

Appendix 3.2

Stafford Transport Model Survey
Completion Report, 2007



**STAFFORDSHIRE COUNTY
COUNCIL CALL ON
COMMISSION**

**Understanding The Transport
Implications Of New
Developments In Stafford**

**Survey Completion Report
November 2007**

Note

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Document History

JOB NUMBER: 5023650.1595.730			DOCUMENT REF: Draft Survey Completion Report v3.doc			
2	Final	GAK	TD	CS	PR	Dec 2007
1	First draft	GAK	TD	CS	PR	Nov 2007
		Originated	Checked	Reviewed	Authorised	Date
Revision	Purpose Description					

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1. Introduction

STUDY COMMISSION

- 1.1 Atkins Transport Planning was commissioned by Staffordshire County Council in July 2007 to develop a new traffic model to help assess the transport implications of new development proposals in the County Town of Stafford.
- 1.2 The key elements of the commission were to:
 - ◆ Develop a new transport model to justify the most sustainable locations, in transport terms, for new housing and employment development in Stafford; and
 - ◆ Establish the scale of any new highway and public transport schemes necessary to deliver the new development.
- 1.3 A Steering Group comprising representatives of Staffordshire County Council, Stafford Borough Council and the Highways Agency was subsequently set up to direct and oversee work on the project. An Inception Report was duly prepared and approved by the Steering Group at a presentation meeting held on 31 July in the offices of Stafford Borough Council.

PURPOSE OF REPORT

- 1.4 The Inception Report set out a phased approach to the model development process. This report details the processes associated with the data collection stage of this study and considers the following:
 - ◆ Data collection and the modelling process;
 - ◆ Audit of existing data;
 - ◆ Roadside Interview surveys;
 - ◆ Car Park Surveys;
 - ◆ Journey to Work census;
 - ◆ Traffic Counts; and
 - ◆ Journey Time Surveys.

2. Data collection and the modelling process

OVERVIEW

- 2.1 A key objective of the study is to build a computer based traffic model that is capable of reflecting travel patterns and conditions that occur in the real world. It is only when this has been achieved that the model can be used with any degree of confidence to examine likely future travel scenarios.
- 2.2 In order to achieve this it is necessary to collect information on current travel patterns and network conditions and develop a methodology that ensures motorists route choice decisions can be reflected in model form to an acceptable level of confidence.
- 2.3 Essentially the development of a good model is totally dependent on the collection of quality data.
- 2.4 The types of data that are required can basically be broken down into two key components:
 - ◆ Travel demand; and
 - ◆ Network capacity.
- 2.5 These are discussed below.

TRAVEL DEMAND

- 2.6 Demand for movement occurs as people go about their daily routine and is consequently driven by life's key activities of work, school, shopping, recreation etc. Additionally, goods as well as people need to be moved to supply the commodities that businesses and individuals require.
- 2.7 As such, demand for movement is inextricably linked with the land use characteristics of a town.
- 2.8 The Inception Report for this study proposed that information on people's demand for movement be collected through a series of interviews carried out at the roadside and on key central area car parks.
- 2.9 In reality it is not practical to interview every motorist and it is accepted practice to interview a sample of drivers and then factor these observations up to represent the total number of vehicles using that particular road or car park.
- 2.10 The basic purpose of these surveys is to collect information on where people are travelling from/to and at what time of day and for what purpose.

NETWORK CAPACITY

- 2.11 Accurate specification of the capacity of the road network is essential as congestion on the system is a key determinant in the route choice decisions of motorists.

- 2.12 A road has an ultimate fixed capacity depending on its physical characteristics and the composition of traffic wishing to use it. If demand for movement along the road is low then journey times will be relatively free flowing. However, as demand increases delays start to increase and once a network starts operating at more than 85-95% of its capacity then the whole system can become sensitive to the slightest of changes in travel conditions. In extreme conditions, where demand exceeds capacity, the system can start breaking down rapidly and accumulated queues can take a considerable length of time to dissipate.
- 2.13 All of these characteristics are quite complex and quality information on the capacity of the network is essential if the model is to accurately reflect the route choice decisions that motorists make in the real world. Each individual decision has an impact on the decisions of other motorists particularly as the network becomes more congested. The purpose of the model is to look at the cumulative impact of all travel patterns and route choice decisions.

3. Audit of existing data

- 3.1 A brief audit of existing data was undertaken to identify the need for new surveys.
- 3.2 Whilst no suitable origin destination information was identified, an extensive amount of traffic count information was made available by Staffordshire County Council.
- 3.3 The available counts data, split by turning and link counts, in the wider buffer area is shown on Figure 3.1 and in the key Stafford area on Figure 3.2 below.

Figure 3.1 – Existing Traffic Counts in Stafford Wider Area

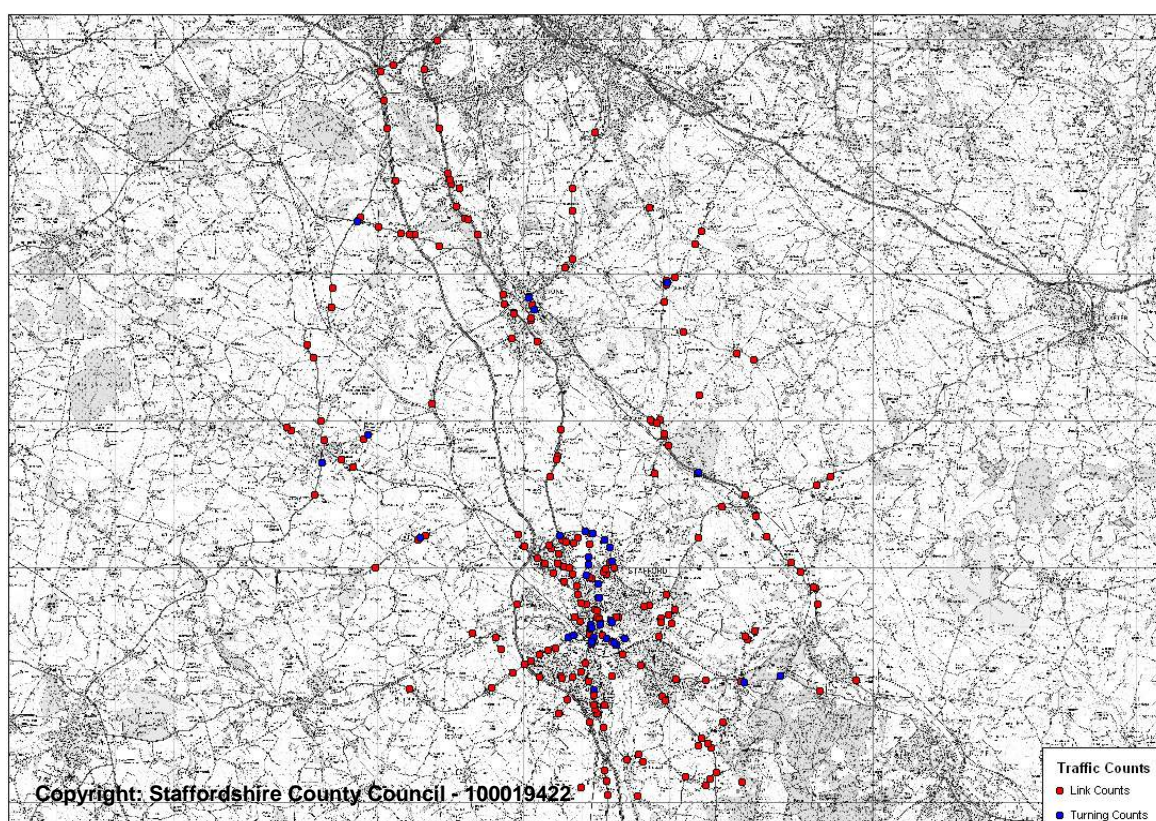
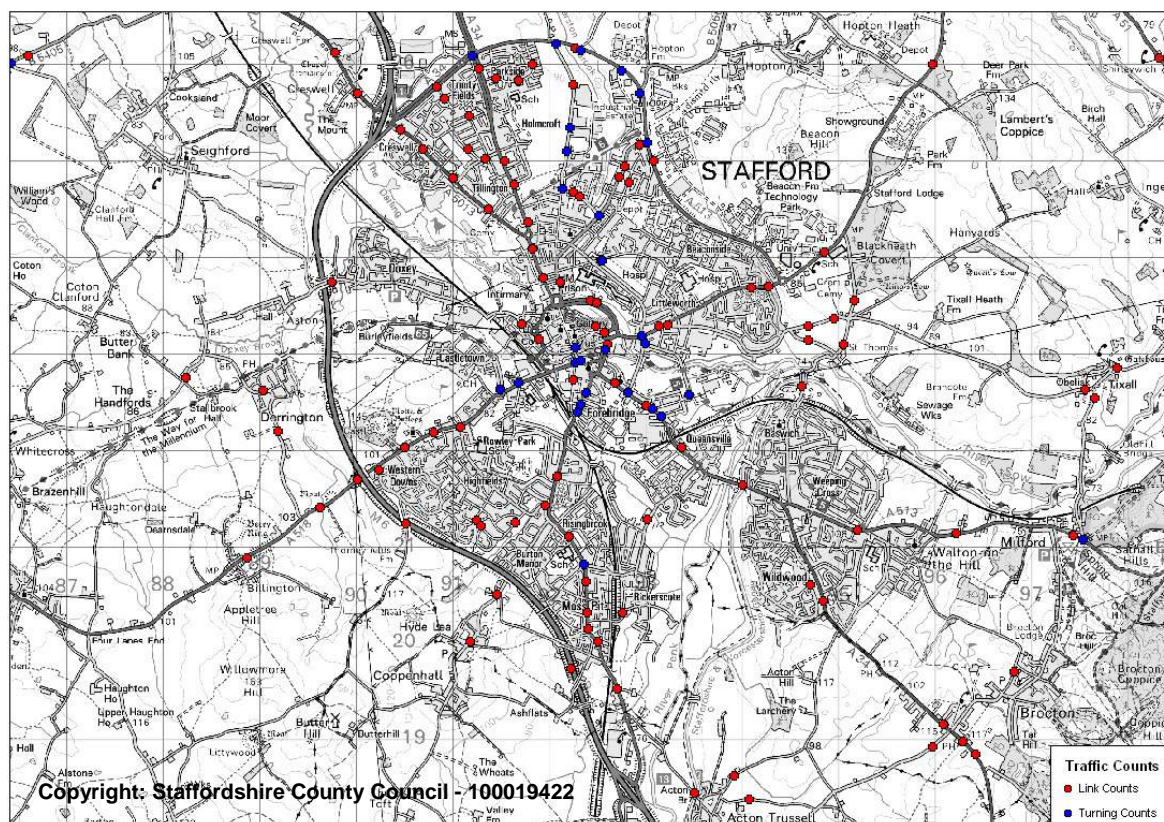


Figure 3.2 – Existing Traffic Counts in Stafford



- 3.4 This data was available in automatic and manual form with both passing and turning count information available. Supplementary count data was also available from recent Traffic Impact Assessments.
- 3.5 This is discussed in greater detail in Section 4 below.
- 3.6 Information on network capacity, in the form of signal timings, was also made available by Staffordshire County Council.
- 3.7 Site visits have been undertaken to ensure that the available data is reasonable and is a good match to the real conditions in Stafford.

4. Travel Demand Surveys

4.1 Various sources of data have been collated in order to access the travel patterns across the study area. These have included:

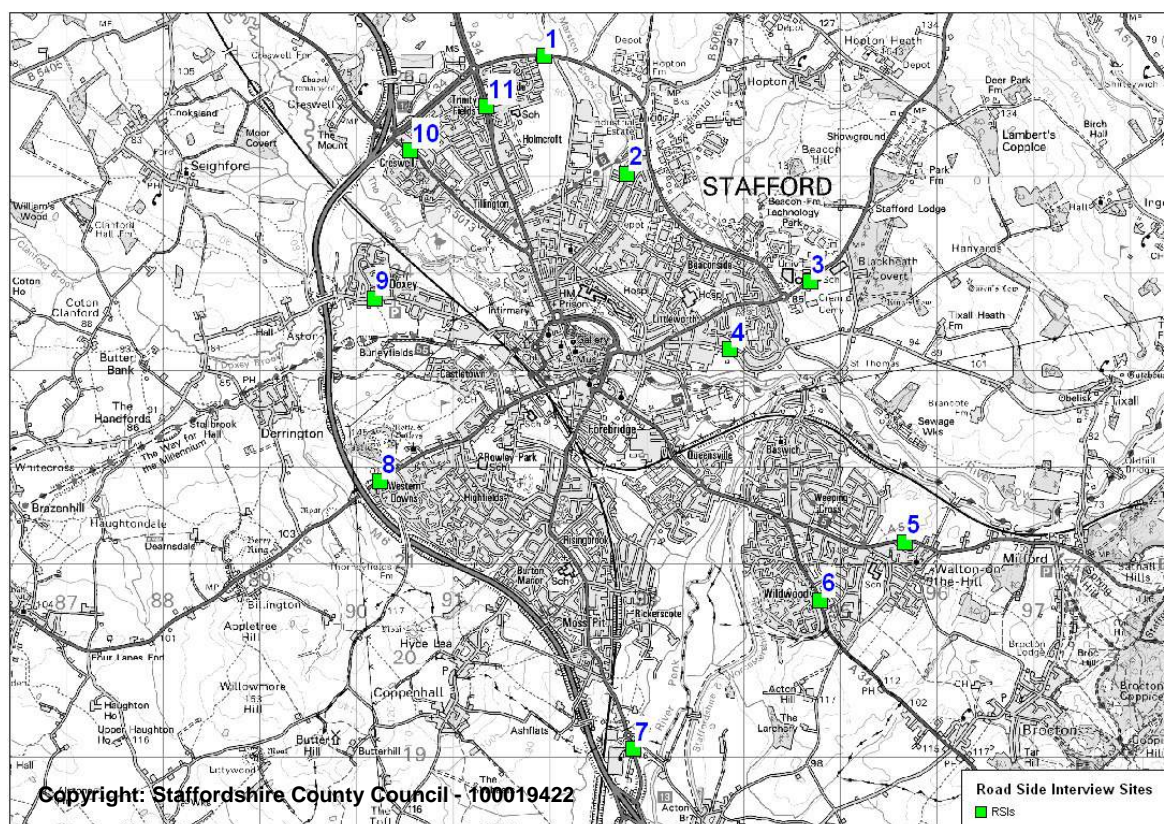
- ◆ Roadside Interviews (RSI);
- ◆ Car Park Surveys;
- ◆ Journey to work Census data: and
- ◆ Traffic Counts.

4.2 These data sets are discussed in more details below.

ROADSIDE INTERVIEWS

4.3 The Roadside Interview Sites (RSIs) were designed to ensure that all key traffic movements entering the town were captured. Following discussion with the Steering Group, eleven locations were identified as priority sites as illustrated on Figure 4.1 below.

Figure 4.1 – RSI locations



4.4 RSIs involve the stopping of drivers under the control of a uniformed Police Officer whilst survey staff undertake brief face to face interviews. Whilst these interviews only take a few minutes to complete, extensive queues can rapidly build up during

peak hours. Therefore, in order to minimise traffic congestion and to maximise safety conditions for survey staff, the preferred practise is to provide a separate interview bay wherever possible.

4.5 However, this is not always possible on single carriageway roads where width is limited. In these circumstances an all stop interview procedure is necessary. At sites where road width is a particular problem, and where congestion and safety of survey staff is a key concern, an alternative survey method involves the distribution of pre paid postcard questionnaires.

4.6 Table 4.1 below summarises the RSIs locations and the methods used in this study.

Table 4.1 – Roadside Interviews: Survey Type

Site No	Location	Survey Method
1	A449 Mossnit South of Argos Roundabout/Mill Lane	Interview Bay
2	A34 Stone Road South of A513 (Dual Carriageway Section)	Interview Bay
3	A34 Cannock Road Between Overhill Road & Wildwood Drive	All Stop Interview
4	A513 Milford Road Adjacent to The Crescent	All Stop Postcard
5	A518 Weston Road East of A513 Between Beaconside & Blackheath Lane	All Stop Postcard
6	A518 Castle Bank Between Sundown Drive & M6	Interview Bay
7	A5013 Eccleshall Road Between M6 J14 & Crab Lane	All Stop Interview
8	A513 Beaconside Between Marston Lane & Parkside Avenue	All Stop Postcard
9	Doxey Road West of Greensome Lane	All Stop Interview
10	B5066 Sandon Road Between Tenby Drive & A513 Beaconside	All Stop Interview
11	Tixall Road West of St Thomas Lane	All Stop Interview

4.7 Each survey was carried out in the inbound direction for a period of 12 hours from 0700 – 1900 hours. A 12 hour manual classified count was undertaken in both directions at each site. Automatic Traffic Count (ATC) data was collected for a three week period at each site.

4.8 The following information was collected:

- ◆ Vehicle type – 7 categories;
- ◆ Vehicle occupancy;
- ◆ Details of last and next stops; and
- ◆ Journey purpose – 9 categories.

4.9 A copy of the survey form is attached as Appendix A.

4.10 Unfortunately the surveys at Sites 5, 10 and 11 were severely affected by a fatal Road Traffic Accident (RTA) on 16th October which necessitated the closure of the

A513 Beaconside between the access to the MOD site and Beaconside Technology Park. The road was closed in both directions for a period of just over two hours.

- 4.11 The RTA resulted in significant congestion on the northern and eastern sides of the town and significant volumes of traffic were diverted under Police direction. The surveys were duly repeated for the period 0730 -1130 hours at all three sites on 14 November.
- 4.12 A full Report of Survey will be provided as soon as analysis of survey data has been completed. This report will include details of the sample rates achieved at each site.

CAR PARK SURVEYS

- 4.13 It was necessary to supplement the RSI surveys to obtain data on key internal traffic movements within the town. It was decided to collect this information by interviewing motorists as they parked on key central area car parks rather than carrying out a second set of RSIs at an internal cordon surrounding the Town Centre. It was felt that the latter would have resulted in unacceptable levels of congestion.
- 4.14 Whilst travel conditions on the road network in the morning peak hour are largely determined by the journey to work, the situation in the evening peak hour is significantly affected by shopping trips in the central area particularly in the vicinity of the Tesco, Sainsbury and ASDA stores.
- 4.15 A photo of the Tesco car park is shown in the Figure 4.2 below.

Figure 4.2 – Tesco Car Park, Newport Road



- 4.16 It was decided, therefore, to survey a mixture of public and private off street car parks to ensure that shopping trips were fully covered. Both short and long stay car parks were surveyed. Some of the smaller car parks were omitted on value for money grounds. Information was also collected at the railway station car park Figure 4.3.
- 4.17 In order to ensure that the surveys were carried out within the available budget it was decided to carry the car park surveys out during the periods 0800-1100 hours and 1500-1800 hours only. This will still enable a traffic model to be built for the morning and evening peak hours of 0800-0900 hours and 1700-1800 hours as specified in the Study Brief.

Figure 4.3 – Railway Station Car Park



- 4.18 It was decided to survey the period 1000-1100 and 1500-1600 rather than 0700-0800 and 1800-1900 hours to maximise the number of interviews.
- 4.19 Interviews were carried out at 19 central area car parks and a count of traffic entering and leaving each car park was carried out throughout the survey period to allow the sample interviews to be factored up.
- 4.20 Figure 4.4 illustrates the location of the car parks. The survey schedule, including type of car park and car park capacity, is set out in Table 4.2 below. All surveys were carried out between 24th September and 2nd October.

Figure 4.4 – Surveyed Car Park Locations

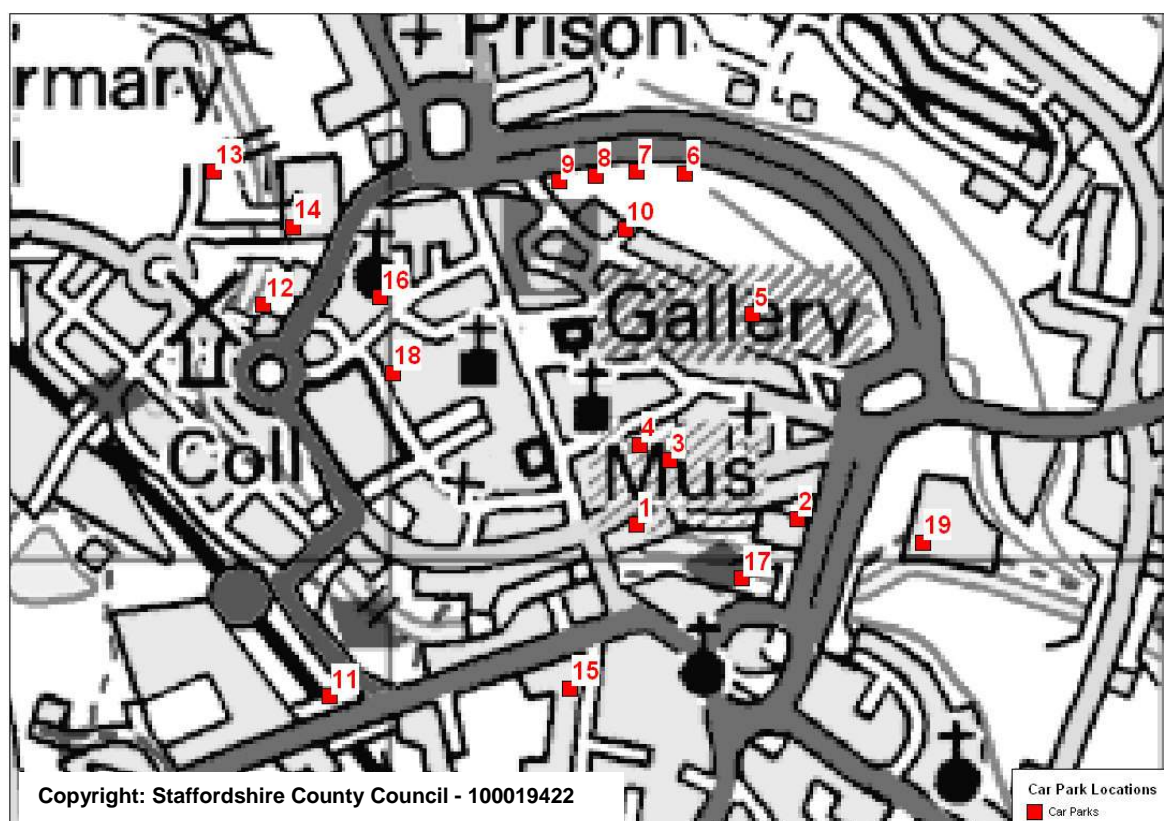


Table 4.2 – Car Park Survey Schedule

Site	Car Park Name	Ownership	Capacity	Term
1	Civic Centre	SBC	79	Short
2	Riverside	SBC	96	Short
3	South Walls	SBC	50	Short
4	Tipping Street	SBC	173	Short
5	Lammascote	SBC	76	Long
6	Kingsmead	SBC	456	Short
7	Kingsmead	SBC	106	Long
8	Kingsmead	SBC	182	Short
9	The Walls	SBC	51	Short
10	North Walls	SBC	52	Short
11	Railway Station	Virgin Trains	350	Long
12	Doxey Road (Sainsbury's)	SBC	716	Short
13	Doxey Road	SBC	130	Long
14	Doxey Road	SBC	336	Long
15	Newport Road Tesco	Tesco	n/a	Short
16	Broad Street	SBC	145	Short
17	Bridge Street	SBC	466	Short
18	Guildhall Shopping Centre	Private	270	Short
19	Queensway Asda	Asda	n/a	Short

- 4.21 There are a number of variations to the above parking arrangements for the following sites:
- ◆ Site 2 – Long stay for employees of Stafford Borough Council on weekdays
 - ◆ Site 4 – Some capacity is long stay for Staffordshire County Council employees on weekdays
 - ◆ Site 6 – Some capacity is long stay for Staffordshire County Council employees on weekdays
 - ◆ Site 17 – 174 spaces are available for long stay for season ticket holders only
- 4.22 The following information was collected:
- ◆ Vehicle Type – 6 categories
 - ◆ Number of occupants
 - ◆ Last stop/next stop
 - ◆ Trip purpose - 10 categories
 - ◆ Trip frequency
 - ◆ Arrival/departure time
- 4.23 A copy of the Car Park Interview Form is attached as Appendix B. Again the Report of Survey will contain analysis of the data collected including sample rates achieved.
- 4.24 The majority of the central area car parks are owned and managed by Stafford Borough Council and their assistance in facilitating the survey process is acknowledged.

JOURNEY TO WORK CENSUS

- 4.25 This is a key source of information and will shortly be interrogated to provide information on traffic movements between zones not picked up by either the RSI or Car Park surveys. Generic relationships will be used to relate this data to the specific modelled peak hour periods.
- 4.26 Within the urban area this will identify internal traffic movements that are not generated by the Town Centre. It will also be used to identify through traffic movements which use the buffer network but which do not enter Stafford itself. Together with peak hour traffic count information, this will then provide total traffic flows on all links in the buffer network. This is essential to the accurate determination of travel speeds and route choice in this part of the model.

TRAFFIC COUNTS

- 4.27 Traffic count information is essential for both travel demand and network capacity reasons. Firstly, it allows sample interview data to be factored up to the total passing flow. Secondly, it provides information which can be used in the matrix building process. Thirdly, it provides independent data against which the model can be validated and finally it also provides information on the level of utilisation of roads and junctions in the network.

- 4.28 A wide range of historic traffic count data was made available by Staffordshire County Council both within the town itself and also in the surrounding buffer area.
- 4.29 The type of data available was as follows:
- ◆ Automatic volumetric count data by direction for a period of 1 week (Auto);
 - ◆ Automatic continuous volumetric count data over longer periods (PVOL);
 - ◆ Automatic volume count and speed data by direction for a period of 1 week (Tube Based - ACLS) (Loop Based - LCLC);
 - ◆ Automatic volume count and speed data for a period of 3 days (SDR);
 - ◆ Manual Passing count data mainly for 12 hour period but sometimes just peak hour only (PASS);
 - ◆ Manual Turning count data at junctions, again normally for 12 hours but sometimes peak hour only (TURN); and
 - ◆ Radar speed and pedestrian data was also available (SPD,PED).
- 4.30 For the purpose of the study only counts carried out during the last four years were selected for use in the modelling process. Appropriate growth factors were used to convert the data to a common base year of 2007. The local level of trip end growth was compared to the corresponding national level of trip end growth and this factor was then applied to the predicted NRTF growth in accordance with DfT guidance.
- 4.31 However, there are two parts of the town's network where recent land use and network modifications make it essential to have up to date count information. These locations are at Newport Road, between its junction with Station Road and Bridge Street, and Lichfield Road between its junction with Riverway and St. Leonard's Avenue.
- 4.32 In view of the impact of the opening of the new Tesco store off Newport Road in December 2005, new surveys were carried out at the Newport Road/Station Road, Newport Road/Tesco and Newport Road/Bridge Street junctions during October 2007. Count information at the Lichfield Road/Riverway junction was available for the period following the opening of the new Hough Retail Park.
- 4.33 Figure 3.2 from the previous section of this report, illustrates all the traffic counts carried out in the urban area during the last four year period. A list of all the counts including type of count and date is set out in Appendix C.
- 4.34 Counts in the buffer network are also included.

5. Network Capacity Surveys

JUNCTIONS

- 5.1 The major factor affecting network capacity in urban areas are junctions. The capacity of a junction is determined by its physical layout, the conflicting traffic movements it has to accommodate, the composition of the traffic passing through the junction and the level of pedestrian activity.
- 5.2 In Stafford a significant number of junctions are traffic signals which are controlled by an Urban Traffic Control Centre based in the Development Services Department of Staffordshire County Council. The operation of the system is supported by CCTV coverage at critical locations.
- 5.3 The system in Stafford is a SCOOT based package which continually monitors traffic flow across a series of traffic loops in the road. The system then updates the signal settings in response to changes in vehicle demand. This enables the operation of the system to be optimised and delays to traffic minimised.
- 5.4 A significant amount of information is available from the system and Staffordshire County Council has provided signal settings for all junctions in the study area.
- 5.5 Figure 5.1 below illustrates a typical signalised junction in Stafford.

Figure 5.1 – Newport Road/Tesco Traffic Signal Junction



- 5.6 The following information is available:
- ◆ Cycle Time;
 - ◆ Stage Diagrams including details of early release phases;
 - ◆ Green Times;
 - ◆ Inter Green Times; and
 - ◆ Pedestrian stages.
- 5.7 Other junctions are roundabouts and traditional priority junctions. There are three types of roundabout in operation including normal, small and minis. The capacities of these roundabouts are determined by their physical characteristics and traffic and pedestrian flows.
- 5.8 Key physical characteristics affecting the capacity of the roundabouts are as follows:
- ◆ Entry width;
 - ◆ Flare Length;
 - ◆ Approach width;
 - ◆ Circulatory width;
 - ◆ Inscribed circle diameter;
 - ◆ Entry angle; and
 - ◆ Entry radii.
- 5.9 Key physical characteristics affecting the capacity of priority junctions are:
- ◆ Major road width;
 - ◆ Central reserve width;
 - ◆ Minor road width;
 - ◆ Right turn lane width; and
 - ◆ Major and minor road visibility splays.
- 5.10 Information on the above physical characteristics was collated by a mixture of site visit and the use of aerial photographs and Ordnance Survey maps.

JOURNEY TIMES

- 5.11 Surveys of journey times are important to help build up a picture of existing congestion problems on the network and also to provide data against which the journey times predicted by the model can be independently validated.
- 5.12 Journey time surveys were undertaken by Staffordshire County Council for the following routes for both the morning and evening peak hours:
- ◆ A449 – Junction 13 to Town Centre;
 - ◆ A34 – Town Centre to M6/A500 junction;
 - ◆ A34 – Town Centre to Wildwood;
 - ◆ A513 – Baswich to Walton on the Hill;

- ◆ A518 – Newport Road to Town Centre;
- ◆ A518 Town Centre to Blackheath Lane;
- ◆ A518- A34 via Baswich Lane/Blackheath Lane;
- ◆ A513 Beaconside;
- ◆ A5013 Eccleshall Road;
- ◆ B5066 Sandon Road;
- ◆ Station Road/Chell Road, Town Centre; and
- ◆ A34 Queensway, Town Centre.

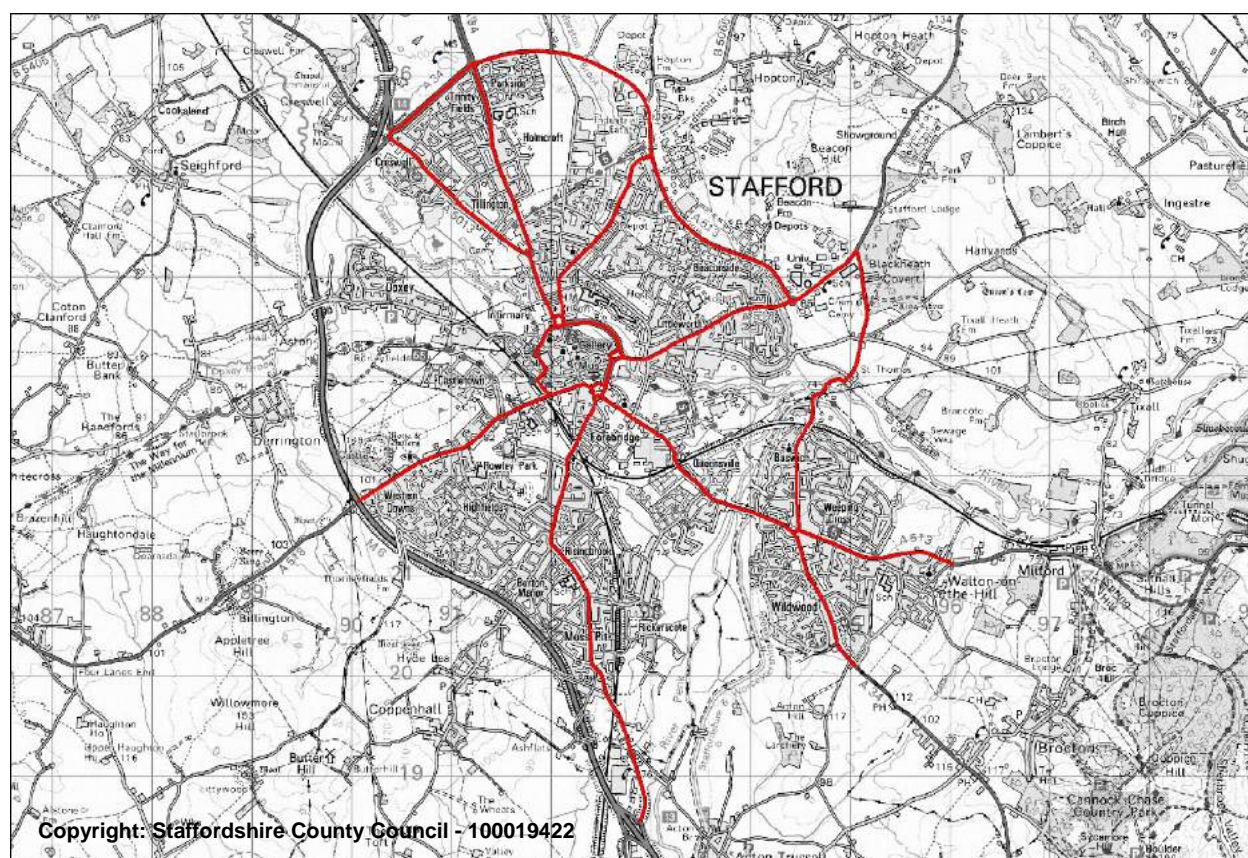
5.13 Figure 5.2 below shows a snap shot of the traffic conditions during the AM Peak Hour along A449 Wolverhampton Road.

Figure 5.2 – Morning Peak Hour Journey Time Surveys, A449 Wolverhampton Road



5.14 Figure 5.3 below illustrates the sections of the network covered by the journey time surveys.

Figure 5.3 – Journey Time Surveys



- 5.15 A total of six runs were carried out in each direction using the moving observer method with observations being made at intermediate timing points at key junctions.
- 5.16 The DfT TRADS database was also interrogated for information on journey speeds on the M6 between Junctions 13 and 15 but available data was listed as of poor quality. Staffordshire County Council is, therefore, currently carrying out new journey time surveys along this length of the M6.
- 5.17 The modelling of the route choice between the M6 and A34 corridors to the north of Stafford is an important feature of the buffer network as set out in the Inception Report and the collection of quality journey time information along the motorway is essential in this regard.
- 5.18 Information on bus journey times will be taken from published timetables and will be used as input to the Mode Choice Logit Model as set out in the Inception Report.

6. Conclusions

- 6.1 It can be seen from the above the emphasis that has been placed on collecting an extensive range of quality reliable data. This is a key element in the overall study process because without good data the model building process becomes less reliable.
- 6.2 Sufficient data has been collected to ensure accurate simulation of existing travel demand and network capacity and accordingly it is concluded that the survey stage provides a sound basis for ongoing development of the traffic model.
- 6.3 All data collected will now be thoroughly analysed and a report with the analysis of the surveyed data will be published in due course.

Appendix A – RSI survey card

 Travel Survey																																																	
<p>Atkins are conducting a programme of Roadside Traffic Surveys in the Stafford Area. The information from these surveys will be used to inform future land use planning and transport strategy decisions in the area. Please complete the questionnaire in relation to the journey you were making when you received this postcard. To maintain confidentiality, the address will be converted to postcodes and will contain no reference to any individual journey. Thank you for taking the time to assist us in this process.</p>																																																	
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5. Heavy Goods Vehicle	<input type="checkbox"/>																																																
6. Heavy Goods Vehicle	<input type="checkbox"/>																																																
7. Other (Please Specify)	<input type="checkbox"/>																																																
2. How many people were in the vehicle including yourself? Please write below	_____																																																
3. Please provide the full address (including postcode) where you started the trip you were making when you received this card. House Name/Firm _____ No. & Street _____ Town _____ County _____ Postcode _____	Reason for being there? <table border="1"> <tr><td>1. Home</td><td><input type="checkbox"/></td></tr> <tr><td>2. Holiday Home</td><td><input type="checkbox"/></td></tr> <tr><td>3. Work</td><td><input type="checkbox"/></td></tr> <tr><td>4. Employers Business</td><td><input type="checkbox"/></td></tr> <tr><td>5. Education</td><td><input type="checkbox"/></td></tr> <tr><td>6. Shopping</td><td><input type="checkbox"/></td></tr> <tr><td>7. Personal Business</td><td><input type="checkbox"/></td></tr> <tr><td>8. Visit Friends</td><td><input type="checkbox"/></td></tr> <tr><td>9. Recreational/Leisure</td><td><input type="checkbox"/></td></tr> </table>	1. Home	<input type="checkbox"/>	2. Holiday Home	<input type="checkbox"/>	3. Work	<input type="checkbox"/>	4. Employers Business	<input type="checkbox"/>	5. Education	<input type="checkbox"/>	6. Shopping	<input type="checkbox"/>	7. Personal Business	<input type="checkbox"/>	8. Visit Friends	<input type="checkbox"/>	9. Recreational/Leisure	<input type="checkbox"/>																														
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8. Visit Friends	<input type="checkbox"/>																																																
9. Recreational/Leisure	<input type="checkbox"/>																																																
4. Please provide the full address (including postcode) where you finished the trip you were making when you received this card. House Name/Firm _____ No. & Street _____ Town _____ County _____ Postcode _____	Reason for being there? <table border="1"> <tr><td>1. Home</td><td><input type="checkbox"/></td></tr> <tr><td>2. Holiday Home</td><td><input type="checkbox"/></td></tr> <tr><td>3. Work</td><td><input type="checkbox"/></td></tr> <tr><td>4. Employers Business</td><td><input type="checkbox"/></td></tr> <tr><td>5. Education</td><td><input type="checkbox"/></td></tr> <tr><td>6. Shopping</td><td><input type="checkbox"/></td></tr> <tr><td>7. Personal Business</td><td><input type="checkbox"/></td></tr> <tr><td>8. Visit Friends</td><td><input type="checkbox"/></td></tr> <tr><td>9. Recreational/Leisure</td><td><input type="checkbox"/></td></tr> </table>	1. Home	<input type="checkbox"/>	2. Holiday Home	<input type="checkbox"/>	3. Work	<input type="checkbox"/>	4. Employers Business	<input type="checkbox"/>	5. Education	<input type="checkbox"/>	6. Shopping	<input type="checkbox"/>	7. Personal Business	<input type="checkbox"/>	8. Visit Friends	<input type="checkbox"/>	9. Recreational/Leisure	<input type="checkbox"/>																														
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7. Personal Business	<input type="checkbox"/>																																																
8. Visit Friends	<input type="checkbox"/>																																																
9. Recreational/Leisure	<input type="checkbox"/>																																																

Appendix B – Car Parks survey card

COUNT ON US - STAFFORD INTERVIEW FORM

INTERVIEWER: _____ CODED BY: _____ DATE: _____ STATION NUMBER: _____ TIME PERIOD START: _____

SERIAL NUMBER: 1 _____

CHECKED BY: _____

Q1 - VEHICLE TYPE		ARRIVING VEHICLES ONLY				DEPARTING VEHICLES ONLY			
1 Car/Taxi	8	Q3 - HAVE YOU JUST PARKED OR ARE YOU LEAVING?	Q4 - WHAT TIME DID YOU PARK YOUR VEHICLE?	Q5 - HOW OFTEN DO YOU MAKE THIS JOURNEY?	Q6 - WHAT TIME ARE YOU INTENDING TO LEAVE?	Q7 - WOULD YOU PLEASE TELL ME THE EXACT ADDRESS YOU HAVE JUST COME FROM? (BEFORE PARKING HERE)	Q8 - ORIGIN PURPOSE	Q9 - WOULD YOU PLEASE TELL ME THE EXACT ADDRESS YOU ARE GOING TO WHEN YOU LEAVE THE CAR PARK?	Q10 - DESTINATION PURPOSE
2 Light Goods	9	1 Just Parked	24 HOUR CLOCK	1 Most Days	24 HOUR CLOCK	Firm or House Name, Number & Street, Town, County, Postcode	1 Home, 2 Holiday Home, 3 Work, 4 Emp Bus, 5 Education, 6 Shopping, 7 Personal Trip, 8 Visit Friends, 9 Recreation, 10 Other (specify)	Firm or House Name, Number & Street, Town, County, Postcode	1 Home, 2 Holiday Home, 3 Work, 4 Emp Bus, 5 Education, 6 Shopping, 7 Personal Trip, 8 Visit Friends, 9 Recreation, 10 Other (specify)
3 OGV 1	10	2 Leaving		2 Once / Twice per week					
4 OGV 2	11			3 Less than once a week					
5 Motorcycle	12			4 Infrequently					
6 Pedal Cycle	13								
7 14>	14								

Q1 - VEHICLE TYPE		ARRIVING VEHICLES ONLY				DEPARTING VEHICLES ONLY			
1 Car/Taxi	8	Q3 - HAVE YOU JUST PARKED OR ARE YOU LEAVING?	Q4 - WHAT TIME DID YOU PARK YOUR VEHICLE?	Q5 - HOW OFTEN DO YOU MAKE THIS JOURNEY?	Q6 - WHAT TIME ARE YOU INTENDING TO LEAVE?	Q7 - WOULD YOU PLEASE TELL ME THE EXACT ADDRESS YOU HAVE JUST COME FROM? (BEFORE PARKING HERE)	Q8 - ORIGIN PURPOSE	Q9 - WOULD YOU PLEASE TELL ME THE EXACT ADDRESS YOU ARE GOING TO WHEN YOU LEAVE THE CAR PARK?	Q10 - DESTINATION PURPOSE
2 Light Goods	9	1 Just Parked	24 HOUR CLOCK	1 Most Days	24 HOUR CLOCK	Firm or House Name, Number & Street, Town, County, Postcode	1 Home, 2 Holiday Home, 3 Work, 4 Emp Bus, 5 Education, 6 Shopping, 7 Personal Trip, 8 Visit Friends, 9 Recreation, 10 Other (specify)	Firm or House Name, Number & Street, Town, County, Postcode	1 Home, 2 Holiday Home, 3 Work, 4 Emp Bus, 5 Education, 6 Shopping, 7 Personal Trip, 8 Visit Friends, 9 Recreation, 10 Other (specify)
3 OGV 1	10	2 Leaving		2 Once / Twice per week					
4 OGV 2	11			3 Less than once a week					
5 Motorcycle	12			4 Infrequently					
6 Pedal Cycle	13								
7 14>	14								

Appendix C – Traffic Counts used in Stafford Project

LCLS Sites

Road_No_	Road_Name	Location	Easting	Northing	Date	Site_Ref	File_No_
A34	STONE ROAD	TITTENSOR	387456	338080	20070709	11031	*CAM001
A34	STONE ROAD	TITTENSOR	387380	338445	20070709	11032	*CAM001
A34	STONE ROAD	TITTENSOR	387430	338247	20070709	11070	*CAM005
A34	STONE ROAD	TITTENSOR	387645	337317	20070709	11071	*CAM005
A34	STONE ROAD	DARLASTON	387960	336931	20070709	11072	*CAM005
A34	STONE ROAD	MEAFORD	388063	336859	20070709	11073	*CAM005
A34	STONE ROAD	DARLASTON	388376	336350	20070709	11074	*CAM005
A34	THE FILLEYBROOKS	STONE	389250	334305	20070709	11075	*CAM005
A34	STONE ROAD	WHITGREAVE	390869	328107	20070709	11077	*CAM005
A34	YARLET BANK	YARLET	391082	328672	20070709	11079	*CAM005
A34	CANNOCK ROAD	STAFFORD	394836	320443	20070709	11080	*CAM006
A34	CANNOCK ROAD	BROCTON	396080	319161	20070709	11081	*CAM006
A34	CANNOCK ROAD	BROCTON	396286	318982	20070709	11082	*CAM006
A34	STONE ROAD	STAFFORD	391632	324757	20070709	11171	*CAM015
A34	THE FILLEYBROOKS	STONE	389642	333689	20070709	11319	*CAM022
A34	THE FILLEYBROOKS	STONE	389634	333674	20070709	11320	*CAM023
A34	YARLET BANK	YARLET	391246	329696	20070709	20883	*CAM023
A34	YARLET BANK	YARLET	391258	329694	20070709	11324	*CAM023
A449	MOSS PIT	STAFFORD	392401	320145	20070709	11033	*CAM001
A449	ROWLEY BANK	STAFFORD	392077	321731	20070709	11039	*CAM001
A449	RISING BROOK	STAFFORD	392193	321107	20070709	11101	*CAM008
A449	MOSS PIT	STAFFORD	392385	320315	20070709	11102	*CAM008
A449	WOLVERHAMPTON ROAD	DUNSTON	392756	318068	20070709	11103	*CAM008
A449	WOLVERHAMPTON ROAD	DUNSTON	392821	317715	20070709	11104	*CAM008
A449	RISING BROOK	STAFFORD	392372	320642	20070709	11177	*CAM015
A51	LICHFIELD DOAD	SANDON	394515	329925	20070709	10920	*SIT027
A51	LICHFIELD ROAD	SANDON	394777	329572	20070709	11154	*CAM013
A51	LONDON ROAD	WESTON	397565	327474	20070709	11155	*CAM013
A51	LONDON ROAD	WESTON	397949	326754	20070709	11156	*CAM013
A51	LONDON ROAD	PASTEURFIELDS	399145	325160	20070709	11157	*CAM013
A51	LONDON ROAD	PASTEURFIELDS	399470	324838	20070709	11158	*CAM013
A51	0	COLWICH	401371	321140	20070709	11159	*CAM014
A51	LONDON ROAD	WESTON	398313	326069	20070709	11184	*CAM016
A51	0	SANDON	394916	329173	20070709	11205	*CAM018
A513	WEeping CROSS	STAFFORD	395187	321177	20070709	11043	*CAM002
A518	WESTON ROAD	STAFFORD	394847	324060	20070709	11041	*CAM002
A518	CASTLE BANK	STAFFORD	390493	322032	20070709	11042	*CAM002
A518	NEWPORT ROAD	STAFFORD	390797	322184	20070709	11188	*CAM016
A518	WESTON ROAD	STAFFORD	394090	323690	20070709	11189	*CAM016

TURN Sites

Road_No_	Road_Name	Location	Easting	Northing	Date	Site_Ref	File_No_
A34	REDHILL ROUNDABOUT	STAFFORD	391199	326098	20040304	12206	*24C011
A518	NEWPORT ROAD	STAFFORD	391489	322628	20040330	12237	*24C055
D35	ROWLEY AVENUE	STAFFORD	391677	322698	20040330	12236	*24C072
A51	STONE ROAD	CLIFFORDS WOOD	384245	336797	20040429	12259	*24D048
A513	MAIN ROAD	MILFORD	397527	321076	20040525	12289	*24E069
A513	MAIN ROAD	MILFORD	398769	321298	20040525	12293	*24E070
D58	BRIDGE STREET	STAFFORD	392261	323067	20040913	12458	*24J018
A34	QUEENSWAY (ASDA)	STAFFORD	392577	323043	20041022	12549	*24K103
A34	LICHFIELD ROAD	STAFFORD	392805	322594	20041022	12550	*24K104
C76	RIVERWAY	STAFFORD	392988	323111	20041022	12551	*24K113
A449	RISING BROOK	STAFFORD	392357	320823	20041102	12536	*24K127
D53	FARADAY ROAD	STAFFORD	392527	323984	20041104	12569	*24L004
D8	CORPORATION STREET	STAFFORD	392546	323966	20041104	12571	*24L006
A513	BEACONSIDE	STAFFORD	392063	326216	20050412	12777	*25D056
B5066	SANDON ROAD	STAFFORD	392507	324435	20050412	12779	*25D057
D6	COMMON ROAD	STAFFORD	392128	324717	20050412	12780	*25D058
D6	COMMON ROAD	STAFFORD	392175	325103	20050412	12781	*25D066
D6	COMMON ROAD	STAFFORD	392203	325346	20050412	12782	*25D067
A513	BEACONSIDE	STAFFORD	393007	325194	20050526	12880	*25E069
A513	BEACONSIDE	STAFFORD	392936	325703	20050526	12882	*25E067
A513	BEACONSIDE	STAFFORD	392742	325943	20050526	12881	*25E068
A513	BEACONSIDE	STAFFORD	392319	326150	20050526	12883	*25E070
A519	NEWPORT ROAD	ECCLESHALL	383062	328578	20050711	12922	*25G022
A520	CHRISTCHURCH WAY	STONE	390308	333801	20050929	13043	*25J090
B5405	STAFFORD ROAD	GT BRIDGEFORD	386410	326011	20051107	13121	*25L012

A520	LONGTON ROAD	STONE	390152	334255	20060222	13226	*26B071
D408	KINGS AVENUE	STONE	390128	334225	20060222	13230	*26B087
B5026	STONE ROAD	ECCLESHALL	384637	329516	20060607	13361	*26F029
B5066	HILDERSTONE ROAD	HILDERSTONE	394906	334721	20060720	11530	*26G087
A51	LONDON ROAD	SALT	395955	328235	20060808	13699	*26H059
A518	NEWPORT ROAD	STAFFORD	392258	322907	20060922	13731	*26J087
A518	LICHFIELD ROAD	STAFFORD	392315	322933	20060922	13732	*26J088
D37	PARK STREET	STAFFORD	392371	322602	20060922	13727	*26J084
D37	TELEGRAPH STREET	STAFFORD	392286	322400	20060922	13728	*26J085
D37	AUSTIN FRIARS	STAFFORD	392318	322477	20060922	13729	*26J086
A518	WESTON ROAD	STAFFORD	392953	323185	20070516	21461	*27E047
C376	RIVERWAY	STAFFORD	392988	323111	20070516	12551	*27E046
A34	LICHFIELD ROAD	STAFFORD	393156	322359	20070521	21467	*27E068
A34	LICHFIELD ROAD	STAFFORD	392805	322594	20070521	12550	*27E085
A34	LICHFIELD ROAD	STAFFORD	393066	322434	20070521	21469	*27E086
D3019	FAIRWAY	STAFFORD	393437	322573	20070521	21470	*27E087

ACLS Sites

Road_No_	Road_Name	Location	Easting	Northing	Date	Site_Ref	File_No_
B5066	HILDERSTONE ROAD	HILDERSTONE	394877	334799	20040308	12210	*24C015
B5066	HILDERSTONE ROAD	HILDERSTONE	394800	334051	20040308	12211	*24C016
C13	CRESSWELL ROAD	HILDERSTONE	395149	334902	20040308	12209	*24C014
D304	ACTON HILL ROAD	ACTON TRUSSELL	393910	318630	20040308	3770	*24C019
D590	WALTON LANE	BROCTON	396810	319707	20040907	12493	*24J032
A34	STONE ROAD	STAFFORD	391773	324367	20040909	12492	*24J042
D37	FRIARS TERRACE	STAFFORD	392239	322735	20040922	12502	*24K001
D31	SCHOOL LANE	STAFFORD	392750	320312	20041101	12593	*24L007
B5066	SANDON ROAD	HILDERSTONE	394862	334641	20041110	12601	*24L036
C27	HOLDIFORD ROAD	TIXALL	397645	322545	20041117	12628	*24L054
C27	TIXALL ROAD	TIXALL	397882	322851	20041117	12629	*24L053
C28	TIXALL ROAD	TIXALL	397550	322632	20041117	12627	*24L052
A519	UNKNOWN	SLINDON	382764	332151	20041209	12662	*24M030
A519	UNKNOWN	SLINDON	382534	332598	20041209	12663	*24M031
C93	HYDE LEA	STAFFORD	391176	320018	20050110	12675	*25A021
B5066	SANDON BANK	STAFFORD	394449	328201	20050111	12682	*25A035
C278	COMMON LANE	BEDNALL	395509	317845	20050510	12863	*25E047
C230	DERRINGTON LANE	DERRINGTON	389179	322199	20050614	12913	*25F046
D41	PARKSIDE AVENUE	STAFFORD	391676	325837	20051004	13061	*25K027
B5405	STAFFORD ROAD	GT BRIDGEFORD	386589	326096	20051103	13136	*25L026
D321	ST THOMAS LANE	STAFFORD	394679	323139	20051109	13141	*25L047
C320	CAMP ROAD	BROCTON	397463	317686	20051122	13155	*25M001
B5027	DAYHILLS	MILWICH	395442	333022	20051123	13156	*25L067
D34	BARNES ROAD	STAFFORD	391644	321257	20060207	13202	*26B019
D34	BARNES ROAD	STAFFORD	391286	321220	20060207	13204	*26B020
C375	SILKMORE LANE	STAFFORD	393012	321281	20060317	13247	*26C063
A51	LICHFIELD ROAD	SANDON	394309	330024	20060512	13343	*26E037
A519	NEWCASTLE ROAD	HANCHURCH	385063	341911	20060518	13353	*26E071
C278	COMMON LANE	BEDNALL	396210	317582	20060601	13362	*26F016
C330	JOYCES LANE	BEDNALL	396359	317798	20060601	13363	*26F015
A51	UNKNOWN	FARLEY	399891	324344	20060606	13385	*26F012
B5066	SANDON ROAD	STAFFORD	392780	324953	20061027	20984	*26L027
C45	TITTENSOR ROAD	TITTENSOR	387775	337931	20070119	21284	*27A079
D3041	PARKSIDE AVENUE	STAFFORD	391434	325860	20071212	21251	*26M061

PASS Sites

Road_No_	Road_Name	Location	Easting	Northing	Date	Site_Ref	File_No_
UNC	WILDWOOD DRIVE	STAFFORD	394697	320603	20040316	11574	*24C008
D33	WEST WAY	STAFFORD	391947	321429	20040317	8868	*24C022
A518	TENTERBANKS	STAFFORD	391886	323160	20040322	9451	*24C039
B5026	CHESTER ROAD	PERSHALL	381845	329771	20040427	395	*24D054
M6	UN-NAMED	BEECH	385576	338210	20040430	8927	*24D056
M6	UN-NAMED	STAFFORD	390507	321243	20040504	2579	*24E004
A518	UTTOXETER ROAD	AMERTON	400000	327803	20040507	8929	*24E009
A513	UN-NAMED	SHUGBOROUGH	400144	320803	20040511	9396	*24E019
A34	STONE ROAD	STAFFORD	391524	325000	20040518	9903	*24E039
A34	STONE ROAD	YARLET BANK	391112	328810	20040521	12287	*24E059

A51	UN-NAMED	NR. GREAT HAYWO	399963	324300	20040528	5189	*24E065
B5066	SANDON ROAD	STAFFORD	392719	324833	20040607	8970	*24F019
A518	UN-NAMED	NR. HOPTON	395970	326000	20040614	11427	*24F062
A520	CHRISTCHURCH WAY	STONE	390250	333940	20040616	8873	*24F067
A51	LICHFIELD ROAD	SANDON	394400	329972	20040621	3859	*24F083
A518	NEWPORT ROAD	NR. STAFFORD	390000	321700	20040706	2406	*24G028
D316	THE CASEY	NR. SALT	395935	328211	20040803	4197	*24H016
D385	SCHOOL LANE	DUNSTON	391940	317485	20040901	9114	*24J104
A500	QUEENSWAY	HANFORD	386992	342977	20040913	8925	*24J091
A513	BEACONSIDE	STAFFORD	393071	325000	20040916	9145	*24J107
A518	WESTON ROAD	STAFFORD	393136	323291	20040917	3554	*24J121
A34	LICHFIELD ROAD	STAFFORD	393000	322470	20040930	9217	*24J086
A449	WOLVERHAMPTON ROAD	STAFFORD	392498	320017	20041021	10861	*24K105
C13	CRESSWELL LANE	HILDERSTONE	395845	336052	20041210	12659	*24M016
UNC	WILDWOOD DRIVE	STAFFORD	394697	320603	20050315	11574	*25C066
D33	WEST WAY	STAFFORD	391947	321429	20050316	8868	*25C067
M6	UN-NAMED	BEECH	385576	338210	20050317	8927	*25C060
A518	WESTON ROAD	STAFFORD	393136	323291	20050418	3554	*25D078
B5026	CHESTER ROAD	PERSHALL	381845	329771	20050426	395	*25D115
A34	UN-NAMED	STRONGFORD	387082	339993	20050427	11829	*25D116
A513	BEACONSIDE	STAFFORD	393071	325000	20050506	9145	*25E022
A51	UN-NAMED	NR. GREAT HAYWO	399963	324300	20050523	5189	*25E104
B5066	SANDON ROAD	STAFFORD	392719	324833	20050606	8970	*25E103
A34	THE FILLYBROOKS	STONE	389300	334000	20050620	2270	*25F079
A520	LONGTON ROAD	NR. OULTON HEAT	391642	337179	20050624	11927	*25F082
A34	UN-NAMED	BEDNALL HEAD	396580	318000	20050627	11426	*25F085
A449	WOLVERHAMPTON RD	STAFFORD	392498	320017	20050630	10861	*25F097
M6	UN-NAMED	STAFFORD	390507	321243	20050707	2579	*25G093
A519	NEWCASTLE ROAD	KINGSWOOD BANK	385295	340000	20050708	1028	*25G109
D316	THE CASEY	NR. SALT	395935	328211	20050802	4197	*25H012
D385	SCHOOL LANE	DUNSTON	391940	317485	20050831	9114	*25H060
A5013	CRESWELL GROVE	CRESWELL	390000	325710	20050920	13036	*25J057
A518	UTTOXETER ROAD	AMERTON	400000	327803	20051005	8929	*25K010
A519	NEWCASTLE ROAD	NR. ECCLESHALL	382993	330000	20051014	9366	*25K059
A34	QUEENSWAY	STAFFORD	392482	323538	20051021	9002	*25K067
A518	UTTOXETER ROAD	AMERTON	400000	327803	20060321	8929	*26C104
UNC	WILDWOOD DRIVE	STAFFORD	394697	320603	20060321	11574	*26C085
D33	WEST WAY	STAFFORD	391947	321429	20060322	8868	*26C121
B5026	CHESTER ROAD	PERSHALL	381845	329771	20060502	395	*26E038
A51	LICHFIELD ROAD	SANDON	394400	329972	20060508	3859	*26E042
A500	UN-NAMED	HANCHURCH	385500	342145	20060517	11679	*26E083
A519	NEWCASTLE ROAD	HANCHURCH	385063	341911	20060517	8954	*26E101
M6	UN-NAMED	BEECH	385576	338210	20060517	8927	*26E070
A5013	STAFFORD ROAD	NR. ECCLESHALL	384100	328421	20060525	10904	*26E117
A51	UN-NAMED	NR. GREAT HAYWO	399963	324300	20060605	5189	*26F052
B5066	SANDON ROAD	STAFFORD	392719	324833	20060612	8970	*26F048
A34	LICHFIELD ROAD	STAFFORD	393360	322035	20060621	13640	*26F141
A500	QUEENSWAY	HANFORD	386992	342977	20060629	8925	*26F151
M6	UN-NAMED	STAFFORD	392220	319740	20060630	13667	*26F153
A34	STONE ROAD	YARLET BANK	391112	328810	20060713	12287	*26G070
D316	THE CASEY	NR. SALT	395935	328211	20060808	4197	*26H058
D385	SCHOOL LANE	DUNSTON	391940	317485	20060906	9114	*26J108
A518	UN-NAMED	NR. HOPTON	395970	326000	20060911	11427	*26J110
A34	STONE ROAD	HANFORD	386544	341992	20060915	1359	*26J113
A513	UN-NAMED	SHUGBOROUGH	400144	320803	20061010	9396	*26K147
A51	STONE ROAD	NR. SWYNNERTON	384985	336623	20061012	933	*26K133
A513	BEACONSIDE	STAFFORD	393071	325000	20061020	9145	*26K157
D3010	CASTLE STREET	STAFFORD	391711	323312	20061205	6	*26M049
D3011	GREYFRIARS WAY	STAFFORD	391818	324094	20061205	21005	*26M047
D3045	DRUMMOND ROAD	STAFFORD	392242	324678	20061205	21513	*26M048
D3062	TILCON AVENUE	STAFFORD	394607	322663	20061205	21004	*26M046
D3011	GREYFRIARS PLACE	STAFFORD	391930	323785	20061206	21003	*26M045
A34	STONE ROAD	STAFFORD	390827	325776	20070316	2651	*27C128
UNC	WILDWOOD DRIVE	STAFFORD	394697	320603	20070320	11574	*27C131
D33	WEST WAY	STAFFORD	391947	321429	20070321	8868	*27C132
A520	LONGTON ROAD	NR. OULTON HEAT	391642	337179	20070328	11927	*27C142
C28	TIXALL ROAD	STAFFORD	393216	323296	20070328	21365	*27D008
A513	BEACONSIDE	STAFFORD	393071	325000	20070330	9145	*27C147
A34	UN-NAMED	BEDNALL HEAD	396580	318000	20070419	11426	*27D056
A518	UTTOXETER ROAD	AMERTON	400000	327803	20070430	8929	*27D085

B5026	CHESTER ROAD	PERSHALL	381845	329771	20070501	395	*27E014
A520	STAFFORD ROAD	STONE	390216	333500	20070517	9146	*27E055
A34	STAFFORD ROAD	STONE	390444	332696	20070522	8981	*27E101
A518	WESTON ROAD	STAFFORD	393136	323291	20070524	3554	*27E104
B5066	SANDON ROAD	STAFFORD	392719	324833	20070611	8970	*27F125
A519	NEWCASTLE ROAD	ECCLESHALL	382993	330000	20070614	9366	*27F131
A449	WOLVERHAMPTON ROAD	STAFFORD	392498	320017	20070621	10861	*27F136
A34	UNNAMED	STRONGFORD	387082	339993	20070703	11829	*27G009
M6	UNNAMED	BEECH	385576	338210	20070713	8927	*27G027
D3033	WEST WAY	STAFFORD	391068	322244	20070719	21530	*27G035

SDR Sites

esRoad_No	Road Name	Location	Easting	Northing	Date	Site_Ref	File_No
B5405	STAFFORD ROAD	BROAD HEATH	384874	325009	20060109	13185	*26A028
C278	BEDNALL ROAD	ACTON TRUSSELL	394068	318383	20060113	13189	*26A035
A5005	LIGHTWOOD ROAD	ROUGH CLOSE	392418	339826	20060424	13552	*26E002
A518	NEWPORT ROAD	HAUGHTON	386045	320859	20060428	13580	*26E011
A449	RISING BROOK	STAFFORD	392193	321105	20060508	13586	*26E052
A518	BILLINGTON BANK	HAUGHTON	388859	320888	20060508	13579	*26E055
C26	TEDDESLEY ROAD	BROCTON	395964	318928	20060508	13587	*26E064
D61	CAPE AVENUE	STAFFORD	390225	321797	20060515	13588	*26E084
A513	BEACONSIDE	STAFFORD	392262	326168	20060522	13612	*26E156
C52	LONG LANE	DERRINGTON	388220	322755	20060522	13611	*26E122
D44	ALSTONFIELDS ROAD	STAFFORD	392307	324639	20060526	13608	*26F007
A513	MAIN ROAD	MILFORD	397424	321121	20060626	13403	*26F130
C279	MILL LANE	ACTON TRUSSELL	393493	318442	20060707	13677	*26G034
A519	NEWCASTLE ROAD	HANCHURCH	385180	340927	20060905	21134	*26J051
A51	FARLEY CORNER	GREAT HAYWOOD	400055	323738	20061006	21031	*26K057
B5066	HILDERSTONE ROAD	SANDON	394626	330039	20061009	21023	*26K084
B5027	THE LEVEL	MILWICH	397845	332092	20061010	21024	*26K085
B5027	STONE ROAD	MILWICH	397286	332317	20061011	21025	*26K086
C79	FULFORD ROAD	FULFORD	394276	337282	20061016	21212	*26L001
C1	WINGHOUSE LANE	TITTENSOR	386217	336359	20061019	21185	*26L006
A518	UTTOXETER ROAD	STOWE	400495	328106	20061020	21221	*26K105
A51	STONE ROAD	SWYNNERTON	385770	336391	20061101	21181	*26L063
A519	NEWCASTLE ROAD	SWYNNERTON	384365	336957	20061108	21180	*26L074
A51	BARRY BANK	TITTENSOR	387082	335948	20061109	21183	*26L072
A51	STONE ROAD	TITTENSOR	386037	336360	20061109	21182	*26L073
A519	NEWCASTLE ROAD	MILL MEECE	383364	333872	20061114	21168	*26L081
A519	NEWCASTLE ROAD	COTES HEATH	383401	334552	20061114	21175	*26L082
B5026	ECCLESHALL ROAD	WALTON	389544	332831	20061116	21322	*26L084
C26	TEDDESLEY ROAD	ACTON TRUSSELL	393874	317198	20061203	13471	*25M023
A5013	ECCLESHALL ROAD	STAFFORD	390684	325129	20061208	21256	*26M059
A5013	ECCLESHALL ROAD	STAFFORD	390992	324823	20061208	21257	*26M058
A5103	ECCLESHALL ROAD	STAFFORD	391360	324500	20061212	21258	*26M060
D3040	CRAB LANE	STAFFORD	390905	325654	20061212	21252	*26M057
D3040	HOLMCROFT ROAD	STAFFORD	391333	325028	20061212	21253	*26M053
D3040	SECOND AVENUE	STAFFORD	391146	325128	20061212	21254	*26M055
D3040	FIRST AVENUE	STAFFORD	391164	325468	20061212	21255	*26M054
D3041	PARKSIDE AVENUE	STAFFORD	391821	326001	20061212	21259	*26M056
B5026	ECCLESHALL ROAD	NORTON BRIDGE	386830	330596	20061213	21321	*27A004
D3014	OXFORD GARDENS	STAFFORD	392816	324782	20070102	21260	*27A013
A5013	CRESWELL GROVE	CRESWELL	389764	326124	20070118	21288	*27B001
B5066	GAOL ROAD	STAFFORD	392103	323751	20070118	21287	*27B002
A518	WESTON BANK	WESTON	396760	327060	20070126	21311	*27B005
A51	LICHFIELD ROAD	SANDON	394793	329489	20070129	21315	*27B044
C172	SANDON LANE	MILLWICH	396000	330867	20070129	21316	*27B043
A51	LONDON ROAD	WESTON	397948	326771	20070202	21317	*27A081
C252	BLACKHEATH LANE	STAFFORD	395158	323558	20070206	21308	*27B062
C28	TIXALL ROAD	STAFFORD	394682	323286	20070206	21309	*27B063
A34	CANNOCK ROAD	BROCTON	396411	318850	20070227	21440	*27C062
A520	LONGTON ROAD	STONE	391369	335233	20070607	21548	*27F039
A520	LONGTON ROAD	STONE	391635	335510	20070607	21549	*27F040

PVOL Sites

Road_No_	Road_Name	Location	Easting	Northing	Date	Site_Ref	File_No_
A34	0	BROCTON	396077	319163	20070709	9213	*SIT017
A34	RADFORD BANK	STAFFORD	393995	321645	20070709	3778	*SIT006
A34	QUEENSWAY (N OF ASDA)	STAFFORD	392598	323101	20070709	9322	*SIT016
A34	LICHFIELD ROAD	STAFFORD	392673	322698	20070709	9324	*SIT017
A34	QUEENSWAY (GAOL SQ)	STAFFORD	392420	323555	20070709	3280	*SIT017
A34	STONE ROAD	STAFFORD	391262	325958	20070709	9334	*SIT018
A449	STAFFORD ROAD	DUNSTON-11103	392865	317254	20070709	3463	*SIT001
A449	MOSS PIT	STAFFORD	392700	319530	20070709	3383	*SIT008
A5013	STAFFORD ROAD	ECCLESHALL	383695	328695	20070709	10031	*SIT026
A5013	ECCLESHALL ROAD	STAFFORD	390453	325325	20070709	9335	*SIT018
A51	0	HIXON	400055	323730	20070709	10032	*SIT025
A513	MAIN ROAD	MILFORD	396209	321139	20070709	9330	*SIT018
A518	NEWPORT ROAD	STAFFORD	389608	321405	20070709	9332	*SIT018
A518	WESTON ROAD	STAFFORD	394263	323696	20070709	9336	*SIT018
A519	CASTLE STREET	ECCLESHALL	383120	329340	20070709	10036	*SIT026
A519	NEWPORT ROAD	ECCLESHALL	382800	327465	20070709	10037	*SIT026
A520	STONE ROAD	OULTON	391632	337920	20070709	9564	*SIT014
A520	STAFFORD ROAD	STONE	390208	333448	20070709	9348	*SIT021
B5026	STONE ROAD	ECCLESHALL	384480	329395	20070709	10048	*SIT026
B5026	CHESTER ROAD	ECCLESHALL	382000	329670	20070709	10063	*SIT026
B5066	SANDON ROAD	STAFFORD	392930	325170	20070709	8993	*SIT017
B5405	WOODSEAVES ROAD	BROAD HEATH	386325	325955	20070709	10050	*SIT026
C13	CRESSWELL ROAD	HILDERSTONE	396060	336490	20070709	10055	*SIT024
C252	BLACKHEATH LANE	STAFFORD	395046	323098	20070709	9328	*SIT018
C252	TIXALL ROAD	STAFFORD	394943	323371	20070709	9329	*SIT018
C52	ASTON BANK	STAFFORD	389731	323745	20070709	9333	*SIT018
C93	HYDE LEA BANK	STAFFORD	391455	320505	20070709	9331	*SIT018
D6	COMMON ROAD	STAFFORD	392242	325792	20070709	9326	*SIT017

AUTO Sites

Road_No_	Road_Name	Location	Easting	Northing	Date	Site_Ref	File_No_
D34	BARNES ROAD	STAFFORD	391236	321279	20040617	12372	*24F09
B5066	NORTH WALLS	STAFFORD	392475	323293	20040903	12477	*24J01
B5066	NORTH WALLS	STAFFORD	392568	323224	20040903	12478	*24J01
C230	BILLINGTON LANE	DERRINGTON	389024	322617	20050511	12872	*25E05

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WS Atkins Plc
Woodcote Grove
Ashley Road
Epsom
Surrey KT18 5BW

Telephone number: +44 (0) 1372 726140

Fax number: +44 (0) 1372 740055

Email: water@atkinsglobal.com

Web address: www.atkinsglobal.com

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