide main arterial routes into Liverpool City Centre.
- 3.3.2 In the vicinity of the Site, there are footways on both sides which are separated from the carriageway by wide grass verges. The Greenhills Public House is located on the north western side of the cross roads. With the exception of The Greenhills public House, both sides of Booker Avenue are fronted by existing residential properties which have off street parking and direct driveway



access onto the highway. There is street lighting provided and Booker Avenue is subject to a 20mph speed limit past the Site accesses. Approximately 25m east of proposed retail store car park access, Booker Avenue becomes subject to a 30mph speed limit.

3.3.3 Greenhill Road is a circa 6.5 metre wide road which is mainly residential in nature and runs north to south between Booker Avenue and Brodie Avenue. In the vicinity of the Site, it has footways on both sides with the footway on the eastern edge being separated from the carriageway by a grass verge. On the western side it is fronted by a small parade of shops with bollards present to prevent parking on the footway. On the eastern side of the carriageway it is fronted by existing residential properties which have off road parking and direct driveway access onto the highway. There are bollards present to restricting parking on the grass verge, however a grasscrete strip is provided, presumably to provide parking for the parade of shops. In the vicinity of the Site, Greenhill Road is subject to a 30mph speed limit and has street lighting provided.

3.3.4 The Booker Avenue / Greenhill Road junction is a four arm priority crossroads arrangement, with Booker Avenue forming the major route and Greenhill Road the minor arms. There are Traffic Regulation Orders in the forms of double yellow lines at the junction allowing visibility to be maintained. To the east of this junction, Booker Avenue joins the B5180 Mather Avenue via a signalised crossroads arrangement that also includes advance stop lines for cyclists. To the west, Booker Avenue joins Brodie Avenue, again via a signalised crossroads arrangement that also has advance stop lines for cyclists.

3.4 Sustainable Transport Options

3.4.1 Whilst superseded by the NPPF, the former PPG13 - Transport set out useful guidance related to walking and cycling catchments, it states:

"Walking is the most important mode of travel at the local level and offers the greatest potential to replace short car trips, particularly under 2 kilometres" (Paragraph 74) and;

"Cycling also has potential to substitute for short car trips, particularly those under 5 kilometres, and to form part of a longer journey by public transport" (Paragraph 77)



Walking

- 3.4.2 The Chartered Institution of Highways and Transportation (CIHT) in their document 'Providing for Journeys on Foot' state that *"walking accounts for over a quarter of all journeys and four fifths of journeys of less than one mile"* (paragraph 1.12, page 11).
- 3.4.3 The Site is well located in terms of local amenities and services, in addition to the parade of shops situated immediately to the south, there is a post box located immediately opposite the Site and Booker Avenue Infant School is located 150m to the west. Further to this, a convenience store is located to the north of the Site adjacent to the Greenhills public house.
- 3.4.4 The proposed convenience store is expected to predominantly serve residents in the local vicinity; therefore it is ideally located, close to existing residential areas to encourage trips by foot.
- 3.4.5 The Site is well connected to the network of existing footways in the surrounding areas. The streets all have footways and street lighting provided. To assist with the safe crossing of pupils to and from Booker Infant School a school crossing patrol is in operation.

Cycling

- 3.4.6 An extract from the Travelwise Mersyside cycle map for Liverpool is presented in **Figure 3.1** overleaf.



Figure 3.1 Local Cycle Routes



Key:

- On road cycle route (both sides of road)
- On-road cycle route (one side only)
- Suggested cycle route
- On-road signed cycle route
- Traffic-free cycle route (good surface)
- Advanced stop line

3.4.7 **Figure 3.1** shows that Booker Avenue has been designated as an 'on-road signed cycle route'. It links Aigburgh to the west with Woolton to the east and provides access to the employment, retail and leisure opportunities located there. In addition to this signed route, there are a number of other roads close to the Site which are designated as a 'suggested cycle route'.

Bus

3.4.8 A 400 metre walk distance is generally considered to be a reasonable walk distance between development and bus stops. This distance is quoted in the 'Institution for Highways and Transportation - Guidelines for the Planning of Public Transport for Development'.



3.4.9 The nearest bus stops to the Site are located on both sides of Mather Avenue approximately 350m east of the proposed development. Both have modern shelters, full timetable information and have raised kerbs installed to assist boarding and alighting movements. The existing bus services that use these stops are summarised in **Table 3.1** below.

Table 3.1: Summary of Bus Services Accessible from Mather Avenue

| Service No. | Service Description | Approximate One-way Frequency | | | |
|-------------|--|-------------------------------|----------------------------|-------------|------------|
| | | Monday to Friday (daytime) | Monday to Friday (evening) | Saturday | Sunday |
| 86 | Liverpool City Centre - Allerton Road - Liverpool South Park Way or Garston Speke Road | 10 per hour | 4 per hour | 10 per hour | 4 per hour |
| 86A | Liverpool City Centre- Allerton Road - Liverpool South Park Way - Garston Speke Road - Liverpool John Lennon Airport | 5 per hour | 4 per hour | 5 per hour | 4 per hour |

3.4.10 **Table 3.1** demonstrates that the Site is located within a reasonable walking distance to a high frequency bus route, these stops provide services to destinations including Liverpool City Centre, Liverpool South Park Way and Liverpool John Lennon Airport. These have a typical one-way frequency of 15 services per hour or 1 every 4 minutes. Therefore the Site can be considered to be highly accessible by bus.

Rail

3.4.11 The nearest train station to the Site is West Allerton station which is located approximately 400m to the west of the Site. This is less than the c. 800 metre walk distance that is generally considered to be a reasonable walk distance between development and rail services as set out in the 'Institution for Highways and Transportation - Guidelines for the Planning of Public Transport for Development'.

3.4.12 West Allerton station has a typical two-way daytime frequency of 2 train services per hour and offers services to destinations including Warrington Central, Liverpool Lime Street and Manchester Oxford Road. The Site is therefore highly accessible by rail.



Liverpool City Council’s ‘Minimum Accessibility Standard Assessment’

- 3.4.13 The LCC Minimum Accessibility Standard assessment included in the LCC ‘Ensuring a Choice of Travel SPD’ has been completed. The SPD has been developed in partnership with the Merseyside Local Authorities and Merseytravel in order to provide consistent guidance to developers on access and transport requirement of new developments across the wider Merseyside area.
- 3.4.14 As set out in Section 1 of this TS, the proposals are for a mixed use site comprising 372 sq.m of A1 food retail and 2 residential units. Each aspect of the development has been considered separately in the assessment. The A1 food retail store falls into the ‘medium’ size category requiring the completion of the assessment; the 2 residential units fall into the ‘minor’ category and do not require the assessment to be undertaken.
- 3.4.15 A copy of the completed assessment is included in **Appendix A** with **Table 3.2** below summarising the Site and comparing it to the minimum scores stated in the SPD.

Table 3.2 Summary of Minimum Accessibility Assessment

| Site / SPD Score | Min Score for Walking | Min Score for Cycling | Min Score for Public Transport | Min Score for Vehicle Access |
|----------------------|-----------------------|-----------------------|--------------------------------|------------------------------|
| SPD Minimum Score | 2 | 3 | 3 | 1 |
| Proposed Development | 4 | 4 | 5 | 2 |

3.4.16 **Table 3.2** shows that the Site exceeds the minimum standards of accessibility set out in the ‘Ensuring Choice of Travel SPD’ in relation to accessibility for walking, cycling, public transport and vehicle access. This demonstrates the Site can be considered to be highly accessible and therefore in accordance with NPPF.

3.5 Personal Injury Accident Review

3.5.1 An overview of the most recently available 3 year personal injury accident history within 300m of the Site access has been obtained from the Crashmap.co.uk website. The data shows that just two accidents have occurred over the 3 year period, of these, one was classified as slight and one as



serious, with the serious accident involving a pedal cyclist. There were no reported accidents involving children, pedestrians or motorcyclists.

3.5.2 It can be concluded, that given the low occurrence of recorded personal injury accidents over the three year period, that there are no highway safety issues in the vicinity of the Site.



4. Development Proposals

4.1 Preamble

4.1.1 This chapter of the TS sets out the development proposals for the Site, including the proposed access arrangements, level of on-site parking provision and servicing arrangements.

4.2 Development Proposals

4.2.1 The proposals are for a new mixed used development comprising the following:

- Single-storey retail unit (A1 Use Class) of approximately 372 sq.m (4,000 sq.ft) with 13 car parking spaces;
- Two residential dwellings (C3 Use Class) with 4 car parking spaces.

4.2.2 A proposed Site plan has been prepared by Denning Male Polisano Chartered Architects and is provided in **Appendix B**.

4.3 Proposed Access Arrangements

4.3.1 The Site currently has three access and egress points associated with the former PFS, two on Booker Avenue and one on Greenhill Road. Following the delivery of the scheme the access on Greenhill Road will be closed off and made good as a new footway and will be used as the main service area for the retail unit. The remaining two access points on Booker Avenue will remain as existing, with the western access being used to access the residential car park and the eastern access (which will be moved a short distance to the east) used to access the retail unit.

4.3.2 In terms of lateral visibility, guidance specified in Manual for Streets (MfS) states that for a 20mph and 30mph road the required lateral visibility is 2.4m x 25m and 2.4m x 43m respectively. It can be considered; that given Booker Avenue is a long straight road with wide grass verges, the lateral visibility at the access junctions is more than acceptable given it comfortably exceeds this guidance.



4.4 Proposed Car Parking Arrangements

A1 Food Retail Store

- 4.4.1 It is proposed that there will be 13 car parking spaces dedicated for the retail unit; these will include one 'Blue Badge' disabled / wheelchair accessible space and 1 'parent and child' space as shown in the site layout plan attached in **Appendix B**.
- 4.4.2 An AutoTrack swept path assessment for the proposed car park layout has been undertaken and attached in **Appendix C** and this shows no operational issues are apparent.
- 4.4.3 The LCC 'Ensuring Choice of Travel SPD' provides guidance on the maximum vehicle parking standards which are acceptable for different development types. On page 35 it prescribes that for a food retail store outside of the city centre or a district centre, a maximum of 1 car parking space per 14 Sq.m could be provided. This equates to a maximum of 27 car parking spaces which could have been provided at the Site. However, due to the small scale nature of the development and to encourage trips by sustainable modes of travel, it has been deemed more appropriate to provide a lower number of car parking spaces at the Site. This would meet the operational requirements at the Site given its proposed local catchment.

Residential Units

- 4.4.4 The site layout Plan in **Appendix B** shows 4 car parking spaces will be provided for the residential development. This is accords with guidance in the LCC Ensuring Choice of Travel SPD.
- 4.4.5 An AutoTrack Assessment has again been undertaken and is attached in **Appendix C** and shows no operational issues in respect of the car park layout.

4.5 Proposed Cycle Parking Arrangements

- 4.5.1 Guidance in the LCC 'Ensuring Choice of Travel SPD' states that for a food retail store a minimum of 1 cycle space per 200 sq.m should be provided, this equates to 2 spaces for a store of this size. However, the Applicant is keen to encourage trips by sustainable modes so is proposing that 6 spaces be provided. These will be in the form of 3 Sheffield Cycle Stands which will allow for both the wheel and frame of a bike to be locked securely.



4.5.2 In line with LCC guidance the two residential units will have no cycle parking provided.

4.6 Proposed Delivery and Servicing Arrangements

4.6.1 It is expected that the proposed development at the Site will generate low levels of delivery and servicing activity once it is operational. It is proposed that the servicing of the Site will take place on-street from the previous Greenhill Road access. No Traffic Regulation Orders are in place and this mirrors the current servicing operations for the existing parade of shops. Further to this, the convenience store located to the north of the Site is similarly serviced on-street.



5. Trip Generation Assessment

5.1 Preamble

5.1.1 This chapter of the TS provides an estimate and comparison of the likely traffic generation associated with the existing lawful extant use (PFS) and the development proposals.

5.2 Approach

5.2.1 In order to establish the multimodal trip generation associated with the previous use and the future uses at the Site, the national industry standard Trip Rate Information Computer System (TRICS) database has been utilised. TRICS uses empirical data from similar developments to produce a trip rate which can be applied to a site with similar characteristics.

5.2.2 Accordingly with the above, what follows has been subdivided into two separate subsections:

- Extant planning permission,
- Expected Future Two-way Trips, and
- Comparison of two-way vehicular trips

5.3 Extant Planning Permission

Site Selection

5.3.1 The existing Site has an area of approximately 0.17 ha, however in order to provide a more robust assessment this has been decreased to 0.12 ha.

5.3.2 In order to select survey sites with similar characteristics to those of the proposed development, the following key criteria were used in the TRICS survey site filtering process:

- Land Use: 13 – Petrol Filling Stations;
- Category: B – Petrol Filling Stations with Retail;
- Regions: South East, South West, East Anglia, East Midlands, West Midlands, Yorkshire & North Lincolnshire, North West, North, Wales and Scotland only;
- Site Area Range Selection: 0.059 to 0.30 Hectare only;
- Weekday surveys only; and
- Location – Edge of Town and Suburban Area only.



5.3.3 Following the above criteria, a total of seven survey sites from the TRICS database were selected as suitable. The Full TRICS outputs are provided in **Appendix D** and include details of the site selection parameters, site reports and weekday trip rates.

Resultant Trip Generation

5.3.4 The TRICS assessment identified 17:00hrs and 18:00hrs as being the peak hour for all modes. A summary of the results showing the arrivals, departures, total two-way trips and the resultant modal split is presented in **Table 5.1** below.

**Table 5.1: Multimodal Peak Hour Trip Generation and Modal Split - Extant Permission
(Based on Site Area of 0.12 ha)**

| Mode | Land Use Peak Hour (17:00-18:00) | | | |
|------------------|----------------------------------|------------|-------------|-------------|
| | Arrivals | Departures | 2-Way Trips | Mode Split |
| Vehicle | 60 | 60 | 120 | 90% |
| Pedal Cycle | 1 | 1 | 1 | 1% |
| Pedestrian | 6 | 5 | 11 | 8% |
| Public Transport | 1 | 1 | 1 | 1% |
| Total | 67 | 66 | 134 | 100% |

Note: Arithmetic errors due to rounding

5.3.5 The above table shows that a PFS with a site area of 0.12 ha would generate 120 two-way vehicular movements during the peak hour. This represents a robust estimate of the likely extant threshold in which proposed development can be assessed. I.e. if the development proposals generate the same or a lower number of trips then it can be considered to be within the Sites existing lawful extant.

5.3.6 The table shows that 90% of trips made would be vehicle based trips with sustainable modes accounting for the remaining 10%.



5.4 Proposed Development

Site Selection

5.4.1 The development proposals comprise a food retail store of approximately 372 sq/m and 2 residential dwellings.

5.4.2 The following key criteria were used in the TRICS survey site filtering process:

- Land Uses: 01 – Retail & 03 - Residential;
- Categories: O – Convenience & A – Houses Privately Owned;
- Regions: South East, South West, East Anglia, East Midlands, West Midlands, Yorkshire & North Lincolnshire, North West, North, Wales and Scotland only;
- Retail GFA Area Range Selection: 100 sq.m - 750 sq.m
- Residential Range Selection: 6 – 15 units
- Weekday surveys only; and
- Location – Edge of Town and Suburban Area only;
- On-site Parking – only retail sites with on-site parking was included.

5.4.3 Following the above criteria, a total of four survey sites from the TRICS database were selected as suitable for the retail store and 13 for the residential units. The TRICS outputs which provide details of the site selection parameters, site reports and weekday trip rates are attached in **Appendix E and F**.

Resultant Trip Generation

5.4.4 The TRICS assessment identified the peak hour as being between 18:00hrs and 19:00hrs. A summary of the results showing the arrivals, departures, total two-way trips and the resultant modal split is presented in **Table 5.2** overleaf.



**Table 5.2: Multimodal Peak Hour Trip Generation and Modal Split – As Proposed
(372 sq.m A1 food retail & 2 C3 Residential Dwelling)**

| Mode | Land Use Peak Hour (18:00-19:00) | | | |
|------------------|----------------------------------|------------|-------------|-------------|
| | Arrivals | Departures | 2-Way Trips | Mode Split |
| Vehicle | 47 | 51 | 98 | 64% |
| Pedal Cycle | 1 | 2 | 3 | 2% |
| Pedestrian | 25 | 27 | 51 | 33% |
| Public Transport | 1 | 0 | 1 | 1% |
| Total | 74 | 79 | 154 | 100% |

Note: Arithmetic errors due to rounding

5.4.5 The above table shows that during its peak hour of operation the proposed development is expected to generate 98 two-way vehicular trips, this equates to less than 2 vehicle movements per minute.

5.4.6 In terms of sustainable modes, the proposals will generate 51 pedestrian trips, 3 pedal cycle trips and 1 public transport trip. This contributes to a combined modal share of 36% during the Sites peak hour of operation.

5.5 Comparison of Two-way Vehicular Trips

5.5.1 **Table 5.3** overleaf provides the results of a net comparison between the previous extant use at the site and the development proposals.



Table 5.3: Vehicular Trip Comparison

| | Assumed Network Peak Hour (17:00 – 18:00) | | | Peak Hour from TRICS (18:00 – 17:00) | | |
|--|--|------------|-------------|---|------------|-------------|
| | Arrivals | Departures | 2-Way Trips | Arrivals | Departures | 2-Way Trips |
| PFS with Retail (extant permission) | 60 | 60 | 120 | 60 | 60 | 120 |
| Proposed Development (Convenience Store + Residential) | 42 | 39 | 81 | 47 | 51 | 98 |
| Net Change | -18 | -21 | -39 | -13 | -9 | -22 |

5.5.2 **Table 5.3** shows that the total number of two-way vehicle trips is expected to be 39 trips lower during the network peak hour and 21 lower during the Sites operational peak hour. This demonstrates that the proposals will result in a net reduction of vehicular trips when compared against the number of vehicular trips associated with the extant use at the Site. As such, the proposals accord with the current local and national policy requirements.



6. Summary and Conclusion

6.1.1 WYG has been appointed by TPS DEZ Developments Ltd (the 'Applicant') to prepare a Transport Statement to accompany a detailed planning application for the proposed redevelopment of a former petrol filling station (PFS) site at 100 Booker Avenue, Liverpool, (the 'Site').

6.1.2 The proposals are for a new mixed used development comprising a single-storey retail unit (A1 Use Class) of approximately 372 sq.m (4,000 sq.ft) and 2 residential dwellings (C3 Use Class).

6.1.3 From the analysis presented in this TS the following conclusions can be drawn:

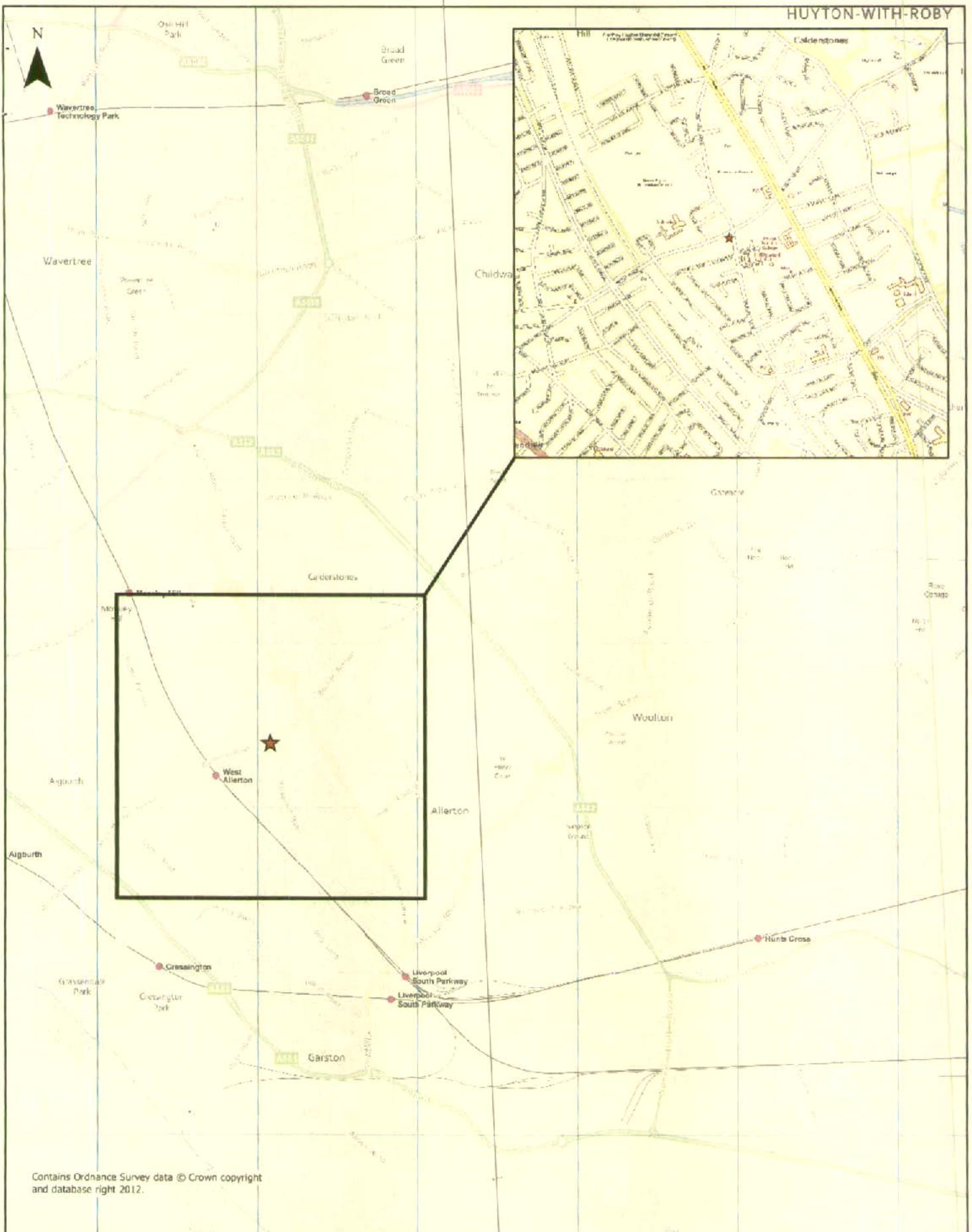
- The Site is accessible by a range of sustainable transport modes; this includes walking, cycling, and regular bus and rail services.
- The Site exceeds the requirements of the Minimum Accessibility Standard Assessment contained in the LCC '*Ensuring a Choice of Travel Supplementary Planning Document*'.
- The personal injury accident records at the Site demonstrate that there are no existing highway safety issues which will be exacerbated by the proposals.
- Safe access to the Site can be achieved via the two existing site access and egress points on Booker Avenue.
- The parking provision at the Site will accord with the requirements of LCC car parking standards.
- The change in use at the Site will not have an adverse impact upon the adjoining highway network and will actually lead to a significant reduction in vehicular trips when compared against the trips which would be associated with the former extant use at the Site.

6.1.4 In consideration of the above, it can be concluded that there are no transportation or highways reasons why the proposed development should not be approved.

Proposed Mixed-Use Development, 100 Booker Avenue, Liverpool



Plans



Contains Ordnance Survey data © Crown copyright and database right 2012.

Proposed Mixed Use Development,
Booker Avenue, Liverpool

Plan 1: Site Location

Scale @ A4 1:30,000

A086135



Legend

★ Site

Proposed Mixed-Use Development, 100 Booker Avenue, Liverpool



Appendices

WYG Transport part of the **WYG** Group

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Proposed Mixed-Use Development, 100 Booker Avenue, Liverpool



Appendix A – Liverpool City Council ‘Minimum Accessibility Standard Assessment’

WYG Transport part of the **WYG** Group

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Minimum Scores

3.11 The minimum standard scores which are detailed have been developed through open and transparent testing by partner authorities and stakeholders on Merseyside. The scores have been tried and tested by transport and development professionals on real life developments.

Table 3.1: Minimum Levels of Accessibility: Minimum Scores for 'Medium' 'Large' and 'Major' Developments

| Development Type | Location (see key below) | Development Size | Minimum score for walking | Minimum score for cycling | Minimum score for public transport | Minimum score for vehicle access |
|---|--------------------------|------------------|---------------------------|---------------------------|------------------------------------|----------------------------------|
| A1 Retail D2 Assembly & Leisure | Urban Centre | Major & Large | 2 | 5 | 5 | 3 |
| | | Medium | 2 | 3 | 3 | 2 |
| | Other Urban | Major & Large | 4 | 5 | 6 | 2 |
| | | Medium | 4 | 3 | 4 | 1 |
| A3 Restaurants & Cafes | Urban Centre | All | 1 | 4 | 4 | 3 |
| | Other Urban | All | 4 | 5 | 4 | 1 |
| A4 Drinking Establishments | | | | | | |
| A5 Hot Food Takeaway | | | | | | |
| A2 Financial and Professional Services | Urban Centre | Major & Large | 2 | 5 | 5 | 3 |
| | | Medium | 2 | 4 | 5 | 2 |
| | Other Urban | Major & Large | 4 | 5 | 6 | 1 or 3 ⁽²⁾ |
| | | Medium | 4 | 4 | 4 | 1 |
| B1 Business (including educational sites) | Urban Centre | Major & Large | 2 | 5 | 5 | 3 |
| | | Medium | 2 | 4 | 5 | 2 |
| | Other Urban | Major & Large | 4 | 5 | 6 | 1 or 3 ⁽²⁾ |
| | | Medium | 4 | 4 | 4 | 1 |
| B2 Industrial Uses | Urban Centre | Major & Large | n/a | n/a | n/a | n/a |
| | | Medium | 2 | 4 | 4 | 1 |
| | Other Urban | Major & Large | 2 | 3 | 5 | 1 or 3 ⁽²⁾ |
| | | Medium | 2 | 2 | 4 | 1 |
| B8 Storage and distribution | Urban Centre | Major & Large | n/a | n/a | n/a | n/a |
| | | Medium | 2 | 4 | 4 | 1 |

| Development Type | Location (see key below) | Development Size | Minimum score for walking | Minimum score for cycling | Minimum score for public transport | Minimum score for vehicle access |
|---|--------------------------|------------------|---------------------------|---------------------------|------------------------------------|----------------------------------|
| | Other Urban | Major & Large | 2 | 3 | 5 | 1 or 3 ⁽²⁾ |
| | | Medium | 2 | 2 | 4 | 1 |
| C1 Hotels | Urban Centre | Major & Large | 2 | 5 | 5 | 3 |
| | | Medium | 2 | 3 | 5 | 3 |
| | Other Urban | Major & Large | 4 | 5 | 5 | 1 |
| | | Medium | 4 | 3 | 4 | 1 |
| C3 Dwelling Houses (For flats with no 'internal circulation', issues, i.e. no car park, reduce walking and cycling target by 1.) | Urban Centre | Major & Large | 4 | 4 | 5 | 3 |
| | | Medium | 2 | 3 | 5 | 3 |
| | Other Urban | Major & Large | 4 | 5 | 5 | 1 |
| | | Medium | 4 | 3 | 5 | 1 |
| C2 and D1 Residential and non-residential institutions (medical centres, museums and galleries, public halls and meeting places) | Urban Centre | All | 2 | 5 | 5 | 3 |
| | Other Urban | All | 4 | 5 | 6 | 1 |

Notes:

(1) Urban Centres = Urban Centres in Liverpool are the City Centre (as defined by the Liverpool Vision City Centre boundary in Appendix F), and District Centres as shown on the UDP/LDF proposals map.

Other Urban = The areas that are not in the City / District Centres.

(2) In locations outside of the main centres, if reduced parking standards can not be applied with on-street parking controls (score 3), then the maximum parking level may be sought (score 1)

Minimum Accessibility Standard Assessment

Minimum Accessibility Standard Assessment

Proposal:

| | |
|--|--|
| | |
|--|--|

| | | | | |
|---|--|------------------------------|---|-----------------|
| Address: | | | | |
| Completed By: | | | | |
| Access Diagram | | | | |
| Has a diagram been submitted which shows how people move to and through the development and how this links to the surrounding roads, footpaths and sight lines? (This can be included within the Design and Access Statement, see Section 2.25.) If a diagram has not been submitted your application may not be processed. | | | | Yes / No |
| Access on Foot | | | Points | Score |
| Safety | Is there safe pedestrian access to and within the site, and for pedestrians passing the site (2m minimum width footpath on both sides of the road)? If no your application must address safe pedestrian access. | | | Yes / No |
| Location | <u>Housing Development:</u> Is the development within 500m of a district or local centre (see Accessibility Map 1 in Appendix F) <u>Other development:</u> Is the density of existing local housing (i.e. within 800m) more than 50 houses per hectare (see Accessibility Map 4 in Appendix F) | Yes | 2 | 2 |
| | | No | 0 | |
| Internal Layout | Does 'circulation' and access inside the sites reflect direct, safe and easy to use pedestrian routes for all; with priority given to pedestrians when they have to cross roads or cycle routes? | Yes | 1 | 1 |
| | | No | 0 | |
| External Layout | Are there barriers between site and local facilities or housing which restrict pedestrian access? (see Merseyside Code of Practice on Access and Mobility)e.g. <ul style="list-style-type: none"> • No dropped kerbs at crossings or on desire lines; • Steep gradients; • A lack of a formal crossing where there is heavy traffic; • Security concerns, e.g. lack of lighting. | There are barriers | -2 | 1 |
| | | There are no barriers | 1 | |
| Other | The development links to identified recreational walking network (see Accessibility Map 1). If no, please provide reasons why not. | | | Yes / No |
| | | | Total (B) | 4 |
| Summary | Box A: Minimum Standard (from Table 3.1) | 2 | Comments or action needed to correct any shortfall | |
| | Box B: Actual Score | 4 | | |

| Access by Cycle | | Points | Score | |
|-----------------|--|--------|---|----------|
| Safety | Are there safety issues for cyclists either turning into or out of the site or a road junctions within 400m of the site (e.g. dangerous right turns for cyclists due to the level of traffic)? If yes, you must address safety issues in your application. | | Yes / No | |
| Cycle Parking | Does the development meet cycle parking standards, in a secure location with natural surveillance, or where appropriate contribute to communal cycle parking facilities? If no, you must address cycle parking standards and cycle parking facilities. | | Yes / No | |
| Location | <u>Housing Development</u> : Is the development within 1 mile of a district or local centre (see Accessibility Map 1) | Yes | 2 | 2 |
| | <u>Other Development</u> : Is the density of local housing (e.g. within 1 mile) more than 50 houses per hectare (see Accessibility Map 4 in Appendix F) | No | 0 | |
| Internal layout | Does 'circulation' and access inside the site reflect direct and safe cycle routes; with priority given to cyclists where they meet motor vehicles? | Yes | 1 | 1 |
| | | No | 0 | |
| External Access | The development is within 400m of an existing or proposed cycle route (see Accessibility Map 1 in Appendix F) and / or proposes to create a link to a cycle route, or develop a route? | | 1 | 1 |
| | The development is not within 400m of an existing or proposed cycle route (see Accessibility Map 1 in Appendix F) | | -1 | |
| Other | Development includes shower facilities and lockers for cyclists | Yes | 1 | |
| | | No | 0 | 0 |
| | | | Total (B) | 4 |
| Summary | Box A: Minimum Standard (From Table 3.1) | 3 | Comments or action needed to correct any shortfall | |

| | | | | | |
|---|--|-----------------------|---|-------------------|--------------|
| | Box B: Actual Score | | 4 | | |
| Access by Public Transport | | | | Points | Score |
| Location and access to public transport | Is the site within a 200m safe and convenient walking distance of a bus stop, and/or within 400m of a rail station? (See Accessibility Map 2 in Appendix F). | Yes | 2 | 2 | |
| | | No | 0 | | |
| | Are there barriers on direct and safe pedestrian routes to bus stops or rail stations i.e. <ul style="list-style-type: none"> • A lack of dropped kerbs; • Pavements less than 2m wide; • A lack of formal crossings where there is heavy traffic; or • Bus access kerbs. | There are barriers | 0 | 1 | |
| | | There are no barriers | 1 | | |
| Frequency | High (four or more bus services or trains an hour) | | 2 | 2 | |
| | Medium (two or three bus services or trains an hour) | | 1 | | |
| | Low (less than two bus services or trains an hour) | | 0 | | |
| Other | The proposal contributes to bus priority measures serving the site | | 1 | | |
| | The proposal contributes to bus stops, bus interchange or bus or rail stations in the vicinity and/or provides bus stops or bus interchange in the site | | 1 | | |
| | The proposal contributes to an existing or new bus service | | 1 | | |
| | | | | Total (B): | 5 |

| | | | | |
|-----------------------------------|--|---|--|-----------------|
| Summary | Box A: Minimum Standard (from Table 3.1) | 3 | Comments or action needed to correct any shortfall | |
| | Box B: Total Score | 5 | | |
| Vehicle Access and Parking | | | Points | Score |
| Vehicle access and circulation | Is there safe access to and from the road? If no, you must address safety issues. | | | Yes / No |
| | Can the site be adequately serviced? If no, you must address service issues. | | | Yes / No |
| | Is the safety and convenience of other users (pedestrians, cyclists and public transport) affected by the proposal? If yes, you must address safety issues. | | | Yes / No |
| | Has access for the emergency services been provided? If no, you must provide emergency service provision. | | | Yes / No |
| | For development which generates significant freight movements, is the site easily accessed from the road or rail freight route networks (i.e. minimising the impact of traffic on local roads and neighbourhoods) (see Accessibility Map 3 in Appendix F)? If no, please provide an explanation. | | | Yes / No n/a |
| Parking | The off-street parking provided is more than advised in Section 4 for that development type. If yes, parking provision must be reassessed. | | | Yes / No |

| | | | |
|---------|---|---|--|
| | The off-street parking provided is as advised in Section 4 for that development type | 1 | Yes / No |
| | The off-street parking provided is less than 75% of the amount advised in Section 4 for that development type (or shares parking provision with another development) | 2 | Yes / No 2 |
| | For development in controlled parking zones: | | Yes / No |
| | • Is it a car free development? | 1 | Yes / No |
| | • Supports the control or removal of on-street parking spaces (inc provision of disabled spaces), or contributes to other identified measures in the local parking strategy (including car clubs) | 1 | Yes / No |
| | | | Total (B): 2 |
| Summary | Box A: Minimum Standard (From Table 3.1) | 2 | Comments or action needed to correct any shortfall. If conditions are appropriate for the reduced level of parking (see section 4), but this has not been provided, please explain why. |



Appendix B – Proposed Site Layout

GENERAL NOTES

All dimensions must be checked on site. All levels must be checked on site and their return confirmed. This drawing must be read in conjunction with the relevant specification clauses. This drawing must not be used for land transfer purposes.

©Denning Male Pollsano

DRAWING NOTES

P- refers to Preliminary Drawing
 T- refers to Tender Drawing
 C- refers to Construction Drawing

REVISION

| NO. | REVISION | DATE |
|-----|----------------------------------|------------|
| P1 | PLANNING ISSUE | 07/10/2011 |
| P2 | House altered + minor amendments | 18/10/2011 |
| P3 | minor amendments | |



CLIENT
 TPS-DPZ Developm

PROJECT TITLE
 Booker Avenue
 Liverpool

DRAWING TITLE
 SITE PLAN

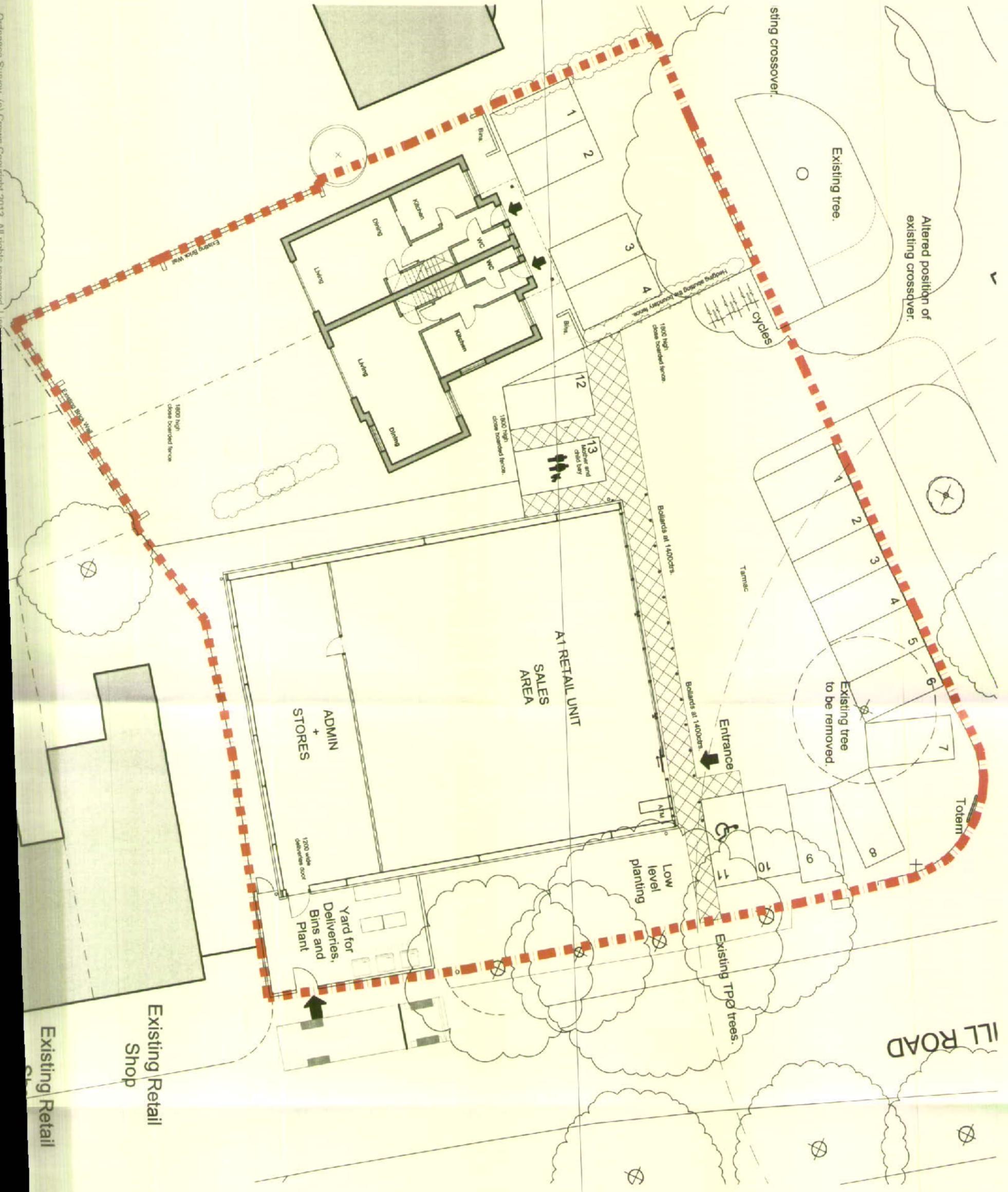
DATE
 Feb 14

SCALE
 1:200

DRAWING NO.
 129-10

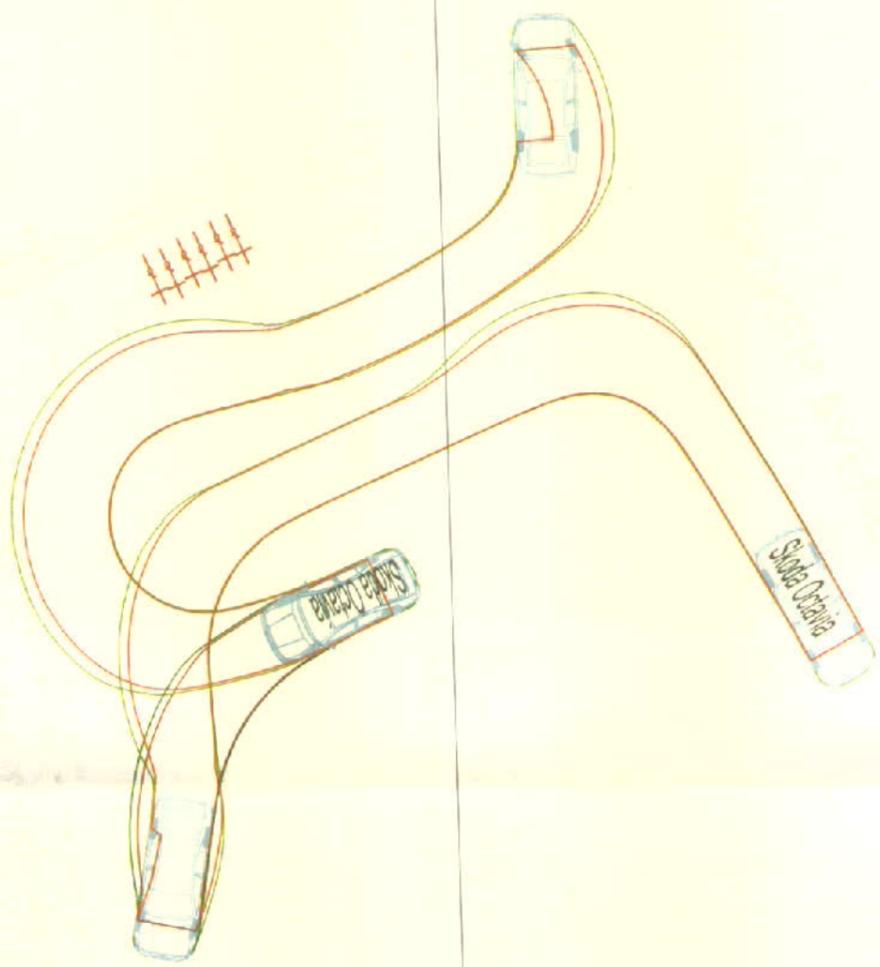
Denning Male Pollsano
 Chartered Architects

Ferneberga House
 Alexandra Road
 Farnborough
 Hampshire GU14 6DD





Appendix C – AutoTrack Assessments



DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

Vehicle Used



Skoda Octavia
 Overall Length 4.52m
 Overall Width 1.80m
 Overall Height 1.48m
 Min Body Ground Clearance 0.215m
 Max Track Width 1.415m
 Max Wheelbase 2.65m
 Min. Turn. Radius 5.100m
 Min. Turn. Radius 5.100m

| REV | DESCRIPTION | BY | CHK | APP | DATE |
|-----|-------------|----|-----|-----|------|
| | | | | | |

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 FAX: +44 (0)161 872 3193
 e-mail: manchester@wyg.com



Project:
 Booker Avenue,
 Liverpool

Drawing Title:
 Retail Unit Car Park (Bay 1)
 Auto Tracking Analysis

| Scale | Drawn | Date | Checked | Date | Approved | Date |
|-------------|--------|------------|---------------|------------|----------|------------|
| 1:200 | SH | 30.03.2014 | AB | 30.03.2014 | AB | 30.03.2014 |
| Project No. | Office | Type | Drawing No. | Revision | | |
| A086135 | Man | T | A086135-SK002 | | | |

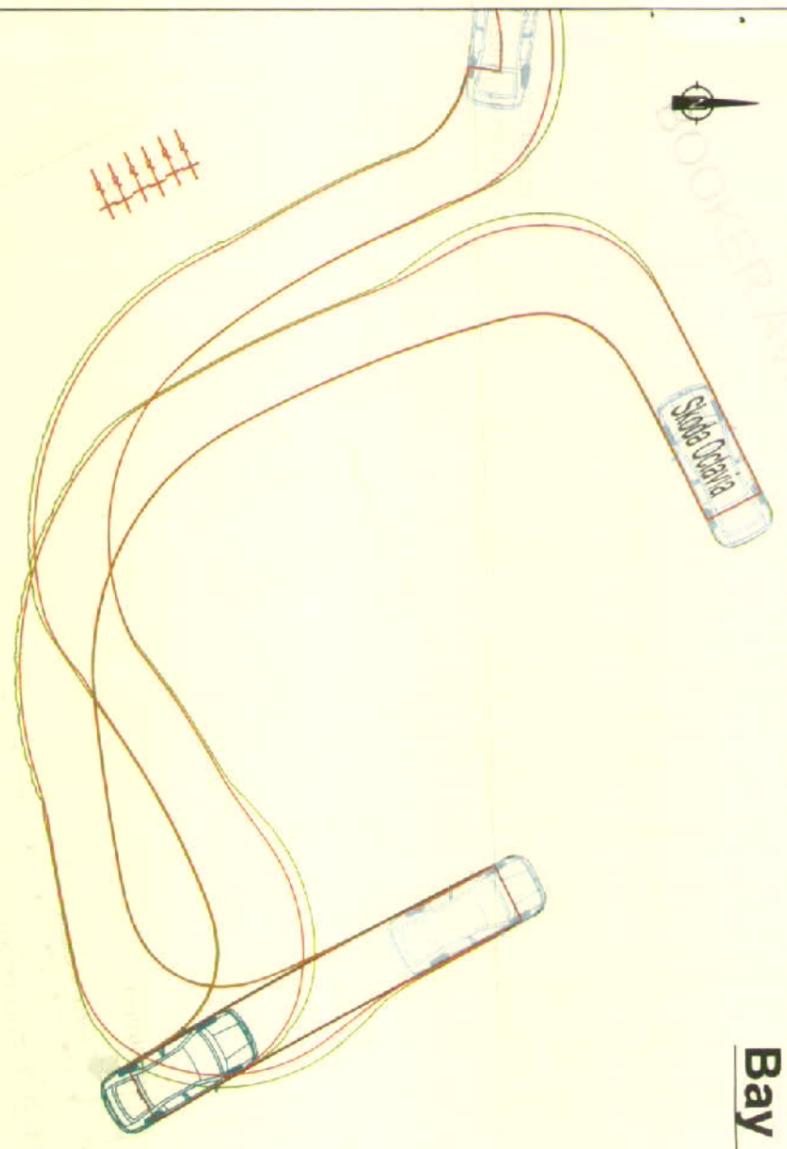
DO NOT SCALE. CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

Vehicle Used

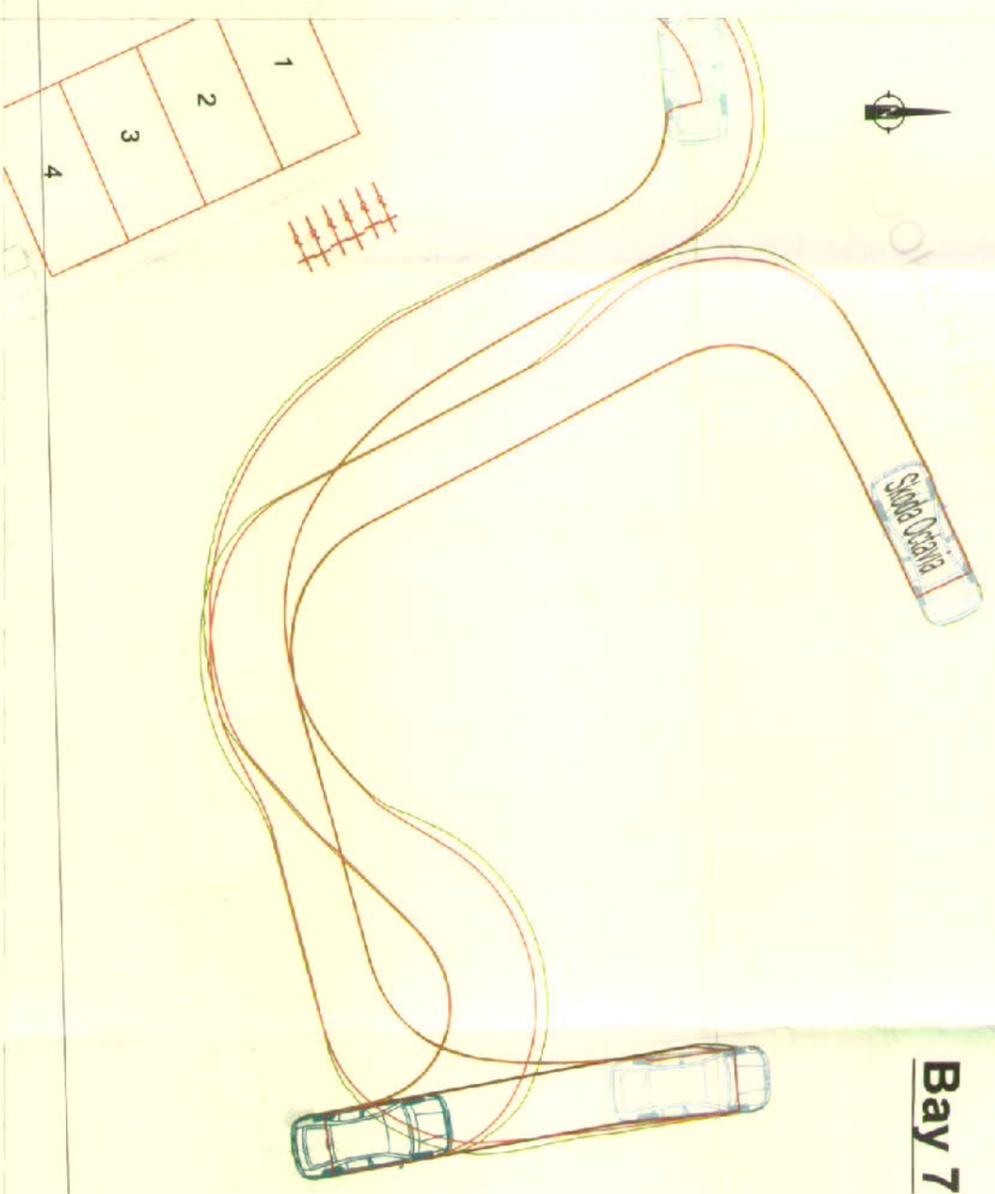


| | |
|-----------------------------|--------|
| Strota Octavia | 4.572m |
| Overall Length | 1.768m |
| Overall Width | 1.468m |
| Overall Body Height | 0.249m |
| Min Body Ground Clearance | 4.10s |
| Lock to Lock Time | 5.100m |
| Kerb to Kerb Turning Radius | |

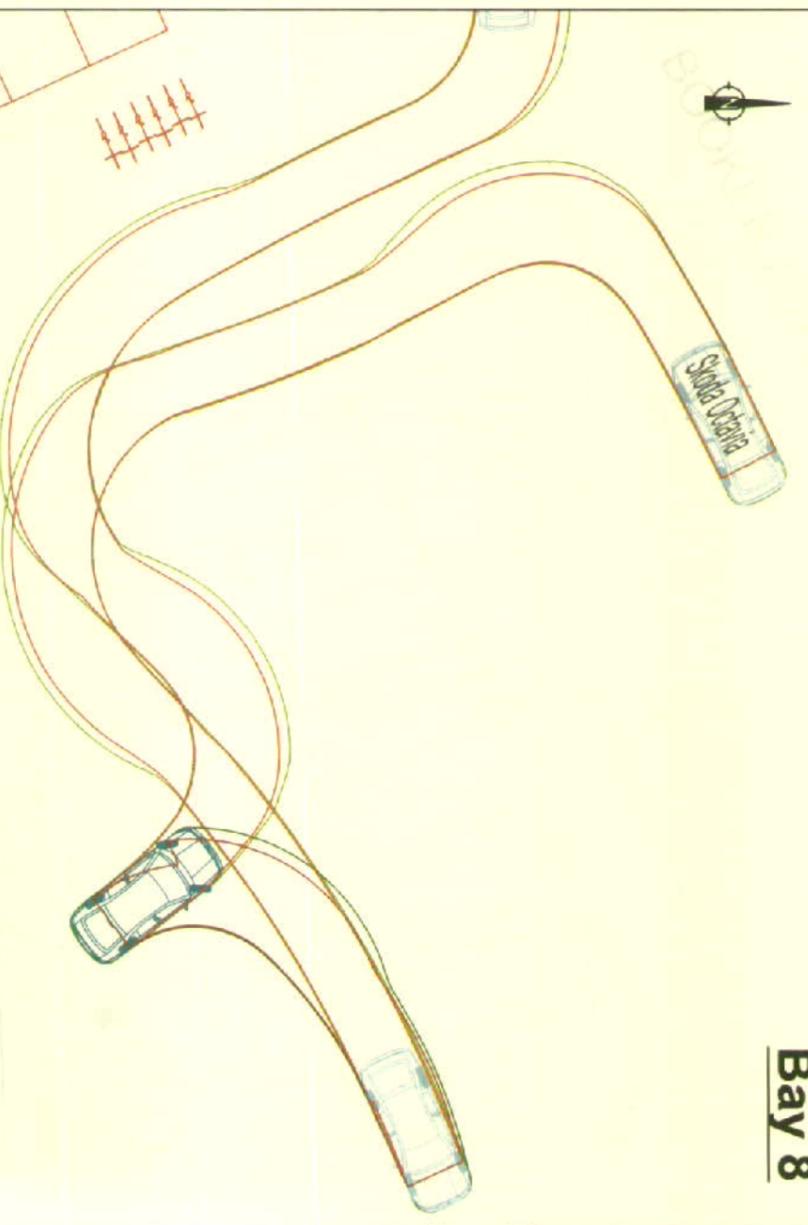
Bay 6



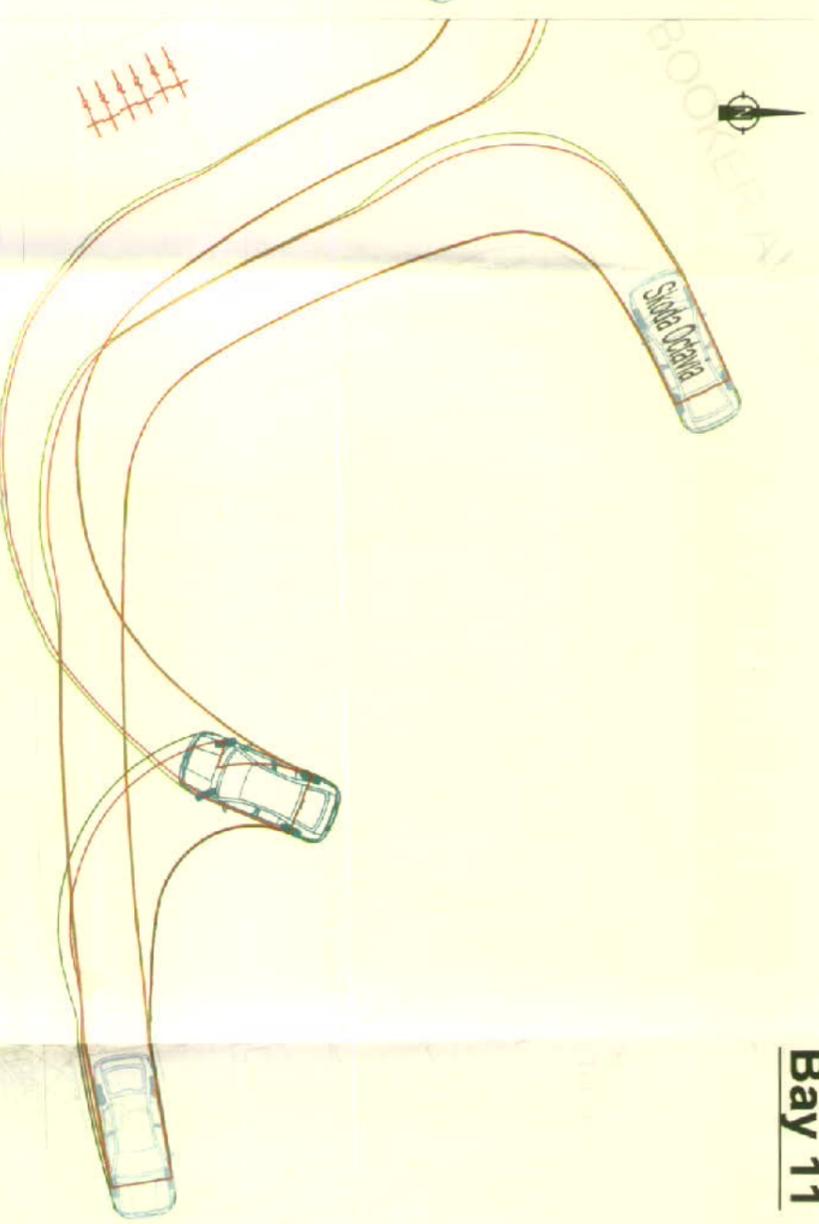
Bay 7



Bay 8



Bay 11



| REV | DESCRIPTION | BY | CHK | APP | DATE |
|-----|-------------|----|-----|-----|------|
|-----|-------------|----|-----|-----|------|

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 e-mail: manchester@wyf.com

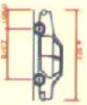


Project:
 Booker Avenue,
 Liverpool

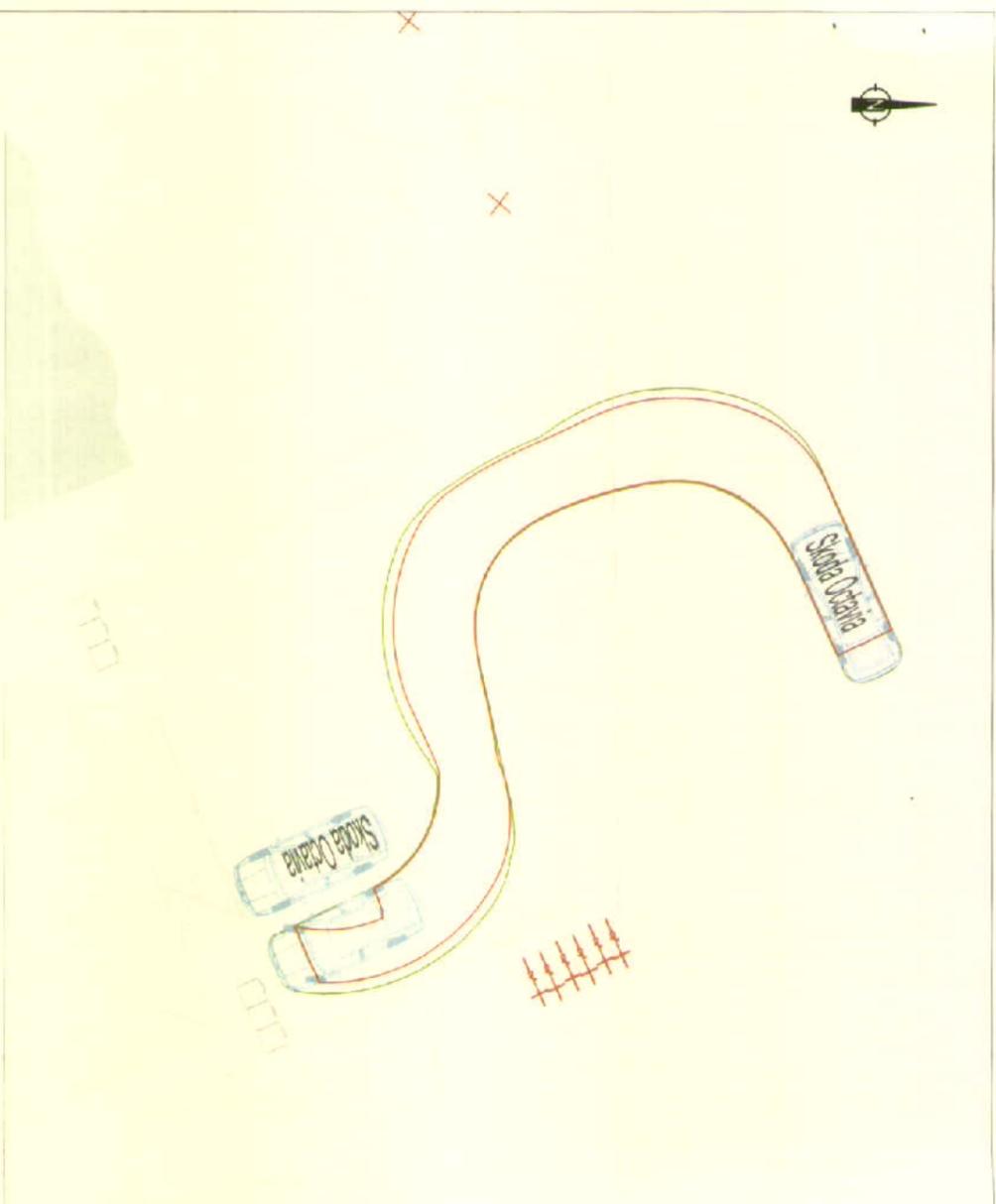
Drawing Title:
 Retail Unit Car Park
 Auto Tracking Analysis

| | | | | | | |
|-------------|--------|------------|---------------|------------|----------|------------|
| Scale @ A3 | Drawn | Date | Checked | Date | Approved | Date |
| 1:200 | SH | 30.03.2014 | AB | 30.03.2014 | AB | 30.03.2014 |
| Project No. | Office | Type | Drawing No. | Revision | | |
| A086135 | M/Jan | T | A086135-SK003 | | | |

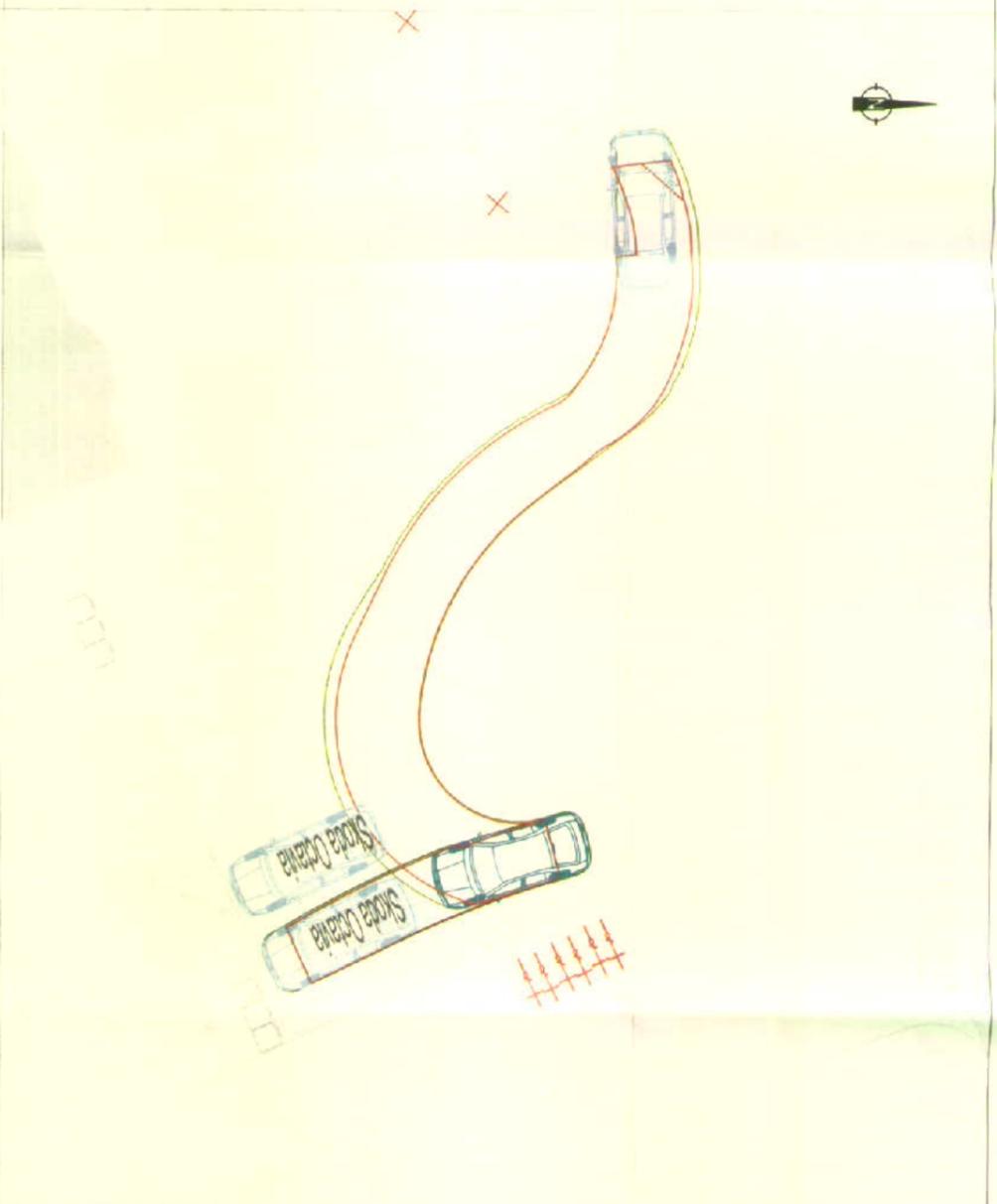
Vehicle Used



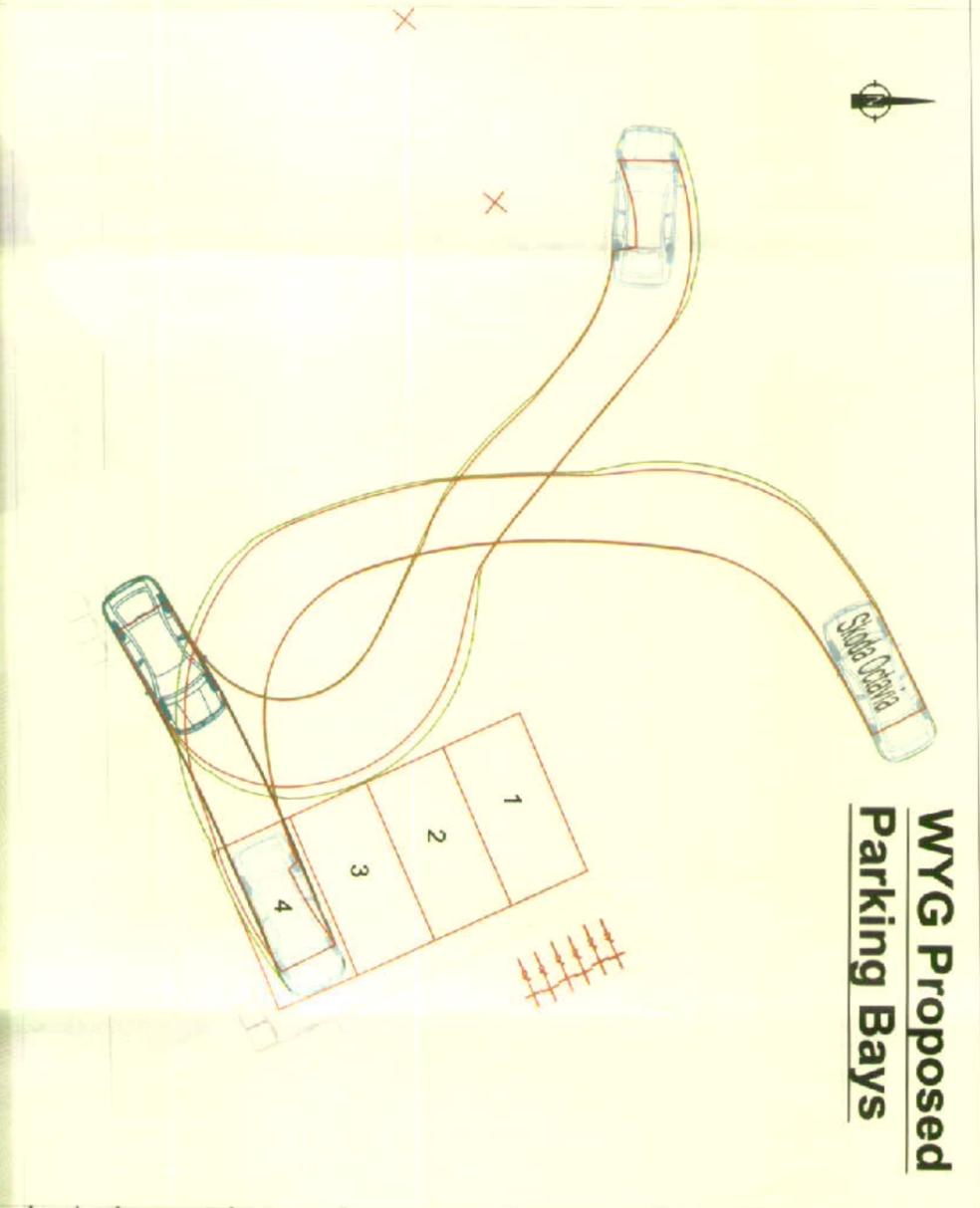
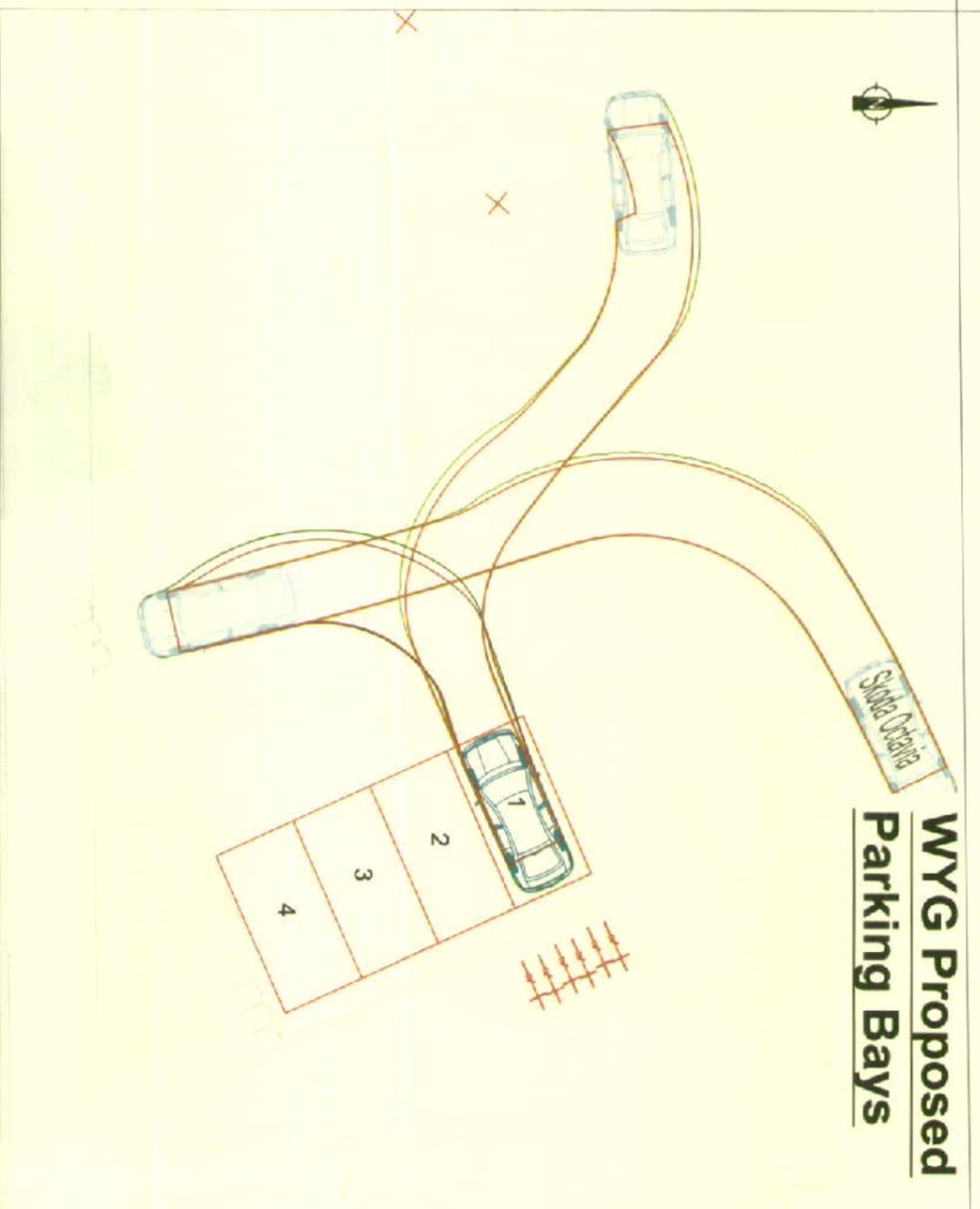
Skoda Octavia
 Overall Length 4.572m
 Overall Width 1.768m
 Overall Body Height 1.458m
 Wheelbase 2.651m
 Min. Entry Clearance 0.249m
 Max. Entry Clearance 4.02m
 Lock to Lock Time 5.100m
 Kerb to Kerb Turning Radius



**WYG Proposed
 Parking Bays**



**WYG Proposed
 Parking Bays**



| REV | DESCRIPTION | BY | CHK | APP | DATE |
|-----|-------------|----|-----|-----|------|
| | | | | | |

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 e-mail: manchester@wyg.com

Project:
 Booker Avenue,
 Liverpool

Drawing Title:

Residential Car Park
 Auto Tracking Analysis

| Scale @ | A3 | Drawn | Date | Checked | Date | Approved | Date | |
|-------------|---------|-------------|------|------------|-------------|---------------|----------|--|
| 1:200 | SR | 30.03.2014 | AB | 30.03.2014 | AB | 30.03.2014 | | |
| Project No. | A086135 | Office Type | Man | T | Drawing No. | A086135-SK001 | Revision | |



Appendix D – TRICS Outputs

(Petrol Filling Station – With Retail)

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 13 - PETROL FILLING STATIONS

Category : B - PFS - WITH RETAIL

MULTI-MODAL VEHICLES

Selected regions and areas:

| | |
|-------------------------|--------|
| 02 SOUTH EAST | |
| SC SURREY | 2 days |
| 03 SOUTH WEST | |
| CW CORNWALL | 1 days |
| 05 EAST MIDLANDS | |
| NT NOTTINGHAMSHIRE | 1 days |
| 06 WEST MIDLANDS | |
| HE HEREFORDSHIRE | 1 days |
| WM WEST MIDLANDS | 1 days |
| 11 SCOTLAND | |
| GC GLASGOW CITY | 1 days |

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

Filtering Stage 2 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: | Site area |
| Actual Range: | 0.19 to 0.30 (units: hect) |
| Range Selected by User: | 0.059 to 0.3 (units: hect) |

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 19/10/11

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 | 1 days |
| Tuesday | 2 days |
| Wednesday | 3 days |
| Saturday | 1 days |

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

Selected survey types:

| | |
|-----------------------|--------|
| Manual count | 7 days |
| Directional ATC Count | 0 days |

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

Selected Locations:

| | |
|--|---|
| Edge of Town Centre | 1 |
| Suburban Area (PPS6 Out of Centre) | 3 |
| Edge of Town | 2 |
| Neighbourhood Centre (PPS6 Local Centre) | 1 |

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

Selected Location Sub Categories:

| | |
|------------------|---|
| Residential Zone | 3 |
| High Street | 1 |
| No Sub Category | 3 |

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

Filtering Stage 3 selection:Use Class:

| | |
|-------------|--------|
| Not Known | 4 days |
| Sui Generis | 3 days |

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

Population within 1 mile:

| | |
|------------------|--------|
| 5,001 to 10,000 | 3 days |
| 10,001 to 15,000 | 1 days |
| 20,001 to 25,000 | 1 days |
| 25,001 to 50,000 | 2 days |

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

Population within 5 miles:

| | |
|--------------------|--------|
| 50,001 to 75,000 | 2 days |
| 100,001 to 125,000 | 1 days |
| 125,001 to 250,000 | 2 days |
| 500,001 or More | 2 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 | 4 days |
| 1.1 to 1.5 | 2 days |
| 1.6 to 2.0 | 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:

| | |
|----|--------|
| No | 7 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.

LIST OF SITES relevant to selection parameters

| | | | | |
|----------|--|---------------------------|-----------|------------------------|
| 1 | CW-13-B-01 TOLGUS VEAN | TESCO PFS | | CORNWALL |
| | REDRUTH Edge of Town No Sub Category Total Site area: | | 0.21 hect | |
| | | | 01/10/11 | Survey Type: MANUAL |
| 2 | GC-13-B-01 POLLOKSHAW ROAD STRATHBUNGO GLASGOW | BP/M&S | | GLASGOW CITY |
| | Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total Site area: | | 0.23 hect | |
| | | | 04/06/08 | Survey Type: MANUAL |
| 3 | HE-13-B-01 HOLMER ROAD | TEXACO/SOMERFIELD | | HEREFORDSHIRE |
| | HEREFORD Suburban Area (PPS6 Out of Centre) No Sub Category Total Site area: | | 0.21 hect | |
| | | | 18/10/10 | Survey Type: MANUAL |
| 4 | NT-13-B-02 HUTHWAITE ROAD | BP/LONDIS | | NOTTINGHAMSHIRE |
| | SUTTON-IN-ASHFIELD Suburban Area (PPS6 Out of Centre) Residential Zone Total Site area: | | 0.20 hect | |
| | | | 28/06/06 | Survey Type: MANUAL |
| 5 | SC-13-B-03 LONDON ROAD | BP/M&S | | SURREY |
| | BAGSHOT Edge of Town Centre No Sub Category Total Site area: | | 0.23 hect | |
| | | | 15/07/08 | Survey Type: MANUAL |
| 6 | SC-13-B-04 EPSOM ROAD (A25) MERROW GUILDFORD | BP/M&S | | SURREY |
| | Edge of Town Residential Zone Total Site area: | | 0.19 hect | |
| | | | 30/09/08 | Survey Type: MANUAL |
| 7 | WM-13-B-04 HIGH STREET HARBORNE BIRMINGHAM | TEXACO & CO-OP | | WEST MIDLANDS |
| | Suburban Area (PPS6 Out of Centre) High Street Total Site area: | | 0.30 hect | |
| | | | 19/10/11 | Survey Type: MANUAL |

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

TRIP RATE for Land Use 13 - PETROL FILLING STATIONS/B - PFS - WITH RETAIL

MULTI-MODAL VEHICLES

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|---------------|----------|-----------|----------------|------------|-----------|----------------|----------|-----------|-----------------|
| | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | 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 | 2 | 0.26 | 158.824 | 2 | 0.26 | 164.706 | 2 | 0.26 | 323.530 |
| 07:00 - 08:00 | 7 | 0.22 | 343.949 | 7 | 0.22 | 333.121 | 7 | 0.22 | 677.070 |
| 08:00 - 09:00 | 7 | 0.22 | 363.057 | 7 | 0.22 | 361.783 | 7 | 0.22 | 724.840 |
| 09:00 - 10:00 | 7 | 0.22 | 376.433 | 7 | 0.22 | 363.694 | 7 | 0.22 | 740.127 |
| 10:00 - 11:00 | 7 | 0.22 | 377.070 | 7 | 0.22 | 373.885 | 7 | 0.22 | 750.955 |
| 11:00 - 12:00 | 7 | 0.22 | 415.924 | 7 | 0.22 | 411.465 | 7 | 0.22 | 827.389 |
| 12:00 - 13:00 | 7 | 0.22 | 470.064 | 7 | 0.22 | 478.344 | 7 | 0.22 | 948.408 |
| 13:00 - 14:00 | 7 | 0.22 | 385.350 | 7 | 0.22 | 391.720 | 7 | 0.22 | 777.070 |
| 14:00 - 15:00 | 7 | 0.22 | 386.624 | 7 | 0.22 | 377.070 | 7 | 0.22 | 763.694 |
| 15:00 - 16:00 | 7 | 0.22 | 455.414 | 7 | 0.22 | 456.688 | 7 | 0.22 | 912.102 |
| 16:00 - 17:00 | 7 | 0.22 | 447.134 | 7 | 0.22 | 451.592 | 7 | 0.22 | 898.726 |
| 17:00 - 18:00 | 7 | 0.22 | 503.185 | 7 | 0.22 | 499.363 | 7 | 0.22 | 1002.548 |
| 18:00 - 19:00 | 7 | 0.22 | 496.815 | 7 | 0.22 | 500.000 | 7 | 0.22 | 996.815 |
| 19:00 - 20:00 | 7 | 0.22 | 357.325 | 7 | 0.22 | 371.975 | 7 | 0.22 | 729.300 |
| 20:00 - 21:00 | 3 | 0.24 | 198.611 | 3 | 0.24 | 216.667 | 3 | 0.24 | 415.278 |
| 21:00 - 22:00 | 3 | 0.24 | 177.778 | 3 | 0.24 | 175.000 | 3 | 0.24 | 352.778 |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 5913.557 | | | 5927.073 | | | 11840.630 |

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: | 0.19 to 0.30 (units: hect) |
| Survey date range: | 01/01/05 - 19/10/11 |
| Number of weekdays (Monday-Friday): | 6 |
| Number of Saturdays: | 1 |
| Number of Sundays: | 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.

TRIP RATE for Land Use 13 - PETROL FILLING STATIONS/B - PFS - WITH RETAIL

MULTI-MODAL CYCLISTS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|---------------|----------|-------------|--------------|------------|-------------|--------------|----------|-------------|---------------|
| | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | 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 | 2 | 0.26 | 5.882 | 2 | 0.26 | 3.922 | 2 | 0.26 | 9.804 |
| 07:00 - 08:00 | 7 | 0.22 | 6.369 | 7 | 0.22 | 5.732 | 7 | 0.22 | 12.101 |
| 08:00 - 09:00 | 7 | 0.22 | 4.459 | 7 | 0.22 | 5.096 | 7 | 0.22 | 9.555 |
| 09:00 - 10:00 | 7 | 0.22 | 2.548 | 7 | 0.22 | 1.911 | 7 | 0.22 | 4.459 |
| 10:00 - 11:00 | 7 | 0.22 | 1.911 | 7 | 0.22 | 1.911 | 7 | 0.22 | 3.822 |
| 11:00 - 12:00 | 7 | 0.22 | 1.911 | 7 | 0.22 | 1.911 | 7 | 0.22 | 3.822 |
| 12:00 - 13:00 | 7 | 0.22 | 0.637 | 7 | 0.22 | 1.274 | 7 | 0.22 | 1.911 |
| 13:00 - 14:00 | 7 | 0.22 | 1.911 | 7 | 0.22 | 1.274 | 7 | 0.22 | 3.185 |
| 14:00 - 15:00 | 7 | 0.22 | 1.911 | 7 | 0.22 | 1.274 | 7 | 0.22 | 3.185 |
| 15:00 - 16:00 | 7 | 0.22 | 1.911 | 7 | 0.22 | 2.548 | 7 | 0.22 | 4.459 |
| 16:00 - 17:00 | 7 | 0.22 | 2.548 | 7 | 0.22 | 2.548 | 7 | 0.22 | 5.096 |
| 17:00 - 18:00 | 7 | 0.22 | 4.459 | 7 | 0.22 | 4.459 | 7 | 0.22 | 8.918 |
| 18:00 - 19:00 | 7 | 0.22 | 3.822 | 7 | 0.22 | 3.822 | 7 | 0.22 | 7.644 |
| 19:00 - 20:00 | 7 | 0.22 | 2.548 | 7 | 0.22 | 4.459 | 7 | 0.22 | 7.007 |
| 20:00 - 21:00 | 3 | 0.24 | 1.389 | 3 | 0.24 | 1.389 | 3 | 0.24 | 2.778 |
| 21:00 - 22:00 | 3 | 0.24 | 4.167 | 3 | 0.24 | 4.167 | 3 | 0.24 | 8.334 |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 48.383 | | | 47.697 | | | 96.080 |

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: | 0.19 to 0.30 (units: hect) |
| Survey date range: | 01/01/05 - 19/10/11 |
| Number of weekdays (Monday-Friday): | 6 |
| Number of Saturdays: | 1 |
| Number of Sundays: | 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.

TRIP RATE for Land Use 13 - PETROL FILLING STATIONS/B - PFS - WITH RETAIL

MULTI-MODAL PEDESTRIANS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|---------------|----------|-------------|---------------|------------|-------------|---------------|----------|-------------|----------------|
| | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | 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 | 2 | 0.26 | 11.765 | 2 | 0.26 | 15.686 | 2 | 0.26 | 27.451 |
| 07:00 - 08:00 | 7 | 0.22 | 32.484 | 7 | 0.22 | 27.389 | 7 | 0.22 | 59.873 |
| 08:00 - 09:00 | 7 | 0.22 | 50.955 | 7 | 0.22 | 42.675 | 7 | 0.22 | 93.630 |
| 09:00 - 10:00 | 7 | 0.22 | 38.217 | 7 | 0.22 | 35.032 | 7 | 0.22 | 73.249 |
| 10:00 - 11:00 | 7 | 0.22 | 49.045 | 7 | 0.22 | 43.949 | 7 | 0.22 | 92.994 |
| 11:00 - 12:00 | 7 | 0.22 | 38.854 | 7 | 0.22 | 38.217 | 7 | 0.22 | 77.071 |
| 12:00 - 13:00 | 7 | 0.22 | 59.873 | 7 | 0.22 | 57.325 | 7 | 0.22 | 117.198 |
| 13:00 - 14:00 | 7 | 0.22 | 63.057 | 7 | 0.22 | 63.057 | 7 | 0.22 | 126.114 |
| 14:00 - 15:00 | 7 | 0.22 | 57.962 | 7 | 0.22 | 49.682 | 7 | 0.22 | 107.644 |
| 15:00 - 16:00 | 7 | 0.22 | 58.599 | 7 | 0.22 | 71.338 | 7 | 0.22 | 129.937 |
| 16:00 - 17:00 | 7 | 0.22 | 42.675 | 7 | 0.22 | 37.580 | 7 | 0.22 | 80.255 |
| 17:00 - 18:00 | 7 | 0.22 | 50.318 | 7 | 0.22 | 43.949 | 7 | 0.22 | 94.267 |
| 18:00 - 19:00 | 7 | 0.22 | 59.236 | 7 | 0.22 | 64.968 | 7 | 0.22 | 124.204 |
| 19:00 - 20:00 | 7 | 0.22 | 44.586 | 7 | 0.22 | 52.866 | 7 | 0.22 | 97.452 |
| 20:00 - 21:00 | 3 | 0.24 | 45.833 | 3 | 0.24 | 52.778 | 3 | 0.24 | 98.611 |
| 21:00 - 22:00 | 3 | 0.24 | 40.278 | 3 | 0.24 | 48.611 | 3 | 0.24 | 88.889 |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 743.737 | | | 745.102 | | | 1488.839 |

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: | 0.19 to 0.30 (units: hect) |
| Survey date range: | 01/01/05 - 19/10/11 |
| Number of weekdays (Monday-Friday): | 6 |
| Number of Saturdays: | 1 |
| Number of Sundays: | 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.

TRIP RATE for Land Use 13 - PETROL FILLING STATIONS/B - PFS - WITH RETAIL

MULTI-MODAL PUBLIC TRANSPORT USERS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|---------------|----------|-------------|--------------|------------|-------------|--------------|----------|-------------|---------------|
| | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | Trip Rate | No. Days | Ave. AREA | 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 | 2 | 0.26 | 7.843 | 2 | 0.26 | 5.882 | 2 | 0.26 | 13.725 |
| 07:00 - 08:00 | 7 | 0.22 | 3.822 | 7 | 0.22 | 2.548 | 7 | 0.22 | 6.370 |
| 08:00 - 09:00 | 7 | 0.22 | 4.459 | 7 | 0.22 | 3.185 | 7 | 0.22 | 7.644 |
| 09:00 - 10:00 | 7 | 0.22 | 5.732 | 7 | 0.22 | 7.006 | 7 | 0.22 | 12.738 |
| 10:00 - 11:00 | 7 | 0.22 | 1.274 | 7 | 0.22 | 2.548 | 7 | 0.22 | 3.822 |
| 11:00 - 12:00 | 7 | 0.22 | 4.459 | 7 | 0.22 | 3.185 | 7 | 0.22 | 7.644 |
| 12:00 - 13:00 | 7 | 0.22 | 3.185 | 7 | 0.22 | 3.185 | 7 | 0.22 | 6.370 |
| 13:00 - 14:00 | 7 | 0.22 | 3.822 | 7 | 0.22 | 4.459 | 7 | 0.22 | 8.281 |
| 14:00 - 15:00 | 7 | 0.22 | 3.185 | 7 | 0.22 | 2.548 | 7 | 0.22 | 5.733 |
| 15:00 - 16:00 | 7 | 0.22 | 3.185 | 7 | 0.22 | 4.459 | 7 | 0.22 | 7.644 |
| 16:00 - 17:00 | 7 | 0.22 | 1.274 | 7 | 0.22 | 2.548 | 7 | 0.22 | 3.822 |
| 17:00 - 18:00 | 7 | 0.22 | 4.459 | 7 | 0.22 | 5.732 | 7 | 0.22 | 10.191 |
| 18:00 - 19:00 | 7 | 0.22 | 4.459 | 7 | 0.22 | 2.548 | 7 | 0.22 | 7.007 |
| 19:00 - 20:00 | 7 | 0.22 | 2.548 | 7 | 0.22 | 3.822 | 7 | 0.22 | 6.370 |
| 20:00 - 21:00 | 3 | 0.24 | 0.000 | 3 | 0.24 | 2.778 | 3 | 0.24 | 2.778 |
| 21:00 - 22:00 | 3 | 0.24 | 0.000 | 3 | 0.24 | 0.000 | 3 | 0.24 | 0.000 |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 53.706 | | | 56.433 | | | 110.139 |

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: | 0.19 to 0.30 (units: hect) |
| Survey date range: | 01/01/05 - 19/10/11 |
| Number of weekdays (Monday-Friday): | 6 |
| Number of Saturdays: | 1 |
| Number of Sundays: | 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.



Appendix E – TRICS Outputs (Convenience Store)

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
 Category : 0 - CONVENIENCE STORE

MULTI-MODAL VEHICLESSelected regions and areas:

| | |
|--|--------|
| 02 SOUTH EAST | |
| ES EAST SUSSEX | 1 days |
| 05 EAST MIDLANDS | |
| LN LINCOLNSHIRE | 1 days |
| 07 YORKSHIRE & NORTH LINCOLNSHIRE | |
| WY WEST YORKSHIRE | 1 days |
| 09 NORTH | |
| DH DURHAM | 1 days |

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

Filtering Stage 2 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: 280 to 469 (units: sqm)
 Range Selected by User: 100 to 750 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 19/12/12

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 | 1 days |
| Tuesday | 1 days |
| Wednesday | 1 days |
| Thursday | 1 days |

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

Selected survey types:

| | |
|-----------------------|--------|
| Manual count | 4 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 |
| Edge of Town | 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:

| | |
|------------------|---|
| Residential Zone | 4 |
|------------------|---|

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.

Filtering Stage 3 selection:Use Class:

A1 4 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:5,001 to 10,000 1 days
10,001 to 15,000 1 days
20,001 to 25,000 2 days

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

Population within 5 miles:75,001 to 100,000 1 days
100,001 to 125,000 2 days
250,001 to 500,000 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
1.1 to 1.5 3 days

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

Petrol filling station:Included in the survey count 0 days
Excluded from count or no filling station 4 days

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

No 4 days

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

LIST OF SITES relevant to selection parameters

- | | | | |
|---|---------------------------------|------------------------------|----------------------------|
| <p>1</p> <p>DH-01-O-01</p> <p>132 STATION LANE SEATON CAREW HARTLEPOOL Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area: 469 sqm Survey date: MONDAY 26/11/12</p> | <p>SAINSBURY'S LOCAL</p> | <p>DURHAM</p> | <p>Survey Type: MANUAL</p> |
| <p>2</p> <p>ES-01-O-01</p> <p>THE SIDINGS ORE VALLEY HASTINGS Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area: 280 sqm Survey date: WEDNESDAY 19/12/12</p> | <p>ONE STOP</p> | <p>EAST SUSSEX</p> | <p>Survey Type: MANUAL</p> |
| <p>3</p> <p>LN-01-O-01</p> <p>257 NEWARK STREET NORTH HYKEHAM LINCOLN Edge of Town Residential Zone Total Gross floor area: 350 sqm Survey date: TUESDAY 15/05/07</p> | <p>SPAR</p> | <p>LINCOLNSHIRE</p> | <p>Survey Type: MANUAL</p> |
| <p>4</p> <p>WY-01-O-01</p> <p>KEIGHLEY ROAD BRADFORD Edge of Town Residential Zone Total Gross floor area: 400 sqm Survey date: THURSDAY 06/12/12</p> | <p>SAINSBURY'S LOCAL</p> | <p>WEST YORKSHIRE</p> | <p>Survey Type: MANUAL</p> |

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 |
|------------|------------------------|
| BA-01-O-01 | No on-site parking |
| DC-01-O-01 | No on-site parking |
| FA-01-O-01 | No on-site parking |

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE

MULTI-MODAL 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 | 1 | 280 | 0.357 | 1 | 280 | 0.357 | 1 | 280 | 0.714 |
| 07:00 - 08:00 | 4 | 375 | 8.806 | 4 | 375 | 8.472 | 4 | 375 | 17.278 |
| 08:00 - 09:00 | 4 | 375 | 7.805 | 4 | 375 | 7.138 | 4 | 375 | 14.943 |
| 09:00 - 10:00 | 4 | 375 | 6.805 | 4 | 375 | 6.938 | 4 | 375 | 13.743 |
| 10:00 - 11:00 | 4 | 375 | 7.872 | 4 | 375 | 7.338 | 4 | 375 | 15.210 |
| 11:00 - 12:00 | 4 | 375 | 8.272 | 4 | 375 | 8.406 | 4 | 375 | 16.678 |
| 12:00 - 13:00 | 4 | 375 | 10.007 | 4 | 375 | 9.473 | 4 | 375 | 19.480 |
| 13:00 - 14:00 | 4 | 375 | 6.938 | 4 | 375 | 6.471 | 4 | 375 | 13.409 |
| 14:00 - 15:00 | 4 | 375 | 7.939 | 4 | 375 | 7.672 | 4 | 375 | 15.611 |
| 15:00 - 16:00 | 4 | 375 | 9.740 | 4 | 375 | 10.540 | 4 | 375 | 20.280 |
| 16:00 - 17:00 | 4 | 375 | 9.606 | 4 | 375 | 9.206 | 4 | 375 | 18.812 |
| 17:00 - 18:00 | 4 | 375 | 11.007 | 4 | 375 | 10.407 | 4 | 375 | 21.414 |
| 18:00 - 19:00 | 4 | 375 | 12.608 | 4 | 375 | 13.609 | 4 | 375 | 26.217 |
| 19:00 - 20:00 | 4 | 375 | 8.406 | 4 | 375 | 9.273 | 4 | 375 | 17.679 |
| 20:00 - 21:00 | 4 | 375 | 6.137 | 4 | 375 | 6.871 | 4 | 375 | 13.008 |
| 21:00 - 22:00 | 3 | 383 | 2.176 | 3 | 383 | 2.263 | 3 | 383 | 4.439 |
| 22:00 - 23:00 | 1 | 469 | 1.919 | 1 | 469 | 2.559 | 1 | 469 | 4.478 |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 126.400 | | | 126.993 | | | 253.393 |

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: | 280 - 469 (units: sqm) |
| Survey date date range: | 01/01/05 - 19/12/12 |
| Number of weekdays (Monday-Friday): | 4 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 0 |
| Surveys manually removed from selection: | 3 |

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE

MULTI-MODAL 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 | 1 | 280 | 0.000 | 1 | 280 | 0.000 | 1 | 280 | 0.000 |
| 07:00 - 08:00 | 4 | 375 | 0.334 | 4 | 375 | 0.400 | 4 | 375 | 0.734 |
| 08:00 - 09:00 | 4 | 375 | 1.134 | 4 | 375 | 1.134 | 4 | 375 | 2.268 |
| 09:00 - 10:00 | 4 | 375 | 0.267 | 4 | 375 | 0.133 | 4 | 375 | 0.400 |
| 10:00 - 11:00 | 4 | 375 | 0.267 | 4 | 375 | 0.267 | 4 | 375 | 0.534 |
| 11:00 - 12:00 | 4 | 375 | 0.200 | 4 | 375 | 0.267 | 4 | 375 | 0.467 |
| 12:00 - 13:00 | 4 | 375 | 0.467 | 4 | 375 | 0.400 | 4 | 375 | 0.867 |
| 13:00 - 14:00 | 4 | 375 | 0.067 | 4 | 375 | 0.133 | 4 | 375 | 0.200 |
| 14:00 - 15:00 | 4 | 375 | 0.200 | 4 | 375 | 0.133 | 4 | 375 | 0.333 |
| 15:00 - 16:00 | 4 | 375 | 0.133 | 4 | 375 | 0.200 | 4 | 375 | 0.333 |
| 16:00 - 17:00 | 4 | 375 | 0.400 | 4 | 375 | 0.334 | 4 | 375 | 0.734 |
| 17:00 - 18:00 | 4 | 375 | 0.334 | 4 | 375 | 0.267 | 4 | 375 | 0.601 |
| 18:00 - 19:00 | 4 | 375 | 0.400 | 4 | 375 | 0.467 | 4 | 375 | 0.867 |
| 19:00 - 20:00 | 4 | 375 | 0.133 | 4 | 375 | 0.334 | 4 | 375 | 0.467 |
| 20:00 - 21:00 | 4 | 375 | 0.267 | 4 | 375 | 0.200 | 4 | 375 | 0.467 |
| 21:00 - 22:00 | 4 | 375 | 0.200 | 4 | 375 | 0.000 | 4 | 375 | 0.200 |
| 22:00 - 23:00 | 1 | 469 | 0.000 | 1 | 469 | 0.000 | 1 | 469 | 0.000 |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 4.803 | | | 4.669 | | | 9.472 |

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: | 280 - 469 (units: sqm) |
| Survey date date range: | 01/01/05 - 19/12/12 |
| Number of weekdays (Monday-Friday): | 4 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 0 |
| Surveys manually removed from selection: | 3 |

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE

MULTI-MODAL PEDESTRIANS

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 | 1 | 280 | 1.071 | 1 | 280 | 1.071 | 1 | 280 | 2.142 |
| 07:00 - 08:00 | 4 | 375 | 1.601 | 4 | 375 | 1.201 | 4 | 375 | 2.802 |
| 08:00 - 09:00 | 4 | 375 | 5.070 | 4 | 375 | 5.003 | 4 | 375 | 10.073 |
| 09:00 - 10:00 | 4 | 375 | 3.269 | 4 | 375 | 2.935 | 4 | 375 | 6.204 |
| 10:00 - 11:00 | 4 | 375 | 3.869 | 4 | 375 | 3.269 | 4 | 375 | 7.138 |
| 11:00 - 12:00 | 4 | 375 | 5.537 | 4 | 375 | 4.870 | 4 | 375 | 10.407 |
| 12:00 - 13:00 | 4 | 375 | 4.603 | 4 | 375 | 4.870 | 4 | 375 | 9.473 |
| 13:00 - 14:00 | 4 | 375 | 5.337 | 4 | 375 | 5.670 | 4 | 375 | 11.007 |
| 14:00 - 15:00 | 4 | 375 | 3.135 | 4 | 375 | 3.602 | 4 | 375 | 6.737 |
| 15:00 - 16:00 | 4 | 375 | 7.672 | 4 | 375 | 7.005 | 4 | 375 | 14.677 |
| 16:00 - 17:00 | 4 | 375 | 4.803 | 4 | 375 | 4.603 | 4 | 375 | 9.406 |
| 17:00 - 18:00 | 4 | 375 | 3.803 | 4 | 375 | 3.803 | 4 | 375 | 7.606 |
| 18:00 - 19:00 | 4 | 375 | 6.538 | 4 | 375 | 7.138 | 4 | 375 | 13.676 |
| 19:00 - 20:00 | 4 | 375 | 4.069 | 4 | 375 | 4.870 | 4 | 375 | 8.939 |
| 20:00 - 21:00 | 4 | 375 | 2.602 | 4 | 375 | 2.869 | 4 | 375 | 5.471 |
| 21:00 - 22:00 | 3 | 383 | 1.218 | 3 | 383 | 1.654 | 3 | 383 | 2.872 |
| 22:00 - 23:00 | 1 | 469 | 0.000 | 1 | 469 | 0.000 | 1 | 469 | 0.000 |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 64.197 | | | 64.433 | | | 128.630 |

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: 280 - 469 (units: sqm)
 Survey date date range: 01/01/05 - 19/12/12
 Number of weekdays (Monday-Friday): 4
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 3

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.

TRIP RATE for Land Use 01 - RETAIL/O - CONVENIENCE STORE

MULTI-MODAL PUBLIC TRANSPORT USERS

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 | 1 | 280 | 0.000 | 1 | 280 | 0.000 | 1 | 280 | 0.000 |
| 07:00 - 08:00 | 4 | 375 | 0.067 | 4 | 375 | 0.334 | 4 | 375 | 0.401 |
| 08:00 - 09:00 | 4 | 375 | 0.000 | 4 | 375 | 0.133 | 4 | 375 | 0.133 |
| 09:00 - 10:00 | 4 | 375 | 0.067 | 4 | 375 | 0.200 | 4 | 375 | 0.267 |
| 10:00 - 11:00 | 4 | 375 | 0.067 | 4 | 375 | 0.000 | 4 | 375 | 0.067 |
| 11:00 - 12:00 | 4 | 375 | 0.267 | 4 | 375 | 0.067 | 4 | 375 | 0.334 |
| 12:00 - 13:00 | 4 | 375 | 0.133 | 4 | 375 | 0.067 | 4 | 375 | 0.200 |
| 13:00 - 14:00 | 4 | 375 | 0.400 | 4 | 375 | 0.267 | 4 | 375 | 0.667 |
| 14:00 - 15:00 | 4 | 375 | 0.267 | 4 | 375 | 0.067 | 4 | 375 | 0.334 |
| 15:00 - 16:00 | 4 | 375 | 0.133 | 4 | 375 | 0.133 | 4 | 375 | 0.266 |
| 16:00 - 17:00 | 4 | 375 | 0.200 | 4 | 375 | 0.067 | 4 | 375 | 0.267 |
| 17:00 - 18:00 | 4 | 375 | 0.334 | 4 | 375 | 0.067 | 4 | 375 | 0.401 |
| 18:00 - 19:00 | 4 | 375 | 0.200 | 4 | 375 | 0.067 | 4 | 375 | 0.267 |
| 19:00 - 20:00 | 4 | 375 | 0.000 | 4 | 375 | 0.000 | 4 | 375 | 0.000 |
| 20:00 - 21:00 | 4 | 375 | 0.000 | 4 | 375 | 0.000 | 4 | 375 | 0.000 |
| 21:00 - 22:00 | 3 | 383 | 0.000 | 3 | 383 | 0.000 | 3 | 383 | 0.000 |
| 22:00 - 23:00 | 1 | 469 | 0.000 | 1 | 469 | 0.000 | 1 | 469 | 0.000 |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 2.135 | | | 1.469 | | | 3.604 |

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: 280 - 469 (units: sqm)
Survey date range: 01/01/05 - 19/12/12
Number of weekdays (Monday-Friday): 4
Number of Saturdays: 0
Number of Sundays: 0
Surveys manually removed from selection: 3

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 F – TRICS Outputs (Residential)

TRIP RATE CALCULATION SELECTION PARAMETERS:

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

MULTI-MODAL VEHICLESSelected regions and areas:

| | | |
|-----------|----------------------|--------|
| 03 | SOUTH WEST | |
| | CW CORNWALL | 1 days |
| 04 | EAST ANGLIA | |
| | CA CAMBRIDGESHIRE | 1 days |
| | SF SUFFOLK | 1 days |
| 05 | EAST MIDLANDS | |
| | LE LEICESTERSHIRE | 1 days |
| 06 | WEST MIDLANDS | |
| | SH SHROPSHIRE | 1 days |
| | ST STAFFORDSHIRE | 1 days |
| | WK WARWICKSHIRE | 1 days |
| | WM WEST MIDLANDS | 1 days |
| | WO WORCESTERSHIRE | 1 days |
| 08 | NORTH WEST | |
| | CH CHESHIRE | 1 days |
| | MS MERSEYSIDE | 1 days |
| 11 | SCOTLAND | |
| | AG ANGUS | 1 days |
| | HI HIGHLAND | 1 days |

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

Filtering Stage 2 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: 6 to 15 (units:)
 Range Selected by User: 6 to 15 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 21/06/13

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

Selected survey days:

| | |
|-----------|--------|
| Tuesday | 5 days |
| Wednesday | 2 days |
| Thursday | 3 days |
| Friday | 3 days |

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

Selected survey types:

| | |
|-----------------------|---------|
| Manual count | 13 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) | 10 |
| Edge of Town | 3 |

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:

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.

Filtering Stage 3 selection:

Use Class:

C3 12 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:

| | |
|------------------|--------|
| 1,001 to 5,000 | 1 days |
| 5,001 to 10,000 | 2 days |
| 10,001 to 15,000 | 2 days |
| 15,001 to 20,000 | 4 days |
| 20,001 to 25,000 | 2 days |
| 25,001 to 50,000 | 2 days |

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

Population within 5 miles:

| | |
|--------------------|--------|
| 25,001 to 50,000 | 3 days |
| 75,001 to 100,000 | 4 days |
| 100,001 to 125,000 | 1 days |
| 125,001 to 250,000 | 2 days |
| 250,001 to 500,000 | 3 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 | 6 days |
| 1.1 to 1.5 | 7 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 13 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.

LIST OF SITES relevant to selection parameters

| | | | | |
|----------|------------------------------------|-----------------------|----------|-----------------------|
| 1 | AG-03-A-01 | BUNGALOWS/DET. | | ANGUS |
| | KEPTIE ROAD | | | |
| | ARBROATH | | | |
| | Suburban Area (PPS6 Out of Centre) | | | |
| | Residential Zone | | | |
| | Total Number of dwellings: | | 7 | |
| | Survey date: TUESDAY | | 22/05/12 | Survey Type: MANUAL |
| 2 | CA-03-A-04 | DETACHED | | CAMBRIDGESHIRE |
| | THORPE PARK ROAD | | | |
| | PETERBOROUGH | | | |
| | Suburban Area (PPS6 Out of Centre) | | | |
| | Residential Zone | | | |
| | Total Number of dwellings: | | 9 | |
| | Survey date: TUESDAY | | 18/10/11 | Survey Type: MANUAL |
| 3 | CH-03-A-08 | DETACHED | | CESHIRE |
| | 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 |
| 4 | CW-03-A-01 | TERRACED | | CORNWALL |
| | ALVERTON ROAD | | | |
| | PENZANCE | | | |
| | Suburban Area (PPS6 Out of Centre) | | | |
| | Residential Zone | | | |
| | Total Number of dwellings: | | 13 | |
| | Survey date: THURSDAY | | 30/06/05 | Survey Type: MANUAL |
| 5 | HI-03-A-13 | HOUSING | | HIGHLAND |
| | KINGSMILLS ROAD | | | |
| | INVERNESS | | | |
| | Edge of Town | | | |
| | Residential Zone | | | |
| | Total Number of dwellings: | | 9 | |
| | Survey date: THURSDAY | | 21/05/09 | Survey Type: MANUAL |
| 6 | LE-03-A-01 | DETACHED | | LEICESTERSHIRE |
| | REDWOOD AVENUE | | | |
| | MELTON MOWBRAY | | | |
| | Edge of Town | | | |
| | Residential Zone | | | |
| | Total Number of dwellings: | | 11 | |
| | Survey date: TUESDAY | | 03/05/05 | Survey Type: MANUAL |
| 7 | MS-03-A-03 | DETACHED | | MERSEYSIDE |
| | BEMPTON ROAD | | | |
| | OTTERSPOOL | | | |
| | LIVERPOOL | | | |
| | Suburban Area (PPS6 Out of Centre) | | | |
| | Residential Zone | | | |
| | Total Number of dwellings: | | 15 | |
| | Survey date: FRIDAY | | 21/06/13 | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

| | | | |
|-----------|------------------------------------|---------------------------------|-----------------------|
| 8 | SF-03-A-04 | DETACHED & BUNGALOWS | SUFFOLK |
| | NORMANSTON DRIVE | | |
| | LOWESTOFT | | |
| | Suburban Area (PPS6 Out of Centre) | | |
| | Residential Zone | | |
| | Total Number of dwellings: | 7 | |
| | Survey date: TUESDAY | 23/10/12 | Survey Type: MANUAL |
| 9 | SH-03-A-03 | DETACHED | SHROPSHIRE |
| | SOMERBY DRIVE | | |
| | BICTON HEATH | | |
| | SHREWSBURY | | |
| | Edge of Town | | |
| | No Sub Category | | |
| | Total Number of dwellings: | 10 | |
| | Survey date: FRIDAY | 26/06/09 | Survey Type: MANUAL |
| 10 | 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 |
| 11 | WK-03-A-01 | TERRACED/SEMI/DET. | WARWICKSHIRE |
| | ARLINGTON AVENUE | | |
| | LEAMINGTON SPA | | |
| | Suburban Area (PPS6 Out of Centre) | | |
| | Residential Zone | | |
| | Total Number of dwellings: | 6 | |
| | Survey date: FRIDAY | 21/10/11 | Survey Type: MANUAL |
| 12 | WM-03-A-02 | DETACHED & SEMI DET. | WEST MIDLANDS |
| | HEATH STREET | | |
| | STOURBRIDGE | | |
| | Suburban Area (PPS6 Out of Centre) | | |
| | Residential Zone | | |
| | Total Number of dwellings: | 12 | |
| | Survey date: WEDNESDAY | 26/04/06 | Survey Type: MANUAL |
| 13 | WO-03-A-01 | DETACHED | WORCESTERSHIRE |
| | MARLBOROUGH AVENUE | | |
| | ASTON FIELDS | | |
| | BROMSGROVE | | |
| | Suburban Area (PPS6 Out of Centre) | | |
| | Residential Zone | | |
| | Total Number of dwellings: | 10 | |
| | Survey date: THURSDAY | 23/06/05 | Survey Type: MANUAL |

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

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

MULTI-MODAL VEHICLESCalculation 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 | 13 | 10 | 0.097 | 13 | 10 | 0.246 | 13 | 10 | 0.343 |
| 08:00 - 09:00 | 13 | 10 | 0.254 | 13 | 10 | 0.455 | 13 | 10 | 0.709 |
| 09:00 - 10:00 | 13 | 10 | 0.119 | 13 | 10 | 0.306 | 13 | 10 | 0.425 |
| 10:00 - 11:00 | 13 | 10 | 0.239 | 13 | 10 | 0.201 | 13 | 10 | 0.440 |
| 11:00 - 12:00 | 13 | 10 | 0.216 | 13 | 10 | 0.231 | 13 | 10 | 0.447 |
| 12:00 - 13:00 | 13 | 10 | 0.246 | 13 | 10 | 0.254 | 13 | 10 | 0.500 |
| 13:00 - 14:00 | 13 | 10 | 0.179 | 13 | 10 | 0.216 | 13 | 10 | 0.395 |
| 14:00 - 15:00 | 13 | 10 | 0.254 | 13 | 10 | 0.254 | 13 | 10 | 0.508 |
| 15:00 - 16:00 | 13 | 10 | 0.299 | 13 | 10 | 0.216 | 13 | 10 | 0.515 |
| 16:00 - 17:00 | 13 | 10 | 0.358 | 13 | 10 | 0.276 | 13 | 10 | 0.634 |
| 17:00 - 18:00 | 13 | 10 | 0.366 | 13 | 10 | 0.291 | 13 | 10 | 0.657 |
| 18:00 - 19:00 | 13 | 10 | 0.254 | 13 | 10 | 0.201 | 13 | 10 | 0.455 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 2.881 | | | 3.147 | | | 6.028 |

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: | 6 - 15 (units:) |
| Survey date date range: | 01/01/05 - 21/06/13 |
| Number of weekdays (Monday-Friday): | 13 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 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.

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

MULTI-MODAL OGVSCalculation 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 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 08:00 - 09:00 | 13 | 10 | 0.015 | 13 | 10 | 0.015 | 13 | 10 | 0.030 |
| 09:00 - 10:00 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 10:00 - 11:00 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 11:00 - 12:00 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 12:00 - 13:00 | 13 | 10 | 0.015 | 13 | 10 | 0.015 | 13 | 10 | 0.030 |
| 13:00 - 14:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 14:00 - 15:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 15:00 - 16:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 16:00 - 17:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 17:00 - 18:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 18:00 - 19:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.058 | | | 0.058 | | | 0.116 |

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: | 6 - 15 (units:) |
| Survey date range: | 01/01/05 - 21/06/13 |
| Number of weekdays (Monday-Friday): | 13 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 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.

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

MULTI-MODAL PSVS**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 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 08:00 - 09:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 09:00 - 10:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 10:00 - 11:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 11:00 - 12:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 12:00 - 13:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 13:00 - 14:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 14:00 - 15:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 15:00 - 16:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 16:00 - 17:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 17:00 - 18:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 18:00 - 19:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.000 | | | 0.000 | | | 0.000 |

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

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

Parameter summary

Trip rate parameter range selected: 6 - 15 (units:)
Survey date date range: 01/01/05 - 21/06/13
Number of weekdays (Monday-Friday): 13
Number of Saturdays: 0
Number of Sundays: 0
Surveys manually removed from selection: 0

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

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

MULTI-MODAL CYCLISTSCalculation 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 | 13 | 10 | 0.015 | 13 | 10 | 0.045 | 13 | 10 | 0.060 |
| 08:00 - 09:00 | 13 | 10 | 0.022 | 13 | 10 | 0.022 | 13 | 10 | 0.044 |
| 09:00 - 10:00 | 13 | 10 | 0.000 | 13 | 10 | 0.007 | 13 | 10 | 0.007 |
| 10:00 - 11:00 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 11:00 - 12:00 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 12:00 - 13:00 | 13 | 10 | 0.015 | 13 | 10 | 0.015 | 13 | 10 | 0.030 |
| 13:00 - 14:00 | 13 | 10 | 0.007 | 13 | 10 | 0.000 | 13 | 10 | 0.007 |
| 14:00 - 15:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 15:00 - 16:00 | 13 | 10 | 0.030 | 13 | 10 | 0.000 | 13 | 10 | 0.030 |
| 16:00 - 17:00 | 13 | 10 | 0.030 | 13 | 10 | 0.022 | 13 | 10 | 0.052 |
| 17:00 - 18:00 | 13 | 10 | 0.007 | 13 | 10 | 0.007 | 13 | 10 | 0.014 |
| 18:00 - 19:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 19:00 - 20:00 | 1 | 7 | 0.000 | 1 | 7 | 0.000 | 1 | 7 | 0.000 |
| 20:00 - 21:00 | 1 | 7 | 0.000 | 1 | 7 | 0.000 | 1 | 7 | 0.000 |
| 21:00 - 22:00 | 1 | 7 | 0.000 | 1 | 7 | 0.000 | 1 | 7 | 0.000 |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.140 | | | 0.132 | | | 0.272 |

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: | 6 - 15 (units:) |
| Survey date range: | 01/01/05 - 21/06/13 |
| Number of weekdays (Monday-Friday): | 13 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 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.

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

MULTI-MODAL VEHICLE OCCUPANTSCalculation 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 | 13 | 10 | 0.075 | 13 | 10 | 0.261 | 13 | 10 | 0.336 |
| 08:00 - 09:00 | 13 | 10 | 0.321 | 13 | 10 | 0.642 | 13 | 10 | 0.963 |
| 09:00 - 10:00 | 13 | 10 | 0.142 | 13 | 10 | 0.366 | 13 | 10 | 0.508 |
| 10:00 - 11:00 | 13 | 10 | 0.276 | 13 | 10 | 0.254 | 13 | 10 | 0.530 |
| 11:00 - 12:00 | 13 | 10 | 0.291 | 13 | 10 | 0.269 | 13 | 10 | 0.560 |
| 12:00 - 13:00 | 13 | 10 | 0.321 | 13 | 10 | 0.328 | 13 | 10 | 0.649 |
| 13:00 - 14:00 | 13 | 10 | 0.224 | 13 | 10 | 0.276 | 13 | 10 | 0.500 |
| 14:00 - 15:00 | 13 | 10 | 0.328 | 13 | 10 | 0.313 | 13 | 10 | 0.641 |
| 15:00 - 16:00 | 13 | 10 | 0.448 | 13 | 10 | 0.321 | 13 | 10 | 0.769 |
| 16:00 - 17:00 | 13 | 10 | 0.500 | 13 | 10 | 0.403 | 13 | 10 | 0.903 |
| 17:00 - 18:00 | 13 | 10 | 0.463 | 13 | 10 | 0.366 | 13 | 10 | 0.829 |
| 18:00 - 19:00 | 13 | 10 | 0.351 | 13 | 10 | 0.269 | 13 | 10 | 0.620 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 3.740 | | | 4.068 | | | 7.808 |

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: | 6 - 15 (units:) |
| Survey date date range: | 01/01/05 - 21/06/13 |
| Number of weekdays (Monday-Friday): | 13 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 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.

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

MULTI-MODAL PEDESTRIANSCalculation 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 | 13 | 10 | 0.037 | 13 | 10 | 0.075 | 13 | 10 | 0.112 |
| 08:00 - 09:00 | 13 | 10 | 0.052 | 13 | 10 | 0.313 | 13 | 10 | 0.365 |
| 09:00 - 10:00 | 13 | 10 | 0.090 | 13 | 10 | 0.097 | 13 | 10 | 0.187 |
| 10:00 - 11:00 | 13 | 10 | 0.082 | 13 | 10 | 0.127 | 13 | 10 | 0.209 |
| 11:00 - 12:00 | 13 | 10 | 0.097 | 13 | 10 | 0.052 | 13 | 10 | 0.149 |
| 12:00 - 13:00 | 13 | 10 | 0.127 | 13 | 10 | 0.134 | 13 | 10 | 0.261 |
| 13:00 - 14:00 | 13 | 10 | 0.104 | 13 | 10 | 0.075 | 13 | 10 | 0.179 |
| 14:00 - 15:00 | 13 | 10 | 0.104 | 13 | 10 | 0.127 | 13 | 10 | 0.231 |
| 15:00 - 16:00 | 13 | 10 | 0.164 | 13 | 10 | 0.082 | 13 | 10 | 0.246 |
| 16:00 - 17:00 | 13 | 10 | 0.104 | 13 | 10 | 0.060 | 13 | 10 | 0.164 |
| 17:00 - 18:00 | 13 | 10 | 0.134 | 13 | 10 | 0.022 | 13 | 10 | 0.156 |
| 18:00 - 19:00 | 13 | 10 | 0.112 | 13 | 10 | 0.067 | 13 | 10 | 0.179 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 1.207 | | | 1.231 | | | 2.438 |

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: | 6 - 15 (units:) |
| Survey date range: | 01/01/05 - 21/06/13 |
| Number of weekdays (Monday-Friday): | 13 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 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.

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

MULTI-MODAL PUBLIC TRANSPORT USERS

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 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 08:00 - 09:00 | 13 | 10 | 0.000 | 13 | 10 | 0.022 | 13 | 10 | 0.022 |
| 09:00 - 10:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 10:00 - 11:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 11:00 - 12:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 12:00 - 13:00 | 13 | 10 | 0.007 | 13 | 10 | 0.000 | 13 | 10 | 0.007 |
| 13:00 - 14:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 14:00 - 15:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 15:00 - 16:00 | 13 | 10 | 0.015 | 13 | 10 | 0.000 | 13 | 10 | 0.015 |
| 16:00 - 17:00 | 13 | 10 | 0.007 | 13 | 10 | 0.000 | 13 | 10 | 0.007 |
| 17:00 - 18:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 18:00 - 19:00 | 13 | 10 | 0.000 | 13 | 10 | 0.000 | 13 | 10 | 0.000 |
| 19:00 - 20:00 | | | | | | | | | |
| 20:00 - 21:00 | | | | | | | | | |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.029 | | | 0.022 | | | 0.051 |

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

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

Parameter summary

Trip rate parameter range selected: 6 - 15 (units:)
 Survey date range: 01/01/05 - 21/06/13
 Number of weekdays (Monday-Friday): 13
 Number of Saturdays: 0
 Number of Sundays: 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.

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

MULTI-MODAL TOTAL PEOPLECalculation 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 | 13 | 10 | 0.127 | 13 | 10 | 0.381 | 13 | 10 | 0.508 |
| 08:00 - 09:00 | 13 | 10 | 0.396 | 13 | 10 | 1.000 | 13 | 10 | 1.396 |
| 09:00 - 10:00 | 13 | 10 | 0.231 | 13 | 10 | 0.470 | 13 | 10 | 0.701 |
| 10:00 - 11:00 | 13 | 10 | 0.366 | 13 | 10 | 0.388 | 13 | 10 | 0.754 |
| 11:00 - 12:00 | 13 | 10 | 0.396 | 13 | 10 | 0.328 | 13 | 10 | 0.724 |
| 12:00 - 13:00 | 13 | 10 | 0.470 | 13 | 10 | 0.478 | 13 | 10 | 0.948 |
| 13:00 - 14:00 | 13 | 10 | 0.336 | 13 | 10 | 0.351 | 13 | 10 | 0.687 |
| 14:00 - 15:00 | 13 | 10 | 0.433 | 13 | 10 | 0.440 | 13 | 10 | 0.873 |
| 15:00 - 16:00 | 13 | 10 | 0.657 | 13 | 10 | 0.403 | 13 | 10 | 1.060 |
| 16:00 - 17:00 | 13 | 10 | 0.642 | 13 | 10 | 0.485 | 13 | 10 | 1.127 |
| 17:00 - 18:00 | 13 | 10 | 0.604 | 13 | 10 | 0.396 | 13 | 10 | 1.000 |
| 18:00 - 19:00 | 13 | 10 | 0.463 | 13 | 10 | 0.336 | 13 | 10 | 0.799 |
| 19:00 - 20:00 | 1 | 7 | 0.000 | 1 | 7 | 0.000 | 1 | 7 | 0.000 |
| 20:00 - 21:00 | 1 | 7 | 0.000 | 1 | 7 | 0.000 | 1 | 7 | 0.000 |
| 21:00 - 22:00 | 1 | 7 | 0.000 | 1 | 7 | 0.000 | 1 | 7 | 0.000 |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 5.121 | | | 5.456 | | | 10.577 |

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, there 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: | 6 - 15 (units:) |
| Survey date range: | 01/01/05 - 21/06/13 |
| Number of weekdays (Monday-Friday): | 13 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 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.