

Worcestershire County Council
Network Control

**The Worcestershire
Streetworks Permit
Scheme**

**Year 1
Evaluation Report
2019 to 2020**

December 2021

Document Information	
Date:	December 2021
Project Name:	Permit Scheme Evaluation Report Yr1
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Directorate:	Highway
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Version:	Version 1 Client Review

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EXECUTIVE SUMMARY

The Worcestershire Permit Scheme was introduced on 1st June 2019 and this 1st year report covers the year from the 1st June 2019 to the 31st May 2020.

The purpose of this report is to evaluate the impact of the Permit Scheme, its operational performance and give consideration to the fee structure, the costs and benefits of operating the scheme and whether the Permit Scheme is meeting key performance indicators where these are set out in the Guidance.

The Permit Scheme is not intended to prevent activities necessary for the maintenance or improvement of the road network or the services running underneath.

It is designed to make available the necessary resources to achieve an appropriate balance between the interests of the various parties and where possible, bring about effective co-ordination between all the different competing interests.

There are a wide range of indicators and measures that the industry has been discussing and agreeing that should be reported on. Some of these are possible to report on and some require further work or system changes to prepare.

This evaluation identifies all the indicators and measures agreed by the industry, through various representative groups. Although some data is not available currently, the requirement and format has been documented in this evaluation so that it can be identified easily identified and worked in following years.

When the Worcestershire Permit Scheme was being developed a Benefit to Cost Ratio was prepared using predicted costs and anticipated volumes of applications.

Now there are actual costs and volumes assumptions have been rerun using the same network data and the yearly actuals and the results are shown in Table 64 below. This indicates that the Permit Scheme has been more beneficial to society than originally anticipated.

The main reason for this benefit increase is a higher volume in the total Permit applications managed within lower operational costs, along with more accurate recording of volumes and works types.

Table 64 Highway Authority Cost Benefit results		
Highway Authority Assessment	Opening Year	1st Year
5% reduction in works impact	Predicted (NPV Costs)	Actuals
Net Present Value of Benefits	£31,296,835	£46,980,361
Net Present Value of Costs	£1,022,122	£616,526
Net Present Value of Scheme	£30,274,713	£46,363,835
Benefit to Cost Ratio	30.62	76.20

HIGHWAY NETWORK SUMMARY PERFORMANCE REPORT

One of the anticipated key benefits of any Permit Scheme is an increase in traffic speeds as a result of a reduction in traffic delay or disruption, caused by road works.

Reduced disruption on the highway network is also expected to cause a reduction in collision and a reduction in fuel consumption and associated CO2 emissions.

However, these measures also need to be considered alongside improvements in other safety developments such as automatic car collision mitigation systems and the ongoing introduction of electric vehicles.

Details on the calculation process is provided in the Authority Measures section below.

In summary, during the first year of operation of the Worcestershire Permit Scheme these impacts listed below were seen.

However, the COVID-19 pandemic had a huge impact on traffic flows which fluctuated during the year.

Therefore, it is not possible to attribute these impacts to the scope of the Worcestershire Permit Scheme.

- Traffic flow (the average number of vehicles travelling along a given stretch of the road network per day)
 - During the 1st year of the scheme the data shows that traffic flows remained the same.
- Journey Time Reliability and Average journey times
 - Data shows a slight decrease in journey time of 0.04%. When we look at the journey time reliability this shows an increase in fluctuations post-Permit Scheme but this may be due to the increasing number of works on the network alongside the beginning of the Covid pandemic.
- Average Traffic Speed
 - Traffic speed increased by 2%.
- Carbon emissions.
 - Data has been collected from the DfT on traffic flow sites on major and minor roads in Worcestershire that identifies 301 locations.
 - The summary data shows that there has a decreased in carbon emissions of 27% during the year
- Collisions
 - There has been a decrease of 7% in collisions compared to 2019 collisions
 - This is a decrease of 20% based on the predicted trends

Due to the fluctuations during the COVID-19 pandemic it is not possible to confirm that the Permit Scheme has reduced traffic delay on the network.

In addition, due to these fluctuations it is also not able to confirm if journey time reliability has improved.

PERMIT SCHEME SUMMARY PERFORMANCE REPORT

This report provides evaluation findings of key indicators and measures for the Worcestershire Permit Scheme after its first year of operation.

Overall, and considering the impact of the COVID-19 Pandemic, the Worcestershire Modified Permit Scheme has been designed and implemented extremely well.

Extensive additional experience has now been gained by the team on how Permit Schemes operate, and nationally, legislation and guidance is being updated.

It is important to note that during the first year there have been major IT system changes nationally and Permit Teams have been transitioning to the DfT's Street Manager system and a variety of existing systems and interfaces have been developed and tested. This has resulted in some gaps in the data seen below.

This situation is expected to resolve itself over the next couple of years resulting in increased data allowing increased analysis and management focus.

During the first year of operation 21,841 Permit applications were received from Utility Promoters and Highway Authority Promoters.

26% of applications were from the Highway Authority, up from 20% in year 1. This is generally within the range expected for Highway Authority works and increase may be a result of the change in Utility works planning and staff availability during COVID-19 along with the highways team taking the opportunity to increase maintenance works due to reduced traffic volumes.

This total includes applications that were granted but subsequently cancelled by the Promoters before the works were undertaken.

4,444 Permits were refused in year 1 for various reasons which is 17% of applications and in-line with expectations. The Permit team can refuse a Permit application when they consider that elements of the application (e.g. timing, location or conditions) are not acceptable.

Only 185 permits deemed (automatically granted without consideration by the permit team) out of 21,841 applications which is a remarkable achievement, especially when considering the challenges COVID-19 has presented.

12,567 variations to granted permits requests were received which is circa 14x higher than expected using the DfT's standard volume matrix tool. This is a common occurrence across the industry, but is slightly higher than the number anticipated by the consultant and expected to reduce in year 2.

79% of these variations were granted, in year 1 with only 10 deemed, which again, is a remarkable achievement by the team.

54,601 conditions were attached to Permits in year 1. This is a very positive indicator and normally demonstrates that Promoters are considering the impact of works and agreeing how they will be undertaken with the Permit team. Again, this will be monitored post COVID-19.

There were 320 recorded collaborative works saving 1,508 days. Using the Net Present Value of the cost of roadworks used in the original CBA this equates to £904,800 of societal saving although this number is much higher in today's terms.

2,059 inspections to monitor the compliance with agreed conditions were undertaken of which 391 were non-compliant. This is slightly lower volume of non-compliance than the consultant would expect to see so needs ongoing monitoring.

The average individual Permit cost to Utilities was £38 in year. This is very efficient with figures of £40 to £60 seen on average by the consultant. This is an element of the high Benefit Ratio seen in table 64 above.

First Year Issues

The developing impact of the COVID-19 pandemic has been a major issue for all Authorities to manage.

The IT system's ability to produce reports consistent with the industry's agreed indicators and measures has improved considerably as can be seen in the table below.

Historically, the industry has agreed on a range of reports that none of the system providers have been able to fully produce.

The central government initiative to develop a new single central IT system called Street Manager is replacing or complimenting current providers and will hopefully continue to improve KPI reporting requirements in future years.

Staffing

Following a restructuring there has been ongoing recruitment for the Permit Scheme and it is expected to be fully resourced in 2021/22.

Inspection and enforcement resources and operations are being monitored and will continue to be a focus of the Highways Management Team. This is to ensure compliance with agreed conditions and required working practices is delivered on the network, minimising disruption wherever possible.

Operational Costs

£859,807 of Permit and Permit Variation fee income was received over the full financial year.

Due to the increase in volumes the fee income was 3% more than costs.

A small surplus will be carried forward and expected to be absorbed by ongoing increases in IT expenditure and cost inflation.

As fee income is anticipated to be the same or less than costs over the next several years, no consideration will be given changing Permit fees in 2020/21.

See table 62.

Conclusions

The consultant rates the Modified Worcestershire Permit Scheme as EXCELLENT.

The team consistently co-ordinate all road and street works in Worcestershire and take the time to review each and every application and apply conditions to minimise the impact of the works on the users of the network.

As the Permit Scheme has been managed very well and costs and fee income are aligned there is no need to consider an adjustment in fee rates.

There are still some difficulties gathering accurate data from the IT system but this is expected to improve considerably.

The Permit team and Promoters will continue to work together and make improvements to minimise the impact of works on the highway network.

Works are being Permitted and co-ordinated effectively and this has resulted in the network being managed to the best of the team's ability with the tools available to them.

The introduction of the Modified Permit Scheme has led to a better control of the entire highway network and of all the works undertaken on it.

Looking Forward (Recommendations)

The Modified Permit Scheme is properly set up so it will continue to maintain its effectiveness over the following years with a focus on these key areas.

- Monitor network performance post COVID-19 and how elements such as journey times and reliability are impacted by traffic volumes and disruption caused by activities on the highway.
- Monitor the DfT's new Street Manager system and feedback the need to improve data recording and reporting.
- Continue staff recruitment training and development.
- Consider increasing the resources available to ensure the full volume of inspections is undertaken.
- Consider increasing the resources available for monitoring of breaches and the subsequent issuing of penalties. Following this, monitor positive behavioural changes (improved compliance with conditions and other requirements) that have resulted so the impact of the resources can be assessed.
- Consider how the Permit Team can support other initiatives within the Highway Department such as programmes to assess the level of compliance with Specification of the Reinstatement of Openings in Highways (SROH).

Permit Scheme Objectives

The Worcestershire Permit Scheme's primary objectives are:

- To increase the efficient running of the highway network by minimising the disruption and inconvenience caused by road works and other highway events and activities through proactive management of activities on the highway
- To improve the quality and timeliness of information received from all activity promoters to increase and improve the publicly available data for integration into the Council-wide travel information
- To encourage a proactive approach to planning and undertaking of works on the highway from promoters and thus lessen the impact of activities on road users
- To protect the structure of the street and the integrity of the apparatus in it
- To ensure safety of those using the street and those working on activities that fall under the Scheme, with particular emphasis on people with disabilities
- To ensure parity of treatment for all activity promoters particularly between statutory undertakers and highway authority works and activities

APPENDIX 1 - EVALUATION BACKGROUND

Permit Scheme Evaluation

Swift Argent Ltd was commissioned by Worcestershire County Council in 2018 to design a Permit Scheme suitable for the City. Following successful implementation in April 2020 Swift Argent Ltd was commissioned to evaluate the performance of the first year of the Permit Scheme as a requirement set out in The Traffic Management Permit Scheme (England) (Amendment) Regulations 2015 regulation 16A.

The Permit Scheme was implemented on 1st March 2020 and the purpose of this report is to evaluate the Permit Scheme and give consideration to the fee structure, the costs and benefits of operating the Scheme and whether the Permit Scheme is meeting key performance indicators where these are set out in the Guidance.

Scope of Work

In order to evaluate the performance of a Permit Scheme a number of data items are required to enable analysis.

All data should be readily available within the street works IT system of the respective Highway Authority. Financial information should be available from the Authority finance department and certain data is collected from DfT statistics.

Ideally, annual performance data should be collected monthly throughout the year to enable changes and trends to be observed time. This could also be useful to enable regular checks to be made internally against key targets so this can be managed and responded to quickly. The response can include further training of the Permit Team to ensure consistency and outcome focused activities.

The individual data items are set out later in this report for each indicator but will include the following categories.

- Number of Permits granted, modified and refused
- Conditions applied for
- Variations and extensions and early starts
- Location of roadworks
- Permit fees
- Operational costs
- Travel times and reliability
- Carbon Impacts

As part of the initial assessment for the introduction of a Permit Scheme and the subsequent application to the Secretary of State for Transport or preparation of a Local Order, the Highway Authority is required to conduct a Cost Benefit Analysis (CBA) on the likelihood of a Scheme to deliver value for money to society (as a benefit to cost ratio).

This CBA is based on the principles of the Department for Transport's New Approach to Transport Appraisals (NATA) framework and include broad assumptions on the costs and benefits of a Permit Scheme. This gives a base in order to make assessment of aims to be achieved.

Key Performance Indicators

A set of Key Performance Indicators (KPIs) and Objective Measures (OMs) are set out below to demonstrate parity of treatment between works for road purposes and street works undertaken by statutory undertakers.

Section 20.3 of the Permits Code of Practice states that every Authority that wants to run a Permit Scheme must explain how it intends to demonstrate parity of treatment for promoters in its application.

The Code contains seven KPIs that could be used for this purpose. The recording of KPIs 1 and 2 is a mandatory requirement of all Permit Schemes.

Authorities should select at least two others which they consider will demonstrate parity across their Permit Scheme. Authorities can also include their own KPIs.

- KPI 1 The number of Permit and Permit variation applications received, the number granted and the number refused. (breakdown of the data into applications granted and refused in relation to highway authority works for road purposes and works by utility promoters, and provide a comparison with the percentage of Permits granted Also, the data is further broken down by activity type into applications granted and refused.)
- KPI 2 The number of conditions applied by condition type.
- KPI 3 The number of approved extensions
- KPI 4 The number of occurrences of reducing the application period (early starts).
- KPI 5 The number of agreements to work in Section 58 and Section 58A restrictions. (Details of Section 58 and 58A restrictions will be provided as required under Section 8.3 of the TMA Code of Practice for Permits.)
- KPI 6 The proportion of times that a Permit authority intervenes on applications
- KPI 7 Number of inspections carried out to monitor conditions

The Statutory Guidance for Highway Authority Permit Schemes October 2015 set out Permit Indicators (TPI) for Permit Schemes are additional to the general TMA Performance Indicators (TPIs), which are already being produced. The TPIs focus on occupancy, co-ordination and inspections, and there for relate mainly to the stages of the works from works start to final conclusion. These additional Permit indicators focus more on the process of Permit applications and responses, prior to the works being carried out.

- TPI1 Works Phases Started (Base Data)
- TPI2 Works Phases Completed (Base Data)
- TPI3 Days Of Occupancy Phases Completed
- TPI4 Average Duration of Works Phases Completed
- TPI5 Phases Completed on time
- TPI6 Number of deemed Permit applications
- TPI7 Number of Phase One Permanent Registrations

In addition to DfT KPIs and HAUC TPIS. The authority can collate its own data. These measures should reflect the business case and objectives put forward in the Scheme submission documentation.

- AM 1 Average duration of works by Permit type
- AM 2 Inspections (% age of total undertaken and failures)
- AM 3 Days of Disruption Saved/ Number of collaborative works
- AM 4 Response Code – broken down by promoter
- AM 5 FPNs (Permit Breaches)
- AM 6 Levels of Customer Enquiries
- AM 7 Average Journey Times (as detailed below)
- AM 8 Journey time reliability (as detailed below)
- AM 9 Road Traffic Collisions (as detailed below)
- AM 10 Carbon Emissions (as detailed below)
- AM 11 Profit/Loss (as detailed below)

Average Journey Times

A key benefit of the Permit Scheme will be to improve operation of the transport network through a reduction in journey times per unit distance travelled due to reduction in delay from roadworks.

It is expected the level of delay in a dense urban network across 12 hours of operation, 10% is estimated to be due to road works, 10% unplanned incidents and 5% control devices with a non-recurrent delay on roads of 25% of total delay.

A 5% reduction in road works would account for a 0.5% reduction in total delay or 10% reduction 1% reduction on total delay.

The DfT publish data quarterly statistical data on road congestion on locally managed 'A' roads and is measured by estimating the average speed achieved by vehicles during the weekday morning peak from 7am to 10am. Average speeds are presented at national, regional and local highway authority level.

Analysis by TfL has determined that on average between 07:00 to 19:00 across the network, delay accounts for about one third of journey times, the remaining two thirds approximates to the free flow or unhindered journey component so that a 5% reduction in roadworks would see an expected improvement of 0.17%.

There are two ways to measure average journey times using this data (a) either comparing passed average journey times before the Permit Scheme and during the Permit Scheme for that authority; or (b) compare Permitted authority to non-Permitted authority local to the area with similar characteristics. The later assumes that all network outcomes are equal and any difference is attributable to the Permit Scheme.

Journey Time Reliability

It is expected that a key benefit of a Permit Scheme will be an improvement in journey time reliability on the network. Journey time reliability is measured using ANPR (Automatic Number Plate Recognition) cameras with some authorities such

as TfL, Essex, Bedfordshire that is an accurate mechanism for monitoring journey times to provide a meaningful measure of overall network performance.

Although ANPR cameras are becoming more of a necessity for highway authorities to prove that traffic management measures are reducing congestion as part of the TMA (Traffic Management Act) these are generally only used for major roads where there is the most congestion.

A further method is to model the relationship between journey time and standard deviation.

This method is suggested in WebTAG and would compare the standard deviation of variability between the Permitted and non-Permitted authorities.

Road traffic Collisions

The presence of roadworks in itself has a higher rate of collisions due to queuing traffic and driver frustration causing erratic behaviour. There are a number of measures that are used to minimise confusion and risk to drivers that can result from better management through a Permit Scheme in addition to the reduction in roadworks themselves.

This may include approval of traffic management plans, better signage, diversion routes, average speed cameras, reduced duration and disruption.

Accidents on the public highway in Great Britain, reported to the police and which involve personal injury or death are recorded by police officers onto a STATS 19 report form with information relating to that accident.

The DfT is responsible for collection of STATS 19 data and forms the basis for annual statistics and is updated quarterly for all local authorities. To measure the effectiveness of a Permit Scheme on road traffic collisions data can be analysed for the Permitted authority before and after the Scheme start and compare trends with non-Permitted authorities.

Carbon Emissions

An outcome of reduced congestion is the reduction in fuel consumption and CO₂ emissions. The fuel consumption that causes CO₂ emissions is very sensitive to several factors and include driver behaviour, vehicle, road types and traffic conditions.

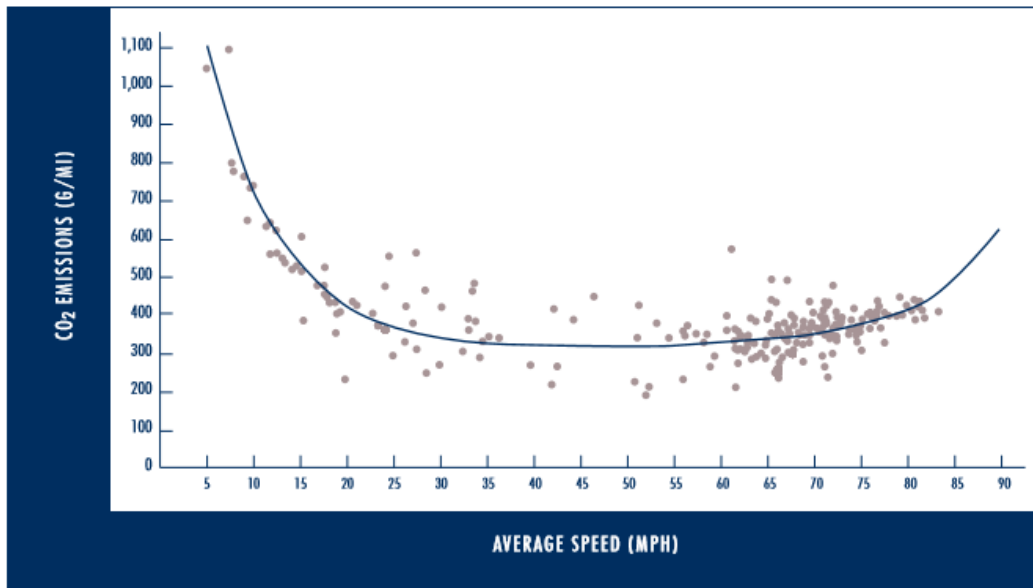
Due to multiple variables a comprehensive carbon model is used as a methodology to accurately estimate how congestion reduction will reduce CO₂.

A typical driving trip consists of idling, accelerating, cruising, and decelerating. An average trip would produce about 330 grams per mile (g/mi) of CO₂ emissions. The figure below shows a typical speed emission curve and shows at lower speeds with high accelerating and decelerating in congestion has much higher emissions.

As speed increases congestion decreases.

On motorways with speeds above 65mph emissions increase as engines are under strain.

Average Speed Over CO₂ Emissions



Source: TRAFFIC CONGESTION AND GREENHOUSE GASES BY MATTHEW BARTH AND KANOK BORIBOONSOMSIN

The National Transport Model (NTM) is the Department for Transport's main strategic policy testing and forecasting tool used to forecast traffic levels and the subsequent congestion and emissions impacts on the national road network of Great Britain (GB).

Curves for 'ultimate' CO₂ emissions can be derived directly from the fuel consumption by converting the units from litre/100km to g fuel/km and applying a simple conversion factor based on the carbon content of petrol and diesel fuels. To calculate fuel consumption as set out in WebTAG the following

Fuel consumption is estimated using a function of the form: $L = a/v + b + c.v + d.v^2$

Where:

L = consumption, expressed in litres per kilometre;

v = average speed in kilometres per hour; and

a, b, c, d are parameters defined for each vehicle category.

The revised fuel consumption aggregated equation for WebTAG vehicle groups was derived (TRL unpublished report "Fuel Consumption Equations" dated 29 September 2008) using the results from the New UK Road Vehicle Emission .

Parameters for each vehicle category are set out in Tab;e A 1.3.8 of WebTAG as shown on Table 1 below.

Table 1 - WebTAG – Fuel consumption parameter values				
Fuel consumption parameter values (litres per km, 2010)				
Parameters				
Vehicle Category	a	b	c	d
Petrol Car	0.96402	0.04145	0.00005	2.01346E-06
Diesel Car	0.43709	0.05862	0.00052	4.12709E-06
Petrol LGV	1.55646	0.06425	0.00074	1.00552E-05
Diesel LGV	1.04527	0.05790	0.00043	8.02520E-06
OGV1	1.47737	0.24562	0.00357	3.06380E-05
OGV2	3.39070	0.39438	0.00464	3.59224E-05
PSV	4.11560	0.30646	0.00421	3.65263E-05
Energy consumption parameter values (kWh per km, 2011)				
Electric Car	0.12564			
Electric LGV				
Electric OGV1				
Electric OGV2				
Electric PSV				

The DfT have developed a carbon tool to allow local authorities to assess the potential effects of transport interventions on carbon emissions in their area.

The tool will output results on the total change in carbon emissions. The Scheme details are entered into the tool and include the time period, type of road, type of area, region and year affected.

Affected modes are selected and default vehicle mix is used based on speed curves from national derived data. For each affected mode the daily distance and number of vehicles is entered.

The vehicle speeds before and after intervention are recorded. This will generate the CO₂ emissions before and after intervention.

PROFIT / LOSS

The Scheme profit / loss is made up of the staff and operational costs and Permit fee. The maximum charge per Permit type is shown on Table 2 below. The Authority sets their own fee structure reflecting on the potential number of Permits and operational costs.

The operational cost includes the initial start-up costs, additional staff administering and co-ordinating Permit Applications which includes Street Work Officers, Street Work Co-ordinators and Manager(s).

Revised maximum fee structure for each category of works and for a hierarchy of main and minor roads - Road category refers to the reinstatement category of the street under the New Roads and Street		
Work Type	Road Category 0-2 or Traffic-sensitive	Road Category 3-4 and non traffic-sensitive
Provisional Advance	£105	£75
Major works – over 10 days <u>and</u> all major works requiring a traffic regulation order.	£240	£150
Major works – 4 to 10 days	£130	£75
Major works – up to 3 days	£65	£45
Activity Standard	£130	£75
Activity Minor	£65	£45
Immediate Activity	£60	£40
Permit Variation	£45	£35

The profit / loss is the Permit fee revenue minus the operational cost. The result will enable the authority to understand if they are applying the correct fee structure or need to review staff levels.

Report Structure

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- APPENDIX 1 - EVALUATION BACKGROUND
- APPENDIX 2 - KEY PERFORMANCE INDICATOR DATA
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- APPENDIX 2b - PERMIT APPLICATIONS DATA
- APPENDIX 2c - AUTHORITY MEASURES
- APPENDIX 3 – COSTS, INCOME and

APPENDIX 2 - KEY PERFORMANCE INDICATOR DATA

KPI 1 The number of Permit and Permit variation applications received, the number granted, and the number refused.

Table 3 below shows a breakdown of Permit applications received granted and refused. This excludes Provisional Permit Applications (PAAs).

Data on Applications and Variations that are superseded is not possible to produce using the new IT Systems.

Data is further broken down into Permit applications received, granted, and refused related to Highway Authority works and Utilities works on Table 4 below.

Table 3 KPI 1 The number of permit and permit variation applications received, the number granted and the number refused, deemed and superseded								
Year 1	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
Total	21,841	12,567	16,545	9,985	4,444	2,146	185	10
Percentage			76%	79%	20%	17%	1%	0%

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Table 4 KPI 1 Permit Applications by Promoter Year 1						
Promoters	Total Permit Applications	Total Applications Granted	Total Applications Refused	Total Permit Variations	Total Variations Granted	Total Variations Refused
Highway Authority	4,343	3,660	372	2,754	2,428	161
	19.88%	84.27%	8.57%	21.91%	88.16%	5.85%
Utility	17,498	12,885	4,072	9,813	7,557	1,985
	80.12%	73.64%	23.27%	78.09%	77.01%	20.23%

Table 5 KPI 1 The number of permit and permit variation applications received, the number granted and the number refused and deemed by Promoter								
Highway Authority	Year 1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	4,343	2,754	3,660	2,428	372	161	41	10
Cadent Gas Limited	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	1,403	1,253	976	969	365	151	40	-
BT	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	4,236	2,488	2,919	1,937	1,184	487	20	-
Private Undertakers	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	189	133	133	113	39	10	2	-
Western Power Distribution (EXMEB)	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed

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	1,230	566	918	451	299	93	-	-
Western Power Distribution (Midlands)	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	1,230	566	918	451	299	93	23	-
Vodafone	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	37	25	17	22	20	2	-	-
Network Rail	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	75	71	33	37	31	22	-	-
Virgin Media	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	762	208	621	138	94	49	4	-
Telefonica	Year1							
	Applications Received	Variations Received	Applications -	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	4	3	3	2	1	-	-	-
Environment Agency	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	3	2	2	1	1	-	-	-
Royal Mail	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	9	1	7	1	2	-	-	-
GTC	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed

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	87	111	27	71	49	31	1	-
T Mobile	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	16	7	10	5	5	1	-	-
ES Pipelines Ltd	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	18	14	4	10	11	3	-	-
Last Mile Electricity Limited	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	18	16	9	10	5	4	-	-
Wales & West Utilities	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	188	224	129	194	50	274	-	-
Fulcrum Pipelines Limited	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	28	39	8	21	16	12	-	-
ESP Electricity Ltd	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	5	7	2	4	1	3	-	-
Last Mile Gas Limited	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	19	32	6	22	11	9	-	-
Gigaclear	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed

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	21	25	6	17	12	6	-	-
City Fibre	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	-	-	-	-	-	-	-	-
Independent Next Generation Networks Ltd	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	7	3	4	2	3	1	-	-
Murphy Gas Networks	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	2	8	-	5	2	1	-	-
Airband Community Internet Ltd	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	32	30	11	20	21	10	-	-
Severn Trent Water Ltd	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	7,839	3,954	6,088	3,041	1,545	719	52	-
South Staffordshire Water PLC	Year1							
	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	40	27	34	13	6	4	2	-
Utility Total	Applications Received	Variations Received	Applications Granted	Variations Granted	Applications Refused	Variations Refused	Applications Deemed	Variations Deemed
	17,498	9,813	12,885	7,557	4,072	1,985	144	-

Table 6(a) KPI 1 The number of permit and permit variations granted, refused, deemed and cancelled for Category 0-2 and Traffic Sensitive Streets for Utility Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	1	0%	21	1%	-	0%	-	0%	-	0%	-	0%	10	5%
Major	31	1%	52	3%	123	4%	39	3%	6	22%	13	25%	6	3%
Standard	107	3%	195	10%	295	8%	109	8%	2	7%	4	8%	5	2%
Minor	797	24%	924	49%	987	28%	499	38%	4	15%	2	4%	79	39%
Immediate	644	19%	16	1%	332	10%	14	1%	2	7%	7	13%	19	9%
Permit Variation	1,737	52%	661	35%	1,737	50%	661	50%	13	48%	26	50%	83	41%
Total	3,317		1,869		3,474		1,322		27		52		202	

Table 7(a) KPI 1 The number of permit and permit variations granted, refused, deemed and cancelled for Category 3-4 Non Traffic Sensitive Streets for Utility Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	11	0%	24	1%	-	0%	-	0%	-	0%	-	0%	16	3%
Major	328	3%	121	4%	506	7%	75	5%	4	5%	21	16%	13	2%
Standard	407	3%	378	13%	564	8%	193	12%	6	8%	9	7%	17	3%
Minor	4,180	35%	1,518	53%	1,934	27%	543	33%	21	28%	16	13%	235	44%
Immediate	3,293	28%	-	0%	506	7%	12	1%	6	8%	18	14%	62	12%
Permit Variation	3,725	31%	823	29%	3,725	51%	823	50%	37	50%	64	50%	190	36%
Total	11,944		2,864		7,235		1,646		74		128		533	

Table 8(a) KPI 1 The TOTAL number of permit and permit variations granted, refused, deemed and cancelled for Utility Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	12	0%	45	1%	-	0%	-	0%	-	0%	-	0%	26	4%
Major	359	2%	173	4%	629	6%	114	4%	10	10%	34	19%	19	3%
Standard	514	3%	573	12%	859	8%	302	10%	8	8%	13	7%	22	3%
Minor	4,977	33%	2,442	52%	2,921	27%	1,042	35%	25	25%	18	10%	314	43%
Immediate	3,937	26%	16	0%	838	8%	26	1%	8	8%	25	14%	81	11%
Permit Variation	5,462	36%	1,484	31%	5,462	51%	1,484	50%	50	50%	90	50%	273	37%
Total	15,261		4,733		10,709		2,968		101		180		735	

Table 9(a) KPI 1 The number of permit and permit variations granted, refused, deemed and cancelled for Category 0-2 and Traffic Sensitive Streets for Highway Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	38	2%	1	0%	-	0%	-	0%	-	0%	-	0%	19	24%
Major	425	21%	24	12%	180	15%	13	9%	7	58%	3	60%	5	6%
Standard	190	9%	36	18%	113	9%	24	17%	-	0%	1	20%	11	14%
Minor	524	26%	69	34%	188	15%	33	24%	-	0%	1	20%	5	6%
Immediate	128	6%	2	1%	25	2%	-	0%	-	0%	-	0%	3	4%
Permit Variation	708	35%	70	35%	708	58%	70	50%	5	42%	-	0%	35	45%
Total	2,013		202		1,214		140		12		5		78	

Table 10(a) KPI 1 The number of permit and permit variations granted, refused, deemed and cancelled for Category 3-4 Non Traffic Sensitive Streets for Highway Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	16	1%	5	3%	-	0%	-	0%	-	0%	-	0%	9	13%
Major	363	15%	17	9%	232	14%	15	14%	1	17%	1	20%	11	16%
Standard	431	18%	53	28%	309	19%	21	20%	-	0%	4	80%	4	6%
Minor	651	27%	59	32%	226	14%	16	15%	2	33%	-	0%	24	34%
Immediate	172	7%	-	0%	40	2%	-	0%	3	50%	-	0%	8	11%
Permit Variation	810	33%	52	28%	810	50%	52	50%	-	0%	-	0%	14	20%
Total	2,443		186		1,617		104		6		5		70	

Table 11(a) KPI 1 The TOTAL number of permit and permit variations granted, refused, deemed and cancelled for Highway Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	54	1%	6	2%	-	0%	-	0%	-	0%	-	0%	28	19%
Major	788	18%	41	11%	412	15%	28	11%	8	62%	4	40%	16	11%
Standard	621	14%	89	23%	422	15%	45	18%	-	0%	5	50%	15	10%
Minor	1,175	26%	128	33%	414	15%	49	20%	2	15%	1	10%	29	20%
Immediate	300	7%	2	1%	65	2%	-	0%	3	23%	-	0%	11	7%
Permit Variation	1,518	34%	122	31%	1,518	54%	122	50%		0%	-	0%	49	33%
Total	4,456		388		2,831		244		13		10		148	

Table 12(a) KPI 1 The number of permit and permit variations granted, refused, deemed and cancelled for Category 0-2 and Traffic Sensitive Streets for All Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	39	1%	22	0	-	-	-	-	-	-	-	-	29	0
Major	456	9%	76	0	303	0	52	0	13	0	16	0	11	0
Standard	297	6%	231	0	408	0	133	0	2	0	5	0	16	0
Minor	1,321	25%	993	0	1,175	0	532	0	4	0	3	0	84	0
Immediate	772	14%	18	0	357	0	14	0	2	0	7	0	22	0
Permit Variation	2,445	46%	731	0	2,445	1	731	1	18	0	26	0	118	0
Total	5,330		2,071		4,688		1,462		39		57		280	

Table 13(a) KPI 1 The number of permit and permit variations granted, refused, deemed and cancelled for Category 3-4 Non Traffic Sensitive Streets for All Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	27	0%	29	1%	-	0%	-	0%	-	0%	-	0%	25	1%
Major	691	5%	138	5%	738	24%	90	3%	5	0%	22	1%	24	1%
Standard	838	6%	431	14%	873	29%	214	7%	6	0%	13	0%	21	1%
Minor	4,831	34%	1,577	52%	2,160	71%	559	18%	23	1%	16	1%	259	8%
Immediate	3,465	24%	-	0%	546	18%	12	0%	9	0%	18	1%	70	2%
Permit Variation	4,535	32%	875	29%	4,535	149%	875	29%	37	1%	64	2%	204	7%
Total	14,387		3,050		8,852		1,750		80		133		603	

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Table 14(a) KPI 1 The TOTAL number of permit and permit variations granted, refused, deemed and cancelled for All Works by Activity type														
Year 1														
Activity Type	Permit App Granted		Permit App Refused		Variation Granted		Variation Refused		Deemed Permit Applications		Deemed Permit Variations		Cancelled /Aborted	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Provisional Advance	66	0%	51	1%	-	0%	-	0%	-	0%	-	0%	54	6%
Major	1,147	6%	214	4%	1,041	8%	142	4%	18	28%	38	20%	35	4%
Standard	1,135	6%	662	13%	1,281	9%	347	11%	8	13%	18	9%	37	4%
Minor	6,152	31%	2,570	50%	3,335	25%	1,091	34%	27	42%	19	10%	343	39%
Immediate	4,237	21%	18	0%	903	7%	26	1%	11	17%	25	13%	92	10%
Permit Variation	6,980	35%	1,606	31%	6,980	52%	1,606	50%		0%	90	47%	322	36%
Total	19,717		5,121		13,540		3,212		64		190		883	

KPI 2 The number of conditions applied by condition type

Table 15 shows that nearly 54,000 conditions were agreed with works Promoters, with the highest being time constraints and consultation and publicity.

Conditions are attached to applications by the Works Promoter or when requested by the Permit Authority and help deliver the Permit Scheme objectives and societal benefits.

Table 15 KPI 2 The number of conditions applied by condition type				
No	Condition	Year 1		
		Utility Works	Highway Authority Works	Total
1	DateConstraints	6,319	3	6,322
2	TimeConstraints	8,485	115	8,600
3	OutofHoursWork	557	-	557
4	MaterialandPlantStorage	1,066	357	1,423
5	RoadOccupationDimensions	4,554	53	4,607
6	TrafficSpaceDimensions	6,861	14	6,875
7	RoadClosure	1,593	2	1,595
8	LightSignalsandShuttleWorking	4,678	14	4,692
9	TrafficManagementChanges	3,906	29	3,935
10	WorkMethodology	8,609	-	8,609
11	ConsultationandPublicity	6,828	1	6,829
12	Environmental	16	-	16
13	Local	95	13	108
	Total	53,567	601	54,168

KPI 3 The number of approved extensions

Table 16 KPI 3 The number of approved extensions			
Period	Year 1		
	Agreed Extensions		
	Highway Authority	Utilities	Total
Jun-20	2	129	131
Jul-20	-	136	136
Aug-20	-	169	169
Sep-20	-	140	140
Oct-20	-	144	144
Nov-20	-	191	191
Dec-20	-	145	145
Jan-21	-	165	165
Feb-21	-	181	181
Mar-21	-	192	192
Apr-21	-	118	118
May-21	-	130	130
Total	2	1,840	1,842

KPI 7 Number of inspections carried out to monitor conditions

This KPI is broken down by promoter and shown as the number of sample permit condition checks carried out and the number passed or non-compliant.

Table 17 KPI 7 Number of inspections carried out to monitor conditions Year 1			
Promoter	Passed	Non-Compliant	Total
Highway Authority	-	1	1
Cadent Gas Limited	-	-	-
BT	-	-	-
Private Undertakers	-	-	-
Western Power Distribution (EX MEB)	-	-	-
Western Power Distribution (Midlands)	-	-	-
Vodafone	-	-	-
Network Rail	-	-	-
Virgin Media	-	-	-
Telefonica	-	-	-
Environment Agency	-	-	-
Royal Mail	-	-	-
GTC	-	-	-
T Mobile	-	-	-
Last Mile Electricity Limited	-	-	-
Wales & West Utilities	1	-	1
Fulcrum Pipelines Limited	-	-	-
ESP Electricity Ltd	-	-	-
Last Mile Gas Limited	-	-	-
Gigaclear	-	-	-
CityFibre	-	-	-
Independent Next Generation Networks Ltd	-	-	-
Murphy Gas Networks	-	-	-
Airband Community Internet Ltd	-	-	-
Severn Trent Water Ltd	1	1	
South Staffordshire Water PLC	-	-	-
Utility Total	2	2	2

APPENDIX 2a HAUC TPI MEASURES

TPI 1 Works Phases Started (BaseData)

This data is not currently available.

Table 18 TPI 1 Works Phases Started (Base Data) by Promoter Type						
Year 1						
Activity Type	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 19 TPI 1 Works Phases Started (Base Data) for Highway Authority Works by Reinstatement Category						
Year 1						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

TPI 2 Works Phases Completed (BaseData)

This data is not currently available.

Table 20 TPI 1 Works Phases Started (Base Data) for Utility Works by Reinstatement Category						
Year 1						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 21 TPI 2 Works Phases Completed (Base Data) by Promoter Type						
Year 1						
Activity Type	Major	Standard	Minor	Urgent	Emergency	Total
All Promoters	No Data	No Data	No Data	No Data	No Data	-
Highway Authority	No Data	No Data	No Data	No Data	No Data	-
Utilities	No Data	No Data	No Data	No Data	No Data	-

This data is not currently available.

Table 22 TPI 2 Works Phases Completed (Base Data) for Highway Authority Works by Reinstatement Category						
Year 1						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 23 TPI 2 Works Phases Completed (Base Data) for Utility Works by Reinstatement Category						
Year 1						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

TPI 3 Days of Occupancy Phases Completed

This data is not currently available.

Table 24 TPI 3 Days Of Occupancy Phases Completed by Promoter Type						
Year 1						
Activity Type	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 25(a) TPI 3 Days Of Occupancy Phases Completed for Highway Authority Works by Reinstatement Category and Traffic Sensitivity Street						
Year 1						
Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total
Non Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 26(a) TPI 3 Days Of Occupancy Phases Completed for Utility Works by Reinstatement Category and Traffic Sensitivity Street						
Year 1						
Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total
Non Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

TPI 4 Average Duration of Works Phases Completed

This data is not currently available.

Table 27 TPI 4 Average Duration of Works Phases Completed by Promoter by Activity Type		
Activity Type	Year 1	
	Highway Authority	Utility

TPI 5 Phases Completed on time

This data is not currently available.

Table 28 TPI 5 Phases Completed on time by Promoter						
Year 1						
Activity Type	Major	Standard	Minor	Urgent	Emergency	Total

TPI 6 Number of deemed Permit applications

This data is not currently available.

Table 29 TPI6 Number of deemed permit applications by Promoter	
Year 1	
Highway Authority	Utility

TPI 7 Number of Phase One Permanent Registrations

This data is not currently available.

Table 30 TPI7 Number of Phase One Permanent Registrations by Promoter						
Year 1						
Activity Type	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 31(a) TPI7 Number of Phase One Permanent Registrations for Highway Authority Works by Reinstatement Category and Traffic Sensitivity Street						
Year 1						
Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total
Non Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

This data is not currently available.

Table 32(a) TPI7 Number of Phase One Permanent Registrations for Utility Works by Reinstatement Category and Traffic Sensitivity Street						
Year 1						
Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total
Non Traffic Sensitive						
Reinstatement Category	Major	Standard	Minor	Urgent	Emergency	Total

APPENDIX 2b PERMIT APPLICATIONS DATA

Number of PAA applications submitted

Table 33 Number of PAA applications submitted	
Year 1	
	2,322

Number of PAA applications granted

Table 34 Number of PAA applications granted	
Year 1	
	1,855

Number of PAA applications deemed

This information is not available at this time.

Table 35 Number of PAA applications deemed	
Year 1	

Number of “initial” permit applications submitted for a works phase

This information is not available at this time.

Table 36 Number of “initial” permit applications submitted for a works phase	
Year 1	

Number of Permit applications granted on first application submission

This information is not available at this time.

Table 37 Number of Permit applications granted on first application submission	
Year 1	

Number of “modified” applications submitted prior to Permit being granted or deemed

This information is not available at this time.

Table 38 Number of “modified” applications submitted prior to Permit being granted or deemed
Year 1

Number of Permit applications deemed

Table 39 Number of Permit applications deemed
Year 1
79

Number of applications cancelled prior to grant/deemed

Table 40 Number of applications cancelled prior to grant / deemed
Year 1
546

Number of granted/deemed Permits for which an Actual Start never occurred

This information is not available at this time.

Table 41 Number of granted/deemed Permits for which an Actual Start never occurred
Year 1

Number of Authority imposed variations/revokes

Table 42 Number of Authority imposed variations / revokes
Year 1
8

Number of Duration variations after works started

This information is not available at this time.

Table 43 Number of Duration variations after works started
--

Year 1

Number of Duration variations refused

This information is not available at this time.

Table 44 Number of Duration variations refused

Year 1

Number of Permit applications with “Collaboration indicator” set

This information is not available at this time

Table 45 Number of Permit applications with “Collaboration indicator” set
--

Year 1

APPENDIX 2c AUTHORITY MEASURES

AM 1 Average duration of works

Table 46 AM 1 Average duration of works by permit type by Promoter by Activity Type		
Activity Type	Year 1	
	Highway Authority	Utility
Major	250	14
Standard	7	6
Minor	2	2
Immediate - Urgent	-	3
Immediate - Emergency	-	5

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AM 2 Inspections

Table 47(a) AM 2 Inspections (%; age of total undertaken and failures) by Promoter by Activity Type												
Promoter												
Highway Authority	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	21	18	86%	4	3	75%	-	-	#DIV/0!	25	21	84%
Cadent Gas Limited	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	279	27	10%	145	24	17%	143	9	6%	567	60	11%
BT	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	304	15	5%	237	19	8%	229	11	5%	770	45	6%
Private Undertakers	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	77	9	12%	101	26	26%	105	11	10%	283	46	16%
Western Power Distribution (EX MEB)	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
Western Power Distribution (Midlands)	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	167	47	28%	152	53	35%	127	23	18%	446	123	28%
Vodafone	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	4	-	0%	2	-	0%	7	-	0%	13	-	0%
	Year 1											

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Network Rail	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	5	1	20%	-	-		1	-	0%	6	1	17%
Virgin Media	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	102	6	6%	124	16	13%	129	16	12%	355	38	11%
Telefonica	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	-	-		4	-	0%	4	-	0%	8	-	0%
Environment Agency	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
Royal Mail	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	-	-		7	-	0%	10	1	10%	17	1	6%
GTC	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	15	3	20%	10	1	10%	10	-	0%	35	4	11%
T Mobile	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
Last Mile Electricity Limited	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	9	1	11%	5	2	40%	1	1	100%	15	4	27%
	Year 1											

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Wales & West Utilities	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	56	22	39%	37	13	35%	32	2	6%	125	37	30%
Fulcrum Pipelines Limited	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	6	1	17%	8	2	25%	9	1	11%	23	4	17%
ESP Electricity Ltd	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	3	-	0%	2	2	100%	-	-		5	2	40%
Last Mile Gas Limited	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	3	-	0%	7	2	29%	-	-		10	2	20%
Gigaclear	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	4	2	50%	6	2	33%	5	-	0%	15	2	13%
CityFibre	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
Independent Next Generation Networks Ltd	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
							1	-	0%	1	-	0%
Murphy Gas Networks	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %

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Airband Community Internet Ltd	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	2	-	0%	4	-	0%	-	-		-	-	
Severn Trent Water Ltd	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	1,010	216	21%	740	257	35%	658	179	27%	2,408	652	27%
South Staffordshire Water PLC	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	13	-	0%	12	-	0%	12	2	17%	37	2	5%
Utility Total	Year 1											
	CAT A Done	CAT A Fail	CAT A Failure Rate %	CAT B Done	CAT B Fail	CAT B Failure Rate %	CAT C Done	CAT C Fail	CAT C Failure Rate %	Total Inspections	Total Failure	Total Failure Rate %
	2,059	350	17%	1,603	419	26%	1,483	256	17%	5,139	1,023	20%

AM 3 Days of Disruption Saved/Number of collaborative works

Table 48 AM 3 Days of Disruption Saved/ Number of collaborative works		
Type	Year 1	
	Number of Collaborative Works	Days Saved
Permit	320	1,508
Trench Sharing	-	-
Total	320	1,508

AM 4 Response Code

Information regarding refusals by Promoter is not available from the IT System at this time.

Table 49 AM 4 Response Code—broken down by promoter																		
Promoter	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Previous response codes have been replaced with the table below.

The below table outlines 5 categories for reporting on Permit Refusals and Modification Requests, further refusals codes and sample text are provided for specific refusals reasons within those broad categories. Authorities should wherever possible utilise the detailed codes in preference to the generic codes (e.g.RC11 or RC12 should be used over RC10) as this will drive more meaningful outputs and identify areas of improvement in permit applications, therefore only the codes below should be used to bring National consistency.

Both Authorities and Undertakers can report on this data and use the results to drive improvements in the quality of Permit Applications.

It is very important to note that whatever code is used, the reason for the refusal must be entirely clear. If using the general codes (RC10, RC20), the specific reason must be clearly stated. Please also refer to Regulation 9(10) of the amended Regulations. Equally, all works promoters should be fully aware it is an offence to undertake works without a valid permit.

Each code is worded ambiguously, so the `Highway Authority will need to specify if it requires a refusal or modification.

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Permit Response Code	Type	Description and Suggested Text
RC10	Missing Information	This would include instances where required conditions have not been provided/are not necessary or conflict. The works description or location information provided is insufficient. Use this code for missing information issues not covered by the below.
RC11	Condition Not Provided/Not Necessary	You have omitted essential conditions for these works. If you still plan to proceed with the activity you must supply the appropriate conditions within the conditions text box. [NAME] [Tel]
RC12	TM Not Received	Please provide the required [illustration/traffic management drawing/works activity footprint] for this activity. Please supply the required plan and submit a new application once you have received approval. [NAME] [Tel]
RC20	Incorrect Details on Permit	This would include where the dates, USRN or primary recipient of the Permit are incorrect. Use this code for incorrect Permit detail issues not covered by the below.
RC21	Incorrect Primary Recipient	You have incorrectly selected XXX as the primary recipient of the permit. If you still plan to proceed with this activity you must submit a new permit application ensuring that you have issued it to the correct permitting authority. [NAME] [Tel]
RC22	Location Issues	Your location description and map coordinates conflict, preventing effective coordination of these works. If you still plan to proceed with the activity you must amend this information. [NAME] [Tel]
RC23	Conflicting Information	You have conflicting information contained within your permit application. You state [Example 1] which conflicts with [Example 2] If you still plan to proceed with the activity you must supply consistent information. [NAME] [Tel]
RC30	Co-ordination Issues	This would include where the works will cause any sort of conflict (e.g with an event.) Use this code for co-ordination issues not covered by the below.

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RC31	Clash of Works	Your works will conflict with other activities for your proposed dates at this location, and collaboration is not possible. Please submit a new permit application with alternative dates. The conflicting works are estimated to be completed on [XX/XX/XXXX]. [NAME] [Tel]
RC32	Timing of Works	You have not specified the precise [Times/Days] that your work site(s) will be occupying the public highway. If you still plan to proceed with this activity you must supply the necessary timing information. [NAME] [Tel]
RC33	Collaboration / Co-ordination	Your works will conflict with other activities for your proposed dates at this location. Please confirm you can co-ordinate your works with the party who are (Name of Conflicting Promoter). If you still plan to proceed with this activity you must submit a new permit application with alternative dates or an agreement of collaboration. The conflicting works are estimated to be completed on [XX/XX/XXXX] by (XXXXX promoter). [NAME] [Tel]
RC40	Lack of Approval	This would include where TM approval has not been given, an early start has not been sought, the duration applied for is not viewed as acceptable or where the Permit applied for does not reflect prior agreements made. Use this code for general lack of approval or the codes below for a specific issue.
RC41	Incorrect TM	You have not gained the relevant [TM plan/WAF/site meeting] (delete as appropriate) approval for these works. [NAME] [Tel]
RC42	Early Start Agreement	No Early Start Agreement has [not been obtained/not been justified] for this activity. [NAME] [Tel]
RC43	S.58 Restriction	This street is protected by a section 58 restriction. Please provided evidence that you have the relevant agreement to work within this restriction. [NAME] [Tel]
RC44	Duration	The duration is considered to be excessive/insufficient [delete as required] because [XX]. Please specify a duration not longer than [XX] working days. [NAME] [Tel]
C50	Other	Any other reason not covered – As above you must clearly state the refusal reason – this category should be kept to a minimum otherwise the quality of the data can be diluted and made less useful in driving performance improvement.

AM 5 FPNs (Permit Breaches)

Table 50 below shows the number of fixed penalty notices. Under section 74 (7B) failure to give a notice under regulation 74 (charge for occupation of the highway where works unreasonably delayed); under section 19 (1) working without a Permit and under 20 (1) Permit breaches.

There were a total 391 breaches in the first year of the modified scheme.

The Permit Authority will continue to work with Promoters to reduce the number of FPN's.

Table 50(a) AM 5 FPNs (Permit Breaches) – broken down by promoter					
Promoter					
Highway Authority	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Cadent Gas Limited	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	58	138	25	78	299
BT	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	11	29	9	27	-
Private Undertakers	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	6	7	-	-	-
Western Power Distribution (EX MEB)	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Western Power Distribution (Midlands)	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	102	36	30	38	206
Vodafone	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
					-

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Network Rail	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	7	-	1	8
Virgin Media	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	1	1	1	2	-
Telefonica	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Environment Agency	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Royal Mail	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
GTC	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	2	-	-	-	2
T Mobile	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Last Mile Electricity Limited	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Wales & West Utilities	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Fulcrum Pipelines Limited	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
ESP Electricity Ltd	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total

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	-	3	-	-	3
Last Mile Gas Limited	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	2	1	-	-	219
Gigaclear	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-			438
CityFibre	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Independent Next Generation Networks Ltd	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Murphy Gas Networks	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	-	-	-
Airband Community Internet Ltd	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	1	-	-	-	1
Severn Trent Water Ltd	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	53	141	48	245	487
South Staffordshire Water PLC	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	-	-	2	-	2
Utility Total	Year 1				
	70(6)	74(7B)	19(1)	20(1)	Total
	236	363	115	391	1,105

Permit Breach Code Descriptions	
Code	Description
70(6)	Failure to comply with requirements to give notice of completion of reinstatement
74(7B)	Failure to give a notice under regulation 74 (charge for occupation of the highway where works unreasonably delayed)
19(1)	Works without a permit
20(1)	Permit breaches

AM 6 Levels of Customer Enquiries

This information is not available at this time.

Table 51 AM 6 Levels of Customer Enquiries	
Year1	
Number of instances	Type of Enquiry
No Data	No Data

AM 7 Average Journey Time and AM 8 Journey Time Reliability

One of the anticipated key benefits of the Permit Scheme is an increase in traffic speeds as a result of a reduction in delay to traffic caused by road works.

As set out in the scope in Section 3.4 of this Evaluation, for a 5% reduction in delay, there is an expected improvement of 0.17% in journey time savings.

From September 2015 to March 2021 DfT purchases data about vehicle speeds and journey times from Teletrac Navman.

This data is generated through in-vehicle GPS units as part of the satellite navigation and stolen vehicle tracking services Teletrac Navman provides to their customers. The specific raw data used to derive the Department's journey time statistics consist of 10-second GPS location reports for these vehicles for the period during which their ignition is on.

As part of the service provided to the Department, Teletrac Navman map these GPS location reports to the Ordnance Survey Mastermap and then use this information to reconstruct the routes taken by their customers as they move through the road network.

These reconstructed journeys, combined with the time stamps on the associated GPS location reports, allow Teletrac Navman to estimate the time taken by these vehicles to traverse each route network link. The data also allows journey times to be associated with a particular link direction if the link in question can be traversed in either direction. Where the 10-second GPS location reports don't fall exactly on the start and end of each link, interpolation is used to estimate the time taken by the vehicles to complete each link.

Only data generated from cars, light goods vehicles and heavy goods vehicles are used to estimate journey times. All public service vehicles (e.g. buses) are excluded from the statistics as their frequent stopping/starting would report much slower journey times than actually prevail on the road.

For Year 1, 2018 pre-Permit Scheme and 2019 post-Permit Scheme data is presented on Highway Authority Major roads with average journey times on a monthly basis. comparing delay of vehicles and traffic speed. Data is shown on Table 52(a) and shows a slight decrease in journey time of 0.04%. If we look at the journey time reliability this shows an increase in fluctuations post-Permit Scheme but this may be due to the increases in the number of works on the network. Table 58(a) shows that traffic flows have remained the same and traffic speed has increased by 2%.

In comparing to the whole of the UK there was a decrease in delay of 20% and increase in speed of 8%. Due to the fluctuating effects during the Covid pandemic it is not possible to confirm that the permit scheme has had some effect on reducing traffic delay on the network.

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Due to fluctuations, it is also not able to confirm if journey time reliability has improved.

Table 52(a) AM 7 Average Journey Times & AM 8 Journey Time Reliability														
Year 1														
			Average journey time (minutes per mile) (Source Teletrac Navman AGPS) Average journey times all vehicles on locally managed 'A' roads:											
Local Authority	ONS area code		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Worcestershire	E10000034 (47)		Pre-scheme											
		AJT (mpm)	2.35	2.34	2.41	2.33	2.36	2.34	2.32	2.29	2.35	2.36	2.39	2.37
		% Compare	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
% Average Journey Time increase/decrease			-	-	-	-	-	-	-	-	-	-	-	-
Local Authority	ONS area code		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
Worcestershire	E10000034 (47)		Post-scheme											
		AJT (mpm)	2.33	2.33	2.33	2.30	2.33	2.32	2.32	2.31	2.38	2.40	2.44	2.41
		% Compare	0.99	1.00	0.97	0.99	0.99	1.00	1.00	1.01	1.02	1.02	1.02	1.02
% Average Journey Time increase/decrease			0.01	0.00	0.03	0.01	0.01	0.00	0.00	-0.01	-0.02	-0.02	-0.02	-0.02
Total Average			-4.13%											

Table 52(b) (i)AM 7 Average Journey Times & AM 8 Journey Time Reliability							
Worcestershire Local 'A' Road Delay 2019-2020 Road Congestion Statistics, DfT							
Road Number	Junction From	Junction To	Link Length (m)	Average Delay (spvpm)		Average Speed (mph)	
				2019	2020	2019	2020
A38	A38	A44	652	195.28	108.27	10.33	14.12
A44	A38	A44	629	176.31	109.45	10.04	13.01

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A44	A44	A449	181	151.49	103.16	10.66	12.97
A449	A44	A38	605	127.13	60	12.77	18.01
A38	A449	A449	1107	96.73	55.24	14.79	18.86
A449	A38	A449	2009	37.9	30.83	22.78	24.25
A449	A449	A449	818	19.28	16.19	32.27	33.26
A38	A38	A38	1038	63.07	44.63	17.68	20.11
A38	A38	A38	638	37.65	25.2	25.74	28.71
A38	A38	A38	1809	25.22	25.2	28.62	28.71
A38	A38	A38	2404	68.81	58.7	20.25	22.32
A38	A38	A38	478	51.57	25.15	21	25.29
A38	A38	A38	1355	17.62	15.15	34.71	36.39
A38	A38	A38	1265	45.72	26.01	27.91	32.82
A38	A38	A38	318	92.7	45.28	18.22	23.31
A449	A449	A4133	942	52.69	42.8	23.63	24.88
A4133	A449	A4025	3840	7.42	7.08	45.16	45.77
A4133	A4133	A449	980	23.14	28.98	26.96	25.71
A449	A449	A449	964	18.06	14.69	45.42	47.27
A449	A449	A449	3665	16.6	13.53	36.84	38.68
A4025	A449	A4025	2628	13.91	10.9	35.75	36.84
A4025	A4025	A4025	1430	28.38	21.52	27.21	28.53
A4025	A4025	A451	241	34.78	24.36	21.45	23.25
A451	A4025	A451	546	82.83	70.06	15.97	17.15
A451	A451	A451	1456	22.33	31.97	37.38	33.59
A451	A451	A4535	2046	77.14	60.37	19.02	21.15
A451	A4025	A4420	3048	44.55	32.41	24.74	27.11
A451	A451	A4535	994	90.92	16.4	61.01	19.45
A4535	A451	A456	908	91.77	66.52	15.51	17.55
A4535	A4535	A4420	1215	32.11	26.61	24.75	25.76
A442	A4535	A442	206	106.34	67.99	16.12	19.96
A442	A442	County Boundary	5506	9.92	11.05	41.22	41.57
A456	A4535	A456	1419	15.57	18.2	34.13	33.99
A456	A456	A456	1641	19.08	20.18	34.19	34.27
A456	A456	A456	2826	9.31	12.27	47.66	45.54
A456	A456	A4117	3257	12.96	12.14	37	37.7
A456	A4117	A443	10399	16.09	16.29	42.75	43.6
A456	A443	County Boundary	2782	13.81	11.05	35.93	37.26
A456	A442	A4535	529	175.2	104.64	11.18	14.74
A456	A4535	A456	720	82.74	76.99	16.98	17.98
A451	A456	A449	1118	86.82	70.98	15.86	17.48
A449	A449	A451	326	31.12	20.87	22.37	24.26
A449	A451	A449	780	40.8	28.1	22.04	24.31
A449	A449	County Boundary	3093	14.62	19.36	37.06	35.98
A451	A449	A451	572	28.71	22.71	25.83	27.21

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A451	A451	County Boundary	3931	10.33	10.08	43.51	44.1
A456	A451	A456	227	54.08	47.42	19.24	20.52
A451	A456	A448	426	31.23	25.76	26.14	27.86
A451	A448	A442	779	19.67	18.17	33.32	33.99
A451	A442	A451	604	42.87	36.08	21.81	22.99
A4420	A451	A4420	1128	47.26	39.52	20.21	21.37
A449	A442	A448	1666	38.68	34.75	23.05	24.03
A449	A448	A456	876	83.39	65.98	16.51	18.32
A449	A456	A449	794	80.36	62.14	16.2	18.2
A456	A456	A449	845	78.97	60.8	16.98	19.28
A456	A449	A456	859	52.81	26.46	23.19	29.72
A456	A456	A450	5385	21.4	16.31	34.42	37.26
A456	A450	A491	1516	43.15	32.45	22.31	24.4
A456	A491	A491	541	54.84	44.19	22.57	24.79
A491	A456	County Boundary	502	65.61	46.93	20.86	23.98
A456	A491	A456	311	81.72	60.66	21.52	25
A456	A456	A456	2540	13.8	13.67	41.79	41.95
A448	A451	A449	655	106.24	69.99	13.62	16.51
A448	A449	A448	920	34.55	26.23	24.33	26.21
A448	A448	A450	2617	13.4	11.41	36.06	37.45
A448	A450	A448	8377	13.21	11.52	36.26	37.62
A448	A448	A448	1083	53.03	28.45	20.58	25.06
A448	A448	A448	819	87.82	44.08	17.96	23.87
A448	A38	A448	5592	10.17	10.01	57.3	57.39
A448	A448	A441	3473	8.41	9.12	58.84	57.81
A4189	A441	A4189	2431	10.14	10.45	53.1	52.91
A4189	A4189	County Boundary	1591	27.87	22.78	29.23	30.69
A448	A448	A448	3156	8.23	8.96	60.18	59.11
A448	A448	A441	380	8.26	8.59	41.14	41.55
A441	A448	A4189	402	10.31	9.36	37.01	37.03
A4189	A441	A4189	2087	10.92	10.67	57.75	57.71
A441	A4189	A441	482	12.81	11.08	37.89	39.14
A441	A441	A448	1154	22.24	17.2	34.96	37.14
A448	A448	County Boundary	216	138.16	88.71	13.44	17.03
A441	County Boundary	A441	2184	14.51	11.94	34.98	36.91
A441	A441	A441	880	21.29	19.21	33.17	34.75
A441	A441	A441	4328	18.84	16.34	41.91	43.29
A441	A441	A441	928	27.99	26.53	27.09	27.92
A441	A441	A4023	952	27.07	21.88	30.57	32.83
A441	A4023	A448	2017	11.77	12.22	45.72	46.09
A441	A448	A448	1433	6.59	9.58	41.24	39.88
A441	A448	A441	1021	30.71	22.88	26.76	29.16
A441	A441	A441	3488	37.46	31.39	24.14	26.3

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A441	A441	A422	2902	13.48	14.62	41.6	40.79
A4023	A4023	A4023	403	32.7	29.12	32.06	33.37
A4023	A4023	A4023	2966	14.45	14.15	48.24	47.17
A4023	A4023	County Boundary	355	24.14	46.59	34.43	26.79
A435	County Boundary	A435	5486	13.19	10.34	48.51	50.82
A435	A435	A435	4284	27.49	12.67	41.38	54.85
A435	A435	County Boundary	676	9.22	11.9	57.89	55.49
A422	County Boundary	A441	89	46.65	34.16	20.23	22.04
A422	A441	A44	15248	11.94	11.09	39.38	39.25
A44	A44	A4440	2476	10.63	10.73	40.92	41.76
A4538	A38	A449	3169	28.92	14.98	31.53	37.02
A4538	A449	A4538	1225	67.36	19.59	21.51	31.47
A4538	A4538	A44	2305	9.5	9.12	43.16	43.71
A44	A44	A44	7164	12.25	17.88	40.75	38.75
A44	A4104	A4184	9032	16.19	17.45	35.9	35.64
A44	A4184	A4184	232	67.07	44.78	18.6	21.46
A4184	A44		555	15.73	15.67	34.78	34.82
A4184	A44	A4184	3114	116.65	81.32	15.66	18.5
A4184	A4184	A46	1364	119.56	94.24	14	15.53
A4104	A44	A4104	2335	69.36	60.44	18.1	19.32
A4104	A4104	A4104	3040	22.96	21.09	32.6	33.52
A4104	A4104	A38	6519	10.4	11.37	39.24	39.2
A4104	A38	A449	9558	38.84	22.48	26.31	30.67
A449	A449	County Boundary	784	16.18	15.41	31.61	31.69
A44	A44	A44	4992	16.91	15.35	34.02	35.01
A44	A38	A4440	2367	94.21	59.24	17.21	20.94
A4440	A4440	A4440	586	57.39	26.64	23.34	29.99
A4440	A4440	A38	2377	38.97	25.76	31.5	36.57
A4440	A38	A449	1879	62.38	42.93	23.37	26.64
A4440	A449	A44	2804	28.66	21.59	35.68	37.66
A449	A449	A449	2114	10.81	9.04	53.52	55.05
A449	A449	A4538	2413	27.12	13.65	41.42	50.56
A4440	A4538	A4440	3174	39.02	20.55	29.23	34.72
A4440	A4440	A44	1250	15.26	11.76	43.01	43.88
A38	A44	A38	2690	66.09	42.66	18.86	21.45
A38	A38	A38	250	134.71	80.93	14.48	18.89
A38	A38	A4104	10045	17.93	17.21	36.77	36.46
A38	A4104	A4104	67	90.68	58.4	19.14	20.18
A38	A4104	County Boundary	3123	11.16	10.26	42.86	43.43
A44	A443	A44	361	50.64	48.31	18.7	18.95
A449	A44	A449	1700	37.43	31.97	22.34	23.24
A449	A449	A4440	800	30.63	24.3	26.15	27.58
A449	A4440	A449	5593	20.55	14.78	32.45	34.88

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A449	A449	A449	1100	64.6	46.12	17.96	19.97
A449	A449	A449	1296	59.25	48.92	19.45	20.79
A449	A449	A449	1028	36.14	30.37	21.76	22.93
A449	A449	A449	3646	18.6	19.5	28.1	27.62
A449	A449	A449	1526	20.79	20.55	28.14	27.95
A438	County Boundary	A438	2105	13.35	13.42	39.62	39
A438	A438	A438	7438	15.56	18.89	41.57	40.64
A438	A438	County Boundary	4074	15.26	16.82	40.66	40.08
A44	A44	A44	81	47.81	46.51	18.28	18.76
A44	A44	A44	96	64.18	48.54	15.72	17.38
A44	A44	A44	408	60.64	63.35	18.3	18.06
A44	A44	A44	1760	64.07	57.3	17.88	18.94
A44	A44	A4440	581	65.85	60.07	19.88	20.66
A44	A4440	County Boundary	9844	11.44	11.75	39.66	39.25
A4103	A44	County Boundary	7823	10.67	11.31	37.89	37.55
A443	A44	A443	2310	52	44.28	22.32	23.48
A443	A443	A4133	6535	14.49	14.73	36.22	36.22
A443	A4133	A451	6967	11.02	9.99	40.29	40.51
A443	A451	A456	11219	14.38	14.18	36.39	36.21
A4112	County Boundary	County Boundary	3869	35.34	33.68	27.26	27.19
A451	A4025	A4025	266	49.89	34.55	20.71	23
A451	A4025	A451	282	72.33	82.71	15.85	14.47
A451	A451	A451	1662	33.84	29.56	24.11	24.68
A451	A451	A443	6030	11.55	13.72	38.57	37.72
A491	A456	A491	5722	12.85	10.83	44.61	46.79
A491	A491	A491	1477	22.29	13.14	36.8	41.96
A491	A491	A38	814	34.65	25.51	29.56	32.97
A38	County Boundary	A38	849	12.34	11.75	52.33	52.63
A38	A38	A491	1820	16.25	14.77	44.29	45.67
A38	A491	A38	994	28.03	29.94	29.34	29.43
A38	A38	A38	1590	34.83	34	25.79	26.33
A38	A38	A38	878	49.67	34.53	22.77	26.05
A38	A38	A448	1457	30.32	23.09	27.92	30.57
A38	A448	A38	1557	66.22	45.35	20.71	24.73
A38	A38	A38	1882	42.29	35.05	23.22	25.06
A38	A38	A38	3774	17.78	16.98	32.76	33.72
A38	A38	A38	1832	18.43	16.4	37.26	36.94
A38	A38	A442	1390	19.77	16.54	41.06	42.8
A4133	A38	A449	3436	10.85	10.89	37.2	37.58
A4133	A449	A4133	213	26.39	24.39	24.45	24.93
A4133	A4133	A443	3076	21.93	15.91	30.96	33.06
A450	A449	A442	509	50.22	38.75	23.11	25.41
A450	A442	A448	2579	17.57	13.76	37.15	39.44

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A450	A448	A456	6173	20.74	16.16	34.48	36.85
			408813	137.78	128.13	127.36	128.67
					(-) 25%		(+) 4%
England			44 ¹	35.3 ¹	25.3 ²		27.3 ²
					(-) 20%		(+) 8%

1	Department for Transport statistics
	Road Congestion Statistics
	Table CGN0502b Average delay on locally managed 'A' roads: by local authority in England: annual from 2015
2	Department for Transport statistics
	Road Congestion Statistics
	Table CGN0501b Average speed on locally managed 'A' roads: by local authority in England: annual from 2016

AM 9 Road Traffic Collisions

Road Traffic collisions have been analysed for Year 1, 2018 pre-Permit Scheme and 2019 post-Permit Scheme.

To estimate the predicted collisions post-scheme compared to the actual data collected, trends were analysed from reported collision statistics from 2013-2017 PIA that shows an annual average reduction of 14 collisions or 1.2 per month.

The actual data as shown on Table 53(a) below shows that there has been an increase of 9% in collisions compared to the 2018 collisions and increase of 11% based on the predicted trends.

There are fluctuations in the number of collisions and the true impacts of the scheme would be identified over a longer period of time and as disruption of road works by improved traffic management, signage and diversion routes and less variable speeds reducing the risks to drivers.

Year 1						
Previous Year		Predicted*		Actual		
Month-Year	Total	Month-Year	Total	Month-Year	Total	% Diff
Jan-18	55	Jan-19	54	Jan-19	67	124%
Feb-18	66	Feb-19	65	Feb-19	64	98%
Mar-18	44	Mar-19	43	Mar-19	69	160%
Apr-18	62	Apr-19	61	Apr-19	73	120%
May-18	73	May-19	72	May-19	83	115%
Jun-18	88	Jun-19	86	Jun-19	84	98%
Jul-18	76	Jul-19	75	Jul-19	63	84%
Aug-18	81	Aug-19	79	Aug-19	69	87%
Sep-18	62	Sep-19	61	Sep-19	75	123%
Oct-18	67	Oct-19	66	Oct-19	80	121%
Nov-18	56	Nov-19	55	Nov-19	83	151%
Dec-18	77	Dec-19	76	Dec-19	69	91%
Total	807	Total	793	Total	879	111%

*Data predicted form Average PIA 2013 - 2018

AM 10 Carbon Emissions

The result of reduced congestion is a reduction in fuel consumption and CO2 emissions.

Data has been collected from the DfT on traffic flow sites on major and minor roads in Worcestershire that identifies 301 matching locations as shown on Table 54 and 55 for Year 1 with traffic flows by vehicle type. The data show that traffic levels have remained the same between 2018 to 2019.

The average traffic speed from the DfT on Table 56 has been used for comparison. The DfT carbon tool has been used the traffic flow and average speed to predict carbon emissions that is summarized in Table 57.

Table 58 compares output pre-Permit Scheme and post-Permit Scheme.

The summary shows that in Year 1 there has been increase in traffic speed of 2% and carbon emissions have increased by 1%. The increase in carbon emissions is due to the increase in traffic speeds of heavy vehicles.

As the Permit Scheme progresses the Highway Authority will continue to work with Utilities to reduce disruption wherever possible and monitor these elements.

Table 54(a) AM 10 Carbon Emissions - DfT Traffic Count Sites Year 1										
Ref No	DfT Traffic Count Sites									
	CP	Region	Local Authority	Road	Road Category	Easting	Northing	Start Junction	End Junction	LinkLength km
1	6393	10	69	A38	PA	397020	275000	A38 Birmingham Rd	M5	1.2
2	6394	10	69	A38	PA	393896	268125	M5	B4094	3.9
3	6396	10	69	A38	PA	386785	240436	LA Boundary	A4104	3.3
4	6467	10	69	A44	PA	385958	254123	A38	A4440	2.6
5	7099	10	69	A44	PA	390428	253830	A4440	A4538	2.7
6	7147	10	69	A38	PA	390000	263900	A442	B4065	1.6
7	7159	10	69	A449	PA	384760	279640	B4189	LA Boundary	3.3
8	7161	10	69	A449	PA	384920	259360	A449 (principal)	A4133	3.8
9	7164	10	69	A450	PA	387420	275000	A448	A456	6.5
10	7165	10	69	A451	PA	383482	277547	A456	A449	1.2
11	7206	10	69	A491	PA	395000	276120	B4551	B4091	1.6
12	7643	10	69	A4104	PA	380000	239900	A449	A38	11.3
13	7675	10	69	A4538	PA	388280	260000	M5	A38	3.2
14	7836	10	69	A442	PA	385000	272500	A450	A449	1.2
15	7838	10	69	A449	PA	384384	272401	A450	A442	1.2

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16	8160	10	69	A451	PA	383480	276590	A448	A456	0.5
17	8174	10	69	A449	PA	377535	246422	B4211 mid-junction	B4503	1.1
18	8373	10	69	A38	PA	384974	255472	A38 The Tything	A449	0.6
19	8388	10	69	A44	PA	384534	254804	A443/A44 Tybridge St	A44 New Road	0.2
20	8454	10	69	A435	PA	407832	274878	M42	Maypole Lane/Druids Lane roundabout	6.3
21	16443	10	69	A44	PA	384500	254620	A449	A44 Hylton Rd	0.4
22	17107	10	69	A442	PA	380352	279997	Honeybrook Lane, Kidderminster	LA Boundary	6.1
23	17108	10	69	A443	PA	380000	263400	A451	A4133	7.4
24	17121	10	69	A449	PA	383957	277831	A456	A451	0.8
25	17123	10	69	A449	PA	385005	259160	A449 (principal)	A449 spur to A4536	2.4
26	17141	10	69	A456	PA	374247	273874	A4117	B4190	3.4
27	17588	10	69	A4025	PA	382000	270500	Sandy Lane	A4025 Gilgal	1.5
28	17643	10	69	A4538	PA	390000	254830	A422	B4636	2.4
29	17829	10	69	A38	PA	385220	254800	A44	A38 St Nicholas St	0.8
30	17862	10	69	A38	PA	396340	270000	Stoke Rd/ Charford Rd	A448	1.7
31	17908	10	69	A449	PA	378000	247300	B4503	Richmond Rd/Pickersleigh Ave	1.3
32	17909	10	69	A456	PA	382500	276600	A4535	A442	0.6
33	17910	10	69	A4535	PA	382132	276554	A456	A442	0.8
34	18008	10	69	A4440	PA	385240	251670	A449	A38	2.2
35	18144	10	69	A4133	PA	384476	264000	A4133 School Bank/Holt Fleet Rd	A449	1.0
36	18395	10	69	A449	PA	384670	264000	A4133	A4133	1.0
37	18475	10	69	A44	PA	412000	236830	B4632	LA Boundary	3.7
38	18501	10	69	A4184	PA	403940	245000	B4084	A4184	3.2
39	18502	10	69	A456	PA	378000	274420	B4190 Long Bank	B4195 Stourport Rd	2.9
40	26398	10	69	A38	PA	388140	260000	Sling Lane, Worcester	A4538	1.4
41	26399	10	69	A38	PA	385364	250000	A4104	A38 principal	10.9
42	27169	10	69	A441	PA	405660	258000	A422	B4090 Salt Way	3.0
43	27179	10	69	A448	PA	390146	272741	A450	Whitford Rd, Bromsgrove	9.1
44	27184	10	69	A449	PA	383670	275030	A442	A448	1.9
45	27185	10	69	A449	PA	384400	265000	A4133	A4025	3.9
46	27188	10	69	A451	PA	386900	280000	Park Gate Rd, Kidderminster	LA Boundary	4.1
47	27205	10	69	A456	PA	382916	276776	A442	A451	0.8
48	27703	10	69	A4103	PA	380000	252620	LA boundary	A44/A4440	8.4
49	27705	10	69	A4104	PA	390000	242670	A38	B4080	7.4

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50	27851	10	69	A449	PA	384050	278000	A451	A451	0.4
51	27947	10	69	A442	PA	382540	276800	A456	A4535	0.4
52	27948	10	69	A451	PA	382700	275750	A4535	A442	0.8
53	28024	10	69	A4536	PA	386950	258700	A449 spur	A38	0.5
54	28188	10	69	A456	PA	383400	276900	A451 Blackwell St	A451 The Ringway	0.2
55	28204	10	69	A4189	PA	407694	266760	B4497	LA Boundary	1.8
56	28256	10	69	A451	PA	381249	271506	A4025	A4025	0.3
57	28257	10	69	A4025	PA	381358	271350	A451	A4025 Gilgal	0.3
58	28391	10	69	A44	PA	384300	254710	A449	A443	0.4
59	28403	10	69	A44	PA	384670	254940	A449	A44 Deansway/Bridge St	0.2
60	28405	10	69	A451	PA	381058	271241	Bridge St	High St	0.5
61	28466	10	69	A441	PA	403500	274000	M42	B4120	1.0
62	28549	10	69	A456	PA	392000	281190	Monument Lane	LA Boundary	2.5
63	28559	10	69	A38	PA	386470	241430	A4104	A4104	0.1
64	28813	10	69	A4440	PA	387550	252550	A4440	M5	0.5
65	36404	10	69	A38	PA	384670	256000	A449	A449	1.1
66	37155	10	69	A422	PA	400000	256260	A4538	A441	18.0
67	37202	10	69	A443	PA	382770	260000	A4133	Bramley Ave, Worcester	7.1
68	37209	10	69	A448	PA	400000	269000	A38	B4096/B4184	5.9
69	37210	10	69	A448	PA	384000	276300	A451	A449	0.6
70	37214	10	69	A449	PA	384500	278350	A451	B4189	0.8
71	37216	10	69	A449	PA	384540	258000	A38	Bevere Lane	2.1
72	37219	10	69	A450	PA	385000	272340	A449	A442	0.5
73	37234	10	69	A456	PA	390000	279700	A450	A491	1.7
74	37259	10	69	A491	PA	396600	276000	A38/M5	B4551	0.9
75	37756	10	69	A4133	PA	385000	263840	A449	A38	3.8
76	37778	10	69	A4538	PA	389400	257000	B4636	M5	1.2
77	37929	10	69	A442	PA	387960	270000	Doverdale Lane, Droitwich	A450	8.8
78	38100	10	69	A38	PA	385530	253000	A4440	A44	3.0
79	38256	10	69	A438	PA	380000	234908	B4208 (south)	B4211	8.1
80	38258	10	69	A4133	PA	384607	263705	A4133 Holt Fleet Road roundabout	A449	0.2
81	38312	10	69	A38	PA	396840	272403	Birmingham Road non-A38	M42	1.1
82	38459	10	69	A44	PA	384897	254796	A44 All Saints Rd	A38	0.7
83	38603	10	69	A4184	PA	403320	242000	A46(T)	B4035	1.4
84	38608	10	69	A38	PA	397480	276000	M5	Gannow Rd	2.1
85	38610	10	69	A491	PA	391370	281300	A456	LA Boundary	0.5
86	46402	10	69	A38	PA	388660	261000	A4538	A38 principal/Copcut Lane	1.3
87	46477	10	69	A44	PA	408600	239030	A46(T)	B4632	6.7

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88	46479	10	69	A44	PA	380000	254640	LA boundary	A4103	11.7
89	47167	10	69	A435	PA	409100	270000	Slip roads to Ullenhall Lane	M42	5.2
90	47178	10	69	A441	PA	405000	260600	B4090 Salt Way	Dagtail Lane, Redditch	3.7
91	47181	10	69	A442	PA	382000	277700	A4535	B4190	1.2
92	47182	10	69	A443	PA	369856	268337	A456	A451	12.5
93	47195	10	69	A449	PA	384240	277000	A448	A456	0.9
94	47197	10	69	A449	PA	388000	257800	A449 spur	M5	2.7
95	47199	10	69	A451	PA	380000	270500	B4194	A4025	1.8
96	47215	10	69	A456	PA	384000	277100	A451	A449	0.9
97	47216	10	69	A456	PA	368729	271365	A443	A4117	11.7
98	47241	10	69	A448	PA	396500	270800	B4091	A38	0.9
99	47681	10	69	A38	PA	395368	268635	B4094	Stoke Rd/ Charford Rd	2.2
100	47847	10	69	A456	PA	391290	280810	A491	A491	0.7
101	47888	10	69	A450	PA	386000	273540	A442	A448	2.6
102	47889	10	69	A4023	PA	404666	267651	B4160	A441	0.5
103	48184	10	69	A448	PA	395921	270888	B4091 Hanover St	B4091 Stourbridge Rd	0.7
104	48240	10	69	A438	PA	386000	233400	B4211	LA Boundary	4.2
105	48478	10	69	A44	PA	384605	254870	A449 Croft Rd	A44 Bridge St	0.2
106	56395	10	69	A38	PA	384800	257000	A449	CHECKETTS LANE	1.0
107	56403	10	69	A38	PA	385220	254400	A44	A44	0.1
108	57143	10	69	A441	PA	404000	268905	B4184 Middlehouse Lane	B4101	1.2
109	57155	10	69	A448	PA	385500	275200	Spennells Valley Road roundabout	A450	2.8
110	57162	10	69	A449	PA	377468	245000	Green Lane	B4211 mid-junction	3.7
111	57177	10	69	A441	PA	403055	275000	B4120	LA Boundary	2.2
112	57181	10	69	A456	PA	380000	275940	B4190	B4549	1.5
113	57189	10	69	A451	PA	376000	266260	A443	B4194	6.6
114	57196	10	69	A449	PA	384281	269699	A4025	A450	4.0
115	57214	10	69	A449	PA	384300	254000	Canada Way	A44	1.8
116	57232	10	69	A491	PA	392000	279487	B4091	A456	6.2
117	57492	10	69	A4133	PA	384510	263250	A4133 School Bank/Holt Fleet Rd	A449	1.0
118	57518	10	69	A449	PA	384560	255220	A44	A38	0.7
119	57617	10	69	A4133	PA	384000	263620	A443	A4133 School Bank roundabout	3.3
120	57619	10	69	A451	PA	383450	276000	A442	A448	1.3
121	57621	10	69	A4025	PA	381420	271610	Worcester Rd	Vale Rd	0.3
122	57699	10	69	A4104	PA	393400	245000	B4080	A44	3.1

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123	57976	10	69	A38	PA	396802	272000	A448	Birmingham Rd	1.5
124	57996	10	69	A4535	PA	382300	276000	A451	A456	0.9
125	58052	10	69	A44	PA	384710	254860	A44 North Parade	A44 All Saints Rd	0.1
126	58054	10	69	A4025	PA	381000	271300	Bridge St	Lion Hill	0.3
127	58088	10	69	A449	PA	384570	263000	A4133	A4133	1.0
128	58126	10	69	A441	PA	403350	272000	B4101	M42 jn2	4.8
129	58133	10	69	A4023	PA	408000	268160	Alders Drive	LA Boundary	0.6
130	58372	10	69	A4440	PA	386000	252000	A38(T)	A44	2.5
131	70118	10	69	A44	PA	384640	254782	Hylton Rd	North Parade	0.1
132	73929	10	69	A4117	PA	372920	274540	LA Boundary	A456	1.9
133	74028	10	69	A448	PA	404400	264380	A441	LA Boundary	0.2
134	74029	10	69	A422	PA	405520	257120	A441	LA Boundary	0.1
135	74105	10	69	A38	PA	385305	251595	A38 Trunk/Taylors Lane	A4440	0.4
136	74209	10	69	A4112	PA	359260	267000	LA Boundary	LA Boundary	4.3
137	74212	10	69	A449	PA	376600	240310	LA boundary	A4104	1.0
138	74213	10	69	A438	PA	377000	236530	LA boundary	B4208 (south)	2.3
139	75115	10	69	A4536	PA	386930	258200	B4450	A449 spur	0.5
140	75116	10	69	A449	PA	386880	258450	A449 main route	A4536	0.3
141	75117	10	69	A449	PA	386950	258240	A449 spur	A449 spur	0.3
142	75118	10	69	A449	PA	387000	258060	A4536	A449 main route	0.3
143	76059	10	69	A38	PA	388950	261380	A38(T)/Copcut Lane	B4090	0.5
144	77234	10	69	A448	PA	395421	270757	Whitford Rd	B4091 Hanover St	1.1
145	77235	10	69	A38	PA	396960	273700	M42	A38 Halesowen Rd	1.7
146	77269	10	69	A456	PA	391600	281040	A491	Monument Lane	0.3
147	77270	10	69	A38	PA	398500	277180	Gannow Rd	LA Boundary	0.9
148	77310	10	69	A442	PA	389000	264590	A38	Doverdale Lane	1.5
149	77319	10	69	A449	PA	377200	241500	A4104	Green Lane, Great Malvern	1.6
150	77320	10	69	A449	PA	379000	248170	Richmond Rd/Pickersleigh Ave	B4208 Townsend Way	1.1
151	77351	10	69	A4025	PA	383000	269680	A449	Sandy Lane, Kidderminster	2.9
152	77353	10	69	A448	PA	384500	276000	A449	Spennells Valley Road roundabout	1.0
153	77354	10	69	A456	PA	384500	277170	A449(T)	Husum Way	0.9
154	77355	10	69	A456	PA	387000	277770	Husum Way, Kidderminster	A450	5.5
155	77356	10	69	A451	PA	384810	278360	A449(T)	Park Gate Rd	0.6
156	77357	10	69	A442	PA	381700	278150	B4190	Honeybrook Lane	0.2
157	77385	10	69	A456	PA	379650	275000	B4195 Stourport Rd	B4190 Kidderminster Rd	1.7
158	77440	10	69	A441	PA	404260	264000	Dagtail Lane, Redditch	A448	1.0

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159	77442	10	69	A4023	PA	405500	268020	A441	Alders Drive	3.3
160	77443	10	69	A441	PA	404620	268000	A4023	B4184 Middlehouse Lane	1.2
161	77525	10	69	A449	PA	383660	252500	A4440	Canada Way	1.1
162	77527	10	69	A44	PA	382250	254600	A4440	Tudor Way	0.7
163	77529	10	69	A38	PA	387000	259020	A4536	Sling Lane	0.5
164	77530	10	69	A449	PA	384800	259140	Bevere Lane	A449(T)	0.8
165	77531	10	69	A443	PA	384000	255410	Bramley Avenue	A44	2.3
166	80484	10	69	A44	PA	404015	246133	A44	A46(T)	0.2
167	80627	10	69	A456	PA	381654	276241	B4549	A4535	0.9
168	80871	10	69	A4104	PA	394890	247010	B4084	A44	2.6
169	80872	10	69	A44	PA	392300	250800	A44	A4104	7.6
170	80873	10	69	A44	PA	400000	247140	A4104	A44	10.2
171	81336	10	69	A448	PA	404446	265845	Bromsgrove and Alvechurch Highway	A4189	0.7
172	81337	10	69	A441	PA	404493	265919	Bromsgrove and Alcester Highway	Alvechurch and Bromsgrove Highway	0.6
173	81338	10	69	A448	PA	404353	265707	A448	A441	1.0
174	81340	10	69	A448	PA	404366	266023	A448	A441	0.8
175	81342	10	69	A441	PA	404672	265710	A441	A4189	1.0
176	81344	10	69	A441	PA	405000	267420	Alvechurch Highway	A4023	2.0
177	81345	10	69	A4189	PA	406601	266937	Alvechurch Highway	B4497	2.5
178	81349	10	69	A441	PA	404800	264710	A448	Bromsgrove Highway	1.8
179	81392	10	69	A448	PA	404000	266170	B4096/B4184	Bromsgrove Highway	3.3
180	89035	10	69	A451	PA	382387	275149	A4535	WALTER NASH ROAD WEST	1.0
181	89036	10	69	A451	PA	381677	273121	A4535	WALTER NASH ROAD WEST	3.3
182	89037	10	69	4420	PA	382646	274820	A4535	WALTER NASH ROAD WEST	1.5
183	89038	10	69	A442	PA	383054	275340	A449	A451	0.9
184	89039	10	69	A442	PA	383293	274854	A449	A451	0.2
185	89040	10	69	A449	PA	384000	273800	A442/Wilden Lane roundabout	FREDERICK ROAD (ROAD 1)	1.8
186	89218	10	69	A38	PA	385752	258433	A38 principal	A4536	2.6
187	89219	10	69	A38	PA	391228	264708	A38 principal	M5 jn5	1.9
188	89299	10	69	A38	PA	388300	263000	A4133	A442	2.3
189	89308	10	69	A38	PA	388000	262445	B4090	A4133	2.5
190	89348	10	69	A435	PA	409048	268642	A4023	Slip roads to Ullenhall Lane	0.9

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191	90165	10	69	A38	PA	384940	255200	A38 Sansome St/City Walls Rd	A449 Castle St	0.6
192	99078	10	69	A456	PA	361750	268490	LA Boundary	A443	3.2
193	99524	10	69	A44	PA	383000	254295	Tudor Way	A449	1.9
194	99928	10	69	A4440	PA	383000	253280	A4103	A449	3.2
195	99929	10	69	A4440	PA	387501	252844	A44S	A44N	0.7
196	99930	10	69	A4440	PA	388000	254000	A44	A422	1.6
197	99931	10	69	A4440	PA	388330	254630	A422	B4636	4.3
198	800180	10	69	B4080	MB	392405	236915	Church Street	B4080	0.4
199	800181	10	69	B4196	MB	381062	264636	A443	Hampstall Lane	5.2
200	800314	10	69	B4504	MB	402969	265460	Feckenham Road	A448	1.7
201	800315	10	69	B4096	MB	400863	276076	Parsonage Drive	B4120	1.1
202	801211	10	69	Kersoe Lane	MCU	398731	240597	The Groaten	Main Street	6.6
203	801213	10	69	Greenland	MCU	404712	266048	A4189	A441	1.0
204	801214	10	69	Blacksmiths Lane	MCU	407919	246166	B4085	Farm Lane	0.4
205	801215	10	69	Clows Top Lane	MCU	368980	272527	A456	Clows Top Road	2.1
206	801216	10	69	Dunley Road	MCU	377923	270033	A451	A456	7.3
207	801218	10	69	Madresfield Road	MCU	380495	246638	B4208	A449	4.1
208	801219	10	69	Shelsey Kings	MCU	372873	264311	B4203	Shelsey Kings	2.5
209	801221	10	69	Stocks Road	MCU	376253	252265	Un-named	Sherridge Road	3.2
210	801223	10	69	Blacksmiths Bank	MCU	382816	266628	Tattle Street	Lineholt Lane	0.3
211	801225	10	69	Dorsington Street	MCU	413244	248906	Bragginton Lane	Dorsington Street	0.9
212	801226	10	69	Hill Furze Road	MCU	400889	248755	Fladbury Hill	Leys Road	4.6

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213	80137 7	10	69	The Link	MCU	404112	242203	A46	Davies Road	0.5
214	80289 6	10	69	Greenfield s Road	MCU	383872	240238	A4104	Upper Hook Road	1.7
215	80289 7	10	69	Manor Lane	MCU	384613	269975	A449	Crown Lane	0.8
216	80289 8	10	69	The Poplars	MCU	406963	243246	Seward Road	High St	0.1
217	80289 9	10	69	Baughton Lane	MCU	390081	240700	Hill View Road	A4104	2.1
218	80290 0	10	69	Timberho nger Lane	MCU	392191	269552	Berry Lane	Whitford Road	3.5
219	80290 1	10	69	Wassell Green Lane	MCU	392613	281706	A456	Pedmore Lane	0.6
220	80290 2	10	69	Monsell Lane	MCU	384243	239522	B4211	A4104	0.7
221	80290 3	10	69	Waresley Court Road	MCU	384052	270303	Waresley Road	Worcester Road	0.7
222	80290 4	10	69	Lower Bentley Lane	MCU	398147	265979	Woodgate Road	Black Lake Lane	1.9
223	80290 5	10	69	Apple Tree Walk	MCU	384358	263713	A4133	Woodhall Lane	1.2
224	80290 6	10	69	Avenue Road	MCU	385088	238264	B4211	B4211	4.7
225	80290 9	10	69	Perryfield s Road	MCU	394892	271751	Stourbridge Road	A448	1.9
226	80459 3	10	69	Rose Avenue	MCU	386182	255778	B4637	B4637	0.7
227	80459 4	10	69	Moorland s Road	MCU	377813	246935	A449	Cockshot Road	0.4
228	80459 5	10	69	Grove Crescent	MCU	382649	254407	A44	Broadway Grove	0.2
229	80459 6	10	69	Grovewo od Road	MCU	379504	247881	Townsend Way	Sandy's Road	0.6

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230	80459 7	10	69	Woodfield Crescent	MCU	382594	276346	Castle Road	Hume Street	0.6
231	80459 8	10	69	Drawbridge Road	MCU	410361	277900	Haslucks Green Road	Haslucks Green Road	0.8
232	80459 9	10	69	Castle Road	MCU	383009	276249	New Road	Park Lane	0.2
233	80460 1	10	69	Albert Road North	MCU	377959	246123	B4211	A449	1.0
234	80460 2	10	69	Elgar Avenue	MCU	379449	246588	Mandresfield Road	North End Lane	0.9
235	80460 3	10	69	King Edward Street	MCU	395678	272111	Broad Street	Perryfields Road	0.3
236	80460 4	10	69	Barnes Way	MCU	385660	252779	Aldersey Road	Bunns Road	0.3
237	80460 5	10	69	Cockshot Road	MCU	377940	246883	Moorlands Road	Albert Road North	0.6
238	80460 6	10	69	Hermitage Way	MCU	380462	270447	B4196	B4196	1.2
239	80460 7	10	69	Watkins Way	MCU	379332	245230	B4211	B4208	0.5
240	80460 8	10	69	Crumpfield's Lane	MCU	401650	265863	Green Lane	Norgrove Lane	1.7
241	80460 9	10	69	Harport Road	MCU	405404	266270	Oakenshaw Road	Oakenshaw Road	0.8
242	80461 0	10	69	Lily Green Lane	MCU	402221	267959	B4184	Salters Lane	0.2
243	80461 1	10	69	Shawhurst Lane	MCU	408286	276678	Alcester Road	Hollywood Lane	1.1
244	80461 3	10	69	Peterbrook Road	MCU	410085	277676	High Street	Truemans Heath Lane	1.8
245	80461 4	10	69	Chestnut Road	MCU	404130	262126	High Street	Avenue Road	0.3
246	80461 5	10	69	Bateman's Lane	MCU	407366	276270	Silver Street	Dark Lane	1.3
247	80539 0	10	69	New Chawson Lane	MCU	388235	262257	Copcut Lane	Ombersley Way	1.1

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248	80541 2	10	69	Lickey Square	MCU	398996	274808	B4096	Mearse Lane	0.5
249	80575 0	10	69	School Lane	MCU	381771	263018	A443	A4133	0.2
250	80580 5	10	69	Church Road	MCU	380034	237358	B4208	B4208	3.9
251	80580 7	10	69	Main Street	MCU	405478	245938	Laurels Road	Three Cocks Lane	0.4
252	80601 4	10	69	B4204	MB	380798	257524	A443	B4197	9.8
253	80603 7	10	69	C5 Kemerto n Road	MCU	394530	237187	B4079	A46	6.5
254	80606 4	10	69	Hopehou se Lane	MCU	375598	259826	B4204	B4204	2.7
255	80619 9	10	69	Chapel Street	MCU	407172	243026	High Street	Willersey Lane	1.5
256	94880 7	10	69	B4194	MB	379792	269844	A451	B4196	1.4
257	94880 9	10	69	B4197	MB	375537	265099	A443	B4204	5.8
258	94881 2	10	69	B4092	MB	404084	261149	A441	Salt Way	1.4
259	94881 4	10	69	B4202	MB	371910	270452	A456	A443	6.4
260	94881 5	10	69	B4195	MB	379513	273908	A456	A451	3.3
261	94881 7	10	69	B4214	MB	361002	266475	B4204	Old Road	17.5
262	94882 1	10	69	B4084	MB	390677	249348	Wadborough Road	B4084 Egdon Lane	1.4
263	94882 3	10	69	B4504	MB	403066	266683	A448	A441	3.7
264	94882 6	10	69	B4084	MB	391818	251125	A44	B4084	2.5
265	94882 7	10	69	B4632	MB	408494	238810	A44	Snowshill Road	1.8
266	94882 9	10	69	B4204	MB	360575	267955	A456	B4203	11.8
267	94883 0	10	69	B4101	MB	404953	269538	A441	A435	5.5

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268	94883 1	10	69	B4638	MB	387927	256562	B4639	B4637	1.2
269	94883 2	10	69	B4551	MB	396227	279919	A456	A491	7.1
270	94883 6	10	69	B4637	MB	386392	255561	B4638	B4450	2.5
271	94883 9	10	69	Gilberts End Road	MCU	382858	241889	B4209	B4208	3.0
272	94884 5	10	69	Crown Lane	MCU	391347	266659	A38	Crutch Lane	2.4
273	94884 6	10	69	Ravenha yes Lane	MCU	399109	280808	Church Lane	Illey Lane	1.0
274	94884 7	10	69	Stocks Road	MCU	373466	250977	B4220	Sherridge Road	9.8
275	94885 5	10	69	Blackwell Road	MCU	400159	272807	B4120	Wheeley Road	2.5
276	94885 8	10	69	Pound Green	MCU	375337	278014	B4194	Pound Green Airfield	1.0
277	94886 3	10	69	Beacon Hill	MCU	398857	276751	Whetty Lane	Hazel Road	0.5
278	94886 4	10	69	Watery Lane	MCU	383424	254276	A44	Bransford Road	0.2
279	94886 7	10	69	Northwic k Road	MCU	384269	257935	Beckett Road	Green Lane	1.0
280	94886 8	10	69	Westwood d Road	MCU	388923	264566	A442	Westwood Way	1.8
281	94887 0	10	69	Tennyso n Way	MCU	384935	276438	Borrington Road	Husum Way	0.7
282	94887 3	10	69	Hoo Road	MCU	383510	275885	A448	A449	1.6
283	94887 6	10	69	Bordersle y Lane	MCU	404260	268694	A441	End of Road	0.5
284	94888 1	10	69	Church Road	MCU	393224	273041	Priory Road	Woodland Road	0.5
285	94888 2	10	69	Egg Lane	MCU	384946	259544	A449	Vicarage Lane	0.4
286	94888 6	10	69	Northwood d Lane	MCU	378038	276981	B4190	End of Road	3.3

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287	94888 7	10	69	Old Worcester Road	MCU	384587	270834	A449	A449	1.6
288	94888 9	10	69	Millenium Way	MCU	404453	241929	A46	Enterprise Way	0.5
289	94889 2	10	69	Axboroug h Lane	MCU	385453	279763	A449	A451	1.3
290	94889 5	10	69	Ryall Road	MCU	386247	240671	A4104	A38	1.0
291	94889 6	10	69	Westonh all Road	MCU	394582	266364	B4091	Shaw Lane	1.4
292	94889 8	10	69	Nixon Court	MCU	383644	249695	Lower Ferry Road	End of Road	0.1
293	94890 1	10	69	Fordhous e Road	MCU	396558	270394	New Road	A448	0.7
294	94890 3	10	69	Berryfield Road	MCU	402349	243385	B4084	Evendene Road	1.7
295	94890 5	10	69	Unicorn Hill	MCU	403971	267640	Hewell Road	Easemore Road	0.4
296	94890 7	10	69	Old Worcester Road	MCU	384303	270015	Old Worcester Road	Waresley Court Road	1.0
297	94890 8	10	69	Oldington Lane	MCU	381884	273567	A451	Parker Place	0.3
298	94890 9	10	69	Carlyle Road	MCU	396639	269491	New Road	Stoke Road	0.3
299	94891 5	10	69	Claughto n Street	MCU	382139	276108	Greatfield Road	Washington Street	0.3
300	94891 9	10	69	Hever Avenue	MCU	388387	256528	Carisbrooke Avenue	Powderham Avenue	0.2
301	94892 1	10	69	Oaklands	MCU	387804	255112	Leopard Rise	End of Road	0.2
Totals									687.2	

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Table 55(a) AM 10 Carbon Emissions - Traffic Count Data													
Year 1													
2018 Flow Data													
Pre-scheme													
Ref No	PedalCycles	Motorcycles	Cars Taxis	BusesCoaches	LightGoods Vehicles	V2AxleRigidHGV	V3AxleRigidHGV	V4or5AxleRigidHGV	V3or4Axle ArticHGV	V5AxleArticHGV	V6orMoreAxle ArticHGV	AllHGVs	AllMotorVehicles
1	6	142	22,177	76	3,993	475	84	74	26	155	129	944	27,332
2	11	107	18,266	120	2,866	251	71	48	21	102	50	543	21,903
3	29	119	7,847	26	1,622	172	49	56	25	49	82	434	10,048
4	118	84	12,080	144	1,551	124	25	14	20	26	44	254	14,113
5	15	43	7,881	36	1,473	130	48	33	24	25	47	307	9,740
6	3	104	14,923	35	2,806	429	104	100	57	100	275	1,065	18,933
7	4	153	10,491	15	1,958	229	38	85	22	103	79	556	13,173
8	25	214	25,260	55	4,265	467	130	144	58	204	281	1,284	31,077
9	17	46	7,847	25	1,817	160	45	30	40	29	71	376	10,111
10	20	86	9,361	26	2,054	100	35	56	6	4	32	233	11,760
11	-	58	17,458	30	3,810	476	103	202	47	89	474	1,390	22,746
12	5	13	2,298	36	423	39	7	4	3	1	5	60	2,829
13	22	107	8,289	17	1,574	193	50	25	11	36	121	435	10,422
14	9	35	3,976	13	741	114	34	24	17	47	47	283	5,047
15	20	105	12,500	36	2,166	305	95	56	47	160	127	790	15,597
16	22	172	23,619	90	3,105	361	76	60	40	167	149	853	27,839
17	75	71	9,112	80	1,367	105	20	8	4	10	4	151	10,782
18	89	78	5,429	18	734	43	34	4	-	2	1	85	6,342
19	66	242	18,239	220	2,168	140	28	42	12	36	25	283	21,152
20	12	206	29,352	78	4,873	878	108	142	83	51	172	1,433	35,942
21	144	178	17,674	215	2,859	143	35	34	3	10	39	264	21,190
22	10	107	6,653	58	1,308	123	30	70	12	26	109	370	8,496

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23	6	53	6,300	26	1,120	119	21	147	16	67	76	445	7,943
24	28	65	10,572	84	1,568	215	41	25	27	52	58	418	12,707
25	1	161	16,022	33	3,829	362	92	126	29	96	286	991	21,036
26	13	100	8,689	34	1,690	127	44	28	9	53	52	312	10,826
27	34	94	10,257	17	2,032	276	93	134	11	24	34	573	12,974
28	5	82	8,044	18	1,904	330	92	101	35	74	151	783	10,831
29	157	201	18,965	143	2,464	188	21	12	3	3	14	241	22,014
30	17	123	17,870	35	2,478	213	56	40	6	82	89	486	20,992
31	52	85	11,843	58	1,655	90	20	17	8	9	16	159	13,801
32	45	97	15,082	148	1,697	140	28	22	16	46	33	285	17,309
33	46	35	5,019	50	595	16	4	6	3	-	1	30	5,729
34	33	201	27,851	53	4,533	420	141	153	81	283	262	1,339	33,978
35	21	13	3,333	32	741	103	10	7	6	14	23	163	4,282
36	2	194	21,707	57	3,724	586	139	113	60	75	571	1,543	27,224
37	24	90	6,115	39	1,264	222	39	50	27	76	70	484	7,991
38	42	57	9,632	79	1,104	90	18	23	5	4	3	143	11,016
39	4	69	10,614	57	1,718	166	80	97	23	53	85	504	12,962
40	20	86	11,745	119	1,538	163	30	19	24	28	20	283	13,770
41	40	82	7,681	88	1,328	106	47	90	21	16	16	298	9,476
42	25	59	3,059	24	572	41	9	22	4	10	-	86	3,800
43	14	120	10,334	37	1,727	153	41	47	12	49	46	348	12,567
44	47	74	8,582	39	2,268	180	61	80	4	19	58	402	11,365
45	29	181	23,898	88	4,289	488	173	143	115	293	334	1,546	30,003
46	4	106	9,534	58	1,312	100	14	5	2	12	9	142	11,152
47	44	190	24,909	221	3,739	274	87	120	37	35	167	719	29,778
48	45	74	8,882	37	1,565	180	30	39	26	97	104	476	11,033

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49	15	40	3,380	8	735	126	20	42	12	42	45	288	4,451
50	28	118	15,889	95	2,594	299	62	63	25	77	51	578	19,274
51	23	119	17,844	76	2,032	181	65	60	29	85	81	501	20,571
52	67	204	21,128	183	2,977	291	69	33	7	75	62	537	25,031
53	47	48	6,786	9	927	124	23	9	5	23	21	204	7,974
54	16	165	25,619	99	2,882	316	91	77	52	167	130	834	29,598
55	11	37	14,103	2	1,788	170	27	21	3	20	18	258	16,188
56	33	59	15,447	76	1,946	174	45	54	4	16	15	308	17,836
57	79	180	11,511	80	1,779	162	28	24	11	20	15	259	13,809
58	116	183	17,802	255	2,156	149	41	43	6	18	20	276	20,673
59	48	144	15,869	302	2,314	99	25	29	7	8	17	184	18,812
60	18	28	8,535	69	1,114	106	25	11	2	-	-	144	9,890
61	3	90	19,295	34	3,022	280	58	85	42	124	96	684	23,125
62	64	249	23,370	74	3,870	359	96	69	46	139	117	825	28,389
63	32	84	8,391	67	1,659	188	46	64	32	88	106	522	10,723
64	11	118	29,299	129	5,837	777	130	94	98	165	463	1,727	37,110
65	287	150	16,542	210	2,128	202	45	20	13	15	12	307	19,338
66	1	51	4,737	44	762	85	23	25	14	21	16	184	5,778
67	17	54	7,755	40	1,164	87	16	95	11	24	11	244	9,256
68	4	89	22,979	70	3,727	424	126	67	13	150	189	969	27,834
69	68	41	11,634	155	1,210	93	15	8	7	14	16	152	13,192
70	18	88	10,361	45	1,915	232	60	42	29	94	74	530	12,939
71	50	87	10,202	47	1,293	108	39	21	10	18	8	203	11,832

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72	9	51	7,523	5	1,417	169	30	35	23	25	26	309	9,305
73	91	233	23,745	52	4,097	506	85	56	57	174	186	1,064	29,192
74	2	125	22,424	71	4,549	485	88	293	56	264	199	1,383	28,552
75	6	94	7,586	48	1,395	153	41	41	19	24	162	441	9,563
76	5	113	11,610	72	2,431	415	128	72	35	149	106	905	15,131
77	6	37	5,204	33	1,048	150	21	61	25	73	44	373	6,696
78	73	112	12,805	89	1,557	85	21	5	2	10	15	138	14,701
79	4	27	1,259	7	364	24	5	2	4	-	1	37	1,695
80	6	81	11,904	43	1,983	139	60	66	16	85	100	466	14,477
81	28	107	26,484	138	4,620	395	90	95	30	159	124	894	32,242
82	76	203	15,357	191	2,940	266	54	21	8	19	25	393	19,083
83	29	36	5,804	46	1,186	127	16	17	7	9	8	184	7,256
84	22	144	17,289	109	3,011	285	49	27	21	30	146	559	21,112
85	37	134	22,737	41	3,964	410	101	100	51	101	340	1,103	27,979
86	78	176	21,645	150	3,118	309	46	60	20	94	88	617	25,706
87	4	81	7,178	31	1,304	211	41	52	42	35	151	531	9,125
88	6	61	4,143	44	668	92	19	60	23	86	56	336	5,252
89	3	247	31,824	61	5,790	925	168	99	132	261	1,026	2,611	40,532
90	26	24	4,182	15	676	58	19	41	6	9	4	136	5,033
91	80	236	13,694	42	2,109	131	37	66	7	57	101	400	16,481
92	5	38	2,391	21	520	65	29	43	7	89	46	279	3,247
93	72	82	11,742	44	2,226	128	66	27	21	40	63	345	14,438
94	1	112	19,528	55	3,663	537	155	209	105	373	313	1,692	25,050
95	42	43	5,390	59	847	73	30	2	3	2	4	114	6,454
96	24	80	13,097	32	2,045	220	68	61	33	92	87	561	15,815

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97	1	14	2,267	23	391	64	12	43	7	30	73	228	2,923
98	10	41	10,266	28	1,276	122	27	26	6	31	27	238	11,849
99	24	91	13,954	38	2,014	206	47	23	22	81	81	459	16,558
100	39	208	26,523	95	4,826	606	97	84	69	249	192	1,296	32,949
101	18	84	8,525	8	2,041	293	36	81	14	49	39	513	11,171
102	5	85	21,695	27	2,468	130	12	13	19	15	21	209	24,484
103	45	96	12,776	222	1,678	170	25	16	15	40	34	299	15,071
104	14	50	2,915	13	639	70	1	-	2	2	1	77	3,694
105	101	162	20,628	201	2,379	206	42	32	12	23	23	338	23,709
106	174	174	11,902	281	2,009	121	28	18	2	3	10	183	14,549
107	400	232	24,149	273	2,689	173	32	25	8	26	46	310	27,652
108	31	71	16,057	38	2,449	229	40	81	29	90	53	521	19,135
109	30	63	9,976	37	1,656	139	42	37	1	30	25	275	12,006
110	35	27	5,809	14	897	66	10	31	1	6	3	117	6,865
111	109	107	18,267	66	3,118	239	48	44	33	108	123	595	22,154
112	25	77	16,867	77	2,097	200	51	31	15	68	51	415	19,533
113	4	44	2,910	12	736	49	8	3	3	2	3	67	3,769
114	19	130	15,337	57	2,448	361	83	92	49	217	138	941	18,912
115	77	80	11,414	50	1,707	129	37	18	3	7	8	202	13,452
116	7	96	18,886	33	3,779	407	82	73	40	251	156	1,009	23,804
117	13	25	2,635	16	428	49	14	19	3	18	9	113	3,217
118	418	213	15,824	19	1,800	225	35	42	15	4	16	337	18,193
119	17	129	13,188	24	1,956	211	43	81	18	91	99	543	15,840

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120	5	140	15,77 9	92	2,358	316	85	80	10	111	185	787	19,156
121	55	114	11,84 9	73	2,044	177	25	18	4	22	19	266	14,346
122	26	148	8,128	23	1,515	184	35	53	7	36	45	361	10,175
123	22	136	19,60 2	70	3,726	342	109	100	33	170	108	863	24,396
124	75	100	8,565	41	1,134	44	7	4	-	1	2	58	9,898
125	301	205	17,38 2	213	2,278	154	25	18	9	14	11	231	20,309
126	39	39	7,830	96	1,337	141	21	1	5	-	2	171	9,473
127	7	149	21,26 0	38	3,336	442	128	133	59	265	226	1,25 2	26,035
128	6	61	10,99 6	14	1,959	173	25	36	8	62	40	344	13,374
129	1	44	14,79 7	52	2,629	422	59	61	44	393	118	1,09 6	18,618
130	49	156	20,84 8	89	4,788	516	144	180	35	88	449	1,41 3	27,294
131	264	377	30,80 3	421	5,106	293	49	44	8	22	44	460	37,166
132	7	59	3,778	28	958	109	35	36	5	16	16	216	5,040
133	16	60	7,629	37	1,429	152	55	9	2	10	62	291	9,446
134	7	54	3,815	5	594	147	20	5	8	30	29	239	4,707
135	40	82	7,681	88	1,328	106	47	90	21	16	16	298	9,476
136	4	16	1,691	5	360	22	4	3	9	4	5	48	2,121
137	18	38	5,473	21	886	74	5	3	8	9	-	99	6,517
138	44	33	1,483	14	370	37	1	5	5	4	-	53	1,953
139	64	129	11,56 3	16	1,796	293	69	110	23	85	67	647	14,151
140	13	35	3,450	27	682	77	19	26	13	36	43	215	4,409
141	18	16	1,896	25	305	28	6	7	3	9	10	63	2,305
142	14	38	3,764	30	744	84	20	29	14	39	47	234	4,810
143	96	177	21,64 6	149	3,121	309	46	60	21	94	88	617	25,709
144	36	91	10,17 8	49	1,599	105	27	33	14	46	44	269	12,186
145	8	158	24,61 8	84	4,436	527	93	82	28	172	144	1,04 7	30,343

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146	88	277	25,94 3	82	4,299	398	106	77	51	155	130	916	31,518
147	30	160	19,19 2	120	3,345	316	55	30	24	33	162	621	23,438
148	28	65	10,44 7	50	2,166	298	43	40	42	291	207	922	13,650
149	16	53	6,034	45	1,445	72	17	19	4	7	6	125	7,702
150	82	96	14,76 5	122	1,973	168	21	25	6	8	26	254	17,210
151	3	50	8,267	19	1,625	232	76	148	22	86	49	614	10,575
152	25	54	9,276	55	1,058	52	21	9	4	22	10	118	10,561
153	30	98	12,82 1	45	2,533	303	70	80	36	133	149	770	16,266
154	22	88	11,54 9	41	2,280	273	63	72	32	120	134	693	14,651
155	4	36	5,596	33	877	113	15	17	-	1	13	159	6,701
156	13	119	7,385	64	1,453	137	33	78	13	29	121	411	9,432
157	15	92	12,21 2	40	1,516	142	36	32	12	37	83	343	14,203
158	18	91	11,95 6	78	1,847	237	20	24	5	8	10	305	14,276
159	-	149	31,69 3	78	3,386	233	47	64	15	71	44	474	35,780
160	9	106	23,51 2	20	2,742	233	43	42	14	64	45	440	26,820
161	72	73	10,38 6	45	1,553	118	34	16	2	6	8	184	12,242
162	71	90	7,907	117	1,461	79	36	42	8	5	12	181	9,757
163	28	96	13,03 7	131	1,708	181	33	21	26	31	22	314	15,287
164	47	79	9,284	43	1,176	98	36	19	9	16	7	185	10,767
165	182	59	10,70 4	43	1,504	81	34	36	3	3	37	193	12,503
166	6	83	15,45 0	44	2,433	379	97	101	47	178	185	986	18,996
167	20	71	10,85 4	53	1,305	104	28	25	12	63	50	283	12,567
168	36	84	9,469	70	1,386	248	59	54	19	37	38	456	11,465
169	2	67	7,793	27	1,754	303	130	109	29	148	126	845	10,485

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170	24	102	11,23 9	40	1,937	337	94	68	41	172	118	829	14,147
171	35	181	22,34 2	101	4,350	523	111	171	84	419	534	1,84 2	28,817
172	36	189	23,26 8	106	4,531	545	116	178	87	437	556	1,91 9	30,011
173	45	120	11,95 2	95	2,364	267	65	91	45	125	150	744	15,275
174	50	134	13,29 6	106	2,629	297	72	101	50	139	167	827	16,992
175	37	98	9,720	77	1,922	217	53	74	37	102	122	605	12,422
176	8	122	29,69 0	38	3,072	243	59	46	26	58	91	523	33,444
177	1	115	19,81 3	8	2,600	326	59	30	12	44	103	574	23,111
178	6	133	23,03 6	76	2,860	205	55	39	36	65	69	469	26,574
179	-	136	29,38 8	38	3,956	502	138	52	20	59	229	1,00 0	34,517
180	186	163	14,90 3	134	2,145	227	34	15	23	61	31	392	17,737
181	113	148	13,38 5	132	2,070	189	43	40	12	31	20	334	16,069
182	53	95	9,045	50	1,566	140	40	27	22	41	27	297	11,053
183	97	151	18,66 8	23	3,440	277	75	73	17	122	131	695	22,977
184	138	192	24,27 7	31	4,299	383	71	115	34	154	121	878	29,677
185	39	187	17,66 2	43	3,012	488	91	195	72	129	186	1,16 1	22,066
186	94	211	11,49 7	110	1,358	126	21	10	9	9	16	191	13,366
187	2	98	13,59 1	33	2,571	396	93	94	52	93	251	978	17,271
188	7	75	13,26 8	22	3,108	315	62	66	7	57	170	677	17,151
189	3	94	13,66 3	21	1,972	246	38	40	23	94	60	502	16,251
190	3	247	31,82 4	61	5,790	925	168	99	132	261	1,026	2,61 1	40,532

Worcestershire County Council Permit Scheme Yr1 Evaluation

191	386	67	5,174	181	909	71	15	3	-	3	2	93	6,424
192	8	34	4,585	30	1,425	272	126	110	45	93	109	755	6,830
193	77	99	8,689	128	1,606	87	39	46	8	6	13	199	10,722
194	19	96	11,291	19	2,247	288	91	59	37	159	155	790	14,444
195	72	196	26,533	125	3,746	382	91	58	34	95	82	744	31,344
196	23	205	23,129	80	2,736	255	58	58	13	58	81	522	26,672
197	27	147	22,135	103	2,523	183	52	48	11	34	28	356	25,263
198	40	29	6,736	27	1,062	64	15	19	5	3	2	108	7,962
199	3	31	2,321	11	454	22	3	3	5	-	-	32	2,849
200	6	29	8,378	26	1,217	47	7	9	3	2	2	70	9,720
201	18	27	4,995	139	722	22	12	4	1	5	3	47	5,929
202	41	3	460	3	79	3	3	-	-	-	1	7	553
203	2	33	4,706	-	461	18	2	-	-	1	-	21	5,221
204	33	19	1,950	17	286	24	10	8	-	2	-	44	2,316
205	5	10	131	6	20	7	1	-	-	-	-	8	176
206	8	7	391	1	92	5	1	-	-	-	-	5	496
207	52	15	2,652	3	434	39	7	1	-	-	1	48	3,152
208	1	-	35	-	18	-	-	1	-	-	-	1	54
209	13	2	971	1	188	6	2	-	-	-	-	8	1,171
210	-	-	203	-	57	1	2	-	-	-	2	4	264
211	26	-	172	-	49	9	3	1	8	-	-	20	240
212	22	3	335	-	47	7	1	-	-	-	-	8	394
213	48	69	9,768	45	1,519	71	36	12	8	34	32	193	11,595
214	3	-	209	-	32	-	-	2	-	-	-	2	243
215	-	-	75	-	27	2	1	-	-	-	-	3	105
216	12	-	413	-	49	-	-	-	-	-	-	-	462
217	3	-	55	-	16	3	-	-	-	-	-	3	73
218	51	2	208	-	53	3	-	2	1	-	-	5	269
219	29	16	1,859	-	232	6	-	-	2	-	-	8	2,114
220	1	-	48	-	20	-	-	-	-	-	-	-	69
221	4	2	325	16	49	-	1	2	-	-	-	3	394
222	12	1	24	-	14	-	-	-	-	-	-	-	39
223	-	-	167	-	27	2	-	-	-	-	-	2	195
224	4	-	174	2	29	1	-	-	-	-	-	1	207
225	29	26	4,487	2	657	16	6	4	3	-	-	28	5,201

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226	9	4	532	-	85	3	-	4	-	-	-	7	627
227	15	8	734	29	40	3	-	-	-	-	-	3	814
228	11	-	65	-	10	-	1	-	-	-	-	1	76
229	22	16	2,749	9	596	29	13	9	2	7	1	63	3,434
230	29	34	3,186	4	274	4	1	-	-	-	-	4	3,502
231	15	17	3,136	-	300	4	-	-	-	-	-	4	3,458
232	109	52	7,800	6	687	20	5	-	1	-	1	27	8,572
233	20	14	2,913	6	344	10	3	1	-	-	-	14	3,291
234	29	2	720	11	142	3	-	-	-	-	-	3	879
235	14	6	1,301	12	203	7	-	1	-	-	-	8	1,530
236	36	3	551	-	70	1	1	-	-	-	-	2	626
237	10	5	1,301	1	148	3	-	-	-	-	-	3	1,457
238	39	39	3,215	55	424	12	7	-	-	-	-	20	3,753
239	11	16	853	13	179	2	11	5	-	1	1	19	1,079
240	8	3	641	-	115	3	2	-	1	2	-	7	766
241	14	8	361	9	46	3	-	-	-	-	-	3	426
242	9	19	2,492	8	344	8	-	-	-	-	-	8	2,871
243	44	17	4,145	35	556	12	6	-	1	-	-	19	4,772
244	62	43	5,576	21	730	16	3	1	-	-	-	19	6,389
245	15	6	993	20	150	6	1	4	-	-	-	11	1,180
246	14	-	143	-	41	-	2	-	-	-	1	3	186
247	14	6	519	-	47	8	1	1	-	1	-	10	582
248	13	2	1,253	5	165	5	-	4	-	-	-	9	1,434
249	4	53	6,002	13	993	49	13	4	3	6	19	94	7,155
250	7	-	104	-	18	2	1	-	-	-	-	3	125
251	31	12	1,558	15	242	26	9	6	-	1	1	42	1,869
252	16	22	2,403	30	328	44	18	16	2	4	6	90	2,873
253	54	30	3,097	30	471	32	6	2	3	-	-	43	3,672
254	47	-	454	-	82	3	2	-	2	-	1	7	543
255	28	3	1,444	17	193	20	-	-	2	-	-	21	1,679
256	12	32	2,483	37	334	43	4	-	19	-	-	67	2,953
257	5	14	1,634	18	301	33	8	15	2	1	-	58	2,026
258	11	15	3,252	9	617	84	17	46	4	13	4	167	4,059
259	7	17	2,255	12	414	36	11	42	5	5	8	107	2,805
260	21	95	10,194	26	1,512	114	24	16	4	5	10	173	12,000
261	3	8	983	1	164	14	10	3	5	3	3	37	1,193
262	11	42	5,868	44	1,109	124	28	25	5	23	16	222	7,284
263	-	19	5,533	8	766	61	11	3	2	4	1	82	6,408

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264	10	59	3,652	8	655	50	3	16	2	6	5	82	4,457
265	15	28	4,255	40	708	89	10	12	8	5	2	126	5,157
266	4	7	1,109	5	233	18	5	6	-	2	1	31	1,386
267	7	49	5,313	13	707	54	4	3	3	8	5	76	6,158
268	57	89	11,451	85	1,224	80	11	12	2	2	5	112	12,961
269	21	57	5,794	8	1,042	42	11	1	2	1	2	59	6,960
270	144	113	10,879	113	1,593	67	8	1	-	-	3	80	12,778
271	8	-	152	-	47	12	-	1	-	-	-	12	211
272	31	5	280	-	51	2	2	1	-	-	-	4	341
273	15	58	9,744	53	1,611	84	7	3	1	1	1	96	11,563
274	25	5	558	4	131	10	5	1	-	-	-	15	714
275	42	10	2,253	24	270	6	2	-	-	-	-	8	2,565
276	14	7	540	3	159	8	3	-	3	-	-	14	724
277	15	11	1,640	1	167	5	4	1	-	-	-	10	1,828
278	116	17	4,110	3	411	20	4	1	-	3	1	29	4,570
279	58	8	1,450	21	151	8	-	-	-	-	-	8	1,638
280	10	12	2,253	33	356	5	-	3	1	-	-	8	2,662
281	31	23	5,193	20	571	19	4	-	-	-	-	23	5,830
282	18	23	4,262	18	405	20	3	-	-	-	-	23	4,731
283	31	3	1,653	5	56	2	-	-	-	-	-	2	1,719
284	-	-	223	-	23	1	-	-	-	-	-	1	247
285	-	-	140	-	28	-	-	-	-	-	-	-	168
286	22	12	488	4	101	3	-	-	-	-	-	3	608
287	2	-	331	-	43	2	2	-	-	-	-	3	377
288	138	57	4,201	-	1,360	259	60	38	14	159	127	657	6,275
289	11	10	480	-	82	9	1	-	-	-	-	10	581
290	-	1	256	-	38	-	-	-	-	-	-	-	294
291	7	4	1,400	-	288	37	9	4	2	12	4	67	1,759
292	-	-	256	-	32	2	-	-	-	-	-	2	290
293	23	2	1,419	2	119	-	-	-	-	-	-	-	1,541
294	2	1	614	7	133	9	4	-	1	-	-	13	769
295	79	60	6,714	258	607	35	2	-	-	-	-	37	7,676
296	13	2	276	15	44	-	2	-	-	-	-	2	339
297	34	5	751	5	643	94	8	1	3	8	5	119	1,523
298	4	5	249	-	20	-	-	-	-	-	-	-	273
299	8	5	562	-	70	4	-	-	-	-	-	4	642
300	11	5	1,181	6	75	2	1	-	-	-	-	3	1,269

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301	-	2	229	-	32	-	-	-	-	-	-	-	262
Tot als	10,909	23,051	2,895, 165	15,276	464,650	47,727	11,023	11,350	4,766	14,862	19,595	109, 301	3,507,443

Table 55(b) AM 10 Carbon Emissions - Traffic Count Data													
Year 1													
2019 Flow Data													
Post-scheme													
Ref No	Pedal Cycle s	Motorc ycles	CarsT axis	BusesCo aches	LightGoods Vehicles	V2AxleRi gidHGV	V3AxleRi gidHGV	V4or5AxleR igidHGV	V3or4Axle ArticHGV	V5AxleAr ticHGV	V6orMoreAxl eArticHGV	AIH GVs	AIIMotor Vehicles
1	7	153	22,226	75	3,980	471	88	77	26	155	128	945	27,379
2	14	115	18,306	119	2,857	249	75	49	21	103	49	546	21,943
3	35	128	7,865	25	1,617	170	51	58	25	49	82	436	10,071
4	129	79	12,231	146	1,538	123	26	14	21	27	44	254	14,247
5	19	46	7,899	36	1,468	129	51	34	24	25	46	309	9,757
6	6	98	15,500	37	3,108	534	127	99	75	167	907	1,908	20,652
7	5	164	10,514	15	1,951	227	40	88	22	104	78	559	13,203
8	12	174	25,237	69	4,351	374	131	244	86	212	170	1,217	31,048
9	20	50	7,864	25	1,811	159	47	31	41	29	70	377	10,127
10	22	80	9,478	26	2,036	99	35	57	6	4	33	233	11,854
11	-	63	17,496	30	3,797	472	108	209	47	89	469	1,394	22,780
12	6	14	2,303	35	421	39	7	4	3	1	5	60	2,833
13	6	51	5,694	18	1,014	120	25	26	5	47	39	262	7,039
14	11	37	3,984	13	738	113	35	24	17	47	47	284	5,057
15	24	113	12,527	36	2,159	303	99	58	47	160	126	793	15,629
16	24	161	23,916	91	3,077	356	78	60	41	172	149	856	28,102
17	82	66	9,227	81	1,355	104	21	8	4	10	4	151	10,880
18	98	73	5,497	18	727	43	35	4	-	2	1	85	6,400
19	80	260	18,279	217	2,161	139	29	43	12	36	25	285	21,202
20	14	221	29,417	76	4,857	870	113	147	84	51	170	1,435	36,006
21	175	191	17,713	212	2,849	142	36	35	3	10	39	265	21,231
22	12	115	6,668	57	1,304	122	31	72	12	26	108	372	8,515
23	7	57	6,314	25	1,116	117	21	152	16	67	75	450	7,962
24	30	61	10,704	85	1,554	213	42	26	27	53	58	418	12,823
25	4	184	20,246	59	2,953	674	110	142	26	18	485	1,455	24,897
26	13	107	7,962	50	1,517	133	51	81	9	58	52	384	10,020
27	37	88	10,386	18	2,014	273	94	135	11	25	34	573	13,079

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28	4	107	6,498	16	1,441	278	76	88	16	144	106	707	8,768
29	172	189	19,203	145	2,442	186	22	12	3	3	14	239	22,218
30	19	115	18,094	35	2,457	211	57	40	6	84	89	487	21,188
31	57	80	11,991	59	1,641	89	20	17	8	9	16	159	13,930
32	50	91	15,271	150	1,682	138	28	22	17	48	33	285	17,480
33	50	33	5,082	50	590	16	4	6	3	-	1	30	5,785
34	40	196	25,364	48	4,105	378	133	144	74	257	237	1,223	30,936
35	15	20	4,015	34	704	56	17	22	7	34	15	150	4,923
36	3	208	21,755	56	3,712	581	145	117	60	75	565	1,544	27,274
37	29	97	6,129	38	1,260	220	41	52	27	76	69	485	8,008
38	46	54	9,753	80	1,095	89	18	23	5	4	3	143	11,124
39	5	75	10,637	56	1,712	165	83	101	24	53	84	510	12,990
40	25	92	11,770	117	1,533	161	31	20	24	28	20	284	13,797
41	49	88	7,697	87	1,324	105	49	93	22	16	16	302	9,498
42	31	63	3,066	24	570	41	9	23	4	10	-	87	3,810
43	17	129	10,357	36	1,722	152	43	49	12	50	46	350	12,594
44	63	91	7,896	78	1,384	165	50	34	26	98	79	452	9,901
45	11	130	23,404	107	4,179	430	126	191	92	243	234	1,317	29,137
46	5	114	9,555	57	1,308	99	15	5	2	12	9	142	11,176
47	7	167	24,564	131	2,836	372	85	104	23	59	218	861	28,559
48	55	80	8,901	36	1,560	179	32	40	26	97	103	477	11,054
49	18	43	3,387	8	732	125	21	44	12	42	45	289	4,460
50	31	111	16,088	96	2,571	296	63	64	25	80	51	578	19,444
51	25	111	18,068	76	2,014	179	66	61	29	87	81	503	20,773
52	74	192	21,393	185	2,951	288	71	33	7	77	62	537	25,259
53	57	52	6,801	9	924	122	24	9	5	23	20	204	7,990
54	17	154	25,940	100	2,857	312	93	77	53	172	131	838	29,889
55	2	67	11,055	11	1,537	153	29	28	21	58	33	322	12,992
56	36	55	15,640	77	1,929	171	45	55	4	17	15	307	18,009
57	87	168	11,655	81	1,764	160	28	24	11	21	15	259	13,927
58	127	172	18,026	258	2,137	147	41	43	7	18	20	276	20,869
59	52	135	16,068	305	2,294	97	25	29	7	8	17	183	18,985
60	20	26	8,642	70	1,104	105	25	12	2	-	-	143	9,985
61	4	97	19,337	34	3,011	277	61	88	42	124	95	688	23,167
62	55	234	22,838	77	3,629	270	52	54	43	127	103	649	27,427
63	31	89	8,462	64	1,614	179	46	64	33	90	105	516	10,745
64	8	133	29,759	113	5,322	749	167	125	50	111	597	1,798	37,126
65	315	141	16,750	213	2,110	200	46	20	13	16	12	306	19,519
66	1	55	4,748	43	760	84	24	26	14	22	16	186	5,791

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67	20	58	7,772	39	1,160	87	17	98	11	24	11	248	9,276
68	8	131	22,232	98	4,043	426	100	75	31	158	121	912	27,415
69	75	39	11,780	157	1,200	92	15	8	7	14	16	152	13,326
70	19	83	10,491	45	1,898	229	61	42	29	96	74	532	13,049
71	55	81	10,330	48	1,281	106	40	21	10	18	8	203	11,944
72	11	55	7,539	5	1,412	167	31	37	23	25	26	310	9,322
73	34	88	18,931	65	3,220	409	115	73	27	184	124	932	23,236
74	3	135	22,473	70	4,534	480	92	303	57	264	197	1,393	28,604
75	7	101	7,602	47	1,390	151	43	42	19	24	161	441	9,582
76	6	122	11,635	71	2,423	411	134	74	36	150	104	909	15,161
77	7	40	5,216	33	1,045	149	22	63	25	73	44	375	6,708
78	80	105	12,966	90	1,544	84	22	5	2	10	15	137	14,842
79	5	29	1,262	7	363	24	6	2	4	-	1	37	1,698
80	8	87	11,931	42	1,977	138	63	69	16	85	99	469	14,506
81	30	100	26,816	139	4,579	391	92	95	31	164	124	896	32,531
82	67	169	14,820	149	1,884	134	32	22	9	16	13	226	17,247
83	32	34	5,877	46	1,176	125	16	17	7	9	8	183	7,316
84	8	86	18,024	119	2,521	340	63	60	24	14	113	615	21,365
85	41	126	23,022	41	3,929	405	102	100	52	104	341	1,104	28,223
86	94	189	21,692	148	3,108	306	49	62	21	94	87	618	25,756
87	5	87	7,194	30	1,299	209	42	54	42	35	149	532	9,143
88	7	66	4,152	43	666	91	20	62	23	87	55	338	5,265
89	4	266	31,894	60	5,770	917	176	103	133	262	1,016	2,606	40,597
90	29	23	4,234	15	670	57	19	41	6	9	4	136	5,079
91	88	221	13,865	43	2,091	130	38	66	7	59	101	401	16,622
92	6	40	2,396	21	518	65	30	44	7	89	46	281	3,256
93	80	77	11,889	44	2,206	127	67	27	22	41	64	347	14,563
94	1	121	19,571	55	3,650	532	162	217	107	374	310	1,701	25,098
95	46	41	5,458	59	840	72	30	2	3	2	4	114	6,512
96	26	75	13,261	33	2,027	217	69	61	34	95	87	563	15,959
97	1	15	2,272	23	389	63	12	45	7	30	72	229	2,929
98	11	38	10,395	28	1,265	120	28	26	6	32	27	238	11,964
99	26	86	14,129	39	1,997	203	47	23	22	83	81	461	16,711
100	43	195	26,856	96	4,784	598	99	84	70	255	192	1,299	33,231
101	22	73	8,194	10	1,479	218	32	29	30	68	78	455	10,212
102	5	80	21,967	27	2,446	128	12	13	19	15	21	209	24,729
103	49	90	12,936	225	1,664	168	25	17	15	41	34	299	15,213
104	21	43	3,193	19	735	24	1	1	3	1	-	29	4,019
105	111	152	20,887	203	2,359	204	43	32	12	24	23	337	23,939

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106	129	80	11,696	114	1,380	81	22	16	8	8	3	136	13,406
107	439	217	24,452	276	2,665	171	33	25	8	26	46	310	27,920
108	37	76	16,092	37	2,441	227	42	83	29	90	52	523	19,170
109	36	67	9,998	37	1,650	138	44	39	1	30	25	277	12,029
110	38	26	5,882	14	889	65	10	32	1	7	3	117	6,928
111	132	115	18,308	65	3,108	237	50	45	33	108	122	596	22,192
112	30	83	16,904	76	2,090	199	53	32	15	68	51	417	19,570
113	4	47	2,916	12	734	48	8	3	3	2	3	67	3,776
114	23	140	15,370	56	2,440	358	87	95	50	218	137	944	18,951
115	85	75	11,557	50	1,692	128	38	18	3	7	8	201	13,575
116	8	103	18,928	33	3,767	403	86	75	41	252	155	1,011	23,842
117	16	27	2,641	16	427	49	14	20	3	18	9	114	3,224
118	459	200	16,022	20	1,784	223	35	43	16	4	16	336	18,362
119	21	139	13,217	24	1,949	209	45	84	19	91	98	546	15,875
120	6	132	15,977	93	2,337	312	87	80	10	114	185	788	19,327
121	60	107	11,998	74	2,026	175	25	18	4	23	19	265	14,470
122	31	160	8,146	23	1,510	183	37	55	8	36	45	362	10,200
123	27	146	19,645	69	3,713	339	114	104	34	170	107	868	24,441
124	83	94	8,672	42	1,124	44	7	4	-	1	2	58	9,989
125	331	192	17,600	216	2,259	152	26	18	9	15	11	230	20,496
126	43	37	7,928	97	1,326	139	21	1	5	-	2	169	9,556
127	8	160	21,307	37	3,325	438	134	137	59	266	224	1,258	26,087
128	7	65	11,020	13	1,953	172	26	37	8	63	39	345	13,397
129	1	48	14,829	52	2,620	418	62	63	44	394	117	1,098	18,647
130	60	167	20,894	88	4,772	511	151	186	36	89	444	1,417	27,339
131	320	406	30,871	415	5,089	290	51	45	8	22	44	461	37,241
132	8	64	3,786	28	955	108	37	37	5	16	16	218	5,051
133	16	65	7,646	36	1,423	151	57	9	2	10	62	291	9,462
134	7	58	3,823	5	592	146	21	5	8	30	29	239	4,717
135	49	88	7,697	87	1,324	105	49	93	22	16	16	302	9,498
136	5	18	1,695	5	359	22	5	3	9	4	5	48	2,124
137	17	41	5,484	21	882	74	6	3	8	9	-	99	6,527
138	15	18	1,372	-	202	27	1	-	11	1	-	39	1,631
139	78	138	11,589	16	1,790	290	72	114	23	85	66	651	14,184
140	15	41	3,929	30	750	83	21	30	15	42	49	240	4,989
141	28	16	2,075	35	318	27	6	7	3	7	7	56	2,500
142	15	42	3,945	30	753	83	21	30	15	42	49	240	5,010
143	94	189	21,692	148	3,108	306	49	62	21	94	87	618	25,756
144	40	86	10,305	50	1,585	104	28	34	14	47	44	270	12,295

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145	8	169	24,671	83	4,418	523	98	85	29	173	142	1,049	30,391
146	61	259	25,350	85	4,029	300	57	60	48	141	114	721	30,444
147	8	95	20,007	132	2,799	378	70	67	26	16	125	683	23,715
148	31	61	10,578	50	2,147	295	44	40	43	299	207	928	13,765
149	15	13	4,594	10	643	55	5	2	3	2	7	74	5,334
150	90	90	14,950	123	1,956	166	21	25	6	8	26	253	17,372
151	4	54	8,285	19	1,619	230	80	153	22	87	48	621	10,598
152	27	51	9,392	55	1,049	51	21	9	4	22	10	119	10,666
153	30	105	12,848	44	2,523	300	73	83	36	133	147	772	16,292
154	27	94	11,575	40	2,273	270	66	75	32	120	133	696	14,678
155	10	43	5,023	45	810	65	15	6	5	12	10	113	6,033
156	13	127	7,401	64	1,447	136	35	80	13	29	120	413	9,452
157	18	99	12,239	40	1,511	141	38	34	12	37	82	344	14,232
158	16	35	11,439	88	1,329	122	21	26	14	9	7	198	13,089
159	-	140	32,090	79	3,356	230	47	64	15	73	44	475	36,140
160	10	99	23,806	21	2,718	230	44	42	14	65	45	440	27,085
161	77	68	10,517	46	1,540	116	34	16	2	6	8	183	12,354
162	77	85	8,006	118	1,449	78	36	42	8	5	12	181	9,839
163	27	103	13,065	130	1,701	179	34	22	27	31	22	315	15,314
164	50	74	9,401	44	1,166	97	37	19	9	17	7	185	10,869
165	200	56	10,838	43	1,491	80	34	36	3	3	38	193	12,621
166	8	89	15,484	43	2,425	376	101	104	47	179	183	990	19,032
167	22	67	10,990	54	1,293	103	28	25	13	65	50	285	12,689
168	44	90	9,490	69	1,382	245	62	56	19	38	38	458	11,489
169	2	72	7,810	26	1,748	300	137	112	29	148	125	851	10,507
170	30	110	11,264	39	1,931	334	98	71	41	173	117	833	14,176
171	32	184	23,020	100	4,409	509	115	176	81	393	579	1,853	29,566
172	33	188	23,517	102	4,504	520	118	179	83	402	592	1,893	30,205
173	45	129	12,291	93	2,345	260	66	94	47	130	152	749	15,607
174	51	144	13,700	104	2,614	290	74	104	53	145	169	835	17,397
175	36	104	9,835	75	1,876	208	53	75	38	104	122	599	12,489
176	9	114	30,062	38	3,045	240	60	46	27	59	91	524	33,783
177	1	108	20,062	9	2,577	322	60	30	12	45	103	573	23,329
178	7	142	23,087	75	2,851	203	58	40	36	65	69	471	26,626
179	-	127	30,721	28	3,979	532	86	41	20	47	223	949	35,803
180	204	153	15,089	136	2,127	225	34	15	24	63	31	392	17,896
181	137	159	13,415	130	2,063	187	45	41	12	31	20	336	16,103
182	64	102	9,065	49	1,561	139	41	28	23	41	27	299	11,076
183	107	141	18,903	23	3,410	273	76	74	17	125	132	698	23,175

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184	151	180	24,582	31	4,262	378	72	115	35	158	122	880	29,935
185	18	94	16,897	39	3,051	463	99	93	37	47	293	1,031	21,113
186	114	227	11,522	109	1,353	124	22	11	9	9	16	191	13,402
187	18	163	20,358	158	4,172	498	76	64	76	563	392	1,669	26,519
188	4	128	17,058	38	2,986	330	67	68	54	214	159	892	21,102
189	4	101	13,693	21	1,965	244	40	42	24	94	60	503	16,283
190	4	266	31,894	60	5,770	917	176	103	133	262	1,016	2,606	40,597
191	424	63	5,239	183	901	70	16	3	-	3	2	93	6,479
192	9	65	4,752	39	939	133	36	64	34	90	112	469	6,262
193	84	93	8,798	129	1,592	86	40	46	9	6	13	199	10,812
194	22	104	11,316	19	2,240	285	95	61	38	160	154	793	14,471
195	87	211	26,591	124	3,734	379	96	60	35	95	82	746	31,406
196	28	220	23,180	79	2,727	252	60	60	13	58	80	524	26,731
197	32	158	22,184	102	2,515	181	55	49	11	34	28	358	25,316
198	49	28	6,757	27	1,076	64	15	18	5	3	1	108	7,996
199	4	30	2,328	11	459	22	3	3	5	-	-	32	2,861
200	7	28	8,405	26	1,232	47	7	9	3	2	2	70	9,761
201	22	26	5,011	137	731	22	13	4	1	5	2	47	5,951
202	47	3	462	3	79	3	4	-	-	-	1	7	553
203	2	31	4,720	-	457	18	2	-	-	1	-	20	5,228
204	38	18	1,956	18	284	23	10	7	-	2	-	42	2,317
205	6	10	132	6	20	7	1	-	-	-	-	8	176
206	9	7	392	1	92	4	1	-	-	-	-	5	496
207	61	14	2,660	3	430	37	7	1	-	-	1	46	3,153
208	2	-	35	-	17	-	-	1	-	-	-	1	54
209	14	2	974	1	186	6	2	-	-	-	-	8	1,172
210	-	-	203	-	56	1	2	-	-	-	2	4	264
211	30	-	172	-	49	8	3	1	8	-	-	19	240
212	25	3	336	-	47	7	1	-	-	-	-	8	394
213	56	65	9,797	46	1,506	68	37	11	8	33	32	189	11,602
214	3	-	210	-	32	-	-	2	-	-	-	2	243
215	-	-	76	-	27	2	1	-	-	-	-	3	105
216	13	-	414	-	49	-	-	-	-	-	-	-	463
217	4	-	55	-	15	3	-	-	-	-	-	3	73
218	59	2	209	-	53	2	-	2	1	-	-	5	268
219	33	15	1,864	-	230	6	-	-	2	-	-	7	2,117
220	1	-	48	-	20	-	-	-	-	-	-	-	68
221	4	1	326	16	49	-	1	2	-	-	-	3	394
222	14	1	24	-	14	-	-	-	-	-	-	-	39

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223	-	-	167	-	26	2	-	-	-	-	-	2	195
224	5	-	175	2	29	1	-	-	-	-	-	1	207
225	34	24	4,501	2	652	16	6	3	3	-	-	27	5,206
226	10	4	533	-	84	3	-	3	-	-	-	6	627
227	17	8	737	29	39	3	-	-	-	-	-	3	815
228	12	-	65	-	10	-	1	-	-	-	-	1	76
229	25	15	2,757	9	591	28	13	9	2	7	1	61	3,434
230	33	32	3,195	4	271	3	1	-	-	-	-	4	3,506
231	18	16	3,146	-	298	3	-	-	-	-	-	3	3,463
232	125	48	7,823	7	682	19	5	-	1	-	1	26	8,585
233	23	13	2,921	6	342	10	3	1	-	-	-	14	3,296
234	33	2	723	11	140	3	-	-	-	-	-	3	880
235	16	6	1,305	12	201	6	-	1	-	-	-	7	1,531
236	42	3	552	-	69	1	1	-	-	-	-	2	627
237	12	5	1,305	1	147	3	-	-	-	-	-	3	1,459
238	45	37	3,224	56	420	12	8	-	-	-	-	19	3,756
239	13	15	855	13	177	2	11	4	-	1	1	19	1,079
240	9	2	643	-	114	3	2	-	1	1	-	7	767
241	17	7	362	9	45	3	-	-	-	-	-	3	427
242	11	17	2,499	9	341	8	-	-	-	-	-	8	2,874
243	51	15	4,157	36	551	12	6	-	1	-	-	19	4,778
244	72	40	5,592	21	724	15	3	1	-	-	-	19	6,396
245	17	5	996	20	149	6	1	3	-	-	-	10	1,181
246	16	-	143	-	41	-	2	-	-	-	1	3	186
247	16	5	520	-	47	8	1	1	-	1	-	10	582
248	16	2	1,257	5	163	5	-	3	-	-	-	8	1,435
249	5	49	6,020	13	985	47	13	4	3	6	19	92	7,159
250	8	-	105	-	17	2	1	-	-	-	-	3	125
251	36	11	1,562	16	240	25	9	5	-	1	1	40	1,869
252	19	21	2,411	30	332	44	18	16	2	4	6	89	2,884
253	62	28	3,106	31	467	31	6	2	3	-	-	42	3,674
254	54	-	455	-	81	3	2	-	2	-	1	7	543
255	33	3	1,449	18	191	19	-	-	2	-	-	21	1,680
256	17	19	2,471	36	393	17	7	2	4	-	-	30	2,950
257	6	13	1,640	18	305	33	8	15	2	1	-	58	2,034
258	11	25	3,195	13	520	51	11	24	4	4	4	97	3,850
259	3	5	1,917	4	482	23	9	40	1	5	8	86	2,494
260	40	82	9,334	45	1,347	114	35	25	5	6	12	196	11,004
261	4	7	963	3	175	23	8	4	4	1	1	40	1,188

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262	14	40	5,887	44	1,123	124	29	25	5	22	15	221	7,314
263	-	27	5,790	8	727	61	4	20	3	4	1	92	6,644
264	1	11	2,629	2	465	37	13	2	13	4	4	74	3,180
265	3	20	3,460	38	645	54	11	9	8	4	2	87	4,250
266	1	4	1,169	4	265	18	5	4	2	-	-	28	1,470
267	22	42	5,975	7	835	57	5	5	8	10	4	90	6,948
268	113	91	11,553	84	1,283	90	19	6	5	6	4	130	13,142
269	25	69	5,464	7	1,024	36	9	4	2	2	2	55	6,618
270	145	97	10,412	124	1,889	69	25	3	4	1	5	107	12,629
271	15	1	156	-	27	2	-	-	-	-	-	2	187
272	49	3	281	-	65	4	2	-	3	-	-	9	359
273	4	17	9,950	63	1,741	83	10	13	2	5	1	113	11,884
274	21	7	472	8	91	14	2	1	1	-	-	18	596
275	48	7	1,972	18	212	3	-	-	-	-	-	3	2,210
276	18	1	469	-	85	4	2	-	2	-	-	7	563
277	16	1	1,602	-	159	8	2	-	-	-	-	10	1,772
278	90	24	3,922	10	434	12	2	1	-	1	2	17	4,407
279	70	3	1,393	19	102	13	-	-	-	-	-	13	1,530
280	16	9	2,396	25	381	3	-	-	-	3	-	6	2,816
281	24	27	5,209	22	605	11	1	-	1	-	-	12	5,875
282	30	17	3,696	23	414	9	-	-	-	-	-	9	4,158
283	10	3	2,378	9	166	2	7	1	1	-	-	11	2,567
284	1	-	176	-	40	2	-	-	-	-	-	2	217
285	3	-	124	1	22	3	1	-	-	-	-	4	150
286	25	12	490	4	100	3	-	-	-	-	-	3	608
287	1	-	286	-	48	2	-	-	-	-	-	2	336
288	208	42	4,506	7	1,325	254	49	16	15	172	118	624	6,503
289	8	1	693	-	131	2	-	-	2	-	-	3	828
290	9	-	220	-	27	4	-	-	-	-	-	4	251
291	8	4	1,404	-	286	35	9	3	2	12	4	65	1,758
292	8	-	259	-	21	-	-	-	-	-	-	-	280
293	11	-	1,408	2	133	2	-	-	-	-	-	2	1,545
294	11	3	759	6	118	6	-	-	-	-	-	6	893
295	42	17	6,077	221	486	18	5	-	-	-	-	23	6,824
296	7	2	221	17	44	-	-	1	-	-	-	1	284
297	24	6	1,129	-	576	120	16	4	2	9	9	161	1,872
298	2	1	117	-	20	-	-	-	-	-	-	-	138
299	24	-	480	-	50	1	-	-	-	-	-	1	531
300	10	8	957	-	116	3	3	-	-	-	-	5	1,086

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301	-	-	201	-	15	-	-	-	-	-	-	-	216
Tot als	11,873	22,524	2,906,2 07	15,256	453,215	46,599	11,069	11,517	4,845	15,566	20,290	10 9,8 58	3,507,05 3

Table 56 AM 10 Carbon Emissions - Traffic Speed	
Average traffic speed (miles per mile) (Source DfT Congestion & Reliability Statistics Table CGN0501b) Average traffic speeds on local 'A' roads	
Year 1	
Period	
2018	2019
Pre-scheme	Post-scheme
31.5	32.0

Table 57(a) AM 10 Carbon Emissions - DfT Sites													
Year 1													
2018 Total Emissions (thousand tonnes CO2)													
Pre-scheme													
Ref No	PedalC ycles	Motorc ycles	Cars Taxis	BusesC oaches	LightGoods Vehicles	V2AxleRi gidHGV	V3AxleRi gidHGV	V4or5AxleR igidHGV	V3or4Axle ArticHGV	V5AxleAr ticHGV	V6orMoreAxle ArticHGV	AllH GVs	AllMotorV ehicles
1	0.00	0.03	0.92	0.02	0.24	0.05	0.05	0.05	0.03	0.03	0.03	0.24	1.44
2	0.00	0.06	2.46	0.08	0.55	0.09	0.09	0.09	0.06	0.06	0.06	0.45	3.60
3	0.00	0.06	0.89	0.01	0.26	0.06	0.06	0.06	0.05	0.05	0.05	0.31	1.54
4	0.00	0.03	1.08	0.06	0.20	0.03	0.03	0.03	0.02	0.02	0.02	0.14	1.52
5	0.00	0.02	0.73	0.02	0.20	0.04	0.04	0.04	0.02	0.02	0.02	0.18	1.14
6	0.00	0.03	0.82	0.01	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.37	1.45
7	0.00	0.08	1.19	0.01	0.32	0.07	0.07	0.07	0.06	0.06	0.06	0.40	1.99
8	0.00	0.12	3.31	0.04	0.80	0.18	0.18	0.18	0.18	0.18	0.18	1.08	5.35
9	0.00	0.05	1.76	0.03	0.58	0.10	0.10	0.10	0.08	0.08	0.08	0.53	2.94
10	0.00	0.02	0.39	0.01	0.12	0.01	0.01	0.01	0.00	0.00	0.00	0.06	0.59
11	0.00	0.01	0.96	0.01	0.30	0.08	0.08	0.08	0.09	0.09	0.09	0.49	1.78
12	0.00	0.02	0.90	0.07	0.24	0.04	0.04	0.04	0.01	0.01	0.01	0.13	1.36
13	0.00	0.05	0.91	0.01	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.30	1.53
14	0.00	0.01	0.16	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.29
15	0.00	0.02	0.52	0.01	0.13	0.03	0.03	0.03	0.04	0.04	0.04	0.21	0.88
16	0.00	0.01	0.41	0.01	0.08	0.02	0.02	0.02	0.02	0.02	0.02	0.09	0.60
17	0.00	0.01	0.35	0.02	0.07	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.48
18	0.00	0.01	0.11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15

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19	0.00	0.01	0.13	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.17
20	0.00	0.20	6.38	0.08	1.52	0.44	0.44	0.44	0.17	0.17	0.17	1.84	10.02
21	0.00	0.01	0.24	0.01	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.35
22	0.00	0.10	1.40	0.06	0.39	0.08	0.08	0.08	0.08	0.08	0.08	0.49	2.45
23	0.00	0.06	1.61	0.03	0.41	0.13	0.13	0.13	0.10	0.10	0.10	0.71	2.82
24	0.00	0.01	0.29	0.01	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.44
25	0.00	0.06	1.33	0.01	0.45	0.09	0.09	0.09	0.09	0.09	0.09	0.52	2.38
26	0.00	0.05	1.02	0.02	0.28	0.04	0.04	0.04	0.03	0.03	0.03	0.23	1.60
27	0.00	0.02	0.53	0.00	0.15	0.05	0.05	0.05	0.01	0.01	0.01	0.17	0.88
28	0.00	0.03	0.67	0.01	0.23	0.08	0.08	0.08	0.06	0.06	0.06	0.40	1.33
29	0.00	0.02	0.52	0.02	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.70
30	0.00	0.03	1.05	0.01	0.21	0.03	0.03	0.03	0.03	0.03	0.03	0.18	1.48
31	0.00	0.02	0.53	0.01	0.11	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.71
32	0.00	0.01	0.31	0.02	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.42
33	0.00	0.00	0.14	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
34	0.00	0.07	2.11	0.02	0.49	0.10	0.10	0.10	0.12	0.12	0.12	0.66	3.35
35	0.00	0.00	0.11	0.01	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.19
36	0.00	0.03	0.75	0.01	0.18	0.05	0.05	0.05	0.06	0.06	0.06	0.34	1.32
37	0.00	0.05	0.78	0.02	0.23	0.07	0.07	0.07	0.06	0.06	0.06	0.39	1.47
38	0.00	0.03	1.06	0.04	0.17	0.03	0.03	0.03	0.00	0.00	0.00	0.09	1.40
39	0.00	0.03	1.06	0.03	0.25	0.06	0.06	0.06	0.04	0.04	0.04	0.31	1.68
40	0.00	0.02	0.57	0.03	0.11	0.02	0.02	0.02	0.01	0.01	0.01	0.08	0.80
41	0.00	0.14	2.89	0.17	0.72	0.17	0.17	0.17	0.05	0.05	0.05	0.65	4.55
42	0.00	0.03	0.32	0.01	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.49
43	0.00	0.17	3.24	0.06	0.78	0.14	0.14	0.14	0.09	0.09	0.09	0.67	4.91
44	0.00	0.02	0.56	0.01	0.21	0.04	0.04	0.04	0.01	0.01	0.01	0.16	0.96
45	0.00	0.11	3.21	0.06	0.83	0.20	0.20	0.20	0.26	0.26	0.26	1.36	5.56
46	0.00	0.07	1.35	0.04	0.27	0.03	0.03	0.03	0.01	0.01	0.01	0.12	1.84
47	0.00	0.02	0.69	0.03	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.12	1.01
48	0.00	0.09	2.57	0.05	0.65	0.13	0.13	0.13	0.17	0.17	0.17	0.90	4.27
49	0.00	0.04	0.86	0.01	0.27	0.09	0.09	0.09	0.06	0.06	0.06	0.45	1.64
50	0.00	0.01	0.22	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.33
51	0.00	0.01	0.25	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.34
52	0.00	0.02	0.58	0.03	0.12	0.02	0.02	0.02	0.01	0.01	0.01	0.09	0.84
53	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17
54	0.00	0.01	0.18	0.00	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.25
55	0.00	0.01	0.88	0.00	0.16	0.02	0.02	0.02	0.01	0.01	0.01	0.09	1.14
56	0.00	0.00	0.16	0.00	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.21
57	0.00	0.01	0.12	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17

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58	0.00	0.01	0.25	0.02	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.34
59	0.00	0.00	0.11	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
60	0.00	0.00	0.15	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20
61	0.00	0.01	0.67	0.01	0.15	0.03	0.03	0.03	0.02	0.02	0.02	0.15	0.98
62	0.00	0.09	2.01	0.03	0.48	0.08	0.08	0.08	0.07	0.07	0.07	0.45	3.07
63	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05
64	0.00	0.01	0.51	0.01	0.14	0.03	0.03	0.03	0.03	0.03	0.03	0.19	0.86
65	0.00	0.03	0.63	0.04	0.12	0.02	0.02	0.02	0.00	0.00	0.00	0.07	0.87
66	0.00	0.14	2.94	0.14	0.68	0.15	0.15	0.15	0.08	0.08	0.08	0.69	4.59
67	0.00	0.06	1.90	0.05	0.41	0.09	0.09	0.09	0.03	0.03	0.03	0.35	2.76
68	0.00	0.08	4.67	0.07	1.09	0.23	0.23	0.23	0.18	0.18	0.18	1.23	7.15
69	0.00	0.00	0.24	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.32
70	0.00	0.01	0.29	0.01	0.08	0.02	0.02	0.02	0.01	0.01	0.01	0.09	0.47
71	0.00	0.03	0.74	0.02	0.13	0.02	0.02	0.02	0.01	0.01	0.01	0.09	1.00
72	0.00	0.00	0.13	0.00	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.20
73	0.00	0.06	1.39	0.02	0.34	0.07	0.07	0.07	0.06	0.06	0.06	0.39	2.21
74	0.00	0.02	0.70	0.01	0.20	0.05	0.05	0.05	0.04	0.04	0.04	0.27	1.20
75	0.00	0.05	0.99	0.03	0.26	0.06	0.06	0.06	0.07	0.07	0.07	0.37	1.72
76	0.00	0.02	0.48	0.01	0.14	0.05	0.05	0.05	0.03	0.03	0.03	0.23	0.89
77	0.00	0.05	1.58	0.05	0.46	0.13	0.13	0.13	0.11	0.11	0.11	0.71	2.85
78	0.00	0.05	1.32	0.05	0.23	0.02	0.02	0.02	0.01	0.01	0.01	0.08	1.74
79	0.00	0.03	0.35	0.01	0.15	0.02	0.02	0.02	0.00	0.00	0.00	0.06	0.60
80	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13
81	0.00	0.02	1.00	0.03	0.25	0.04	0.04	0.04	0.03	0.03	0.03	0.21	1.51
82	0.00	0.02	0.37	0.02	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.57
83	0.00	0.01	0.28	0.01	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.43
84	0.00	0.05	1.25	0.04	0.31	0.05	0.05	0.05	0.04	0.04	0.04	0.25	1.90
85	0.00	0.01	0.39	0.00	0.10	0.02	0.02	0.02	0.02	0.02	0.02	0.12	0.63
86	0.00	0.03	0.97	0.03	0.20	0.03	0.03	0.03	0.02	0.02	0.02	0.17	1.41
87	0.00	0.08	1.66	0.04	0.43	0.13	0.13	0.13	0.14	0.14	0.14	0.79	3.00
88	0.00	0.11	1.67	0.09	0.39	0.12	0.12	0.12	0.17	0.17	0.17	0.89	3.14
89	0.00	0.19	5.71	0.05	1.49	0.39	0.39	0.39	0.65	0.65	0.65	3.12	10.57
90	0.00	0.01	0.53	0.01	0.12	0.03	0.03	0.03	0.01	0.01	0.01	0.10	0.78
91	0.00	0.04	0.57	0.01	0.13	0.02	0.02	0.02	0.02	0.02	0.02	0.11	0.85
92	0.00	0.07	1.03	0.05	0.32	0.11	0.11	0.11	0.16	0.16	0.16	0.79	2.26
93	0.00	0.01	0.36	0.01	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.55
94	0.00	0.05	1.82	0.03	0.49	0.15	0.15	0.15	0.19	0.19	0.19	1.02	3.40
95	0.00	0.01	0.33	0.02	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.48
96	0.00	0.01	0.41	0.00	0.09	0.02	0.02	0.02	0.02	0.02	0.02	0.11	0.62

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97	0.00	0.02	0.91	0.05	0.23	0.09	0.09	0.09	0.11	0.11	0.11	0.60	1.81
98	0.00	0.01	0.32	0.00	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.43
99	0.00	0.03	1.06	0.01	0.22	0.04	0.04	0.04	0.04	0.04	0.04	0.22	1.54
100	0.00	0.02	0.64	0.01	0.17	0.03	0.03	0.03	0.03	0.03	0.03	0.20	1.04
101	0.00	0.03	0.76	0.00	0.26	0.07	0.07	0.07	0.02	0.02	0.02	0.27	1.33
102	0.00	0.01	0.37	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.47
103	0.00	0.01	0.31	0.03	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.45
104	0.00	0.03	0.42	0.01	0.13	0.02	0.02	0.02	0.00	0.00	0.00	0.06	0.66
105	0.00	0.00	0.14	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.19
106	0.00	0.03	0.41	0.05	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.62
107	0.00	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11
108	0.00	0.01	0.66	0.01	0.15	0.03	0.03	0.03	0.02	0.02	0.02	0.13	0.96
109	0.00	0.03	0.96	0.02	0.23	0.04	0.04	0.04	0.01	0.01	0.01	0.16	1.39
110	0.00	0.02	0.74	0.01	0.16	0.02	0.02	0.02	0.00	0.00	0.00	0.08	1.01
111	0.00	0.04	1.39	0.03	0.34	0.05	0.05	0.05	0.05	0.05	0.05	0.29	2.08
112	0.00	0.02	0.87	0.02	0.16	0.03	0.03	0.03	0.02	0.02	0.02	0.13	1.20
113	0.00	0.04	0.66	0.01	0.24	0.02	0.02	0.02	0.00	0.00	0.00	0.09	1.05
114	0.00	0.08	2.12	0.04	0.48	0.13	0.13	0.13	0.14	0.14	0.14	0.83	3.55
115	0.00	0.02	0.71	0.02	0.15	0.02	0.02	0.02	0.00	0.00	0.00	0.07	0.97
116	0.00	0.09	4.04	0.04	1.16	0.22	0.22	0.22	0.25	0.25	0.25	1.39	6.71
117	0.00	0.00	0.09	0.00	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.14
118	0.00	0.02	0.38	0.00	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.52
119	0.00	0.06	1.50	0.01	0.32	0.07	0.07	0.07	0.06	0.06	0.06	0.39	2.29
120	0.00	0.03	0.71	0.02	0.15	0.04	0.04	0.04	0.04	0.04	0.04	0.22	1.13
121	0.00	0.01	0.12	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18
122	0.00	0.07	0.87	0.01	0.23	0.05	0.05	0.05	0.02	0.02	0.02	0.23	1.41
123	0.00	0.03	1.01	0.02	0.28	0.05	0.05	0.05	0.04	0.04	0.04	0.28	1.62
124	0.00	0.01	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.35
125	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
126	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12
127	0.00	0.02	0.73	0.01	0.17	0.04	0.04	0.04	0.05	0.05	0.05	0.28	1.20
128	0.00	0.04	1.82	0.01	0.47	0.07	0.07	0.07	0.05	0.05	0.05	0.35	2.69
129	0.00	0.00	0.31	0.01	0.08	0.02	0.02	0.02	0.03	0.03	0.03	0.15	0.54
130	0.00	0.06	1.80	0.04	0.59	0.13	0.13	0.13	0.13	0.13	0.13	0.77	3.26
131	0.00	0.01	0.11	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
132	0.00	0.02	0.25	0.01	0.09	0.02	0.02	0.02	0.01	0.01	0.01	0.08	0.45
133	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08
134	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
135	0.00	0.00	0.11	0.01	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.17

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136	0.00	0.01	0.25	0.00	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.39
137	0.00	0.01	0.19	0.00	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.26
138	0.00	0.01	0.12	0.01	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.20
139	0.00	0.01	0.20	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.32
140	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06
141	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
142	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07
143	0.00	0.01	0.37	0.01	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.54
144	0.00	0.02	0.39	0.01	0.09	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.56
145	0.00	0.04	1.44	0.02	0.37	0.07	0.07	0.07	0.05	0.05	0.05	0.38	2.26
146	0.00	0.01	0.27	0.00	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.41
147	0.00	0.02	0.60	0.02	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.12	0.90
148	0.00	0.01	0.54	0.01	0.16	0.04	0.04	0.04	0.07	0.07	0.07	0.32	1.05
149	0.00	0.01	0.33	0.01	0.11	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.51
150	0.00	0.02	0.56	0.02	0.11	0.01	0.01	0.01	0.00	0.00	0.00	0.06	0.76
151	0.00	0.02	0.83	0.01	0.23	0.08	0.08	0.08	0.04	0.04	0.04	0.37	1.46
152	0.00	0.01	0.32	0.01	0.05	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.41
153	0.00	0.01	0.40	0.01	0.11	0.03	0.03	0.03	0.03	0.03	0.03	0.15	0.68
154	0.00	0.07	2.19	0.04	0.62	0.14	0.14	0.14	0.14	0.14	0.14	0.84	3.76
155	0.00	0.00	0.12	0.00	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.17
156	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09
157	0.00	0.02	0.72	0.01	0.13	0.02	0.02	0.02	0.02	0.02	0.02	0.13	1.01
158	0.00	0.01	0.41	0.01	0.09	0.02	0.02	0.02	0.00	0.00	0.00	0.06	0.59
159	0.00	0.07	3.61	0.04	0.55	0.07	0.07	0.07	0.04	0.04	0.04	0.33	4.60
160	0.00	0.02	0.97	0.00	0.16	0.02	0.02	0.02	0.01	0.01	0.01	0.11	1.27
161	0.00	0.01	0.39	0.01	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.54
162	0.00	0.01	0.19	0.01	0.05	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.29
163	0.00	0.01	0.22	0.01	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.32
164	0.00	0.01	0.26	0.01	0.05	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.35
165	0.00	0.02	0.85	0.02	0.17	0.02	0.02	0.02	0.01	0.01	0.01	0.09	1.15
166	0.00	0.00	0.11	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.18
167	0.00	0.01	0.34	0.01	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.47
168	0.00	0.03	0.85	0.03	0.18	0.06	0.06	0.06	0.02	0.02	0.02	0.24	1.33
169	0.00	0.08	2.04	0.04	0.66	0.26	0.26	0.26	0.20	0.20	0.20	1.38	4.20
170	0.00	0.16	3.95	0.07	0.98	0.32	0.32	0.32	0.30	0.30	0.30	1.85	7.01
171	0.00	0.02	0.54	0.01	0.15	0.04	0.04	0.04	0.06	0.06	0.06	0.30	1.02
172	0.00	0.02	0.48	0.01	0.13	0.03	0.03	0.03	0.06	0.06	0.06	0.27	0.91
173	0.00	0.02	0.41	0.02	0.12	0.03	0.03	0.03	0.03	0.03	0.03	0.16	0.73
174	0.00	0.02	0.37	0.01	0.10	0.02	0.02	0.02	0.03	0.03	0.03	0.15	0.65

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175	0.00	0.01	0.34	0.01	0.10	0.02	0.02	0.02	0.02	0.02	0.02	0.13	0.59
176	0.00	0.04	2.05	0.01	0.30	0.04	0.04	0.04	0.03	0.03	0.03	0.22	2.62
177	0.00	0.04	1.71	0.00	0.32	0.06	0.06	0.06	0.04	0.04	0.04	0.30	2.38
178	0.00	0.04	1.43	0.02	0.25	0.03	0.03	0.03	0.03	0.03	0.03	0.18	1.93
179	0.00	0.07	3.34	0.02	0.65	0.14	0.14	0.14	0.09	0.09	0.09	0.70	4.78
180	0.00	0.02	0.51	0.02	0.11	0.02	0.02	0.02	0.01	0.01	0.01	0.08	0.75
181	0.00	0.07	1.52	0.08	0.34	0.06	0.06	0.06	0.02	0.02	0.02	0.22	2.23
182	0.00	0.02	0.47	0.01	0.12	0.02	0.02	0.02	0.01	0.01	0.01	0.09	0.71
183	0.00	0.02	0.58	0.00	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.14	0.89
184	0.00	0.01	0.17	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.25
185	0.00	0.05	1.10	0.01	0.27	0.09	0.09	0.09	0.06	0.06	0.06	0.45	1.87
186	0.00	0.08	1.03	0.05	0.17	0.03	0.03	0.03	0.01	0.01	0.01	0.10	1.44
187	0.00	0.03	0.89	0.01	0.24	0.07	0.07	0.07	0.07	0.07	0.07	0.41	1.58
188	0.00	0.03	1.05	0.01	0.35	0.06	0.06	0.06	0.05	0.05	0.05	0.33	1.77
189	0.00	0.04	1.18	0.01	0.24	0.05	0.05	0.05	0.04	0.04	0.04	0.27	1.74
190	0.00	0.03	0.99	0.01	0.26	0.07	0.07	0.07	0.11	0.11	0.11	0.54	1.83
191	0.00	0.01	0.11	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.17
192	0.00	0.02	0.51	0.02	0.23	0.10	0.10	0.10	0.07	0.07	0.07	0.51	1.28
193	0.00	0.03	0.57	0.04	0.15	0.02	0.02	0.02	0.00	0.00	0.00	0.07	0.87
194	0.00	0.05	1.25	0.01	0.36	0.09	0.09	0.09	0.10	0.10	0.10	0.56	2.22
195	0.00	0.02	0.64	0.02	0.13	0.02	0.02	0.02	0.01	0.01	0.01	0.11	0.91
196	0.00	0.05	1.28	0.02	0.22	0.04	0.04	0.04	0.02	0.02	0.02	0.18	1.74
197	0.00	0.10	3.28	0.08	0.54	0.08	0.08	0.08	0.03	0.03	0.03	0.31	4.30
198	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11
199	0.00	0.02	0.42	0.01	0.12	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.60
200	0.00	0.01	0.49	0.01	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.63
201	0.00	0.00	0.19	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.27
202	0.00	0.00	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
203	0.00	0.01	0.16	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
204	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
205	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
206	0.00	0.01	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
207	0.00	0.01	0.37	0.00	0.09	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.51
208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
209	0.00	0.00	0.11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
212	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07
213	0.00	0.01	0.17	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.24

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214	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
218	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
219	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
224	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
225	0.00	0.01	0.29	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.37
226	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
227	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	0.00	0.00	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08
230	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
231	0.00	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
232	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
233	0.00	0.00	0.10	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
234	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
235	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
236	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
237	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
238	0.00	0.01	0.13	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
239	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
240	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
241	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
242	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
243	0.00	0.00	0.16	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
244	0.00	0.01	0.35	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.44
245	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
246	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
247	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
248	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
249	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
250	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
251	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
252	0.00	0.03	0.81	0.05	0.16	0.05	0.05	0.05	0.05	0.01	0.01	0.01	1.23

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253	0.00	0.03	0.69	0.03	0.15	0.02	0.02	0.02	0.00	0.00	0.00	0.05	0.96
254	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
255	0.00	0.00	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10
256	0.00	0.01	0.12	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18
257	0.00	0.01	0.33	0.02	0.09	0.02	0.02	0.02	0.00	0.00	0.00	0.07	0.51
258	0.00	0.00	0.16	0.00	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.25
259	0.00	0.02	0.50	0.01	0.13	0.04	0.04	0.04	0.01	0.01	0.01	0.14	0.80
260	0.00	0.05	1.16	0.01	0.25	0.03	0.03	0.03	0.01	0.01	0.01	0.11	1.58
261	0.00	0.02	0.59	0.00	0.14	0.03	0.03	0.03	0.02	0.02	0.02	0.14	0.90
262	0.00	0.01	0.28	0.01	0.08	0.02	0.02	0.02	0.01	0.01	0.01	0.06	0.44
263	0.00	0.01	0.71	0.01	0.14	0.02	0.02	0.02	0.00	0.00	0.00	0.06	0.92
264	0.00	0.02	0.31	0.00	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.46
265	0.00	0.01	0.26	0.01	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.39
266	0.00	0.01	0.45	0.01	0.14	0.02	0.02	0.02	0.00	0.00	0.00	0.07	0.68
267	0.00	0.04	1.01	0.01	0.19	0.02	0.02	0.02	0.01	0.01	0.01	0.09	1.34
268	0.00	0.02	0.47	0.02	0.07	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.61
269	0.00	0.06	1.42	0.01	0.37	0.02	0.02	0.02	0.00	0.00	0.00	0.08	1.94
270	0.00	0.04	0.94	0.05	0.20	0.01	0.01	0.01	0.00	0.00	0.00	0.04	1.26
271	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03
272	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
273	0.00	0.01	0.34	0.01	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.45
274	0.00	0.01	0.19	0.01	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.29
275	0.00	0.00	0.19	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
276	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
277	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
278	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
279	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
280	0.00	0.00	0.14	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
281	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
282	0.00	0.01	0.24	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.28
283	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	0.00	0.01	0.06	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
287	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
288	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
289	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
290	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
291	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11

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292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
294	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
295	0.00	0.00	0.08	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
296	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
297	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
300	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot als	0.00	6.99	195.0 9	4.45	46.89	9.81	9.81	9.81	7.94	7.94	7.94	53.2 5	306.77

Table 57(b) AM 10 Carbon Emissions - DfT Sites													
Year 1													
2019 Total Emissions (thousand tonnes CO2)													
Post-scheme													
Ref No	PedalCycles	Motorcycles	Cars Taxis	BusesCoaches	LightGoods Vehicles	V2AxleRigidHGV	V3AxleRigidHGV	V4or5AxleRigidHGV	V3or4Axle ArticHGV	V5AxleArticHGV	V6orMoreAxle ArticHGV	AllHGVs	AllMotorVehicles
1	0.00	0.03	0.90	0.02	0.23	0.05	0.05	0.05	0.03	0.03	0.03	0.24	1.41
2	0.00	0.07	2.41	0.08	0.55	0.09	0.09	0.09	0.06	0.06	0.06	0.44	3.55
3	0.00	0.06	0.88	0.01	0.26	0.06	0.06	0.06	0.04	0.04	0.04	0.30	1.52
4	0.00	0.03	1.08	0.06	0.20	0.03	0.03	0.03	0.02	0.02	0.02	0.14	1.51
5	0.00	0.02	0.72	0.02	0.19	0.04	0.04	0.04	0.02	0.02	0.02	0.17	1.12
6	0.00	0.02	0.84	0.01	0.24	0.07	0.07	0.07	0.16	0.16	0.16	0.70	1.81
7	0.00	0.08	1.17	0.01	0.32	0.07	0.07	0.07	0.06	0.06	0.06	0.39	1.97
8	0.00	0.10	3.24	0.04	0.81	0.17	0.17	0.17	0.15	0.15	0.15	0.98	5.18
9	0.00	0.05	1.73	0.03	0.58	0.09	0.09	0.09	0.08	0.08	0.08	0.52	2.90
10	0.00	0.01	0.38	0.01	0.12	0.01	0.01	0.01	0.00	0.00	0.00	0.06	0.58
11	0.00	0.02	0.95	0.01	0.30	0.08	0.08	0.08	0.08	0.08	0.08	0.48	1.75
12	0.00	0.02	0.88	0.07	0.23	0.03	0.03	0.03	0.01	0.01	0.01	0.13	1.33
13	0.00	0.02	0.62	0.01	0.16	0.03	0.03	0.03	0.03	0.03	0.03	0.18	0.98
14	0.00	0.01	0.16	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.29
15	0.00	0.02	0.51	0.01	0.13	0.03	0.03	0.03	0.03	0.03	0.03	0.20	0.87
16	0.00	0.01	0.40	0.01	0.08	0.02	0.02	0.02	0.02	0.02	0.02	0.09	0.59
17	0.00	0.01	0.34	0.02	0.07	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.47
18	0.00	0.01	0.11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
19	0.00	0.01	0.12	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.17

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20	0.00	0.21	6.27	0.08	1.50	0.43	0.43	0.43	0.17	0.17	0.17	1.80	9.85
21	0.00	0.01	0.24	0.01	0.06	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.34
22	0.00	0.10	1.38	0.06	0.39	0.08	0.08	0.08	0.08	0.08	0.08	0.48	2.41
23	0.00	0.06	1.58	0.03	0.40	0.13	0.13	0.13	0.10	0.10	0.10	0.69	2.77
24	0.00	0.01	0.29	0.01	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.44
25	0.00	0.07	1.64	0.02	0.35	0.14	0.14	0.14	0.11	0.11	0.11	0.73	2.81
26	0.00	0.05	0.92	0.03	0.25	0.06	0.06	0.06	0.03	0.03	0.03	0.27	1.52
27	0.00	0.02	0.53	0.00	0.15	0.05	0.05	0.05	0.01	0.01	0.01	0.17	0.86
28	0.00	0.04	0.53	0.01	0.17	0.06	0.06	0.06	0.05	0.05	0.05	0.36	1.10
29	0.00	0.02	0.52	0.02	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.69
30	0.00	0.03	1.04	0.01	0.20	0.03	0.03	0.03	0.03	0.03	0.03	0.17	1.46
31	0.00	0.02	0.53	0.01	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.70
32	0.00	0.01	0.31	0.02	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.42
33	0.00	0.00	0.14	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
34	0.00	0.06	1.89	0.02	0.44	0.09	0.09	0.09	0.11	0.11	0.11	0.59	3.00
35	0.00	0.00	0.14	0.01	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.21
36	0.00	0.03	0.74	0.01	0.18	0.05	0.05	0.05	0.06	0.06	0.06	0.33	1.29
37	0.00	0.05	0.77	0.02	0.23	0.07	0.07	0.07	0.05	0.05	0.05	0.38	1.45
38	0.00	0.03	1.06	0.04	0.17	0.03	0.03	0.03	0.00	0.00	0.00	0.09	1.38
39	0.00	0.03	1.04	0.03	0.24	0.06	0.06	0.06	0.04	0.04	0.04	0.31	1.65
40	0.00	0.02	0.56	0.03	0.11	0.02	0.02	0.02	0.01	0.01	0.01	0.08	0.79
41	0.00	0.14	2.84	0.16	0.71	0.16	0.16	0.16	0.05	0.05	0.05	0.65	4.49
42	0.00	0.03	0.31	0.01	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.49
43	0.00	0.18	3.19	0.06	0.77	0.14	0.14	0.14	0.08	0.08	0.08	0.66	4.85
44	0.00	0.03	0.51	0.03	0.13	0.03	0.03	0.03	0.03	0.03	0.03	0.19	0.87
45	0.00	0.08	3.09	0.07	0.80	0.18	0.18	0.18	0.19	0.19	0.19	1.11	5.14
46	0.00	0.07	1.33	0.04	0.26	0.03	0.03	0.03	0.01	0.01	0.01	0.11	1.81
47	0.00	0.02	0.66	0.02	0.11	0.03	0.03	0.03	0.02	0.02	0.02	0.14	0.96
48	0.00	0.10	2.53	0.05	0.64	0.13	0.13	0.13	0.16	0.16	0.16	0.88	4.20
49	0.00	0.05	0.85	0.01	0.27	0.09	0.09	0.09	0.06	0.06	0.06	0.45	1.62
50	0.00	0.01	0.22	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.33
51	0.00	0.01	0.24	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.34
52	0.00	0.02	0.58	0.03	0.12	0.02	0.02	0.02	0.01	0.01	0.01	0.09	0.83
53	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16
54	0.00	0.00	0.18	0.00	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.25
55	0.00	0.02	0.67	0.00	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.12	0.95
56	0.00	0.00	0.16	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.21
57	0.00	0.01	0.12	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17
58	0.00	0.01	0.24	0.02	0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.34

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59	0.00	0.00	0.11	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
60	0.00	0.00	0.15	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.19
61	0.00	0.01	0.65	0.01	0.15	0.03	0.03	0.03	0.02	0.02	0.02	0.15	0.97
62	0.00	0.09	1.93	0.03	0.44	0.06	0.06	0.06	0.06	0.06	0.06	0.35	2.84
63	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05
64	0.00	0.01	0.50	0.01	0.13	0.03	0.03	0.03	0.03	0.03	0.03	0.19	0.85
65	0.00	0.02	0.62	0.04	0.11	0.02	0.02	0.02	0.02	0.00	0.00	0.07	0.86
66	0.00	0.15	2.89	0.13	0.67	0.15	0.15	0.15	0.08	0.08	0.08	0.68	4.52
67	0.00	0.06	1.87	0.05	0.40	0.09	0.09	0.09	0.03	0.03	0.03	0.35	2.72
68	0.00	0.12	4.44	0.10	1.17	0.22	0.22	0.22	0.16	0.16	0.16	1.12	6.94
69	0.00	0.00	0.24	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.31
70	0.00	0.01	0.28	0.01	0.07	0.02	0.02	0.02	0.01	0.01	0.01	0.09	0.46
71	0.00	0.03	0.73	0.02	0.13	0.02	0.02	0.02	0.01	0.01	0.01	0.08	0.99
72	0.00	0.00	0.13	0.00	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.20
73	0.00	0.02	1.09	0.02	0.27	0.06	0.06	0.06	0.05	0.05	0.05	0.33	1.73
74	0.00	0.02	0.68	0.69	0.20	0.05	0.05	0.05	0.07	0.07	0.07	0.35	1.94
75	0.00	0.06	0.98	0.03	0.26	0.05	0.05	0.05	0.08	0.08	0.08	0.40	1.72
76	0.00	0.02	0.47	0.01	0.14	0.05	0.05	0.05	0.06	0.06	0.06	0.33	0.98
77	0.00	0.05	1.55	0.05	0.45	0.13	0.13	0.13	0.18	0.18	0.18	0.91	3.01
78	0.00	0.05	1.32	0.05	0.23	0.02	0.02	0.02	0.03	0.03	0.03	0.15	1.78
79	0.00	0.04	0.35	0.01	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.11	0.65
80	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13
81	0.00	0.02	1.00	0.03	0.25	0.04	0.04	0.04	0.05	0.05	0.05	0.28	1.57
82	0.00	0.02	0.35	0.02	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.51
83	0.00	0.01	0.28	0.01	0.08	0.01	0.01	0.01	0.02	0.02	0.02	0.10	0.47
84	0.00	0.03	1.28	0.04	0.26	0.06	0.06	0.06	0.08	0.08	0.08	0.43	2.04
85	0.00	0.01	0.39	0.00	0.10	0.02	0.02	0.02	0.03	0.03	0.03	0.13	0.63
86	0.00	0.04	0.95	0.03	0.20	0.03	0.03	0.03	0.05	0.05	0.05	0.24	1.46
87	0.00	0.09	1.63	0.03	0.43	0.12	0.12	0.12	0.18	0.18	0.18	0.90	3.08
88	0.00	0.12	1.64	0.09	0.38	0.12	0.12	0.12	0.17	0.17	0.17	0.89	3.12
89	0.00	0.21	5.61	0.05	1.47	0.38	0.38	0.38	0.53	0.53	0.53	2.74	10.08
90	0.00	0.01	0.53	0.01	0.12	0.03	0.03	0.03	0.04	0.04	0.04	0.19	0.86
91	0.00	0.04	0.56	0.01	0.12	0.02	0.02	0.02	0.02	0.02	0.02	0.12	0.86
92	0.00	0.07	1.01	0.04	0.32	0.11	0.11	0.11	0.15	0.15	0.15	0.77	2.22
93	0.00	0.01	0.36	0.01	0.10	0.01	0.01	0.01	0.02	0.02	0.02	0.09	0.56
94	0.00	0.05	1.79	0.03	0.48	0.15	0.15	0.15	0.21	0.21	0.21	1.08	3.43
95	0.00	0.01	0.33	0.02	0.07	0.01	0.01	0.01	0.02	0.02	0.02	0.08	0.52
96	0.00	0.01	0.40	0.01	0.09	0.02	0.02	0.02	0.03	0.03	0.03	0.14	0.65
97	0.00	0.03	0.90	0.05	0.22	0.09	0.09	0.09	0.12	0.12	0.12	0.62	1.81

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98	0.00	0.01	0.32	0.00	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.45
99	0.00	0.03	1.05	0.01	0.21	0.04	0.04	0.04	0.05	0.05	0.05	0.26	1.57
100	0.00	0.02	0.64	0.01	0.16	0.03	0.03	0.03	0.05	0.05	0.05	0.24	1.07
101	0.00	0.03	0.72	0.00	0.19	0.04	0.04	0.04	0.06	0.06	0.06	0.32	1.26
102	0.00	0.01	0.37	0.00	0.06	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.47
103	0.00	0.01	0.31	0.03	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.46
104	0.00	0.03	0.45	0.01	0.15	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.69
105	0.00	0.00	0.14	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.20
106	0.00	0.01	0.40	0.02	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.55
107	0.00	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11
108	0.00	0.01	0.65	0.01	0.14	0.03	0.03	0.03	0.04	0.04	0.04	0.19	1.00
109	0.00	0.03	0.95	0.02	0.23	0.04	0.04	0.04	0.05	0.05	0.05	0.27	1.49
110	0.00	0.01	0.74	0.01	0.16	0.02	0.02	0.02	0.03	0.03	0.03	0.17	1.09
111	0.00	0.04	1.36	0.02	0.33	0.04	0.04	0.04	0.06	0.06	0.06	0.32	2.08
112	0.00	0.02	0.86	0.02	0.15	0.03	0.03	0.03	0.04	0.04	0.04	0.19	1.24
113	0.00	0.05	0.65	0.01	0.24	0.02	0.02	0.02	0.03	0.03	0.03	0.17	1.12
114	0.00	0.08	2.08	0.04	0.48	0.13	0.13	0.13	0.19	0.19	0.19	0.95	3.63
115	0.00	0.02	0.70	0.02	0.15	0.02	0.02	0.02	0.03	0.03	0.03	0.15	1.03
116	0.00	0.10	3.97	0.03	1.14	0.21	0.21	0.21	0.30	0.30	0.30	1.54	6.78
117	0.00	0.00	0.09	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.15
118	0.00	0.02	0.38	0.00	0.06	0.01	0.01	0.01	0.02	0.02	0.02	0.09	0.56
119	0.00	0.07	1.48	0.01	0.31	0.07	0.07	0.07	0.10	0.10	0.10	0.49	2.36
120	0.00	0.03	0.70	0.02	0.15	0.04	0.04	0.04	0.05	0.05	0.05	0.27	1.17
121	0.00	0.00	0.12	0.00	0.03	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.19
122	0.00	0.07	0.85	0.01	0.23	0.05	0.05	0.05	0.07	0.07	0.07	0.38	1.55
123	0.00	0.03	1.00	0.02	0.27	0.05	0.05	0.05	0.07	0.07	0.07	0.37	1.69
124	0.00	0.01	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.35
125	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09
126	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13
127	0.00	0.02	0.72	0.01	0.16	0.04	0.04	0.04	0.06	0.06	0.06	0.31	1.23
128	0.00	0.05	1.79	0.01	0.46	0.07	0.07	0.07	0.10	0.10	0.10	0.50	2.80
129	0.00	0.00	0.30	0.01	0.08	0.02	0.02	0.02	0.03	0.03	0.03	0.14	0.53
130	0.00	0.06	1.77	0.04	0.58	0.13	0.13	0.13	0.18	0.18	0.18	0.94	3.39
131	0.00	0.01	0.10	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16
132	0.00	0.02	0.24	0.01	0.09	0.02	0.02	0.02	0.03	0.03	0.03	0.15	0.51
133	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09
134	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
135	0.00	0.01	0.10	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.18
136	0.00	0.01	0.25	0.00	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.39

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137	0.00	0.01	0.19	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.27
138	0.00	0.01	0.11	0.00	0.02	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.16
139	0.00	0.01	0.20	0.00	0.04	0.01	0.01	0.01	0.02	0.02	0.02	0.10	0.36
140	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07
141	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03
142	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07
143	0.00	0.01	0.37	0.01	0.08	0.01	0.01	0.01	0.02	0.02	0.02	0.09	0.56
144	0.00	0.01	0.38	0.01	0.09	0.01	0.01	0.01	0.02	0.02	0.02	0.08	0.57
145	0.00	0.04	1.42	0.02	0.37	0.07	0.07	0.07	0.10	0.10	0.10	0.53	2.38
146	0.00	0.01	0.26	0.00	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.39
147	0.00	0.01	0.61	0.02	0.12	0.03	0.03	0.03	0.04	0.04	0.04	0.20	0.97
148	0.00	0.01	0.54	0.01	0.16	0.03	0.03	0.03	0.05	0.05	0.05	0.25	0.97
149	0.00	0.00	0.25	0.00	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.35
150	0.00	0.01	0.56	0.02	0.11	0.01	0.01	0.01	0.02	0.02	0.02	0.10	0.80
151	0.00	0.02	0.81	0.01	0.23	0.08	0.08	0.08	0.12	0.12	0.12	0.59	1.67
152	0.00	0.01	0.32	0.01	0.05	0.00	0.00	0.00	0.01	0.01	0.01	0.04	0.42
153	0.00	0.01	0.39	0.01	0.11	0.03	0.03	0.03	0.04	0.04	0.04	0.18	0.70
154	0.00	0.08	2.15	0.04	0.61	0.14	0.14	0.14	0.19	0.19	0.19	1.00	3.88
155	0.00	0.00	0.10	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16
156	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09
157	0.00	0.03	0.70	0.01	0.13	0.02	0.02	0.02	0.03	0.03	0.03	0.16	1.03
158	0.00	0.01	0.39	0.01	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.55
159	0.00	0.07	3.58	0.04	0.54	0.07	0.07	0.07	0.10	0.10	0.10	0.50	4.73
160	0.00	0.02	0.97	0.00	0.16	0.02	0.02	0.02	0.03	0.03	0.03	0.17	1.32
161	0.00	0.01	0.39	0.01	0.08	0.01	0.01	0.01	0.02	0.02	0.02	0.08	0.57
162	0.00	0.01	0.19	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.31
163	0.00	0.01	0.22	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.33
164	0.00	0.01	0.25	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.37
165	0.00	0.02	0.84	0.02	0.17	0.02	0.02	0.02	0.03	0.03	0.03	0.15	1.20
166	0.00	0.00	0.10	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.18
167	0.00	0.01	0.33	0.01	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.47
168	0.00	0.03	0.83	0.03	0.18	0.06	0.06	0.06	0.08	0.08	0.08	0.42	1.49
169	0.00	0.08	2.01	0.03	0.65	0.25	0.25	0.25	0.36	0.36	0.36	1.84	4.61
170	0.00	0.17	3.89	0.07	0.96	0.31	0.31	0.31	0.44	0.44	0.44	2.26	7.35
171	0.00	0.02	0.55	0.01	0.15	0.03	0.03	0.03	0.05	0.05	0.05	0.25	0.97
172	0.00	0.02	0.48	0.01	0.13	0.03	0.03	0.03	0.04	0.04	0.04	0.22	0.85
173	0.00	0.02	0.42	0.02	0.11	0.03	0.03	0.03	0.04	0.04	0.04	0.19	0.75
174	0.00	0.02	0.37	0.01	0.10	0.02	0.02	0.02	0.03	0.03	0.03	0.17	0.67
175	0.00	0.02	0.33	0.01	0.09	0.02	0.02	0.02	0.03	0.03	0.03	0.15	0.60

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176	0.00	0.03	2.03	0.01	0.30	0.04	0.04	0.04	0.06	0.06	0.06	0.31	2.68
177	0.00	0.04	1.70	0.00	0.32	0.06	0.06	0.06	0.09	0.09	0.09	0.45	2.51
178	0.00	0.04	1.41	0.02	0.25	0.03	0.03	0.03	0.05	0.05	0.05	0.24	1.96
179	0.00	0.06	3.43	0.02	0.64	0.13	0.13	0.13	0.19	0.19	0.19	0.96	5.11
180	0.00	0.02	0.51	0.02	0.10	0.02	0.02	0.02	0.02	0.02	0.02	0.12	0.78
181	0.00	0.08	1.50	0.07	0.33	0.06	0.06	0.06	0.08	0.08	0.08	0.40	2.38
182	0.00	0.02	0.46	0.01	0.11	0.02	0.02	0.02	0.03	0.03	0.03	0.14	0.75
183	0.00	0.02	0.58	0.00	0.15	0.02	0.02	0.02	0.03	0.03	0.03	0.17	0.92
184	0.00	0.01	0.17	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.26
185	0.00	0.03	1.03	0.01	0.27	0.07	0.07	0.07	0.10	0.10	0.10	0.52	1.85
186	0.00	0.09	1.01	0.05	0.17	0.02	0.02	0.02	0.04	0.04	0.04	0.18	1.50
187	0.00	0.05	1.31	0.05	0.39	0.07	0.07	0.07	0.10	0.10	0.10	0.53	2.33
188	0.00	0.04	1.33	0.01	0.34	0.07	0.07	0.07	0.09	0.09	0.09	0.47	2.19
189	0.00	0.04	1.16	0.01	0.24	0.05	0.05	0.05	0.07	0.07	0.07	0.36	1.80
190	0.00	0.04	0.97	0.01	0.25	0.07	0.07	0.07	0.09	0.09	0.09	0.47	1.74
191	0.00	0.01	0.11	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18
192	0.00	0.03	0.51	0.02	0.15	0.05	0.05	0.05	0.06	0.06	0.06	0.33	1.04
193	0.00	0.03	0.57	0.04	0.15	0.02	0.02	0.02	0.03	0.03	0.03	0.14	0.93
194	0.00	0.05	1.22	0.01	0.35	0.09	0.09	0.09	0.12	0.12	0.12	0.62	2.26
195	0.00	0.02	0.63	0.01	0.13	0.02	0.02	0.02	0.03	0.03	0.03	0.17	0.96
196	0.00	0.05	1.25	0.02	0.21	0.04	0.04	0.04	0.05	0.05	0.05	0.26	1.80
197	0.00	0.10	3.23	0.07	0.53	0.07	0.07	0.07	0.11	0.11	0.11	0.54	4.47
198	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12
199	0.00	0.02	0.41	0.01	0.12	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.62
200	0.00	0.01	0.48	0.01	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.65
201	0.00	0.00	0.19	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.27
202	0.00	0.00	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16
203	0.00	0.00	0.16	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20
204	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04
205	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
206	0.00	0.01	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15
207	0.00	0.01	0.37	0.00	0.09	0.01	0.01	0.01	0.02	0.02	0.02	0.08	0.55
208	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
209	0.00	0.00	0.11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
212	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08
213	0.00	0.00	0.17	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.24
214	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

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215	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
218	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04
219	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
222	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
224	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
225	0.00	0.01	0.29	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.38
226	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
227	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
228	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	0.00	0.00	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08
230	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
231	0.00	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
232	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
233	0.00	0.00	0.10	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12
234	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
235	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
236	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
237	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
238	0.00	0.01	0.13	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.18
239	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
240	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
241	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
242	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
243	0.00	0.00	0.15	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20
244	0.00	0.01	0.34	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.44
245	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
246	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
247	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
248	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
249	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
250	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
251	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03
252	0.00	0.03	0.80	0.05	0.16	0.05	0.05	0.05	0.07	0.07	0.07	0.34	1.38
253	0.00	0.03	0.68	0.03	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.11	1.00

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254	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06
255	0.00	0.00	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11
256	0.00	0.00	0.12	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17
257	0.00	0.01	0.32	0.02	0.09	0.02	0.02	0.02	0.03	0.03	0.03	0.14	0.58
258	0.00	0.01	0.15	0.00	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.25
259	0.00	0.00	0.41	0.00	0.15	0.03	0.03	0.03	0.04	0.04	0.04	0.20	0.78
260	0.00	0.04	1.04	0.03	0.22	0.04	0.04	0.04	0.05	0.05	0.05	0.25	1.58
261	0.00	0.02	0.57	0.01	0.15	0.04	0.04	0.04	0.05	0.05	0.05	0.27	1.02
262	0.00	0.01	0.28	0.01	0.08	0.02	0.02	0.02	0.02	0.02	0.02	0.11	0.48
263	0.00	0.01	0.72	0.01	0.13	0.02	0.02	0.02	0.03	0.03	0.03	0.14	1.01
264	0.00	0.00	0.22	0.00	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.34
265	0.00	0.01	0.21	0.01	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.34
266	0.00	0.01	0.47	0.01	0.15	0.02	0.02	0.02	0.03	0.03	0.03	0.14	0.78
267	0.00	0.03	1.11	0.01	0.22	0.02	0.02	0.02	0.03	0.03	0.03	0.16	1.54
268	0.00	0.02	0.47	0.02	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.06	0.64
269	0.00	0.07	1.31	0.01	0.36	0.02	0.02	0.02	0.03	0.03	0.03	0.15	1.90
270	0.00	0.04	0.88	0.05	0.23	0.01	0.01	0.01	0.02	0.02	0.02	0.11	1.31
271	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
272	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04
273	0.00	0.00	0.34	0.01	0.09	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.48
274	0.00	0.01	0.16	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.30
275	0.00	0.00	0.17	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
276	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
277	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
278	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
279	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06
280	0.00	0.00	0.15	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
281	0.00	0.00	0.11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
282	0.00	0.00	0.20	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.25
283	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	0.00	0.01	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
287	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
288	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
290	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
291	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.12
292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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293	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
294	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
295	0.00	0.00	0.07	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
296	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
297	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03
298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
300	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot als	0.00	6.93	191.5 0	5.10	45.53	9.51	9.51	9.51	10.80	10.80	10.80	60.9 3	309.99

Table 58(a) AM 10 Carbon Emissions - Summary													
Year 1													
2018 Carbon Output													
Pre-scheme													
Period	Pedal Cycles	Motor cycles	Cars Taxis	BusesC oaches	LightGood sVehicles	V2AxleRi gidHGV	V3AxleRi gidHGV	V4or5Axle RigidHGV	V3or4Axle ArticHGV	V5AxleA rticHGV	V6orMoreAxl eArticHGV	AllH GVs	AllMotor Vehicles
Flow	10,909	23,051	2,895 ,165	15,276	464,650	47,727	11,023	11,350	4,766	14,862	19,595	109, 301	3,507,443
Average speed (mph)		31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Emission (g CO ₂ / km)	0.00	6.99	195.0 9	4.45	46.89	9.81	9.81	9.81	7.94	7.94	7.94	53.2 5	306.77

2019 Carbon Output													
Post-scheme													
Flow	11873	22524	2906207	15256	453215	46599	11069	11517	4845	15566	20290	109858	3507053
Average speed (mph)		32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Emission (g CO ₂ / km)	0.00	6.93	191.50	5.10	45.53	9.51	9.51	9.51	10.80	10.80	10.80	60.93	309.99
Carbon Output Comparison													
Traffic Flow (+/-) %	9%	-2%	0%	0%	-2%	-2%	0%	1%	2%	5%	4%	1%	0%
Speed (+/-) %		2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Emission (g CO ₂ / km) (+/-) %	0%	-1%	-2%	15%	-3%	-3%	-3%	-3%	36%	36%	36%	14%	1%

KPI 4 The number of occurrences of reducing the application period (early starts)

This KPI shows where promoters start their works without having to comply with the minimum Permit application lead-in period, commonly known as early start agreements.

Table 59 KPI 4 The number of occurrences of reducing the application period (early starts)			
Period	Year 1		
	Early Starts Agreements		
	Highway Authority	Utilities	Total
Jun-19	-	91	91
Jul-19	-	159	159
Aug-19	-	69	69
Sep-19	-	51	51
Oct-19	-	59	59
Nov-19	-	53	53
Dec-19	-	30	30
Jan-20	-	12	12
Feb-20	-	16	16
Mar-20	-	8	8
Apr-20	-	10	10
May-20	-	28	28
	-	586	586

KPI 5 The number of agreements to work in Section 58 and Section 58A restrictions

Table 60 KPI 5 The number of agreements to work in Section 58 and Section 58A restrictions	
Year 1	353

KPI 6 The proportion of times that a permit authority intervenes on applications

This information is not available at this time.

Table 61 KPI 6 The proportion of times that a permit authority intervenes on applications			
Year 1	No Data	Year 2	No Data

APPENDIX 3 – COSTS and INCOME

FEE INCOME

This permit scheme evaluation report covers the period from the 1st June 2019 to the 31st May 2020 inclusive.

The full year financial report covers the period from the 1st April 2019 to 31st March 2020 in-line with full year financial outturns.

£859,807 of Permit and Permit Variation fee income was received over the full financial year.

Total fee income received was slightly higher than expected due to an increase in the volume of Utility applications.

The original expected volume of Utility Permit applications was circa 15,500 following the application of a risk managed approach. This was actually 17,500 in year 1.

This increase in volume is reflected in the subsequent revenue received.

COSTS BUDGETS AND ACTUALS

A restructuring and ongoing recruitment programme has been undertaken during the first year.

Actual operational requirements and operating costs are now better understood and fully accounted for.

The main unexpected cost increase was in IT support which has risen to over £50,000 and is expected to increase again in year 2.

This has been common across the industry due to the changes to systems needed to accommodate the move to the DfT's Street Manager system.

However, overall costs were still managed within expected revenue, and this has meant that costs were less than fee income by circa £23,000 (3%). This small surplus will be carried forward and expected to be absorbed by ongoing increases in IT expenditure.

The volume of all permit applications was circa 10% higher than originally anticipated for the year.

The additional spend on IT Support is expected to continue in 2020/21 due to the ongoing changes in this area.

Over the next 1 to 3 years a balanced position is expected to arise, assuming permit volumes, costs and fees return to normal levels and then remain relatively consistent.

As fee income is anticipated to be the same or less than costs over the next several years, no consideration will be given changing Permit fees in 2020/21.

Table 62 AM 11 – Costs / Budgets Against Actuals		
Start-up Cost Centre	Year 1 Risk Budget	Year 1 Actuals
KPI Production	£30,000	£30,000
Invoicing	£50,000	£100,000
IT support	£25,000	£50,758
Unauthorised / Abandoned works	£40,000	£90,000
Management Overhead	£25,000	£69,899
Training	£10,000	£12,900
Staff	£660,000	£482,969
Totals	£840,000	£836,526

AVERAGE PERMIT COST

By dividing the number of Utility Permits granted by the Permit Scheme cost an average cost per Permit can be calculated.

This is a useful indicator of the general scheme costs to Utilities and can be compared to other schemes to show a general financial efficiency level.

Table 63 AM 11 – Average Permit Cost			
Year 1			
	Total Permit Applications	Total Scheme Cost	Average Permit Cost
Promoters	21,841	£836,526	£38

BENEFIT TO COST RATIO

Table 64 Highway Authority Cost Benefit results		
Highway Authority Assessment	Opening Year	1st Year
5% reduction in works impact	Predicted (NPV Costs)	Actuals
Net Present Value of Benefits	£31,296,835	£46,980,361
Net Present Value of Costs	£1,022,122	£616,526
Net Present Value of Scheme	£30,274,713	£46,363,835
Benefit to Cost Ratio	30.62	76.20

END