



Figure 6.A: Location of all traffic surveys

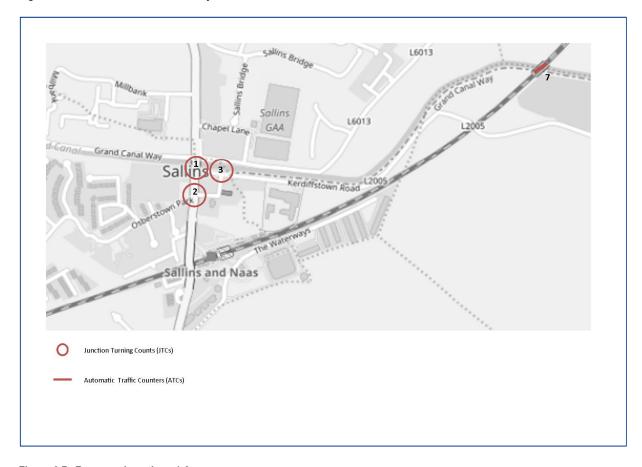


Figure 6.B: Focus on Locations 1-3



From these traffic counts the network peak hours on the local road network were established as follows:

- AM peak 09:00 to 10:00
- PM peak 17:00 to 18:00

The AM network peak, detailed above, is later than the recorded peak in and around the N7, possibly due to the high prevalence of school traffic in Sallins. In order to ensure that the peak impacts are assessed on the entire modelled network, a 3 hour peak period (07:00 - 10:00) has been assessed, with localised flow profiles across the three hour period determined through analysis of the traffic survey data.

Demand matrices were developed to represent the various zone to zone traffic movements in the study area based on the observed traffic patterns across the defined AM (07:00 - 10:00) and PM (16:00 - 19:00) peak periods. The demand matrices allow for differing vehicle classes to be assigned to the network and are profiled at fifteen minute time intervals.

6.3 Traffic Growth

Traffic growth for the surrounding road network is based on the medium growth rates for East Ireland obtained from NRA Project Appraisal Guidelines, Unit 5.5 Link-Based Traffic Growth Forecasting.

The commencement of the Remediation Phase is subject to the determination of the planning process, the period for which is not defined. As a result a start date of remediation works for the purposes of this traffic and transport assessment has been assumed as 2018. This ensures a robust assessment of the Remediation Phase impacts.

By assuming that the peak traffic volumes relating to the remediation works occur in the first year of the Remediation Phase, i.e. 2018, baseline traffic is projected to an earlier year and thus utilises a lower projected baseline. The addition of the associated percentage increase to this baseline, taking cognisance of the estimated total daily construction traffic volumes, would be higher than use of a later start date (this would see a higher projected baseline but lower percentage increase). It is therefore considered that this assumed start date of 2018 represents a more robust approach.

Furthermore, with the proposed Remediation Phase estimated to last between three and four years, the Operational Phase of the proposed Project is anticipated to commence (at the earliest) in 2022. As a result, and in a similar approach to that above, baseline traffic has been projected to this year for the purposes of a robust Operational Phase assessment.

The following medium growth rates, from NRA Project Appraisal Guidelines, Unit 5.5 Link-Based Traffic Growth Forecasting, have been applied to the base flows for the following scenarios:

- Medium growth rate of 1.022 (All Traffic) and 1.016 (HGVs) for peak remediation year of 2018;
- Medium growth rate of 1.055 (All Traffic) and 1.048 (HGVs) for operational year of 2022;
- Medium growth rate of 1.097 (All Traffic) and 1.048 (HGVs) for operational year of 2027; and
- Medium growth rate of 1.187 (All Traffic) and 1.048 (HGVs) for operational year of 2037; and

The demand associated with the development (during remediation and operation) are then added to the background traffic growth levels as detailed in Chapter 5 (Section 5.2.1).

6.4 Assessment Scenarios

The scenarios considered within the traffic impact assessment for the AM and PM peak periods are:

- 2017 Base;
- 2018 Projected Do Minimum (assumed remediation start);
- 2022 Projected Do Minimum (assumed operational start);



- 2027 Projected Do Minimum (assumed operational start);
- 2037 Projected Do Minimum (assumed operational start);
- 2018 Projected + Remediation Traffic;
- 2018 Projected + Remediation Traffic (Sensitivity Test);
- 2022 Projected + Operational Traffic;
- 2027 Projected + Operational Traffic; and
- 2037 Projected + Operational Traffic.

The traffic flows for each of the above scenarios are illustrated in Figures 6.1 to 6.20 in Appendix A.

6.5 Model Reporting and Key Points

Impacts on forecast maximum queue lengths were considered in both the remediation and operational assessments. The maximum queue lengths are summarised in the report for comparison between the model scenarios and the forecasts represent the predicted maximum levels of queuing across the busiest 15 minute periods on each junction approach, which provide a more robust view of the likely queuing levels at peak times. It should also be noted that the forecast maximum queues, represent the maximum expected during the three hour period and do not reflect queuing levels for the full three hours.

Model queue lengths are reported in vehicles based on a standard length of around 5.5m to 6m per vehicle.

Vehicle Delay (seconds) was also considered in the assessment of the model scenarios and these present forecast average delay estimates during the peak periods.

Traffic on the N7, constituting use of Junction 8, was considered as part of the model assessment, in addition to traffic using the local roads that interact at the interchange. Increases in traffic associated with the proposed Project experienced on the mainline N7 are considered to have a negligible impact due to the high carrying capacity of the strategic road network.

6.6 Model Results and Analysis

6.6.1 2017 Base Network

As discussed in Section 6.1, a 2017 microsimulation model was developed, which was calibrated and validated against 2017 base traffic surveys and queue length surveys, in order to robustly assess the remediation and operational impacts of the proposed development. Full details of the calibration and validation of the model are contained within Appendix B.

Table 6.1 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all junctions within the base AM and PM peak models with commentary on the results below.

Table 6.1: AM and PM Peak Period 2017 Base

	2017 (Base Network)								
			AM Peak Period (07:00-10:00)		PM Peak Period (16:00-19:00)				
Jun	ction / Location	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)			
1	R407 / Church Ave, Sallins	R407 North	7	2	5	2			
		R407 South	11	5	6	3			



		2017 (Bas	e Network)			
			AM Pea (07:00	k Period -10:00)		k Period -19:00)
Jun	ction / Location	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
		Church Avenue East	2	9	6	13
	Church Ave (W) /	Church Avenue East	0	0	0	1
2	Church Ave (S),	Church Avenue North	2	1	1	1
	Sallins	Church Avenue West	1	1	1	1
		Church Avenue East	8	17	18	37
3	R407 / Church Ave (E)	R407 North	11	2	13	2
		R407 South	31	9	30	8
		Church Avenue East	0	2	0	6
4	Church Ave / Sallins National School	Church Avenue West	0	2	0	2
		School	5	1	5	3
-	Church Ave Railway Bridge	Church Avenue East	0	1	0	5
5		Church Avenue West	0	1	0	1
	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road East	0	2	0	6
6		Kerdiffstown Road West	0	2	0	1
		Golf Club	1	1	0	0
		Kerdiffstown Road East	0	1	1	5
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road west	0	3	0	2
	Editoriii Otto	Landfill	0	1	1	1
	N7 Access Road /	N7 Access Road East	1	1	1	4
8	Johnstown Garden Centre	Johnstown Garden	0	0	1	1
		N7 Access Road West	0	3	0	1
		The Paddocks	1	5	2	4
9	N7 North Roundabout	N7 off-slip EB	3	6	3	6
3	N7 North Houndabout	Greenhill Overbridge	0	2	1	1
		N7 Access Road	3	7	2	3
		Palmerstown	3	4	4	3
10	N7 South Roundabout	Kill West	2	1	4	3
10	N7 South Roundabout	Greenhill Overbridge	2	2	2	3
		N7 off-slip WB	4	3	5	4

During the AM peak period, the greatest level of queuing is reported on the R407 (N) arm of the R407 / Church Avenue junction in Sallins, with a maximum queue length of 30 vehicles. At this junction a queue of 13 vehicles is also noted on the R407 (S) arm. Other locations experiencing queuing of note are also in Sallins, at the R407 (Church Avenue junction, where a maximum queue of 7 vehicles is noted on the R407 (N) arm and 11 vehicles on the R407 (S) arm. Queueing elsewhere on the network is relatively minor during the AM peak.



During the PM peak, the R407/Church Avenue East junction again experiences the longest queues in the network, with 26 vehicles southbound, 17 vehicles for Church Avenue eastbound and 12 vehicles for R407 northbound. The other R407/Church Avenue junction in Sallins experiences some degree of queuing in the PM, ranging from 4 to 6 vehicles, with minor levels of queuing at other locations.

There are no predicted queuing issues at any other assessed location on the network.

6.6.2 2018 / 2022 / 2027 / 2037 Projected Network

The 2018 (assumed Remediation Phase start) and 2022 (earliest assumed Operational Phase start) projected scenarios were developed to provide a robust comparative traffic scenario with the existing road network. Furthermore, future year scenarios (5 years and 15 years after estimated park opening/ commencement of Operational Phase) have been modelled to comply with requirements of a TTA.

Tables 6.2 to 6.5 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all relevant locations within the projected AM and PM peak models with commentary on the results below. In relation to the Remediation Phase specific scenarios (2018), given that no HGV traffic associated with the remediation works will be permitted to route via Sallins, these junctions have been omitted from the Remediation Phase analysis.

Table 6.2: AM and PM Peak Period 2018 Projected

	2018 (Projected Network)									
		L		k Period -10:00)	PM Peak Period (16:00-19:00)					
Jun	ction / Location		Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)				
		Kerdiffstown Road East	2	2	4	1				
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road west	2	3	2	0				
		Landfill	0	1	0	0				
	N7 Access Road / Johnstown Garden Centre	N7 Access Road East	2	1	0	1				
8		Johnstown Garden	0	0	1	0				
		N7 Access Road West	1	3	0	0				
		The Paddocks	1	4	1	1				
9	N7 North Roundabout	N7 off-slip EB	3	6	4	1				
9	N/ North Houndabout	Greenhill Overbridge	0	1	1	0				
		N7 Access Road	4	6	2	1				
		Palmerstown	3	2	3	1				
10	NZ Courth Douglah aut	Kill West	2	1	5	1				
10	N7 South Roundabout	Greenhill Overbridge	2	2	3	0				
		N7 off-slip WB	3	3	7	1				



Table 6.3: AM and PM Peak Period 2022 Projected

		2022 (Projec	cted Network)			
				k Period -10:00)		k Period -19:00)
Jun	ction / Locations	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
		R407 North	7	2	3	2
1	R407 / Church Ave, Sallins	R407 South	13	6	7	3
		Church Avenue East	2	12	6	17
	Church Ave (W) /	Church Avenue East	0	1	0	1
2	Church Ave (S),	Church Avenue North	2	1	1	1
	Sallins	Church Avenue West	2.3	1	1	2
	3 R407 / Church Ave (E)	Church Avenue East	7	17	17	38
3		R407 North	13	2	12	2
		R407 South	30	9	26	8
4	Church Ave / Sallins National School	Church Avenue East	0	3	0	6
		Church Avenue West	1	2	0	1
		School	4	1	4	3
_	Church Ave Railway Bridge	Church Avenue East	0	1	0	5
5		Church Avenue West	0	1	0	0
		Kerdiffstown Road East	0	2	0	7
6	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road West	0	2	0	1
	Hada don olab	Golf Club	1	1	0	0
		Kerdiffstown Road East	2	2	2	4
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	1	3	3	2
	Landini Oile	Landfill	0	1	1	0
	N7 Access Road /	N7 Access Road East	2	1	1	4
8	Johnstown Garden	Johnstown Garden	0	0	1	1
	Centre	N7 Access Road West	2	4	0	1
		The Paddocks	1	4	1	4
	N= N =	N7 off-slip EB	3	6	3	6
9	N7 North Roundabout	Greenhill Overbridge	0	1	1	1
		N7 Access Road	3	6	2	4
		Palmerstown	2	2	3	4
		Kill West	1	1	3	3
10	N7 South Roundabout	Greenhill Overbridge	3	2	1	2
		N7 off-slip WB	3	3	7	5



Table 6.4: AM and PM Peak Period 2027 Projected

		2027 (Projec	ted Network)			
			AM Pea (07:00	k Period -10:00)		k Period -19:00)
Jun	ction / Locations	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
		R407 North	11	2	4	2
1	R407 / Church Ave, Sallins	R407 South	11	6	6	3
		Church Avenue East	3	10	6	16
	Church Ave (W) /	Church Avenue East	0	0	0	1
2	Church Ave (S),	Church Avenue North	2	1	1	1
	Sallins	Church Avenue West	0	1	1	1
	Church Avenue East	7	17	16	39	
3	R407 / Church Ave (E)	R407 North	13	2	13	2
		R407 South	30	10	26	7
4	Church Ave / Sallins National School	Church Avenue East	0	3	2	7
		Church Avenue West	0	2	0	2
		School	4	1	4	2
_	Church Ave Railway Bridge	Church Avenue East	0	1	0	5
5		Church Avenue West	0	1	0	1
		Kerdiffstown Road East	0	2	0	1
6	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road West	1	1	0	1
	ridus don olds	Golf Club	0	2	0	7
		Kerdiffstown Road East	2	1	3	4
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	1	3	2	2
	Editatiii Oite	Landfill	0	0	0	0
	N7 Access Road /	N7 Access Road East	1	1	2	4
8	Johnstown Garden	Johnstown Garden	0	0	1	1
	Centre	N7 Access Road West	3	4	0	1
		The Paddocks	1	5	1	4
^	NZ Novib Download	N7 off-slip EB	3	6	4	6
9	N7 North Roundabout	Greenhill Overbridge	1	1	1	1
		N7 Access Road	4	6	2	3
		Palmerstown	3	2	3	3
	NZ O II. B	Kill West	2	1	4	3
10	N7 South Roundabout	Greenhill Overbridge	2	2	2	2
		N7 off-slip WB	3	3	8	5



Table 6.5: AM and PM Peak Period 2037 Projected

		2037 (Projec	cted Network)			
			AM Pea (07:00	k Period -10:00)		k Period -19:00)
Jun	ction / Locations	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
	B407 / Church Avo	R407 North	12	2	11	2
1	R407 / Church Ave, Sallins	R407 South	12	7	11	6
		Church Avenue East	2	16	8	21
	Church Ave (W) /	Church Avenue East	0	1	6	3
2	Church Ave (S),	Church Avenue North	1	2	1	1
	Sallins	Church Avenue West	1	1	2	1
		Church Avenue East	10	26	22	69
3	R407 / Church Ave (E)	R407 North	14	2	13	2
		R407 South	35	14	31	8
4	Church Ave / Sallins National School	Church Avenue East	0	4	2	7
		Church Avenue West	1	2	0	1
		School	4	1	4	3
5	Church Ave Railway	Church Avenue East	0	2	0	5
9	Bridge	Church Avenue West	0	1	0	0
		Kerdiffstown Road East	0	2	0	1
6	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road West	1	1	0	1
		Golf Club	0	2	1	7
		Kerdiffstown Road East	2	1	3	4
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	2	4	2	2
		Landfill	0	0	0	0
	N7 Access Road /	N7 Access Road East	2	1	3	9
8	Johnstown Garden	Johnstown Garden	0	0	1	1
	Centre	N7 Access Road West	4	4	0	1
		The Paddocks	1	5	2	4
9	N7 North Roundabout	N7 off-slip EB	3	6	4	7
,	N/ North Houndabout	Greenhill Overbridge	0	2	1	1
		N7 Access Road	5	6	3	3
		Palmerstown	3	4	4	3
10	N7 South Roundabout	Kill West	2	1	6	3
10	N7 South Roundabout	Greenhill Overbridge	4	2	2	2
		N7 off-slip WB	3	3	10	5



For future year projections, minor increases are anticipated in relation to maximum queuing and delay at a number of locations on the network, but overall delay and maximum queuing remain negligible. A similar pattern is reflected for Junction 8.

No HGVs will be permitted to route via Sallins during the Remediation Phase hence no impacts to future traffic flows from Remediation Phase traffic is anticipated for Sallins junctions (1-6).

6.6.3 2018 Projected + Remediation Phase Traffic Network

The 2018 projected plus Remediation Phase traffic scenario (assuming 30% of Remediation Phase traffic arrives / departs in the peak periods) were developed to provide a comparative traffic scenario with base / projected road network performance.

Table 6.6 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all relevant junctions within the projected 2018 + Remediation Phase AM and PM peak models with commentary on the results below. In relation to the Remediation Phase specific scenarios (2018), given that no HGV traffic will be permitted to route via Sallins during the Remediation Phase, and with only a small number of site personnel trips anticipated, these junctions have been omitted from the Remediation Phase analysis.

Table 6.6: AM and PM Peak Period 2018 Projected + Remediation Phase

	2018 Projected + Remediation								
			7	AM Peak Period (07:00-10:00)		k Period -19:00)			
Jun	oction / Location	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)			
		Kerdiffstown Road East	2	2	3	5			
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	3	3	4	2			
		Landfill	2	1	1	1			
	N7 Access Road / Johnstown Garden Centre	N7 Access Road East	1	1	1	6			
8		Johnstown Garden	0	0	1	2			
		N7 Access Road West	1	3	1	1			
		The Paddocks	1	1	2	4			
	NZ Navile Davidale and	N7 off-slip EB	3	6	4	6			
9	N7 North Roundabout	Greenhill Overbridge	0	1	1	1			
		N7 Access Road	3	8	2	3			
		Palmerstown	3	3	3	5			
10	NZ Courte Douadah aut	Kill West	2	1	6	3			
10	N7 South Roundabout	Greenhill Overbridge	2	2	2	2			
		N7 off-slip WB	3	3	7	5			

Locations where projected 2018 + Remediation Phase traffic is anticipated to increase by 1 vehicle length or more include the following:

AM Peak (level of increase in queuing)

J7 (Kerdiffstown Road west at landfill site) –1 vehicle

PM Peak (level of increase in queuing)



J7 (Kerdiffstown Road westbound at landfill site) –1 vehicle

The overall impact of these additional vehicles in relation to maximum queuing and delay is negligible.

It is recorded that HGV traffic (which comprises the majority of Remediation Phase traffic) will not be permitted to route via Sallins, hence no impacts to future traffic flows from Remediation Phase traffic is anticipated for Sallins junctions (1-6).

6.6.4 2018 Projected + Remediation Phase (Sensitivity Test) Traffic Network

The 2018 projected plus Remediation Phase traffic sensitivity test scenario (assuming 100% of Remediation Phase traffic arrives / departs in both peak periods) was developed to provide a comparative traffic scenario with base / projected road network performance.

Table 6.7 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all relevant junctions within the projected 2018 + Remediation Phase sensitivity test AM and PM peak models with commentary on the results below. In relation to the Remediation Phase specific scenarios (2018), given that no HGV traffic will be permitted to route via Sallins during the Remediation Phase, and with only a small number of site personnel trips anticipated, these junctions have been omitted from the Remediation Phase analysis.

Table 6.7: AM and PM Peak Period 2018 Projected + Remediation Phase (Sensitivity Test)

	2018 Projected + Remediation (sensitivity test)									
				AM Peak Period (07:00-10:00)		k Period -19:00)				
Junction / Location		Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)				
	14 114	Kerdiffstown Road East	5	2	4	5				
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	3	3	4	2				
		Landfill	3	1	2	1				
	N7 Access Road / Johnstown Garden Centre	N7 Access Road East	2	3	3	4				
8		Johnstown Garden	0	0	1	2				
		N7 Access Road West	2	3	1	1				
		The Paddocks	1	4	2	4				
	N7 North Roundabout	N7 off-slip EB	4	6	4	6				
9	N/ North Houndabout	Greenhill Overbridge	0	2	1	1				
		N7 Access Road	7	6	3	3				
		Palmerstown	3	2	3	3				
10	N7 Cauth Dayndahaut	Kill West	2	1	5	3				
10	N7 South Roundabout	Greenhill Overbridge	3	2	2	2				
		N7 off-slip WB	4	3	7	5				

The sensitivity test scenario shows more acute growth in queue lengths, though delay time remains relatively minor. For the landfill site entrance (junction 7), a maximum potential AM peak queue increase of 4 vehicles for eastbound Kerdiffstown Road is predicted. At the same junction in the PM peak, an increased queue length of 4 vehicles would be anticipated for westbound Kerdiffstown Road.

Some minor growth in queue lengths and time delay would be predicted for junctions 8, 9 and 10. The largest single location for potential growth aside from the site entrance is shown to be at the N7 north roundabout



junction with N7 Access Road, where queuing would increase by 3 vehicles in the AM peak. During the PM peak, the largest potential area for queuing growth is at the N7 south roundabout junction with the N7 westbound off slip, a growth of 2 vehicles.

It is recorded that HGV traffic (which comprises the majority of Remediation Phase traffic) will not be permitted to route via Sallins, hence no impacts to future traffic flows from Remediation Phase traffic is anticipated for Sallins junctions (1-6).

6.6.5 2022 Projected + Operational Phase Traffic Network

The 2022 (assumed Operational Phase start) projected plus Operational Phase traffic scenarios were developed to provide a comparative traffic scenario with the base / projected road network performance.

Table 6.8 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all locations within the projected 2022 + Operational Phase Traffic AM and PM peak models with commentary on the results below.

Table 6.8: AM and PM Peak Period 2022 Projected + Operational Phase Traffic

		2022 Projected	d + Operationa			
				k Period -10:00)	PM Peak Period (16:00-19:00)	
Jun	ction / Location	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
	R407 / Church Ave, Sallins	R407 North	7	2	4	2
1		R407 South	11	6	8	3
	O.I.IIIIIO	Church Avenue East	2	10	7	17
	Church Ave (W) /	Church Avenue East	0	0	1	2
2	Church Ave (S),	Church Avenue North	2	1	1	1
	Sallins	Church Avenue West	0	1	1	2
	R407 / Church Ave (E)	Church Avenue East	8	18	19	40
3		R407 North	13	2	13	2
		R407 South	34	10	32	10
		Church Avenue East	0	3	0	6
4	Church Ave / Sallins National School	Church Avenue West	1	2	0	1
		School	5	1	5	3
5	Church Ave Railway	Church Avenue East	0	1	0	5
5	Bridge	Church Avenue West	0	1	0	0
		Kerdiffstown Road East	0	2	0	6
6	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road West	0	2	0	1
		Golf Club	1	1	0	0
		Kerdiffstown Road East	3	2	3	5
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	1	3	3	2
	Landilli Oito	Landfill	1	1	1	1
8	N7 Access Road /	N7 Access Road East	1	1	1	4



	2022 Projected + Operational									
Junction / Location		Approach		AM Peak Period (07:00-10:00)		k Period -19:00)				
			Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)				
	Johnstown Garden Centre	Johnstown Garden	0	0	1	1				
	Centre	N7 Access Road West	2	3	1	1				
	NZ N D	The Paddocks	1	5	2	4				
9		N7 off-slip EB	3	6	4	6				
9	N7 North Roundabout	Greenhill Overbridge	0	1	1	1				
		N7 Access Road	4	6	2	3				
		Palmerstown	2	3	3	4				
10	N7 South Boundahout	Kill West	2	1	4	3				
-10	N7 South Roundabout	Greenhill Overbridge	2	2	2	2				
		N7 off-slip WB	3	3	7	5				

All 10 junctions will potentially be impacted by Operational Phase traffic. Locations where projected 2022 + Operational Phase traffic is anticipated to increase by more than 1 vehicle length include the following:

AM Peak (level of increase in queuing)

- J3 (R407 southbound at Church Avenue East) 3 vehicles
- J7 (Kerdiffstown Road eastbound at landfill site) 2 vehicles

PM Peak (level of increase in queuing)

- J1 (R407 southbound at Church Avenue) 2 vehicles
- J7 (Kerdiffstown Road westbound at landfill site) 2 vehicles

The overall impact of these additional vehicles in relation to maximum queuing and delay is negligible with only minor increases in queueing predicted at a small number of locations on the network.

6.6.6 2027 Projected + Operational Phase Traffic Network

The 2027 (5 years post Operational Phase start) projected plus Operational Phase traffic scenarios were developed to provide a comparative traffic scenario with the base / projected road network performance.

Table 6.9 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all locations within the projected 2027 + Operational Phase Traffic AM and PM peak models with commentary on the results below.



Table 6.9: AM and PM Peak Period 2027 Projected + Operational Phase Traffic

		2027 Projected	d + Operational			
			AM Pea (07:00-	k Period -10:00)		k Period -19:00)
Jun	ction / Location	Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
		R407 North	7	2	4	2
1	R407 / Church Ave, Sallins	R407 South	12	6	8	3
		Church Avenue East	8	15	6	14
	Church Ave (W) /	Church Avenue East	0	0	0	1
2	Church Ave (S),	Church Avenue North	2	2	1	1
	Sallins	Church Avenue West	3	1	1	1
	3 R407 / Church Ave (E)	Church Avenue East	6	19	18	39
3		R407 North	13	2	13	2
		R407 South	30	11	25	7
		Church Avenue East	0	3	1	7
4	Church Ave / Sallins National School	Church Avenue West	0	2	1	2
		School	4	1	4	2
5	Church Ave Railway	Church Avenue East	0	1	0	5
	Bridge	Church Avenue West	0	1	0	1
		Kerdiffstown Road East	0	2	0	1
6	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road West	1	1	0	0
		Golf Club	0	2	1	7
		Kerdiffstown Road East	2	1	3	4
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road West	2	3	3	2
		Landfill	0	1	0	0
	N7 Access Road /	N7 Access Road East	0	1	1	6
8	Johnstown Garden	Johnstown Garden	0	0	0	1
	Centre	N7 Access Road West	0	3	1	1
		The Paddocks	1	5	1	4
9	N7 North Roundabout	N7 off-slip EB	2	6	4	6
9	N/ North Houndabout	Greenhill Overbridge	0	1	1	1
		N7 Access Road	5	6	2	3
		Palmerstown	3	2	4	3
10	N7 South Roundabout	Kill West	1	1	6	3
10	N/ South Houndabout	Greenhill Overbridge	2	2	2	2
		N7 off-slip WB	3	3	7	5

All 10 junctions will potentially be impacted by Operational Phase traffic. Locations where projected 2027 + Operational Phase traffic is anticipated to increase by more than 1 vehicle length against the 2027 projected scenario include the following:



AM Peak (level of increase in queuing)

- J1 (R407 / Church Ave, Sallins at Church Avenue East) 5 vehicles
- J2 (Church Ave (W) / Church Ave (S), Sallins at Church Avenue West) 2 vehicles
- J9 (N7 North Roundabout at N7 Access Road) 2 vehicles

PM Peak (level of increase in queuing)

J1 (R407 southbound at Church Avenue) – 2 vehicles

The overall impact of these additional vehicles in relation to maximum queuing and delay is negligible.

6.6.7 2037 Projected + Operational Phase Traffic Network

The 2037 (15 years post Operational Phase start) projected plus Operational Phase traffic scenarios were developed to provide a comparative traffic scenario with the base / projected road network performance.

Table 6.10 below presents maximum queue lengths (vehicles) and Vehicle Delay (seconds) for all locations within the projected 2037 + Operational Phase Traffic AM and PM peak models with commentary on the results below.

Table 6.10: AM and PM Peak Period 2037 Projected + Operational Phase Traffic

		2037 Projected	d + Operationa			
		Approach		k Period -10:00)	PM Peak Period (16:00-19:00)	
Jun	ction / Location		Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
		R407 North	14	2	8	2
1	R407 / Church Ave, Sallins	R407 South	12	7	12	4
		Church Avenue East	2	18	7	25
	Church Ave (W) /	Church Avenue East	0	0	4	2
2	Church Ave (S), Sallins	Church Avenue North	2	2	1	1
		Church Avenue West	1	1	1	2
	R407 / Church Ave (E)	Church Avenue East	9	25	23	64
3		R407 North	13	2	13	2
		R407 South	35	13	29	8
		Church Avenue East	0	3	2	7
4	Church Ave / Sallins National School	Church Avenue West	1	2	1	3
		School	4	1	4	3
5	Church Ave Railway	Church Avenue East	0	1	0	6
- 5	Bridge	Church Avenue West	0	1	0	1
		Kerdiffstown Road East	0	2	0	1
6	Kerdiffstown Road / Naas Golf Club	Kerdiffstown Road West	1	1	0	0
		Golf Club	0	2	0	7



2037 Projected + Operational						
Junction / Location Approx			AM Peak Period (07:00-10:00)		PM Peak Period (16:00-19:00)	
		Approach	Maximum Queue Length (vehicles)	Delay (seconds)	Maximum Queue Length (vehicles)	Delay (seconds)
7	Kerdiffstown Road / Landfill Site	Kerdiffstown Road East	2	2	4	5
		Kerdiffstown Road West	2	4	3	2
		Landfill	1	1	1	1
8	N7 Access Road / Johnstown Garden Centre	N7 Access Road East	1	1	1	4
		Johnstown Garden	0	0	1	2
		N7 Access Road West	1	4	0	1
9	N7 North Roundabout	The Paddocks	1	5	1	4
		N7 off-slip EB	4	6	4	7
		Greenhill Overbridge	0	2	2	1
		N7 Access Road	4	8	2	6
10	N7 South Roundabout	Palmerstown	3	2	5	3
		Kill West	2	1	5	3
		Greenhill Overbridge	2	2	2	2
		N7 off-slip WB	3	3	8	5

All 10 junctions will potentially be impacted by Operational Phase traffic. Locations where projected 2037 + Operational Phase traffic is anticipated to increase by more than 1 vehicle length include the following:

AM Peak (level of increase in queuing)

• J1 (R407 / Church Ave, Sallins at R407 North Arm) – 2 vehicles

The overall impact of these additional vehicles in relation to maximum queuing and delay is negligible.



7. Summary and Conclusion

7.1 Summary

The scope of the assessment and related assumptions used in this Traffic and Transport Assessment have been discussed and agreed with Kildare County Council (KCC) Roads Department.

Reference has been made to national, regional and local planning policy. The policies at all levels aim to promote sustainable travel, provide a choice of transport mode and reduce the impact of private car use. The proposed development has been designed in accordance with these policies.

Vehicular access to the site will be via a new roundabout, located in close proximity to the existing site access off L2005 Kerdiffstown Road, to be constructed in order to provide an access arrangement that can safely accommodate all traffic associated with all phases of the proposed Project. The location and form of the proposed access, selected following an appraisal of options through a desk study and site visit, represents the safest and most appropriate location for the access. The roundabout and associated realignment of the L2005 Kerdiffstown Road, which has been designed in accordance with DMURS standards, maximises visibility despite the constrained environment and improves the condition of the existing road as well as providing a safe access arrangement for the proposed Project.

Pedestrians and cyclists are given due consideration within the internal site layout with appropriate walking and cycling facilities provided. Furthermore, a shared footway / cycleway is proposed along the realigned extents of the L2005 Kerdiffstown Road, which will link the site with the existing pedestrian / cycle infrastructure to the south of the L2005 Kerdiffstown Road.

The operation of the road network and key junction capacity in the vicinity of the proposed Project has been modelled using a VISSIM microsimulation model. The model evaluates the potential impacts on the local road network during Remediation and Operational Phases for the proposed Project. Through undertaking a robust assessment of construction and operational traffic impacts, it is predicted that the existing road network can accommodate all additional traffic associated with the proposed Project.

7.2 Conclusions

The assessment of construction and operational traffic generated by the proposed Project indicates that the existing road network can accommodate the additional traffic during the peak hours. Traffic associated with the Remediation Phase and Operational Phase is not predicted to significantly increase traffic levels at the junctions studied and therefore it can be concluded that the proposed Project will not have a detrimental impact on the road network.

The provision of a Construction Traffic Management Plan will mitigate and reduce the environmental impacts of the Remediation Phase. In conjunction with appropriate parking provision this will encourage staff to travel by sustainable modes to the work site as well as ensure that traffic, equipment and materials associated with the Remediation Phase can reasonably be accommodated within the site or at a designated off-site space.

For the Operational Phase adequate provision for both car and cycle parking is included within the proposed Project, aligning with the requirements of the County Development Plan. The promotion of cycle and pedestrian access also aligns with the objectives of current policy documents.



Appendix A. Traffic Flow Diagrams

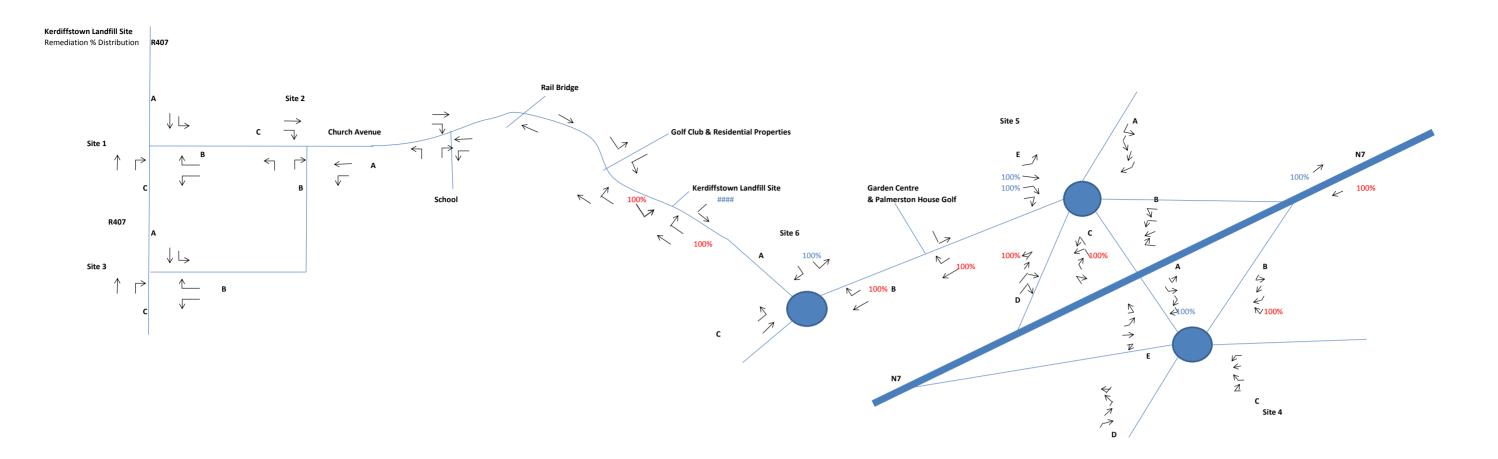


Figure 5.1

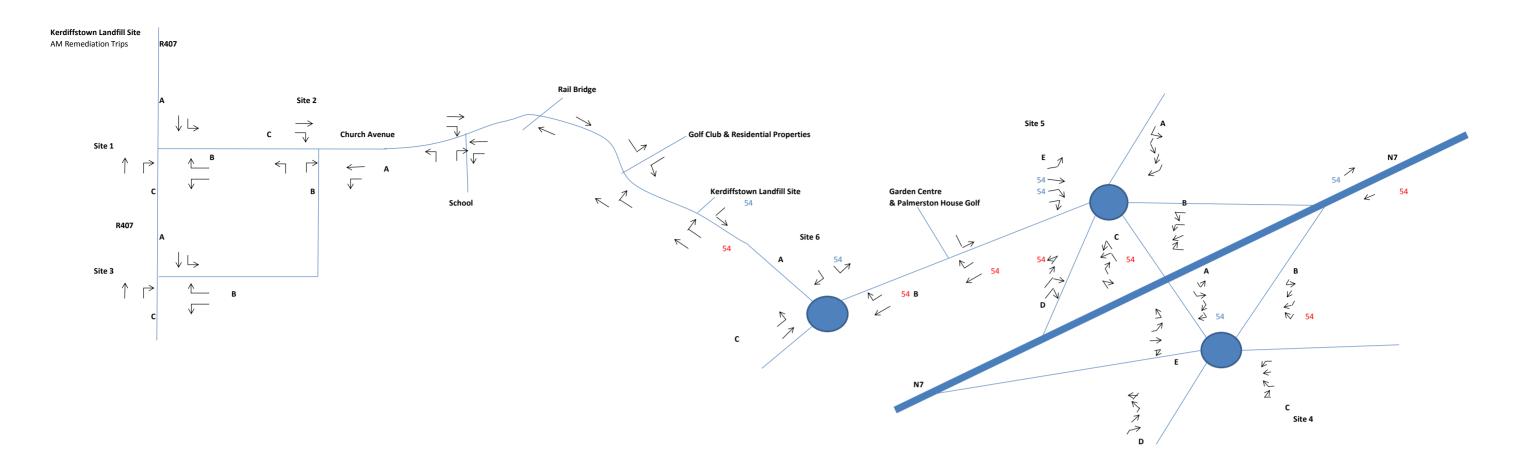


Figure 5.2

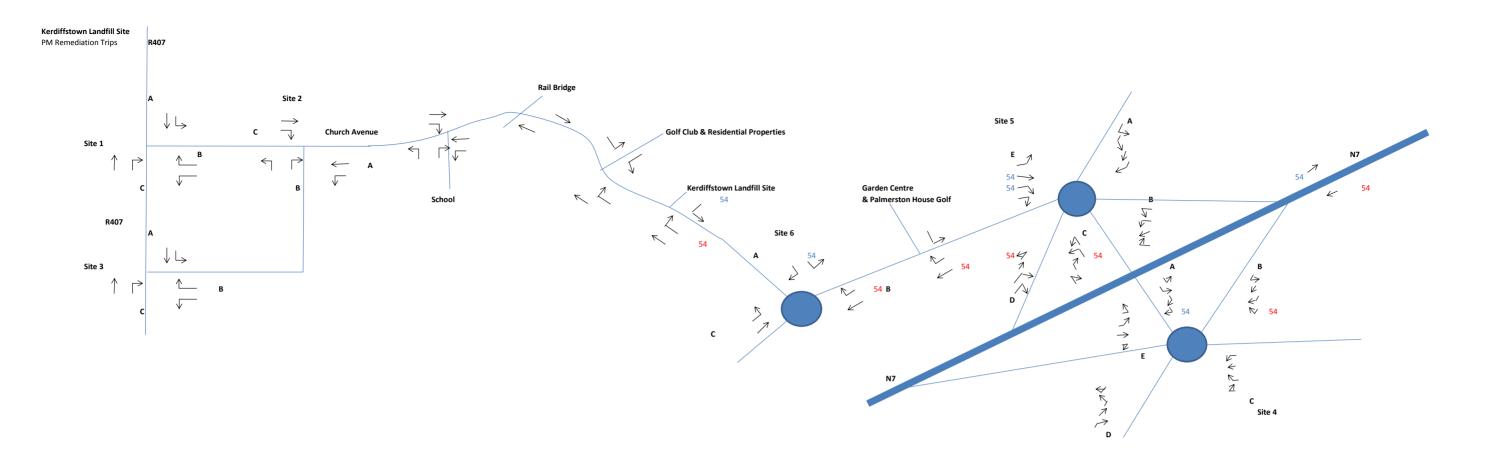


Figure 5.3

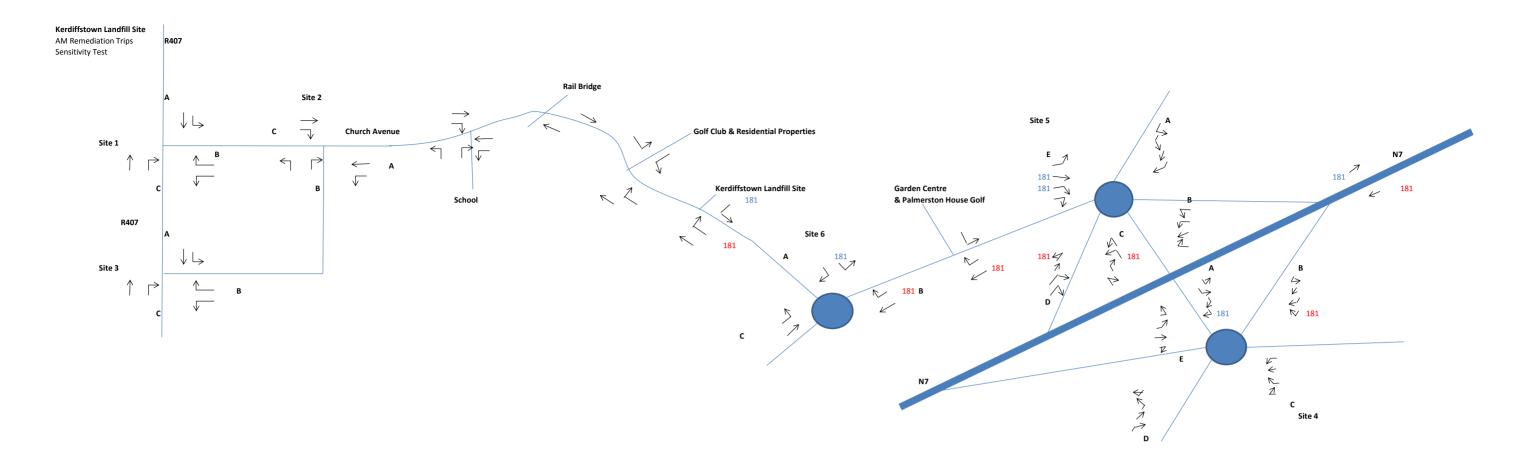


Figure 5.4

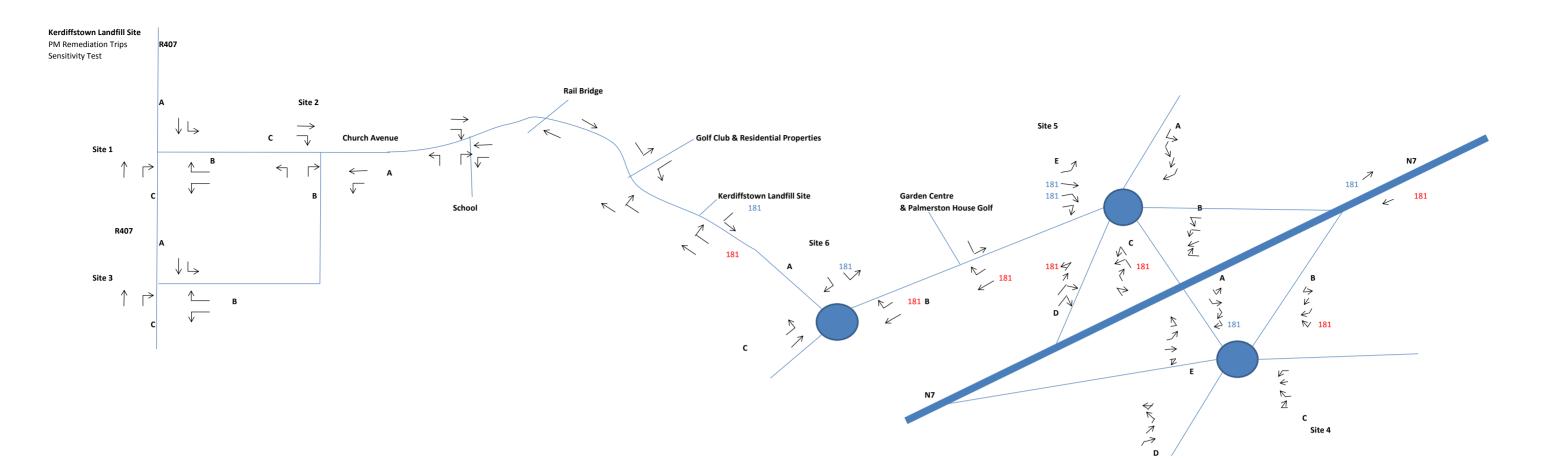


Figure 5.5

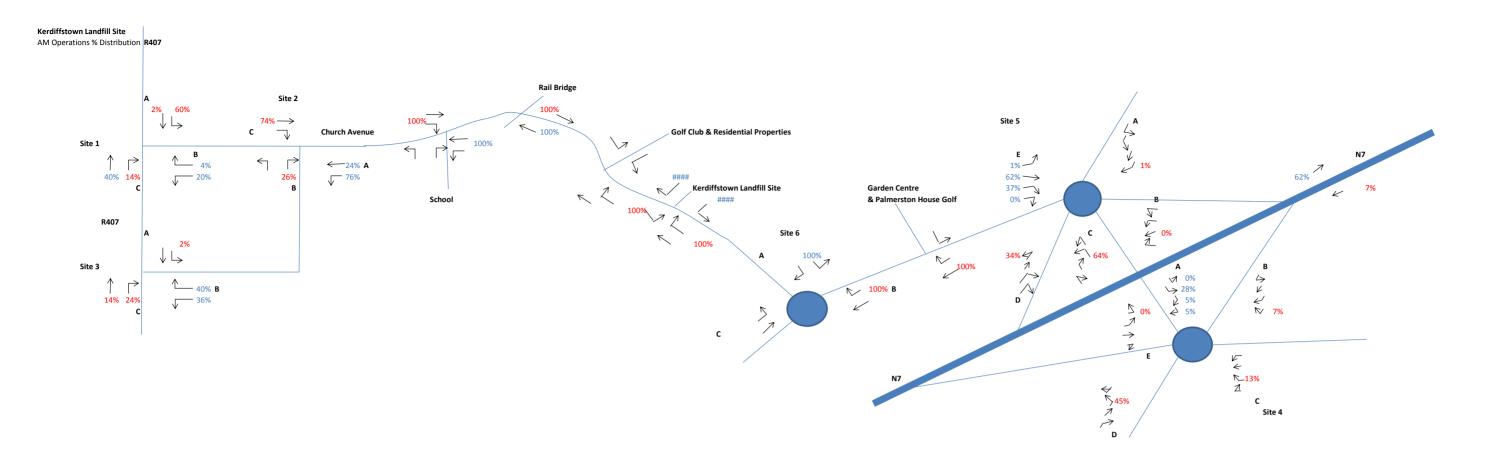


Figure 5.6

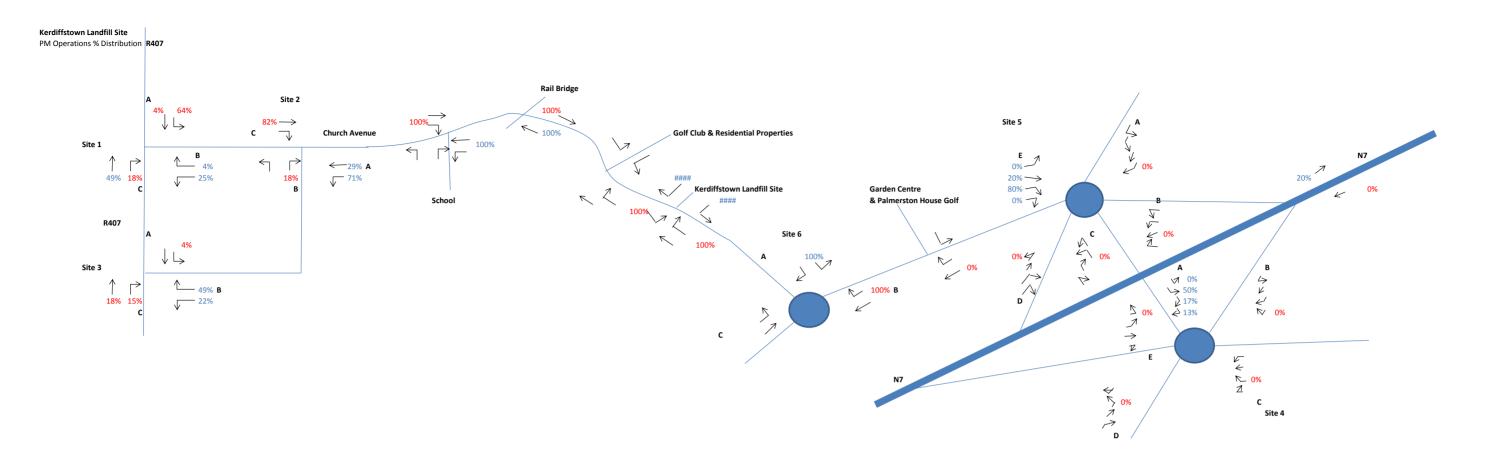


Figure 5.7

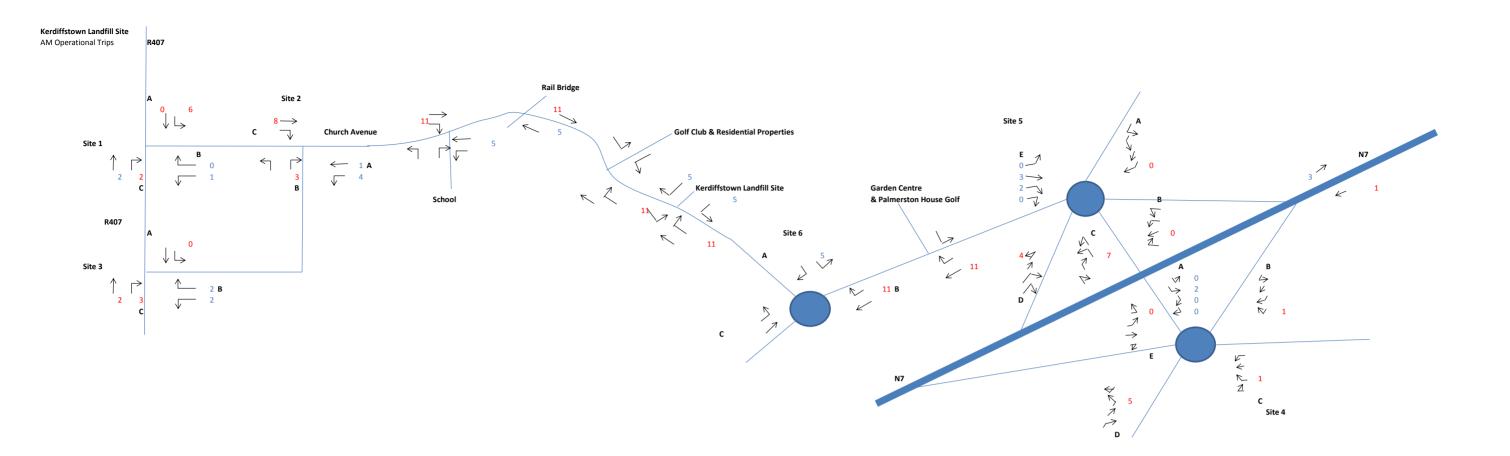


Figure 5.8

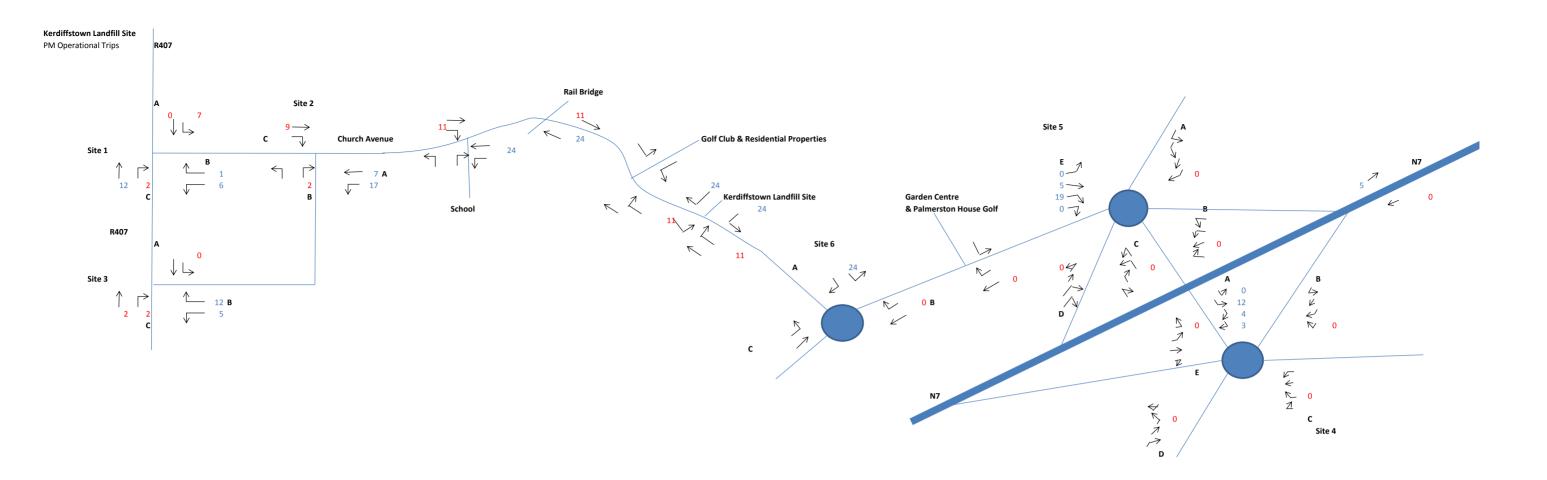


Figure 5.9

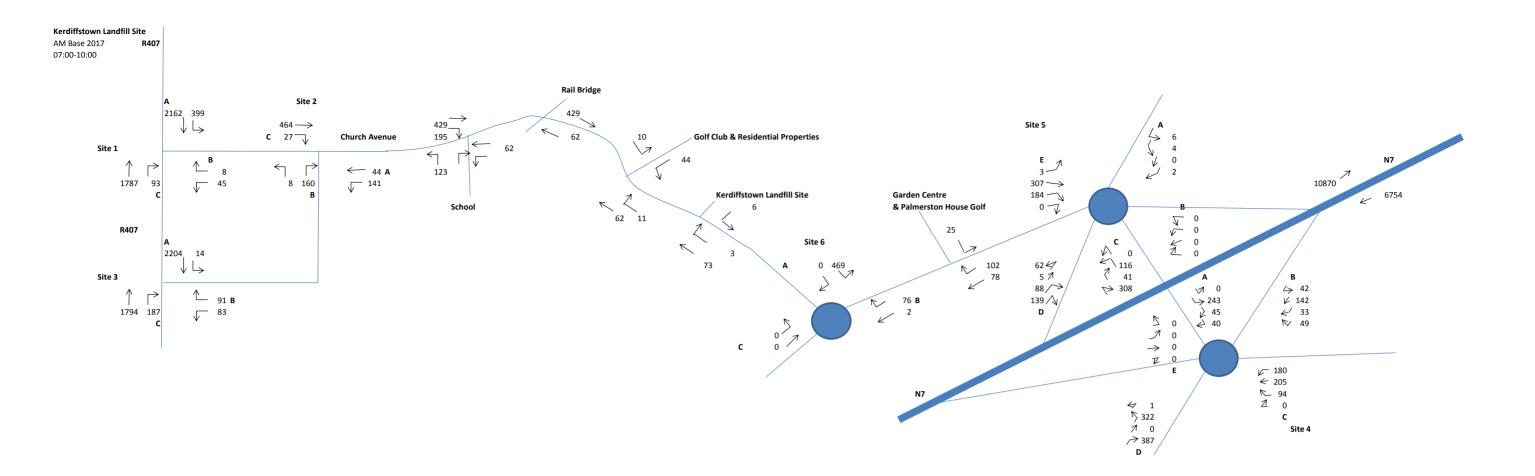


Figure 6.1

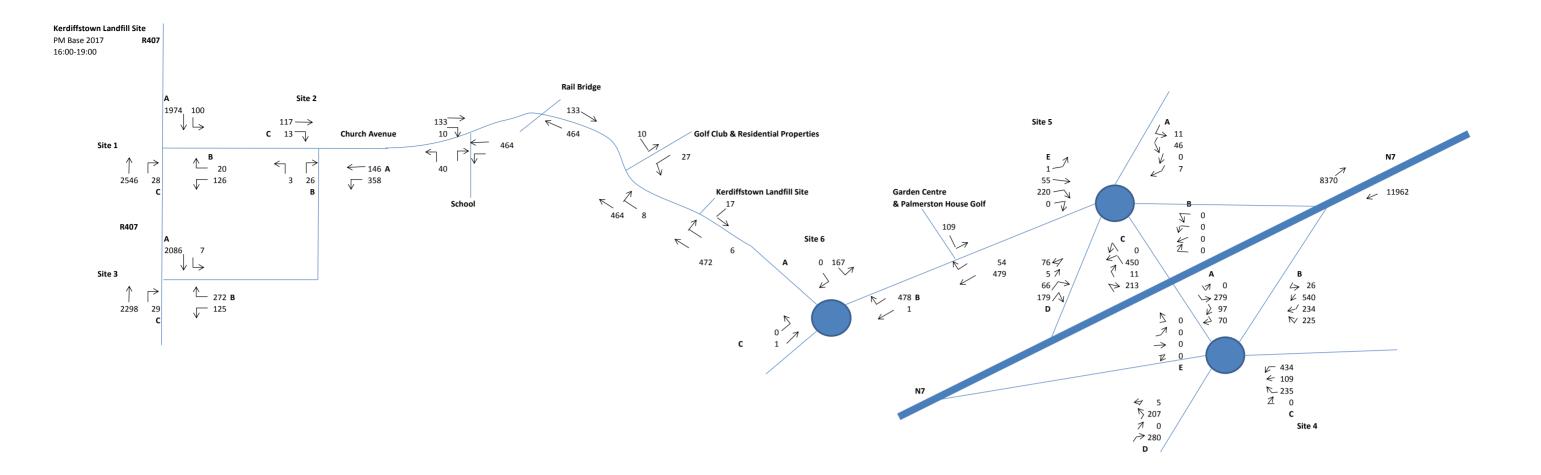


Figure 6.2

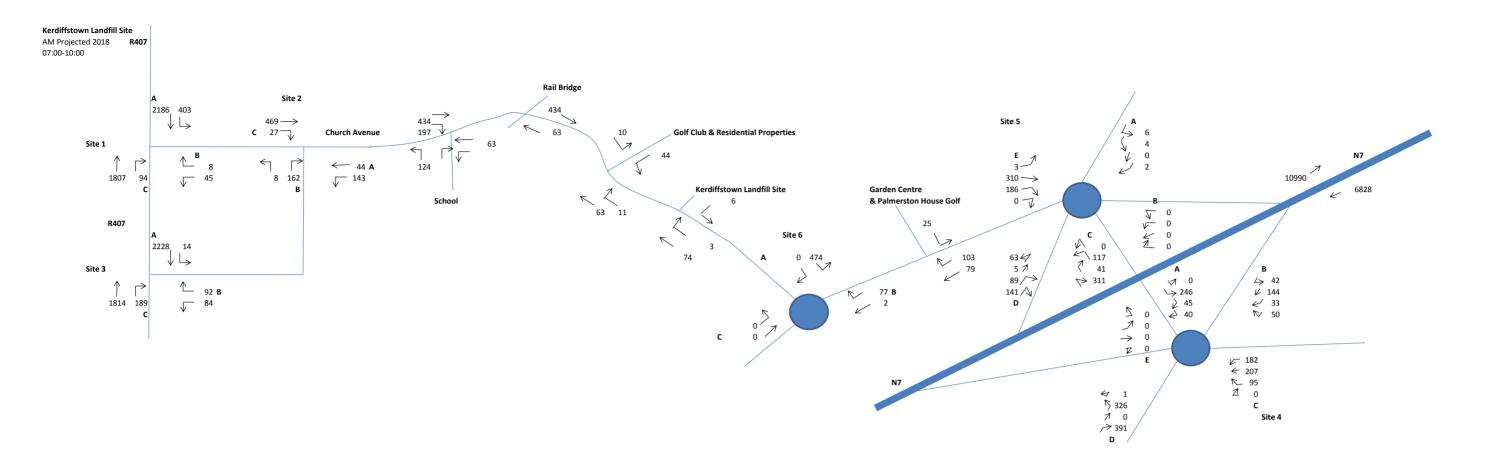


Figure 6.3

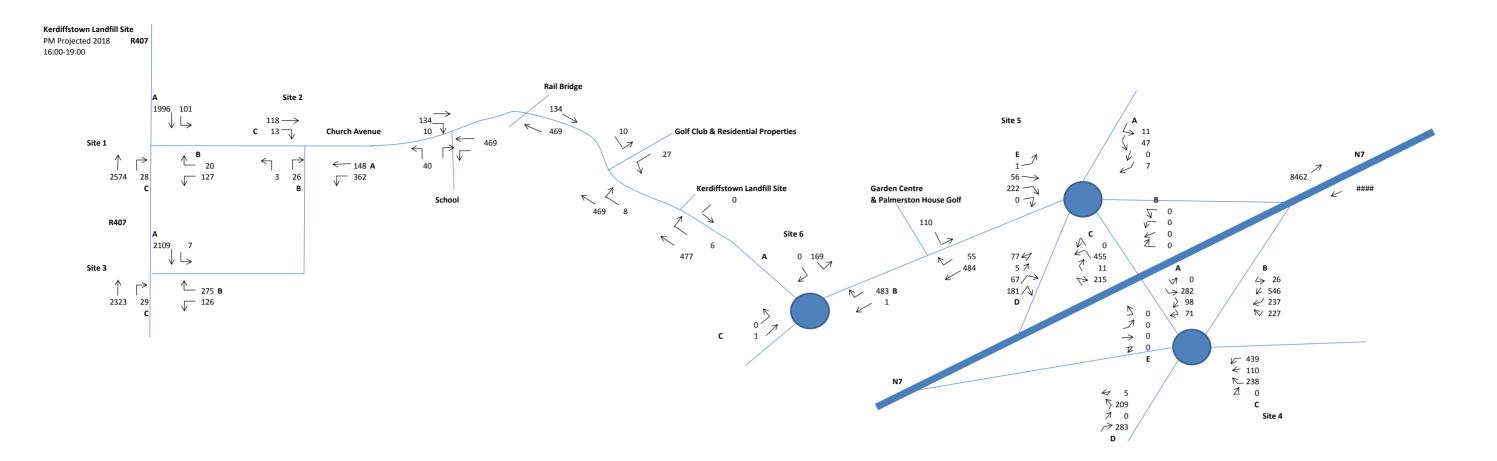


Figure 6.4

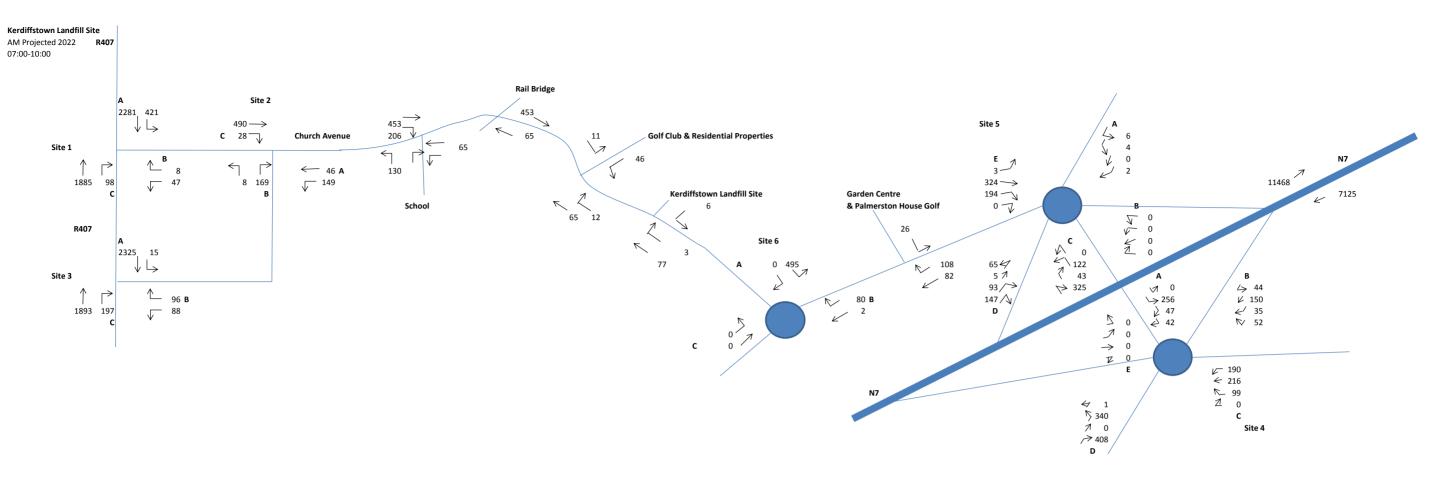


Figure 6.5

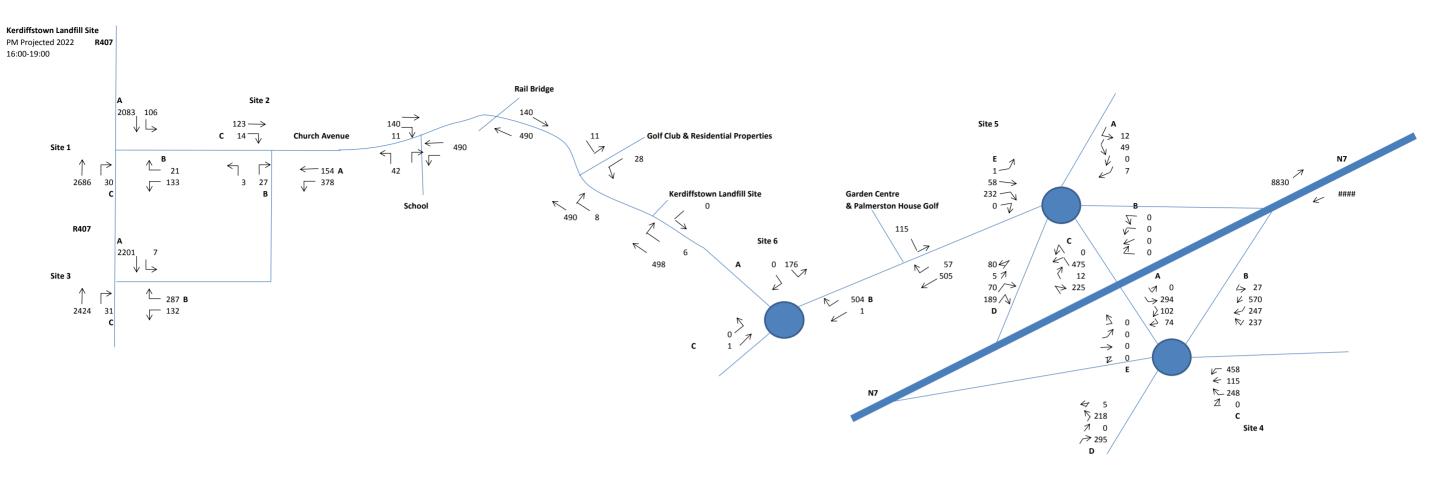


Figure 6.6

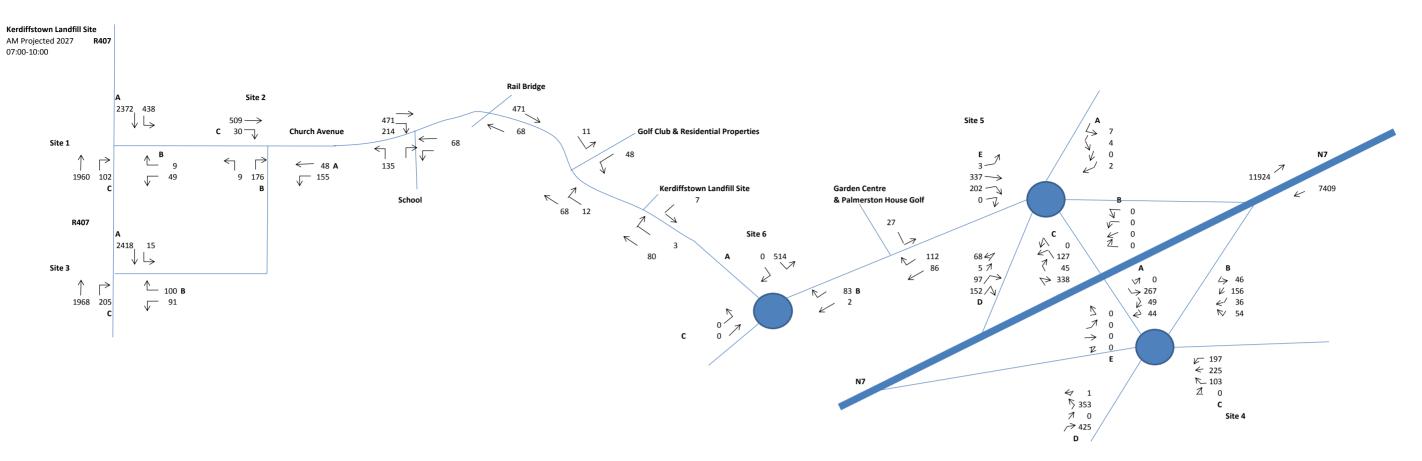


Figure 6.7

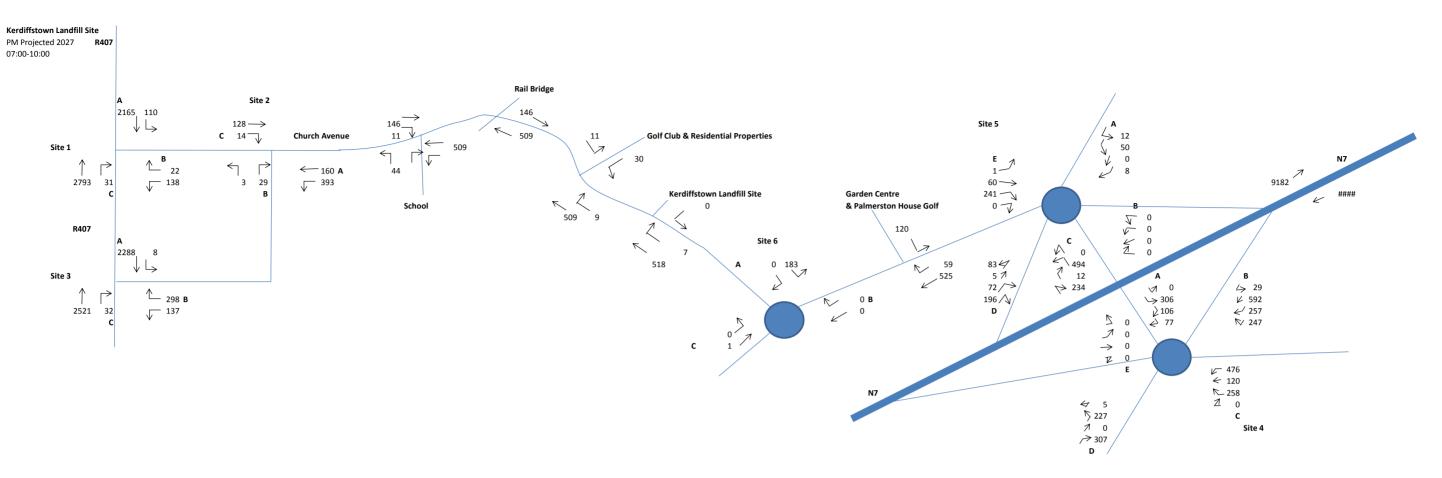


Figure 6.8

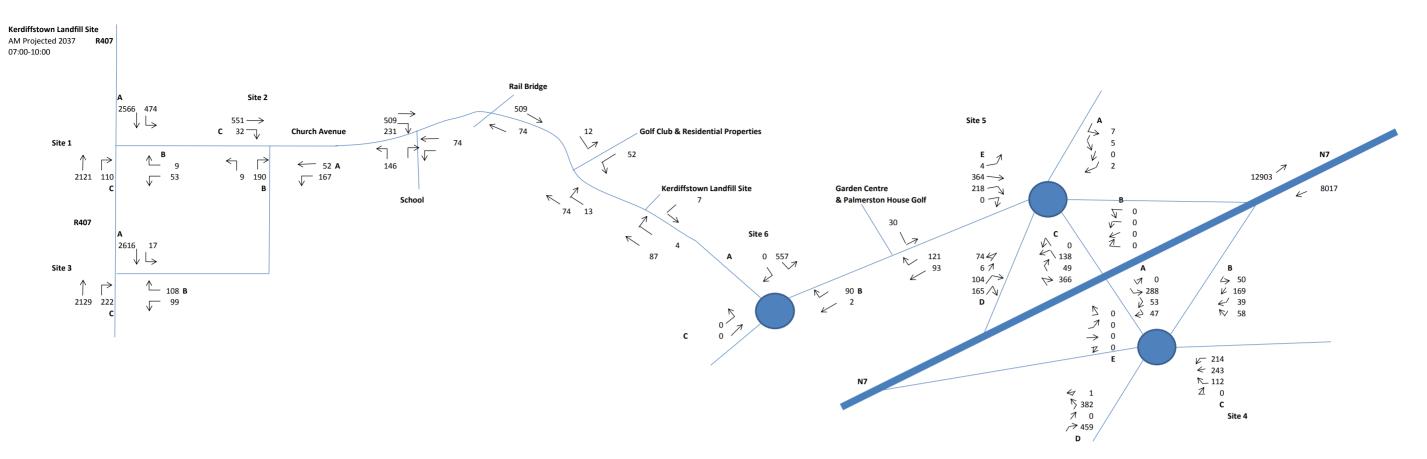


Figure 6.9

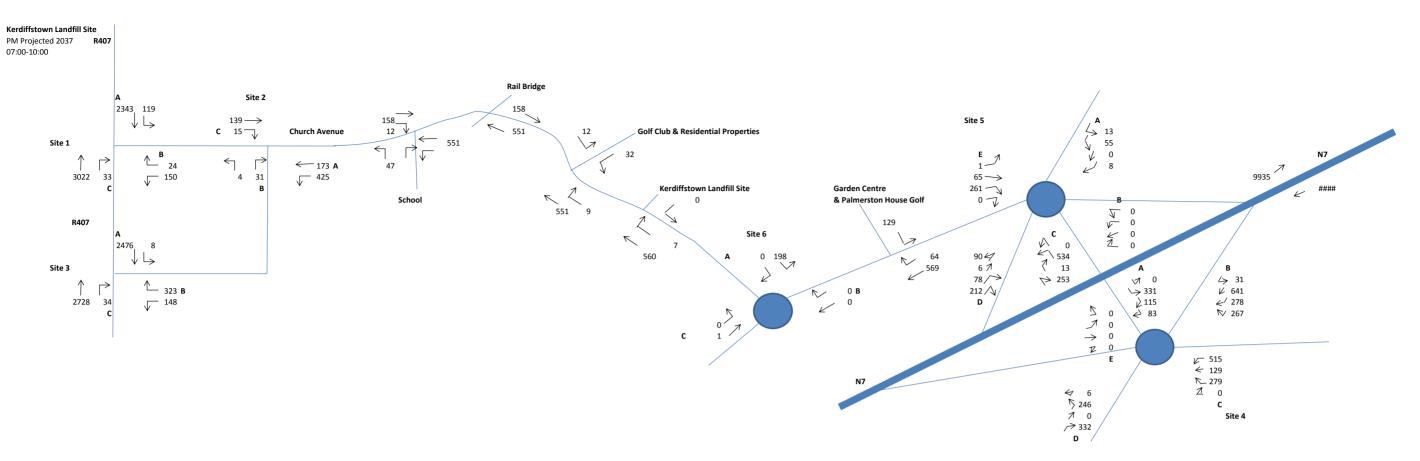


Figure 6.10

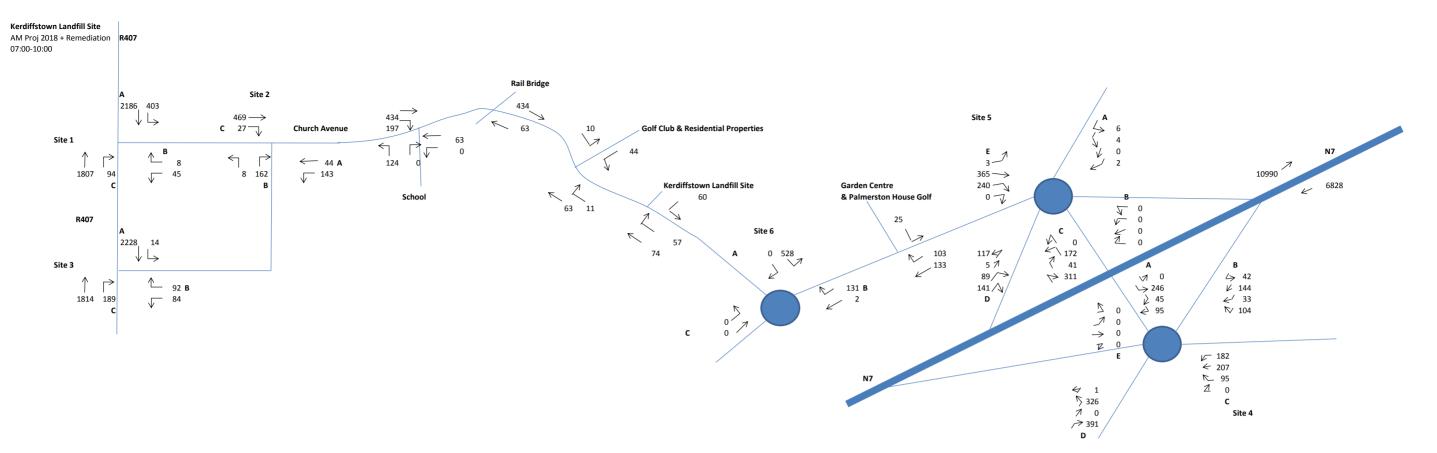


Figure 6.11

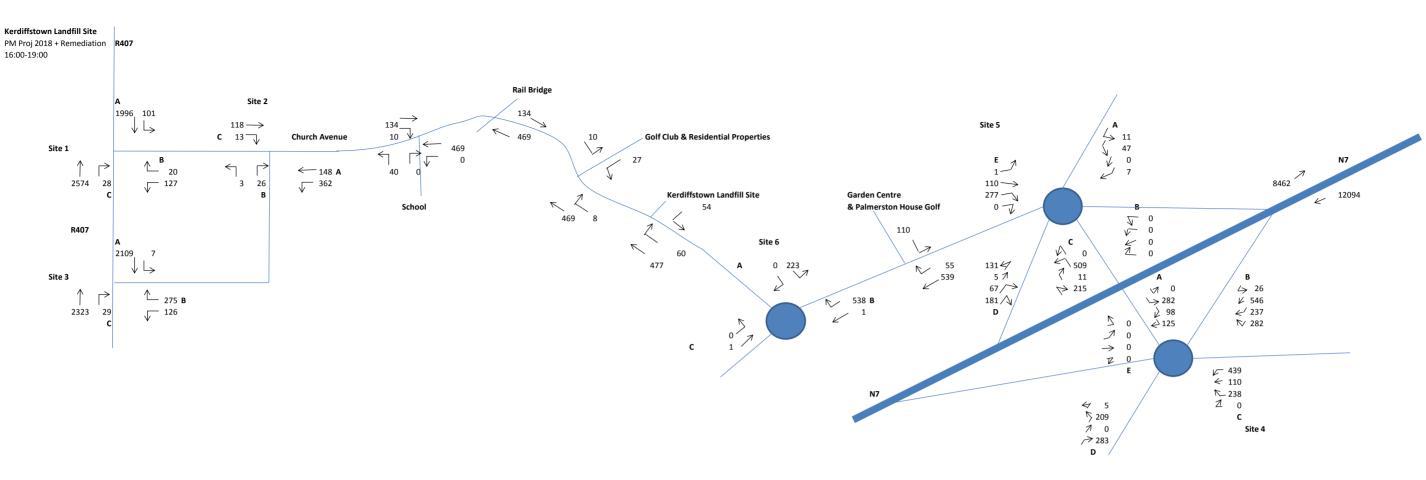


Figure 6.12

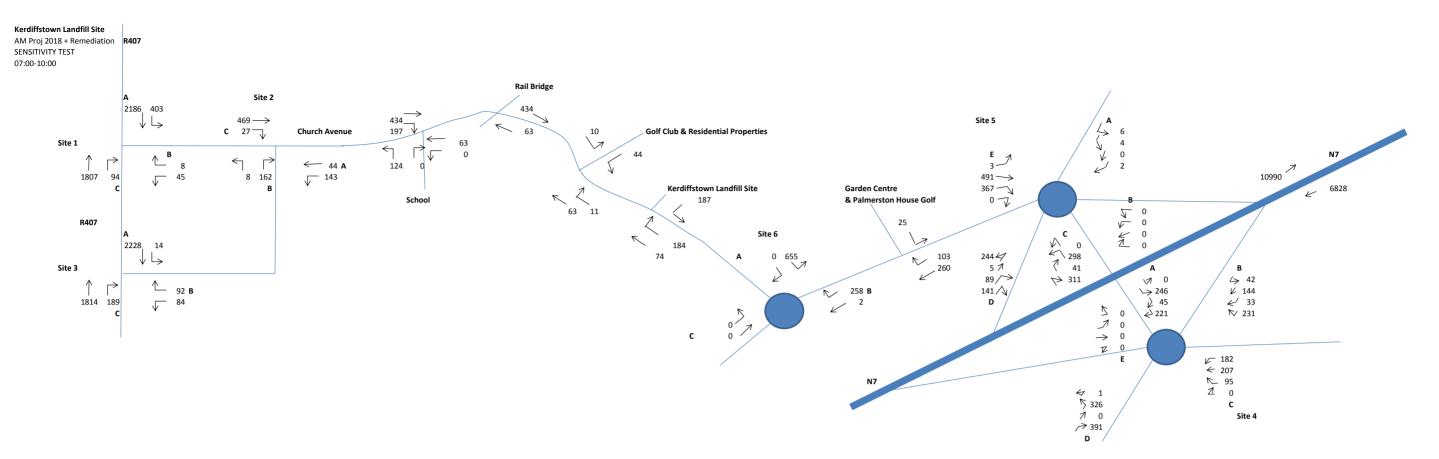


Figure 6.13

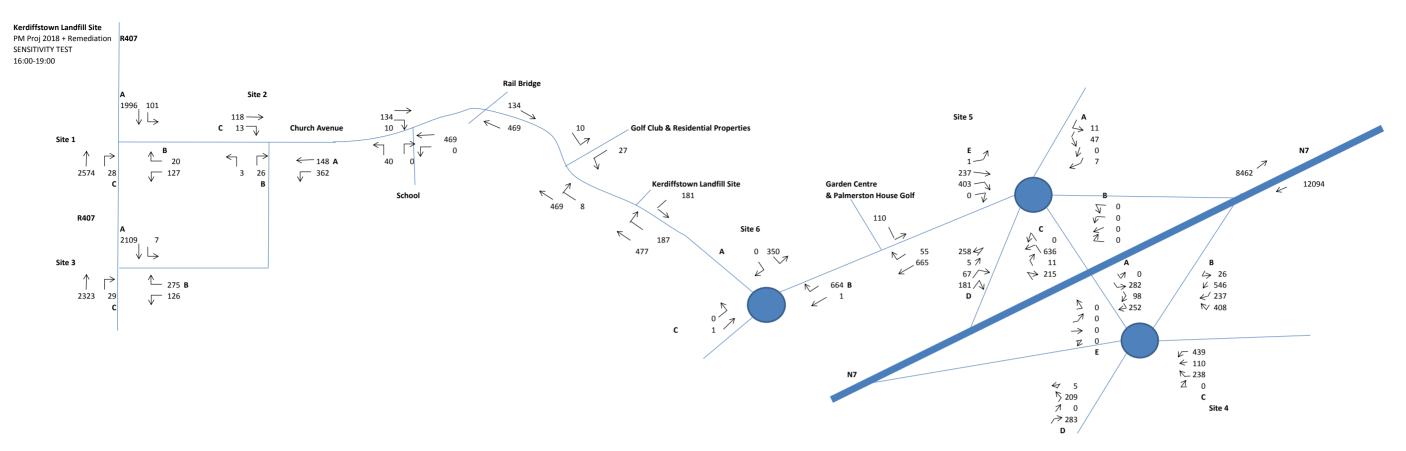


Figure 6.14

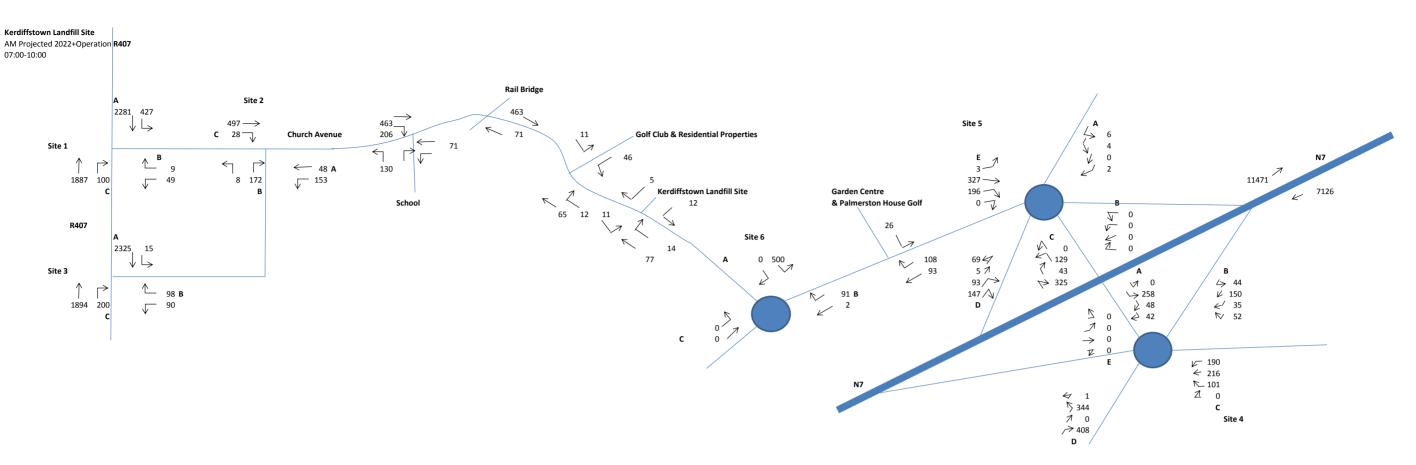


Figure 6.15

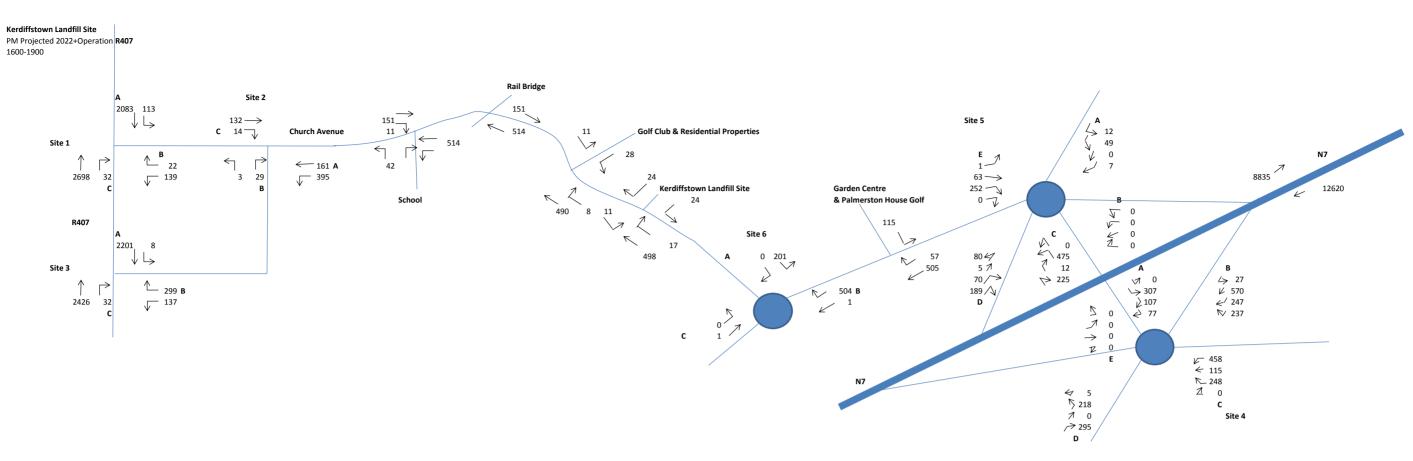


Figure 6.16

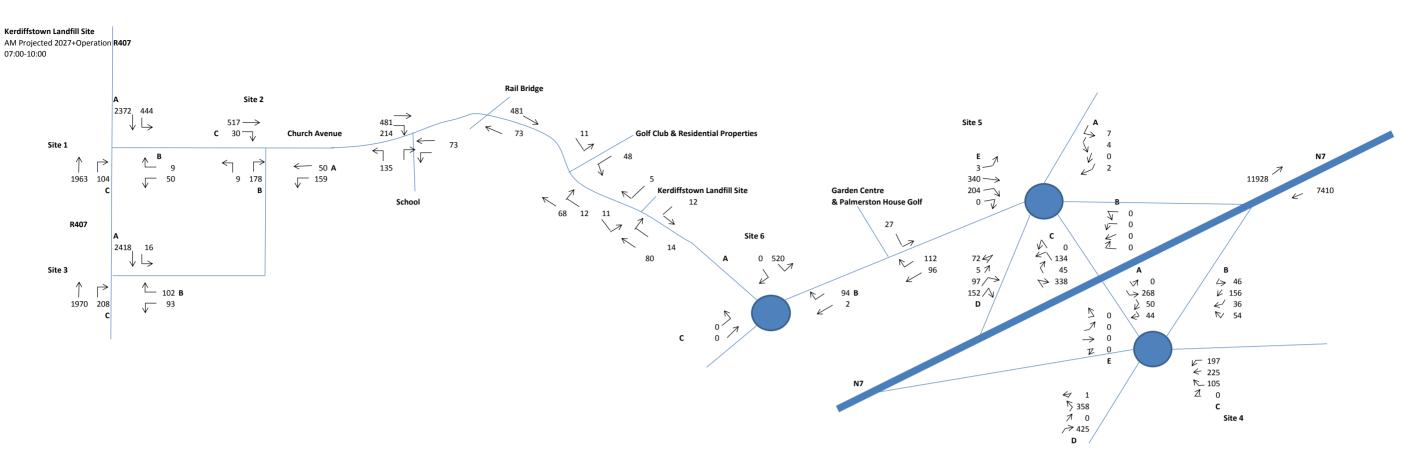


Figure 6.17

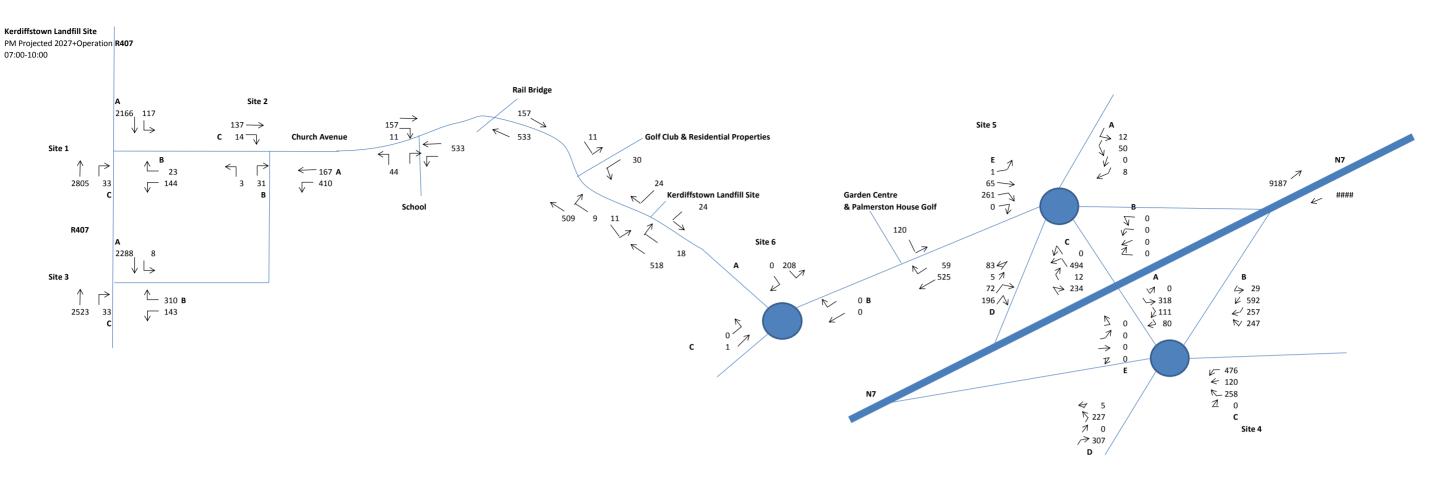


Figure 6.18

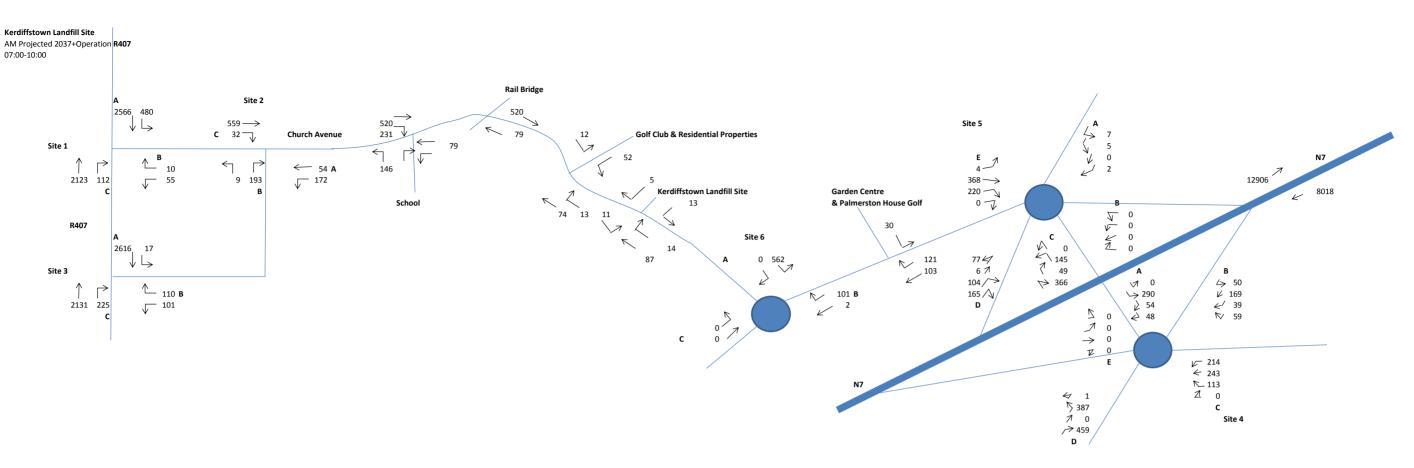


Figure 6.19

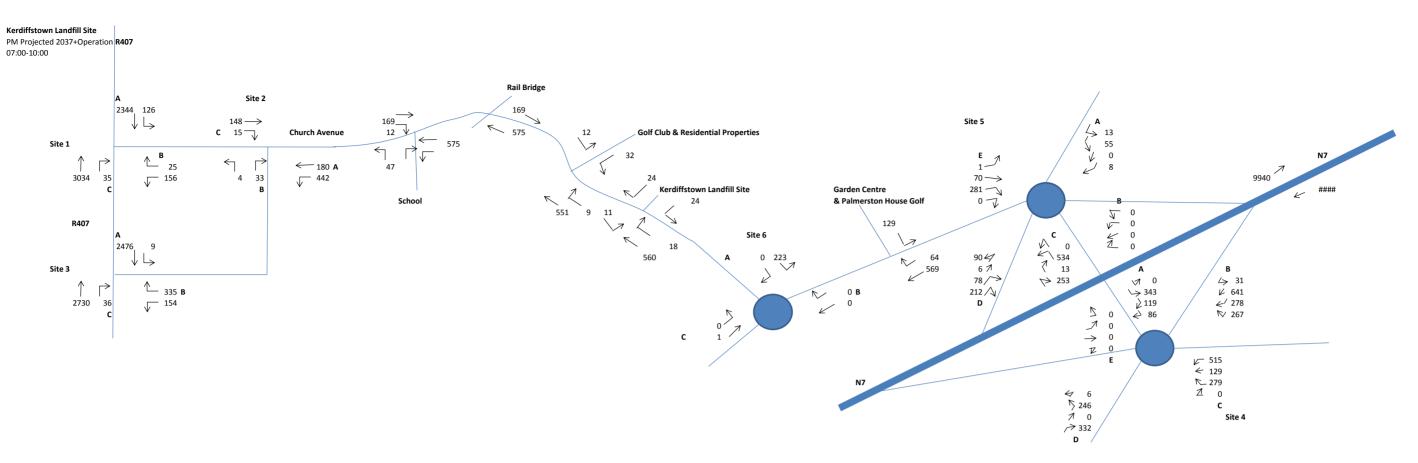


Figure 6.20



Appendix B. Modelling Results

AM Peak

		2018 Do M	inimum	2018 Remedia	tion Scenario	Diffe	rence
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	13.3	1.5	13.3	1.7	0.1	0.3
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	8.2	3.0	13.9	3.1	5.7	0.1
	Landfill	2.6	0.9	9.7	1.1	7.1	0.3
	Church Avenue East	9.1	1.1	7.7	1.2	-1.3	0.1
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	0.0	0.0	0.0	0.0	0.0	0.0
	Church Avenue West	4.2	3.1	4.0	2.9	-0.2	-0.1
	The Paddocks	3.4	4.2	6.0	4.3	2.6	0.2
Site 9 N7 North Roundabout	N7 off-slip EB	17.5	5.7	16.4	6.1	-1.1	0.4
Site 9 N7 North Roundabout	Greenhill Overbridge	0.0	1.4	2.1	1.4	2.1	0.0
	N7 Access Road	19.3	5.7	18.0	8.1	-1.3	2.4
	Palmerstown	14.6	2.3	17.9	3.0	3.3	0.7
City 40 NZ Cauth Davidah aut	Kill West	9.1	1.1	10.1	1.1	1.1	0.0
Site 10 N7 South Roundabout	Greenhill Overbridge	11.6	1.5	11.6	1.7	0.0	0.2
	N7 off-slip WB	14.8	3.1	14.1	3.2	-0.7	0.1
	Church Avenue East	0.0	2.7	0.0	2.8	0.0	0.0
Site 4 Church Ave / Sallins National School	Church Avenue West	7.1	1.7	2.2	1.7	-5.0	0.0
Site 4 Church Ave / Sallins National School	School	24.7	0.7	24.7	0.8	0.0	0.1
	R407 North	41.2	2.0	41.2	2.0	0.0	0.0
Site 1 R407 / Church Ave, Sallins	R407 South	65.9	5.5	66.3	6.0	0.3	0.5
	Church Avenue East	11.3	11.3	11.0	8.1	-0.3	-3.2
	Church Avenue East	0.0	0.5	0.0	0.5	0.0	0.0
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	9.5	1.3	9.5	1.3	0.1	0.0
	Church Avenue West	2.3	0.5	3.7	0.5	1.3	0.0
	Church Avenue East	39.7	16.6	41.9	19.2	2.2	2.6
Site 3 R407 / Church Ave (E)	R407 North	70.5	1.9	70.2	1.9	-0.3	0.0
	R407 South	167.6	9.5	170.9	9.6	3.3	0.0
	Church Avenue East	0.0	1.5	0.0	1.4	0.0	0.0
Site 5 Church Ave Railway Bridge	Church Avenue West	0.0	1.0	0.0	0.9	0.0	0.0
	Church Avenue East	1.1	2.0	3.8	1.8	2.7	-0.2
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	0.0	2.2	0.0	2.1	0.0	0.0
, , , , , , , , , , , , , , , , , , , ,	Golf Club	3.8	0.6	5.1	0.7	1.3	0.2
	Church Avenue East	10.5	1.5	18.2	1.8	7.7	0.3
Garden Centre	Church Avenue west	0.0	2.4	0.0	2.3	0.0	-0.1
	Garden Centre	6.3	1.0	6.3	0.8	0.1	-0.2

Site/ Junction Name	Link	2018 Do M	inimum	2018 Remediati Scen	•	Diffe	rence
Site/ Junction Name	LIIIK	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	13.3	1.5	24.7	2.3	11.4	0.8
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	8.2	3.0	16.8	3.3	8.6	0.2
	Landfill	2.6	0.9	18.4	1.4	15.8	0.6
	Church Avenue East	9.1	1.1	12.2	2.8	3.2	1.7
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	0.0	0.0	0.0	0.0	0.0	0.0
	Church Avenue West	4.2	3.1	13.4	2.8	9.3	-0.3
	The Paddocks	3.4	4.2	3.6	4.0	0.2	-0.2
Site O NIZ North Douadahaut	N7 off-slip EB	17.5	5.7	20.7	6.3	3.2	0.6
Site 9 N7 North Roundabout	Greenhill Overbridge	0.0	1.4	1.6	1.5	1.6	0.1
	N7 Access Road	19.3	5.7	36.2	6.4	17.0	0.7
	Palmerstown	14.6	2.3	15.6	2.4	0.9	0.1
Cita 10 NZ Courth Boundahout	Kill West	9.1	1.1	13.5	1.2	4.5	0.1
Site 10 N7 South Roundabout	Greenhill Overbridge	11.6	1.5	16.2	2.1	4.6	0.6
	N7 off-slip WB	14.8	3.1	22.2	3.3	7.5	0.2
	Church Avenue East	0.0	2.7	0.0	2.7	0.0	-0.1
Site 4 Church Ave / Sallins National School	Church Avenue West	7.1	1.7	2.0	1.6	-5.1	0.0
	School	24.7	0.7	24.7	0.8	0.0	0.1
	R407 North	41.2	2.0	41.3	2.0	0.2	0.0
Site 1 R407 / Church Ave, Sallins	R407 South	65.9	5.5	68.7	6.0	2.8	0.5
	Church Avenue East	11.3	11.3	11.2	7.8	-0.1	-3.6
	Church Avenue East	0.0	0.5	0.0	0.5	0.0	0.0
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	9.5	1.3	9.6	1.3	0.1	0.0
	Church Avenue West	2.3	0.5	1.1	0.5	-1.2	0.0
	Church Avenue East	39.7	16.6	56.6	20.4	16.9	3.7
Site 3 R407 / Church Ave (E)	R407 North	70.5	1.9	70.2	1.9	-0.2	0.0
	R407 South	167.6	9.5	174.5	9.6	7.0	0.1
City E Charack Assa Batharas Bath	Church Avenue East	0.0	1.5	0.0	1.3	0.0	-0.2
Site 5 Church Ave Railway Bridge	Church Avenue West	0.0	1.0	0.0	0.9	0.0	0.0
	Church Avenue East	1.1	2.0	5.1	1.7	4.0	-0.3
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	0.0	2.2	0.0	2.1	0.0	0.0
,	Golf Club	3.8	0.6	4.0	0.7	0.2	0.1
	Church Avenue East	10.5	1.5	18.2	2.0	7.8	0.5
Garden Centre	Church Avenue west	0.0	2.4	0.0	2.2	0.0	-0.2
	Garden Centre	6.3	1.0	6.5	1.2	0.2	0.2

		2022 Do M	inimum	2022 Operati	onal Scenario		
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	8.4	2.1	15.3	1.7	6.8	-0.4
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	6.6	3.0	7.2	3.0	0.7	0.0
	Landfill	2.5	0.5	4.8	0.8	2.4	0.3
	Church Avenue East	9.9	1.3	5.7	1.4	-4.2	0.1
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	0.0	0.0	0.0	0.0	0.0	0.0
	Church Avenue West	11.1	3.5	9.2	3.3	-1.9	-0.2
	The Paddocks	4.2	4.3	4.1	4.6	-0.1	0.3
Site 9 N7 North Roundabout	N7 off-slip EB	17.3	5.9	16.7	5.7	-0.6	-0.2
Site 9 N7 Noith Roundabout	Greenhill Overbridge	1.4	1.4	2.5	1.4	1.1	0.0
	N7 Access Road	18.1	5.8	19.8	5.7	1.7	-0.1
	Palmerstown	13.7	2.1	12.8	3.0	-0.9	0.9
Site 10 N7 South Roundabout	Kill West	9.1	1.1	9.1	1.1	0.0	-0.1
Site 10 N7 South Roundabout	Greenhill Overbridge	15.1	1.7	13.0	1.7	-2.1	0.0
	N7 off-slip WB	16.4	3.0	14.9	3.1	-1.4	0.1
	Church Avenue East	0.0	2.7	0.0	2.7	0.0	0.0
Site 4 Church Ave / Sallins National School	Church Avenue West	6.1	1.6	4.3	1.6	-1.7	0.0
	School	24.7	0.7	24.7	0.7	0.0	0.0
	R407 North	41.1	2.1	37.0	2.0	-4.1	0.0
Site 1 R407 / Church Ave, Sallins	R407 South	69.2	5.8	62.5	5.6	-6.7	-0.2
	Church Avenue East	12.0	12.3	12.2	9.7	0.2	-2.6
	Church Avenue East	0.0	0.5	0.0	0.4	0.0	0.0
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	8.2	1.2	10.4	1.4	2.2	0.1
	Church Avenue West	2.3	0.5	1.3	0.5	-1.0	0.0
	Church Avenue East	39.9	16.6	45.8	17.9	5.9	1.3
Site 3 R407 / Church Ave (E)	R407 North	70.3	1.9	71.0	1.9	0.8	0.0
	R407 South	166.1	9.4	187.3	10.0	21.2	0.5
Site E Church Ave Bailway Bridge	Church Avenue East	0.0	1.3	0.0	1.2	0.0	-0.1
Site 5 Church Ave Railway Bridge	Church Avenue West	0.0	1.0	0.0	0.9	0.0	-0.1
	Church Avenue East	0.0	1.6	0.0	1.8	0.0	0.2
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	0.0	2.2	0.0	2.1	0.0	-0.1
	Golf Club	6.1	0.7	6.1	0.8	0.0	0.1
<u> </u>	Church Avenue East	10.8	1.4	14.2	1.6	3.4	0.2
Garden Centre	Church Avenue west	0.0	2.3	0.0	2.3	0.0	0.0
	Garden Centre	6.4	1.2	6.4	1.1	0.0	-0.1

PM Peak

		2018 Do M	inimum	2018 Remedia	tion Scenario	Diffe	rence
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	20.7	4.2	16.2	4.9	-4.5	0.6
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	11.0	1.5	20.5	1.8	9.5	0.3
	Landfill	0.0	0.4	4.8	0.5	4.8	0.1
	Church Avenue East	1.1	3.7	6.0	6.3	4.8	2.5
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	5.0	1.2	6.4	2.1	1.4	0.9
	Church Avenue West	1.1	1.3	5.5	1.2	4.4	-0.1
	The Paddocks	6.7	4.2	9.2	4.1	2.5	-0.1
City ONT North Developerat	N7 off-slip EB	19.6	5.9	19.7	6.0	0.2	0.1
Site 9 N7 North Roundabout	Greenhill Overbridge	2.8	1.0	3.5	1.0	0.6	0.0
	N7 Access Road	11.5	4.7	13.0	2.5	1.5	-2.2
	Palmerstown	16.1	2.8	16.2	4.6	0.1	1.8
Si: 40 N 7 S	Kill West	27.1	3.0	31.0	2.9	3.8	-0.1
Site 10 N7 South Roundabout	Greenhill Overbridge	16.7	1.9	11.4	1.8	-5.4	0.0
	N7 off-slip WB	38.3	4.6	40.9	4.8	2.6	0.2
	Church Avenue East	2.3	6.2	3.8	6.1	1.5	-0.1
Site 4 Church Ave / Sallins National School	Church Avenue West	1.9	2.1	0.0	2.2	-1.9	0.1
	School	24.7	3.7	24.7	3.2	0.0	-0.4
	R407 North	14.5	1.7	25.2	1.8	10.7	0.0
Site 1 R407 / Church Ave, Sallins	R407 South	42.9	2.8	41.9	2.7	-1.0	-0.1
	Church Avenue East	32.6	16.2	31.7	16.4	-0.9	0.2
	Church Avenue East	0.0	1.5	0.0	1.5	0.0	0.0
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	5.1	1.1	3.7	0.9	-1.4	-0.2
	Church Avenue West	2.7	0.9	5.3	2.3	2.6	1.4
	Church Avenue East	105.5	38.5	98.2	39.3	-7.3	0.7
Site 3 R407 / Church Ave (E)	R407 North	67.6	1.9	68.4	1.9	0.8	0.0
	R407 South	130.9	7.4	129.9	7.4	-1.0	0.1
	Church Avenue East	0.0	5.2	0.0	5.2	0.0	0.1
Site 5 Church Ave Railway Bridge	Church Avenue West	0.0	0.4	0.0	0.4	0.0	0.0
	Church Avenue East	1.0	6.9	0.0	6.6	-1.0	-0.3
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	0.0	1.1	0.0	1.1	0.0	0.0
	Golf Club	0.0	0.5	0.0	0.4	0.0	0.0
	Church Avenue East	6.3	3.5	5.2	3.7	-1.1	0.2
Garden Centre	Church Avenue west	0.0	1.3	0.0	1.2	0.0	-0.1
	Garden Centre	4.8	0.5	6.2	0.6	1.5	0.1

				2018 Remediati	•		
Site/ Junction Name	Link	2018 Do M	inimum	Scen	ario		rence
		Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	20.7	4.2	23.6	5.2	2.9	1.0
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	11.0	1.5	23.4	2.1	12.4	0.6
	Landfill	0.0	0.4	10.8	0.7	10.8	0.3
	Church Avenue East	1.1	3.7	14.2	4.1	13.1	0.4
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	5.0	1.2	6.1	2.1	1.0	0.8
	Church Avenue West	1.1	1.3	6.7	1.1	5.6	-0.1
	The Paddocks	6.7	4.2	8.7	4.3	2.0	0.1
Site 9 N7 North Roundabout	N7 off-slip EB	19.6	5.9	23.1	6.1	3.5	0.2
Site 9 N7 North Roundabout	Greenhill Overbridge	2.8	1.0	4.6	1.1	1.7	0.1
	N7 Access Road	11.5	4.7	14.4	3.0	2.9	-1.7
	Palmerstown	16.1	2.8	15.0	3.0	-1.1	0.3
Site 10 N7 South Roundabout	Kill West	27.1	3.0	26.7	3.2	-0.4	0.3
Site 10 N7 South Roundabout	Greenhill Overbridge	16.7	1.9	12.6	1.9	-4.2	0.1
	N7 off-slip WB	38.3	4.6	39.5	4.9	1.2	0.3
	Church Avenue East	2.3	6.2	4.8	6.2	2.5	0.0
Site 4 Church Ave / Sallins National School	Church Avenue West	1.9	2.1	0.0	1.7	-1.9	-0.5
	School	24.7	3.7	24.7	2.3	0.0	-1.3
	R407 North	14.5	1.7	19.7	1.8	5.2	0.0
Site 1 R407 / Church Ave, Sallins	R407 South	42.9	2.8	35.0	2.4	-7.9	-0.4
	Church Avenue East	32.6	16.2	32.1	14.1	-0.5	-2.1
	Church Avenue East	0.0	1.5	0.0	1.5	0.0	0.0
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	5.1	1.1	5.1	1.1	0.0	0.0
	Church Avenue West	2.7	0.9	5.1	0.6	2.4	-0.3
	Church Avenue East	105.5	38.5	99.7	37.6	-5.8	-0.9
Site 3 R407 / Church Ave (E)	R407 North	67.6	1.9	68.3	1.9	0.7	0.0
	R407 South	130.9	7.4	146.8	7.8	15.9	0.5
Site 5 Church Ave Railway Bridge	Church Avenue East	0.0	5.2	0.0	5.2	0.0	0.1
Site 5 Church Ave Kallway Bridge	Church Avenue West	0.0	0.4	0.0	0.4	0.0	0.0
	Church Avenue East	1.0	6.9	1.0	6.5	0.0	-0.4
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	0.0	1.1	0.0	1.0	0.0	-0.1
	Golf Club	0.0	0.5	0.0	0.5	0.0	0.0
	Church Avenue East	6.3	3.5	8.4	3.8	2.1	0.4
Garden Centre	Church Avenue west	0.0	1.3	0.0	1.2	0.0	-0.1
	Garden Centre	4.8	0.5	6.3	0.6	1.6	0.1

		2022 Do M	inimum	2022 Operation	onal Scenario	Diffe	rence
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	12.3	4.2	16.1	4.7	3.8	0.5
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	15.7	1.6	14.6	1.7	-1.1	0.1
	Landfill	1.3	0.4	3.9	0.6	2.6	0.1
	Church Avenue East	7.1	3.8	7.9	3.8	0.8	0.1
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	3.7	1.0	3.8	1.2	0.1	0.3
	Church Avenue West	2.6	1.3	3.1	1.1	0.5	-0.2
	The Paddocks	6.7	4.0	8.2	4.3	1.5	0.3
Site 9 N7 North Roundabout	N7 off-slip EB	18.9	6.0	21.1	6.1	2.3	0.2
Site 9 N7 North Roundabout	Greenhill Overbridge	3.5	1.0	3.0	1.1	-0.6	0.1
	N7 Access Road	9.0	4.4	11.2	2.7	2.3	-1.7
	Palmerstown	18.6	4.3	14.5	4.1	-4.1	-0.2
City 40 NZ Count Down Johnson	Kill West	17.5	2.8	21.5	2.9	4.0	0.1
Site 10 N7 South Roundabout	Greenhill Overbridge	8.1	1.8	9.2	1.6	1.0	-0.2
	N7 off-slip WB	37.7	4.8	35.8	4.7	-1.9	0.0
	Church Avenue East	1.3	6.1	2.6	6.1	1.3	0.0
Site 4 Church Ave / Sallins National School	Church Avenue West	0.0	0.8	2.4	1.2	2.4	0.4
Site 4 Church Ave / Sallins National School	School	24.7	2.8	24.7	2.8	0.0	0.0
	R407 North	18.8	1.8	21.5	1.8	2.7	0.1
Site 1 R407 / Church Ave, Sallins	R407 South	39.8	2.5	46.4	3.1	6.6	0.7
	Church Avenue East	32.4	17.0	37.7	17.3	5.3	0.4
	Church Avenue East	0.0	1.4	7.3	1.5	7.3	0.1
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	3.8	1.1	6.5	1.1	2.7	0.0
	Church Avenue West	6.5	1.5	6.5	2.0	0.0	0.6
	Church Avenue East	94.9	38.4	103.0	39.7	8.1	1.3
Site 3 R407 / Church Ave (E)	R407 North	67.8	2.1	69.9	2.0	2.2	-0.1
•	R407 South	145.3	7.5	174.7	9.7	29.4	2.3
	Church Avenue East	0.0	5.0	0.0	5.1	0.0	0.1
Site 5 Church Ave Railway Bridge	Church Avenue West	0.0	0.4	0.0	0.4	0.0	0.0
	Church Avenue East	0.0	7.0	0.0	6.4	0.0	-0.6
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	0.0	1.1	0.0	1.1	0.0	-0.1
,	Golf Club	0.0	0.4	0.0	0.4	0.0	0.0
	Church Avenue East	8.3	3.5	2.5	3.6	-5.7	0.1
Garden Centre	Church Avenue west	0.0	1.3	0.0	1.2	0.0	-0.1
	Garden Centre	6.2	0.5	6.2	0.5	0.1	0.0

DM 2018 AM Peak

DM 2018 A											- 100			- 110		
Locat From	To	Total	Observed Cars	DM 2018 HGV	LGV	Total	Model Di Cars		LGV Tota	ıl (Difference Cars HGV	LGV	Difference	Diffe GEH	Flow	GEH
Site 1 R407 / Church Ave,		Total	cars	nov	100	Total	Cars	110 V	100		cars riov	1501	Billerence	GEIT	111000	GEH
R407 North	R407 South	2064	1779	113	172	2061	1769	109	183	-3	-10	-4 11		0.1	Pass	Pass
R407 North	Church Avenue East	400		2		407	394	1	11	7	11	-1 -4		0.3	Pass	Pass
R407 South	R407 North	1687	1375	112		1715	1397	108	210	28	22	-4 10		0.7	Pass	Pass
R407 South Church Avenue East	Church Avenue East R407 South	94 45	89 44			95 46	90 46	0	5 1	1	2	0 0		0.1	Pass Pass	Pass Pass
Church Avenue East	R407 North	8	8			7	7	0	0	-1	-1	0 0		0.1	Pass	Pass
Church Avenue East	Church Avenue East	0				0	0	0	0	0	0	0 0		0.0	Pass	Pass
Site 2 Church Ave (W) / C	hurch Ave (S), Sallins															
Church Avenue East	Church Avenue West	44				43	43	0	0	-1	-1	0 0		0.2	Pass	Pass
Church Avenue East	Church Avenue South	140	133	0	5	145 10	122 9	0	23	5	-11	-2 18 0 0		0.4	Pass	Pass
Church Avenue North Church Avenue North	Church Avenue West Church Avenue East	161	149		. 10	193	178	2	13	32	29	0 0		2.4	Pass Pass	Pass Pass
Church Avenue West	Church Avenue South	27				27	26	0	1	0	0	0 0		0.1	Pass	Pass
Church Avenue West	Church Avenue East	465	444	2	1	484	467	2	15	19	23	0 -3	-19	0.9	Pass	Pass
Site 3 R407 / Church Ave																T
Church Avenue East	R407 South	83			. 2	80	73	0	7	-3	-7	-1 5		0.3	Pass	Pass
Church Avenue East R407 North	R407 North	91 14	84 13		6	92 17	76 15	0	16 2	3	-8	-1 10 0 1		0.1	Pass Pass	Pass Pass
R407 North	Church Avenue East R407 South	2101	1814	113		2128	1831	112	185	27	17	-1 11		0.6	Pass	Pass
R407 South	Church Avenue East	188		1	1	186	172	2	12	-2	-2	1 -1		0.1	Pass	Pass
R407 South	R407 North	1698	1396	108	194	1718	1411	108	199	20	15	0 5	-20	0.5	Pass	Pass
Site 10 N7 South Roundal															_	T
Palmerstown	Greenhill Overbridge	324	302	1	. 21	327	306	1	20	3	4	0 -1		0.2	Pass	Pass
Palmerstown	N7 on-slip WB Kill West	377	341	0 14		1 378	1 344	0 13	21	1	0	0 0		0.0	Pass Pass	Pass Pass
Palmerstown Palmerstown	Palmerstown	0				3/8 0	0	0	0	0	0	0 0		0.0	Pass	Pass
Kill West	Greenhill Overbridge	94	82	1	. 11	97	84	1	12	3	2	0 1	-3	0.3	Pass	Pass
Kill West	N7 on-slip WB	206			15	214	198	1	15	8	8	0 0	-8	0.5	Pass	Pass
Kill West	Kill West	0				0	0	0	0	0	0	0 0		0.0	Pass	Pass
Kill West	Palmerstown Croopbill Overbridge	169				164	142	12	9	-5	-4	-1 0		0.4	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	36	-		. 4	0 30	0 25	0	3	-6	-3	0 0		0.0	Pass Pass	Pass Pass
Greenhill Overbridge Greenhill Overbridge	N7 on-slip WB Kill West	238	200			225	200	0	24	-6 -13	-3	-2 -1 -7 -7		0.9	Pass	Pass
Greenhill Overbridge	Palmerstown	45				47	44	0	3	2	4	0 -2		0.9	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	42	27	6		41	25	6	10	-1	-2	0 1	1	0.2	Pass	Pass
N7 off-slip WB	N7 on-slip WB	33	29		4	36	31	0	6	3	2	0 2	-3	0.5	Pass	Pass
N7 off-slip WB	Kill West	42				41	33	0	8	-1	-2	0 1		0.2	Pass	Pass
N7 off-slip WB	Palmerstown	140	117	3	20	141	120	0	21	1	3	-3 1	-1	0.1	Pass	Pass
Site 9 N7 North Roundabo The Paddocks	N7 Access Road	2	1	0	1	1	1	0	0	-1	0	0 -1	1	0.8	Pass	Pass
The Paddocks	N7 on-slip EB	6	3	0	3	5	3	0	2	-1	0	0 -1		0.5	Pass	Pass
The Paddocks	Greenhill Overbridge	4	2	0	2	4	2	0	2	0	0	0 0		0.0	Pass	Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	63				61	48	3	11	-2	-5	3 1	2	0.2	Pass	Pass
N7 off-slip EB	N7 on-slip EB	89				82	72	0	9	-7	-6	0 -2		0.7	Pass	Pass
N7 off-slip EB N7 off-slip EB	Greenhill Overbridge The Paddocks	133	114	7		117 4	105 4	0	11	-16 -1	-9 0	-7 -1 0 -1		1.5 0.5	Pass Pass	Pass Pass
Greenhill Overbridge	N7 Access Road	112	-	-	. 11	120	99	8	13	8	2	0 -1		0.5	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	309		2		308	284	0	25	-1	3	-2 -1		0.1	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	39	31	2		37	32	0	5	-2	1	-2 -1		0.4	Pass	Pass
N7 Access Road	N7 Access Road	1	1	0	_	0	0	0	0	-1	-1	0 0		1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	308			17	331	320 163	1	10 16	23	30	0 -7		1.3 0.1	Pass	Pass
N7 Access Road N7 Access Road	Greenhill Overbridge The Paddocks	182			25	181 3	2	0	1	-1 0	0	-2 -9 0 0		0.0	Pass Pass	Pass Pass
Site 8 N7 Access Road / Jo				J	_		-	<u> </u>	_		S ₁			0.0	1 400	1 000
Church Avenue East	Church Avenue West	77	69	0	8	81	47	11	23	4	-22	11 15	-4	0.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue East	Johnstown Garden	2	2			2	2	0	0	0	0	0 0		0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	0	0	0	0	0	0	0	0 0		0.0	Pass Pass	Pass Pass
Johnstown Garden Johnstown Garden	Church Avenue East Johnstown Garden	0	0			0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	-	-	-	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue East	471	431	2	37	496	464	3	28	25	33	1 -9	-25	1.2	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 5 Church Ave Railway									2.5	2-	20	0	00	4.0		-
Church Avenue West Church Avenue East	Church Avenue East Church Avenue West	424 62			28	463 61	431 38	3	28	-1	-16	0 0		1.9 0.1	Pass Pass	Pass Pass
Site 6 Kerdiffstown Road		62	54	0	, 8	91	38	U	25	-1	-10	U 15		0.1	1 055	1 055
Church Avenue west	Church Avenue East	463	431	3	28	448	417	3	28	-15	-14	0 0	15	0.7	Pass	Pass
Church Avenue west	Golf Club	10	10		0	11	11	0	0	1	1	0 0	-1	0.3	Pass	Pass
Golf Club	Church Avenue East	44			-	46	46	0	0	2	2	0 0		0.2	Pass	Pass
Golf Club	Church Avenue west	0	-			0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue East Church Avenue East	Golf Club Church Avenue west	11 63	11 55			7 62	7 39	0	23	-4 -1	-4 -16	0 0		1.4 0.1	Pass Pass	Pass Pass
Site 7 Kerdiffstown Road		03	33	0	8	02	39	U	23	-1	-10	J 15		0.1	1 455	1 455
Church Avenue East	Landfill	3	3	0	0	12	1	10	0	9	-2	10 0	-9	3.3	Pass	Pass
Church Avenue East	Church Avenue west	74			8	69	46	0	23	-5	-20	0 15	5	0.6	Pass	Pass
Church Avenue East	Church Avenue East	0	_		-	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue west	Landfill	0	_		_	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue west	Church Avenue Fast	0 469	-	_	·	0 492	0 460	0	28	23	23	0 0		0.0	Pass Pass	Pass Pass
Church Avenue west Landfill	Church Avenue East Landfill	469	437			492 0	460	3	0	23	0	0 0		0.0	Pass	Pass
Landfill	Church Avenue west	0	_			0	0	0	0	0	0	0 0		0.0	Pass	Pass
Landfill	Church Avenue East	6	_			6	6	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre																
Church Avenue East	Church Avenue west	75			22	82	49	11	23	7	1	7 1		0.8	Pass	Pass
Church Avenue East	Garden Centre	103	103		_	100	100	0	0	-3	-3	0 0		0.3	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue East Garden Centre	471 0	431	0		495 0	464 0	3	28	24	33	0 0		0.0	Pass Pass	Pass Pass
Garden Centre	Church Avenue west	0				0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre	Church Avenue East	25		_		23	23	0	0	-2	-2	0 0		0.5	Pass	Pass
Site 4 Church Ave / Salling																
Church Avenue East	Church Avenue West	63				60	37	0	23	-3	-18	0 15		0.3	Pass	Pass
Church Avenue East	School	0				0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue East School	428		3		463 213	432	3	28	35 16	35	0 0		1.6 1.1	Pass	Pass Pass
Church Avenue West School	Church Avenue West	197 124	197 124		0	213 128	213 128	0	0	16 4	16 4	0 0		0.3	Pass Pass	Pass
School	'	0			_	0	0	0	0	0	0	0 0		0.0	Pass	Pass
						J		J		-	<u> </u>	- 1		3.0		

DS 2018 PM Peak

Locat			Obse	rved			Model				Differe	nce			Diffe	erence	
	То	Total		HGV	LGV	Total	Cars HGV	L	GV 1	Fotal Car		GV LG	V	Difference		Flow	GEH
Site 1 R407 / Church Ave,	Sallins																
	R407 South	1926	1676	61		1924	1664	59	200	-2	-12	-2	10		0.1	Pass	Pass
R407 North	Church Avenue East	101	94	0		104	99	0	5	3	5	0	-2	-3	0.3	Pass	Pass
R407 South	R407 North	2479	2202	84		2469	2170	94	205	-10	-32	10	12		0.2	Pass	Pass
R407 South	Church Avenue East	28		0	-	27	27	0	0	-1	-1	0	0	1	0.2	Pass	Pass
	R407 South R407 North	127 20	111 18	0		123 21	105 19	0	18 2	-4 1	-6 1	0	0	-1	0.4	Pass Pass	Pass Pass
	Church Avenue East	0		0		0	0	0	0	0	0	0	0	0	0.2	Pass	Pass
Site 2 Church Ave (W) / Ch			U				J	U	U		U U	U U			0.0	1 455	1 455
	Church Avenue West	147	129	0	18	141	120	0	21	-6	-9	0	3	6	0.5	Pass	Pass
Church Avenue East	Church Avenue South	359	329	1	28	352	310	9	33	-7	-19	8	5	7	0.3	Pass	Pass
Church Avenue North	Church Avenue West	2	2	0	0	4	4	0	0	2	2	0	0	-2	1.1	Pass	Pass
Church Avenue North	Church Avenue East	26	25	0	1	28	26	0	2	2	1	0	1	-2	0.3	Pass	Pass
Church Avenue West	Church Avenue South	12		0		12	12	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	118	111	0	7	121	116	0	5	3	5	0	-2	-3	0.3	Pass	Pass
Site 3 R407 / Church Ave (446			440	100			4.4	4.0			4.4	4.0	Door	Donat
	R407 South	124	116	0		110	103	0	7	-14	-13	0	-1	14	1.3	Pass	Pass
	R407 North	273	242	1	29	251	216	9	27	-22	-26	8	-2	22	1.3	Pass	Pass
	Church Avenue East	2029	1701	61	_	2075	1796	0 60	219	-1 37	-1	0	0 22		0.4	Pass	Pass
R407 North R407 South	R407 South	2038	1781 29	61		2075	25	0	0	-4	15 -4	-1 0	0		0.8	Pass Pass	Pass Pass
	Church Avenue East R407 North	2228	1970	85		2246	1983	85	178	18	13	0	4		0.8	Pass	Pass
Site 10 N7 South Roundab		2228	1970	63	1/4	2240	1903	85	1/8	10	15	U	4	-10	0.4	F 455	rass
	Greenhill Overbridge	206	188	3	15	206	187	4	15	0	-1	1	0	0	0.0	Pass	Pass
	N7 on-slip WB	5		0		4	4	0	0	-1	-1	0	0		0.5	Pass	Pass
Palmerstown	Kill West	275		8		278	250	7	21	3	5	-1	0	-3	0.2	Pass	Pass
Palmerstown	Palmerstown	0		0	1	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	236	214	1	21	227	206	1	20	-9	-8	0	-1	9	0.6	Pass	Pass
	N7 on-slip WB	105	90	4	11	110	93	4	13	5	3	0	2	-5	0.5	Pass	Pass
Kill West	Kill West	0	0	0	•	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Palmerstown	424	377	13	34	435	389	13	34	11	12	0	0	-11	0.5	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	68	62	2	4	65	61	1	3	-3	-1	-1	-1	3	0.3	Pass	Pass
	Kill West	279	253	3	23	270	247	3	20	-9	-6	0	-3	9	0.5	Pass	Pass
	Palmerstown	98	95	0		102	100	0	2	4	5	0	-1	-4	0.4	Pass	Pass
•	Greenhill Overbridge	224	189	1	34	228	194	2	33	4	5	1	-1	-4	0.2	Pass	Pass
· · · · · · · · · · · · · · · · · · ·	N7 on-slip WB	234	202	2		237	204	2	31	3	2	0	1	-3	0.2	Pass	Pass
N7 off-slip WB	Kill West	26		0		28	22	0	6	2	1	0	1	-2	0.3	Pass	Pass
N7 off-slip WB	Palmerstown	542	505	3	34	530	496	3	31	-12	-9	0	-3	12	0.5	Pass	Pass
Site 9 N7 North Roundabo			_				-	0			0				0.0	Dana	Dana
	N7 Access Road	7		0			7	0	0	0	0	0	0		0.0	Pass	Pass
	N7 on-slip EB	11		0		11	9	0	2	0	1	0	-1	-1	0.0	Pass	Pass
	Greenhill Overbridge	44	41	1	0	45 0	43	0	0	1	0	0	0	0	0.1	Pass	Pass
	The Paddocks	76		0 1	3	72	68	1	3	-4	-4	0	0	4	0.0	Pass Pass	Pass Pass
N7 off-slip EB	N7 Access Road N7 on-slip EB	65		2	4	61	55	3	3	-4	-4	1	-1	4	0.4	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	178	157	3		163	141	3	18	-15	-16	0	0	15	1.1	Pass	Pass
N7 off-slip EB	The Paddocks	4	3	0		3	3	0	0	-1	0	0	-1	1	0.6	Pass	Pass
	N7 Access Road	448		4	52	443	389	3	51	-5	-4	-1	-1	5	0.3	Pass	Pass
	N7 on-slip EB	213	194		17	210	191	2	17	-3	-3	0	0	3	0.2	Pass	Pass
	Greenhill Overbridge	0		0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	The Paddocks	10	8	1	1	8	6	1	0	-2	-2	0	-1	2	0.7	Pass	Pass
N7 Access Road	N7 Access Road	3	2	0	1	2	1	0	0	-1	-1	0	-1	1	0.6	Pass	Pass
N7 Access Road	N7 on-slip EB	55	49	0	5	49	47	0	2	-6	-2	0	-3	6	0.8	Pass	Pass
N7 Access Road	Greenhill Overbridge	222	211	0	11	230	226	0	5	8	15	0	-6	-8	0.5	Pass	Pass
N7 Access Road	The Paddocks	1	1	0	0	1	1	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 8 N7 Access Road / Jo																_	
	Church Avenue West	478		3	47	468	410	4	54	-10	-17	1	7	10	0.4	Pass	Pass
	Church Avenue East	0	0	0	_	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Johnstown Garden	1	1	0	_		1	0	0	0	0	0	0		0.0	Pass	Pass
	Church Avenue West	0		0	ŭ	5	0	5	0	5	0	5	0	-5	3.2	Pass	Pass
	Church Avenue East	1		0	_	3	3	0	0	2	2	0	0	-2	1.4	Pass	Pass
Johnstown Garden	Johnstown Garden	0		0	_	0	0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
	Church Avenue West Church Avenue East	169		0		172	0 165	0	8	3	5	0	-1	-3	0.0	Pass	Pass
	Johnstown Garden	169		0		0	0	0	0	0	0	0	-1		0.0	Pass	Pass
Site 5 Church Ave Railway		,	J		J	U			J						0.0	. 4.00	. 400
	Church Avenue East	134	126	8	0	138	131	0	8	4	5	-8	8	-4	0.3	Pass	Pass
	Church Avenue West	464	413	47		453	390	9	54	-11	-23	-38	51		0.5	Pass	Pass
Site 6 Kerdiffstown Road																	
Church Avenue west	Church Avenue East	152		0	_	128	120	0	8	-24	-23	0	0		2.0	Pass	Pass
	Golf Club	10	_	0		10	10	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	27		0	_	29	29	0	0	2	2	0	0	-2	0.3	Pass	Pass
	Church Avenue west	0		0	_	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Golf Club	8	8	0		6	6	0	0	-2	-2	0	0	2	0.8	Pass	Pass
	Church Avenue west	464	413	3	47	454	392	9	54	-10	-21	6	7	10	0.5	Pass	Pass
Site 7 Kerdiffstown Road /								0			2				0.0	Descri	Dec
	Church Avenue west	472		0	_	4	405	0	0	-2	-2 16	0	0		0.9	Pass	Pass
	Church Avenue West	472	421	3	47	468	405	9	54	-4	-16	6	7	4	0.2	Pass	Pass
	Church Avenue East	0		0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	0	0		0	0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
Church Avenue west Church Avenue west	Church Avenue west Church Avenue East	169		0		155	147	0	8	-14	-14	0	0	14	1.1	Pass	Pass
Landfill	Landfill	169		0		155	0	0	0	-14	-14	0	0	0	0.0	Pass	Pass
	Church Avenue west	0		0	_	0	0	0	0	0	0	0	0		0.0	Pass	Pass
	Church Avenue East	17		0			18	0	0	1	1	0	0		0.0	Pass	Pass
Garden Centre			1,			20			0		-				V. <u>L</u>		
	Church Avenue west	480	419	5	56	469	411	4	54	-11	-8	-1	-2	11	0.5	Pass	Pass
	Garden Centre	55		0		51	51	0	0	-4	-4	0	0		0.5	Pass	Pass
	Church Avenue East	170		0		175	167	0	8	5	6	0	-1	-5	0.4	Pass	Pass
	Garden Centre	0		0		0	0	0	0	0	0	0	0		0.0	Pass	Pass
	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	110	110	0		109	109	0	0	-1	-1	0	0	1	0.1	Pass	Pass
Site 4 Church Ave / Sallins	National School																
Church Avenue East	Church Avenue West	464	413	3	47	452	389	9	54	-12	-24	6	7	12	0.5	Pass	Pass
Church Avenue East	School	0		0		0	0	0	0	0	0	0	0		0.0	Pass	Pass
Church Avenue West	Church Avenue East	134		0	_	139	131	0	8	5	5	0	0		0.4	Pass	Pass
	School	10		0		10	10	0	0	0	0	0	0		0.0	Pass	Pass
	Church Avenue West	40	40	0		41	41	0	0	1	1	0	0		0.1	Pass	Pass
School	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass

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Company of Company o	RS 2018 AM Peak Loca	ntion	201	L8 Remediat	tion Observe	d	201	L8 Remedia	tion Model	ed		Difference			Diffe	rence	
Personal	From	То					Total (Cars	HGV	LGV	Total Cars		LGV	Difference	GEH	Flow	GEH
Margin M															1	1	_
March Marc									109	<u> </u>							
Ref York - Control of Mark Services 19									108							1	
The second secon																	
Section Company Comp	Church Avenue East			44		1	47				2	2		-2	0.2		Pass
West Company Service																1	
Treatment of the control of the cont			0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Combination (14) Combination (15) Combination			44	44	0	0	44	44	0		0	0	0 0	0	0.1	Pass	Pass
Contaminate																	
Control Cont	Church Avenue North	Church Avenue West	8	7	0	1	10	9	0	1	2	2	0 0	-2	0.6	Pass	Pass
Variety Vari	Church Avenue North		161	149	1	10	193				32			-32	2.4	Pass	Pass
The Part Content And	Church Avenue West					1											
Curst description (1500 bigs) 100			465	444	2	18	485	467	2	15	20	23	0 -3	-20	0.9	Pass	Pass
Control control Control Control Control		1	83	80	1	2	83	76	0	7	0	-4	-1 5	0	0.0	Pass	Pass
Marging Marg	Church Avenue East				1												
March Secure March Mar	R407 North	Church Avenue East	14	13	0	1	17	15	0	2	3	2	0 1	-3	0.7	Pass	Pass
Metal Lange	R407 North	R407 South			113						28		-1 11		0.6	Pass	Pass
West													_		1		
Description of Control Contr			1698	1396	108	194	1718	1411	108	199	20	15	0 5	-20	0.5	Pass	Pass
Institution			324	302	1	21	327	306	1	20	3	4	0 -1	-3	0.2	Pass	Pass
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March Green Gree					1						-				•		
March Profession 488 448 12 3 348 141 12 2 6 6 6 10 5 7 10 10 10 10 10 10 10		· ·			1							-			+		
General Controlling Contro			-								-	-	-		<u> </u>		
General Description Value															<u> </u>		
Greenth Contrology Protections			69	40	25	4	51				-18				<u> </u>		
To deling with the controlled property of the co	Greenhill Overbridge																
17.5 design	Greenhill Overbridge														+		
No. of the layer Month M	N7 off-slip WB					9											
No of this play Parametrises April 19 3 20 14 31 3 20 14 31 3 20 14 4 4 2 2 5 5 6 6 5 6 6 6 6 6		· ·				7						-			<u> </u>		
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The Productions Generalial Developing 4 2 0 2 4 2 8 2 0 0 0 0 0 0 0 0 0	The Paddocks	N7 Access Road	2	1	0	1	1	1	0	0	-1	0	0 -1	1	0.8	Pass	Pass
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N7 Access Road			1		0	0						_					+
NY Access Road The Paddocks 3 2 0 1 3 2 0 1 0 0 0 0 0 0 0 0			341	302	22			327	10						•		
Side Str Access Road J. Johnstown Gerden Centre Clurch Arenue East C. Durch Arenue East C. D	N7 Access Road	Greenhill Overbridge	215	164	25	25	198	169	13		-17		-12 -9	17	1.2	Pass	Pass
Church Ammer Meet Church Ammer Meet Church Ammer Meet Church Ammer East Church Ammer	N7 Access Road		3	2	0	1	3	2	0	1	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East Church Avenue East	· · · · · · · · · · · · · · · · · · ·		110	0.1	24		115		24	22	-	10	10 15		0.0	Door	Door
Church Avenue West Church Avenue															+		
Selection Garden Church Avenue Vest 0 0 0 0 0 0 0 0 0			1	•				1	-		-				+	+	+
Debtstown Garden			0	0	0	0	0	0	0		0			0	+	+	+
Church Avenue West Church Avenue East 504 648 23 37 528 477 23 28 24 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Johnstown Garden	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West			-						-		-				+	+	+
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Site Stedifishow Road / Nas Golf Club Stedies	Church Avenue West		428	397	3	28	463	431	3	28	35	34	0 0	-35	1.6	Pass	Pass
Church Avenue west	Church Avenue East		63	55	0	8	66	44	0	23	3	-11	0 15	-3	0.4	Pass	Pass
Church Avenue west Church Avenue East Math May 10 10 0 0 11 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 0 0 0 1 1 0											4-	4.4	0	- 15			
Golf Club Church Avenue East 44 44 0 0 0 46 46 0 0 0 2 2 2 0 0 0 2 0 0 0 0 0 0 0 0 0					-												
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Site 7 Kerdiffstown Road / Landfill Site Church Avenue East		Golf Club								0			0 0	3	+		
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Church Avenue East Church Avenue West 74 66 0 8 8 75 52 0 23 1 -14 0 15 -1 0.1 Pass Pass Church Avenue East Church Avenue East Church Avenue East Church Avenue East 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												-	10		0.0		
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Landfill Church Avenue East 39 18 21 0 38 18 20 0 -1 0 -1 0 1 0.2 Pass Pass Carden Centre Church Avenue East Church Avenue west 108 60 25 22 117 62 31 23 9 2 6 1 -9 0.9 Pass Pass Church Avenue East Garden Centre 103 103 103 0 0 106 106 0 0 3 3 3 0 0 0 -3 0.3 Pass Pass Church Avenue West Church Avenue East 504 443 23 37 527 476 23 28 23 33 0 0 9 -23 1.0 Pass Pass Church Avenue west Garden Centre 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-		- v						-				1		
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Church Avenue East Church Avenue west 108 60 25 22 117 62 31 23 9 2 6 1 -9 0.9 Pass Pass Church Avenue East Garden Centre 103 103 0 0 106 106 0 0 3 3 0 0 0 -3 0.3 Pass		Charen Avenue East	39	18	21	U	38	18		U	-1	υl	-1 0		0.2	rass	Fass
Church Avenue East Garden Centre 103 103 0 0 106 106 0 0 3 3 0 0 0 -3 0.3 Pass Pass Church Avenue west Church Avenue East 504 443 23 37 527 476 23 28 23 33 0 0 -9 -23 1.0 Pass Pass Church Avenue west Garden Centre 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Church Avenue west	108	60	25	22	117	62	31	23	9	2	6 1	-9	0.9	Pass	Pass
Church Avenue west Garden Centre											-	_				+	+
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Garden Centre Church Avenue East 25 25 0 0 23 23 0 0 -2 -2 0 0 2 0.5 Pass Pass Site 4 Church Ave / Sallins National School Church Avenue West 63 55 0 8 66 44 0 23 3 -11 0 15 -3 0.4 Pass Pass Church Avenue East School 0 0 0 0 0 0 0 0 0	Church Avenue west		1														+
Site 4 Church Aver / Sallins National School Church Avenue East Church Avenue West 63 55 0 8 66 44 0 23 3 -11 0 15 -3 0.4 Pass Pass Church Avenue East School 0 -36 1.7 Pass Pass Pass Church Avenue West School 197 197 0 0	Garden Centre		1										_				
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Church Avenue East School 0			63	55	0	, R	66	44	0	23	3	-11	0 15	-3	0.4	Pass	Pass
Church Avenue West Church Avenue East 428 397 3 28 464 432 3 28 36 35 0 0 -36 1.7 Pass Pass Church Avenue West School 197 197 0 0 213 213 0 0 16 16 0 0 -16 1.1 Pass Pass School Church Avenue West 124 124 0 0 128 128 0 0 4 4 0 0 -4 0.3 Pass Pass	Church Avenue East																+
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School Church Avenue East 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School				U					-			_				
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DC	201	0	DNA	Poak	

RS 2018 PM Peak Locat	ion		Obse	rved			Model				Differe	nce			Diffe	rence	
From	То	Total	Cars	HGV	LGV T	otal Ca	ars HG	V LG	V	Γotal C	ars H	GV L	GV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa		1026	1676	C1	100	4025	1665	60	200	4	11	1	10		0.0	Dees	Door
R407 North R407 North	R407 South Church Avenue East	1926 101	1676 94	61	190 7	1925 105	1665 99	60	200	-1 4	-11 5	-1	-2	-4	0.0	Pass Pass	Pass Pass
R407 South	R407 North	2479	2202	84	193	2469	2175	89	205	-10	-27	5	12	10	0.4	Pass	Pass
R407 South	Church Avenue East	28	28	0	0	27	27	0	0	-1	-1	0	0	1	0.2	Pass	Pass
Church Avenue East	R407 South	127	111	0		126	108	0	18	-1	-3	0	2	1	0.1	Pass	Pass
Church Avenue East Church Avenue East	R407 North Church Avenue East	20	18	0	0	22	19	0	0	0	0	0	0	-2 0	0.4	Pass Pass	Pass Pass
Site 2 Church Ave (W) / Chu		U	U _I	U	U	U	υĮ	U	U	U U	U _I	U _I	U	U	0.0	F d 5 5	FdSS
Church Avenue East	Church Avenue West	147	129	0	18	145	124	0	21	-2	-5	0	3	2	0.2	Pass	Pass
Church Avenue East	Church Avenue South	359	329	1	28	353	315	4	33	-6	-14	3	5	6	0.3	Pass	Pass
Church Avenue North	Church Avenue West	2	2	0		4	36	0	2	2	2	0	0	-2	1.1	Pass	Pass
Church Avenue North Church Avenue West	Church Avenue East Church Avenue South	26 12	25 12	0		28 12	26 12	0	0	0	0	0	0	-2 0	0.3	Pass Pass	Pass Pass
Church Avenue West	Church Avenue East	118	111	0		121	116	0	5	3	5	0	-2	-3	0.3	Pass	Pass
Site 3 R407 / Church Ave (E)																	
Church Avenue East	R407 South	124	116	0		112	105	0	7	-12	-11	0	-1	12	1.1	Pass	Pass
Church Avenue East R407 North	R407 North Church Avenue East	273 7	242	0	29	251 6	220	0	27	-22 -1	-22 -1	0	-2 0	1	1.3 0.4	Pass Pass	Pass Pass
R407 North	R407 South	2038	1781	61	197	2078	1798	60	219	40	17	-1	22	-40	0.4	Pass	Pass
R407 South	Church Avenue East	29	29	0		25	25	0	0	-4	-4	0	0	4	0.8	Pass	Pass
R407 South	R407 North	2228	1970	85	174	2246	1983	85	178	18	13	0	4	-18	0.4	Pass	Pass
Site 10 N7 South Roundabou										-						_	_
Palmerstown	Greenhill Overbridge	206 5	188	<u>3</u>	15 0	206	187	0	15 0	-1	-1 -1	0	0	1	0.0	Pass	Pass Pass
Palmerstown Palmerstown	N7 on-slip WB Kill West	275	245	8	21	278	249	7	21	3	4	-1	0	-3	0.5	Pass Pass	Pass
Palmerstown	Palmerstown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	236	214	1	21	227	206	1	20	-9	-8	0	-1	9	0.6	Pass	Pass
Kill West	N7 on-slip WB	105	90	4	11	110	93	4	13	5	3	0	2	-5	0.5	Pass	Pass
Kill West	Kill West	0	0	13	0	0 42E	0	0	0	0	12	0	0	0	0.0	Pass	Pass
Kill West Greenhill Overbridge	Palmerstown Greenhill Overbridge	424 0	377 0	13 0	34	435	389	13	34	11	12	0	0	-11 0	0.5	Pass Pass	Pass Pass
Greenhill Overbridge	N7 on-slip WB	101	74	23	4	86	73	10	3	-15	-1	-13	-1	15	1.5	Pass	Pass
Greenhill Overbridge	Kill West	279	253	3	23	266	244	2	20	-13	-9	-1	-3	13	0.8	Pass	Pass
	Palmerstown	98	95	0		98	97	0	2	0	2	0	-1	0	0.0	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	257	201	22	34	252	204	15	33	-5	3	-7	-1	5	0.3	Pass	Pass
N7 off-slip WB	N7 on-slip WB	234 26	202	0	30 5	236 28	203	0	31 6	2	1	0	1	-2	0.1	Pass	Pass
N7 off-slip WB N7 off-slip WB	Kill West Palmerstown	542	505	3	34	529	495	3	31	-13	-10	0	-3	-2 13	0.3	Pass Pass	Pass Pass
Site 9 N7 North Roundabout		542	303		3.1	525	133	3	31	10	10				0.0	1 400	1 466
The Paddocks	N7 Access Road	7	7	0	0	7	7	0	0	0	0	0	0	0	0.0	Pass	Pass
The Paddocks	N7 on-slip EB	11	8	0	3	11	9	0	2	0	1	0	-1	0	0.0	Pass	Pass
The Paddocks	Greenhill Overbridge	44	41	1	2	45	43	1	2	1	2	0	0	-1	0.1	Pass	Pass
The Paddocks N7 off-slip EB	The Paddocks N7 Access Road	109	84	0 22	0	99	0 82	0 15	3	-10	-2	-7	0	10	1.0	Pass Pass	Pass Pass
N7 off-slip EB	N7 on-slip EB	65	59	22	4	58	54	13	3	-10	-5	-1	-1	7	0.8	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	178	157	3	18	161	143	1	18	-17	-14	-2	0	17	1.3	Pass	Pass
N7 off-slip EB	The Paddocks	4	3	0		3	3	0	0	-1	0	0	-1	1	0.6	Pass	Pass
Greenhill Overbridge	N7 Access Road	482	405	25	52	467	400	16	51	-15	-5	-9	-1	15	0.7	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	213 0	194	0	17 0	209	190	0	17 0	-4 0	-4 0	0	0	0	0.3	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge The Paddocks	10	8	1	1	8	7	1	0	-2	-1	0	-1	2	0.0	Pass Pass	Pass Pass
N7 Access Road	N7 Access Road	3	2	0	1	2	2	0	0	-1	0	0	-1	1	0.6	Pass	Pass
N7 Access Road	N7 on-slip EB	88	61	21	5	66	55	9	2	-22	-6	-12	-3	22	2.5	Pass	Pass
N7 Access Road	Greenhill Overbridge	255	223	21	11	245	230	11	5	-10	7	-10	-6	10	0.7	Pass	Pass
N7 Access Road Site 8 N7 Access Road / John	The Paddocks	1	1	0	0	1	1	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue East	Church Avenue West	511	439	24	47	518	433	30	54	7	-6	6	7	-7	0.3	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	1	1	0		1	1	0	0	0	0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	0	5	0	5	0	5	0	5	0	-5	3.2	Pass	Pass
Johnstown Garden Johnstown Garden	Church Avenue East Johnstown Garden	0	1	0	-	3	3	0	0	0	0	0	0	-2 0	0.0	Pass Pass	Pass Pass
Church Avenue West	Church Avenue West	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	202	172	21	9	204	177	19	8	2	5	-2	-1	-2	0.2	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 5 Church Ave Railway B												. 1					
Church Avenue West Church Avenue East	Church Avenue East Church Avenue West	134 464	126 413	<u>0</u> 3	8 47	138 458	131 399	0	8 54	-6	-14	0	7	-4 6	0.3	Pass Pass	Pass Pass
Site 6 Kerdiffstown Road / N		404	413	3	47	438	333	4	34	-6	-14	1	/		0.5	1 055	1 055
Church Avenue west	Church Avenue East	152	143	0	8	128	120	0	8	-24	-23	0	0	24	2.0	Pass	Pass
Church Avenue west	Golf Club	10	10	0		10	10	0	0	0	0	0	0	0	0.0	Pass	Pass
Golf Club	Church Avenue East	27	27	0	0	29	29	0	0	2	2	0	0	-2	0.3	Pass	Pass
Golf Club Church Avenue East	Church Avenue west Golf Club	0 8	0 8	0	0	6	6	0	0	-2	-2	0	0	2	0.0	Pass Pass	Pass Pass
Church Avenue East	Church Avenue west	464	413	3	47	460	402	4	54	-4	-11	1	7	4	0.0	Pass	Pass
Site 7 Kerdiffstown Road / L																	
Church Avenue East	Landfill	39	18	21	0	48	18	30	0	9	0	9	0	-9	1.3	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue west Church Avenue East	472 0	421 0	<u>3</u>	47 0	472 0	414	0	54	0	-7 0	0	7	0	0.0	Pass Pass	Pass Pass
Church Avenue west	Landfill	0	0	0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	181	173	0	8	155	147	0	8	-26	-26	0	0	26	2.0	Pass	Pass
Landfill Landfill	Church Avenue west	0	0	0		0	0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
Landfill	Church Avenue west Church Avenue East	50	_	21	0	50	30	20	0	0	1	-1	0	0	0.0	Pass	Pass
Garden Centre	The same and a same	33	23	-1		50	30		U	J.	-	1			0.0	. 400	. 300
Church Avenue East	Church Avenue west	513	431	26		518	434	30	54	5	3	4	-2		0.2	Pass	Pass
Church Avenue East	Garden Centre	55		0		53	53	0	0	-2	-2	0	0		0.2	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue East Garden Centre	203	173 0	21 0	9	207	180	19 0	8	0	7	-2 0	-1 0	-4 0	0.3	Pass Pass	Pass Pass
	Church Avenue west	0		0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	110	110	0		109	109	0	0	-1	-1	0	0	1	0.1	Pass	Pass
Site 4 Church Ave / Sallins N																_	
Church Avenue East	Church Avenue West	464 0	413	3	47 0	457 0	398	4 0	54	-7 0	-15 0	0	7	7	0.3	Pass	Pass
Church Avenue East Church Avenue West	School Church Avenue East	134	126	0		139	131	0	8	5	5	0	0	-5	0.0	Pass Pass	Pass Pass
Church Avenue West	School	10	10	0	0	10	10	0	0	0	0	0	0	0	0.0	Pass	Pass
School	Church Avenue West	40		0		41	41	0	0	1	1	0	0	-1	0.1	Pass	Pass
School	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass

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RS_SENS 2018 AM Peak Locat	tion		Do Minim	um 2018		20	18 Remedi	ation SENS			Differen	ce			Diffe	rence	
From	То	Total			LGV T				LGV T	otal (Cars HG			Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa	allins																
R407 North	R407 South	2064	1779	113	172	2061	1768	109	183	-3	-11	-4	11	3	0.1	Pass	Pass
R407 North	Church Avenue East	400	383	2	15	407	394	1	11	7	11	-1	-4	-7	0.3	Pass	Pass
R407 South	R407 North	1687	1375	112	200	1720	1403	108	210	33	28	-4	10	-33	0.8	Pass	Pass
R407 South	Church Avenue East	94	89	0	5	96	91	0	5	2	2	0	0	-2	0.2	Pass	Pass
Church Avenue East	R407 South	45	44	0	1	49	49	0	1	4	5	0	0	-4	0.5	Pass	Pass
Church Avenue East	R407 North	8	8	0	0	8	8	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu	· · ·						40			ا ا							
Church Avenue East	Church Avenue West	44	44	0	0	48	48	0	0	4	4	0	0	-4	0.5	Pass	Pass
Church Avenue East	Church Avenue South	140	133	2	5	158	135	0	23	18	2	-2	18	-18	1.4	Pass	Pass
Church Avenue North	Church Avenue West	8	140	0	10	10	9	0	1	2	2	0	0	-2	0.6	Pass	Pass
Church Avenue North	Church Avenue East	161	149	0	10	193 27	178 26	0	13	32	29	1	3	-32	2.4	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue South Church Avenue East	27 465	26 444	2	18	485	468	2	15	20	24	0	-3	-20	0.1	Pass Pass	Pass Pass
Site 3 R407 / Church Ave (E)		403	444		10	403	400	2	15	20	24	U	-3	-20	0.9	FdSS	Fass
Church Avenue East	R407 South	83	80	1	2	87	80	0	7	4	0	-1	5	-4	0.5	Pass	Pass
Church Avenue East	R407 North	91	84	1	6	99	82	0	16	8	-2	-1	10	-8	0.8	Pass	Pass
R407 North	Church Avenue East	14	13	0	1	17	15	0	2	3	2	0	1	-3	0.7	Pass	Pass
R407 North	R407 South	2101	1814	113	174	2131	1834	112	185	30	20	-1	11	-30	0.7	Pass	Pass
R407 South	Church Avenue East	188	174	1	13	186	172	2	12	-2	-2	1	-1	2	0.1	Pass	Pass
R407 South	R407 North	1698	1396	108	194	1718	1411	108	199	20	15	0	5	-20	0.5	Pass	Pass
Site 10 N7 South Roundabo	ut																
Palmerstown	Greenhill Overbridge	324	302	1	21	327	306	1	20	3	4	0	-1	-3	0.2	Pass	Pass
Palmerstown	N7 on-slip WB	1	1	0	0	1	1	0	0	0	0	0	0	0	0.0	Pass	Pass
Palmerstown	Kill West	377	341	14	21	379	345	13	21	2	4	-1	0	-2	0.1	Pass	Pass
Palmerstown	Palmerstown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	94	82	1	11	97	84	1	12	3	2	0	1	-3	0.3	Pass	Pass
Kill West	N7 on-slip WB	206	190	1	15	214	198	1	15	8	8	0	0	-8	0.5	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Palmerstown	169	146	13	9	164	142	12	9	-5	-4	-1	0	5	0.4	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	147	68	75	4	100	64	33	3	-47	-4	-42	-1	47	4.2	Pass	Pass
Greenhill Overbridge	Kill West	238	200	7	31	215	186	4	24	-23	-14	-3	-7	23	1.6	Pass	Pass
Greenhill Overbridge	Palmerstown	45	40	0	5	42	39	0	3	-3	-1	0	-2	3	0.5	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	153	67	77	9	118	64	44	10	-35	-3	-33	1	35	3.0	Pass	Pass
N7 off-slip WB	N7 on-slip WB	33	29	0	4	35	29	0	6	2	0	0	2	-2	0.3	Pass	Pass
N7 off-slip WB	Kill West	42	35	0	7	41	33	0	8	-1	-2	0	1	1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	140	117	3	20	142	119	2	21	2	2	-1	1	-2	0.1	Pass	Pass
Site 9 N7 North Roundabou	t																
The Paddocks	N7 Access Road	2	1	0	1	1	1	0	0	-1	0	0	-1	1	0.8	Pass	Pass
The Paddocks	N7 on-slip EB	6	3	0	3	5	3	0	2	-1	0	0	-1	1	0.5	Pass	Pass
The Paddocks	Greenhill Overbridge	4	2	0	2	4	2	0	2	0	0	0	0	0	0.0	Pass	Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	173	92	71	10	133	85	37	11	-40	-7	-34	1	40	3.2	Pass	Pass
N7 off-slip EB	N7 on-slip EB	89	78	0	11	81	71	0	9	-8	-7	0	-2	8	0.9	Pass	Pass
N7 off-slip EB N7 off-slip EB	Greenhill Overbridge	133	114	7 0	12	117	103	3	0	-16 -1	-11	-4	-1	16	1.5 0.5	Pass	Pass
Greenhill Overbridge	The Paddocks N7 Access Road	223	137	75	11	192	136	43	13	-31	-1	-32	-1 2	31	2.1	Pass Pass	Pass Pass
Greenhill Overbridge	N7 Access Road N7 on-slip EB	309	281	2	26	314	288	2	25	-51	7	0	-1	-5	0.3	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0	0	0	0	0	0	-1	0	0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	39	31	2	6	36	30	1	5	-3	-1	-1	-1	3	0.6	Pass	Pass
N7 Access Road	N7 Access Road	1	1	0	0	0	0	0	0	-1	-1	0	0	1	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	418	330	72	17	380	337	34	10	-38	7	-38	-7	38	1.9	Pass	Pass
N7 Access Road	Greenhill Overbridge	292	192	75	25	237	186	35	16	-55	-6	-40	-9	55	3.4	Pass	Pass
N7 Access Road	The Paddocks	3	2	0	1	3	2	0	1	0	0	0	0	0	0.0	Pass	Pass
Site 8 N7 Access Road / Joh	nstown Garden Centre																
Church Avenue East	Church Avenue West	187	109	71	8	205	102	80	23	18	-7	9	15	-18	1.3	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	2	2	0	0	2	2	0	0	0	0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Johnstown Garden Church Avenue West	Johnstown Garden Church Avenue West	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
Church Avenue West	Church Avenue West	581	471	73	37	602	505	69	28	21	34	-4	-9	-21	0.0	Pass	Pass
Church Avenue West	Johnstown Garden	0		0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 5 Church Ave Railway B			<u> </u>														
Church Avenue West	Church Avenue East	428	397	3	28	463	431	3	28	35	34	0	0	-35	1.6	Pass	Pass
Church Avenue East	Church Avenue West	63	55	0	8	77	54	0	23	14	-1	0	15	-14	1.7	Pass	Pass
Site 6 Kerdiffstown Road / I	Naas Golf Club																
Church Avenue west	Church Avenue East	463	431	3	28	448	417	3	28	-15	-14	0	0	15	0.7	Pass	Pass
Church Avenue west	Golf Club	10	10	0	0	11	11	0	0	1	1	0	0	-1	0.3	Pass	Pass
Golf Club	Church Avenue East	44	44	0	0	46	46	0	0	2	2	0	0	-2	0.2	Pass	Pass
Golf Club	Church Avenue west	0 11	0	0	0	9	9	0	0	-2	-2	0	0	2	0.0	Pass	Pass
Church Avenue East Church Avenue East	Golf Club Church Avenue west	63	11 55	0	0	77	54	0	23	14	-2 -1	0	15	-14	1.7	Pass Pass	Pass Pass
Site 7 Kerdiffstown Road / I		63	55	U	δ	,,	54	U	23	14	-1	U	15	-14	1.7	rass	r ass
Church Avenue East	Landfill	113	43	71	0	118	38	80	0	5	-5	9	0	-5	0.4	Pass	Pass
Church Avenue East	Church Avenue west	74	66	0		87	64	0	23	13	-2	0	15	-13	1.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	509	477	3	28	492	460	3	28	-17	-17	0	0	17	0.7	Pass	Pass
Landfill	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Landfill	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Landfill	Church Avenue East	116	46	71	0	111	46	65	0	-5	0	-6	0	5	0.5	Pass	Pass
Garden Centre	Chunch A											-		0.5			
Church Avenue East	Church Avenue west	185	88	75	22	207	103	80	23	22	15	5	1	-22	1.6	Pass	Pass
Church Avenue East	Garden Centre	103	103	73	0 37	118	118 504	0	0	15	15	-4	0	-15 -20	1.4	Pass	Pass
Church Avenue west	Church Avenue East	581 0	471 0	73 0	37 0	601	504	69 0	28	20	33	-4	-9 0	-20 0	0.8	Pass	Pass
Church Avenue west Garden Centre	Garden Centre Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
Garden Centre Garden Centre	Church Avenue West Church Avenue East	25		0	_	23	23	0	0	-2	-2	0	0		0.0	Pass	Pass
Site 4 Church Ave / Sallins N		23	23	0	U	23	2.5	U	U			U U	U		0.0	1 433	1 433
Church Avenue East	Church Avenue West	63	55	0	8	77	54	0	23	14	-1	0	15	-14	1.7	Pass	Pass
Church Avenue East	School	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	428	397	3	28	464	432	3	28	36	35	0	0	-36	1.7	Pass	Pass
Church Avenue West	School	197	197	0	0	213	213	0	0	16	16	0	0	-16	1.1	Pass	Pass
School	Church Avenue West	124	124	0	0	128	128	0	0	4	4	0	0	-4	0.3	Pass	Pass
School	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass

RS SFNS 2018 PM Peak					
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Locati	T T		Obse				Mod				Differ					rence	
From Site 1 R407 / Church Ave, Sa	To	Total	Cars	HGV	LGV	Total	Cars	HGV	LGV	Total C	ars	HGV LGV		Difference	GEH	Flow	GEH
	R407 South	1926	1676	61	190	1925	1666	59	200	-1	-10	-2	10	1	0.0	Pass	Pass
	Church Avenue East	101	94	0		104	99	0	5	3	5	0	-2		0.3	Pass	Pass
R407 South	R407 North	2479	2202	84	193	2477	2184	88	205	-2	-18	4	12		0.0	Pass	Pass
	Church Avenue East	28		0		27	27	0	0	-1 4	-1	0	0	1	0.2	Pass	Pass
	R407 South R407 North	127 20	111 18	0		131 22	113 20	0	18 2	2	2	0	2 0	-4 -2	0.3	Pass Pass	Pass Pass
	Church Avenue East	0		0			0	0	0	0	0	0	0		0.0	Pass	Pass
Site 2 Church Ave (W) / Chur																	1
	Church Avenue West Church Avenue South	147 359	129 329	0 1	18 28	150 366	130 330	0	21 33	7	1	2	3 5	-3 -7	0.2	Pass	Pass Pass
	Church Avenue West	2		0		300	330	0	0	2	2	0	0	-7	1.1	Pass Pass	Pass
	Church Avenue East	26		0	1	28	26	0	2	2	1	0	1	-2	0.3	Pass	Pass
Church Avenue West	Church Avenue South	12	12	0	0	12	12	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	118	111	0	7	121	116	0	5	3	5	0	-2	-3	0.3	Pass	Pass
Site 3 R407 / Church Ave (E) Church Avenue East	R407 South	124	116	0	8	116	110	0	7	-8	-6	0	-1	8	0.8	Pass	Pass
	R407 North	273	242	1	29		230	3	27	-13	-12	2	-2	13	0.8	Pass	Pass
R407 North	Church Avenue East	7	5	0	2	6	4	0	2	-1	-1	0	0	1	0.4	Pass	Pass
R407 North	R407 South	2038	1781	61	197	2083	1804	60	219	45	23	-1	22		1.0	Pass	Pass
R407 South R407 South	Church Avenue East R407 North	29 2228	29 1970	0 85		25 2246	25 1983	0 85	0 178	-4 18	-4 13	0	0 4	-18	0.8	Pass Pass	Pass Pass
Site 10 N7 South Roundabou		2228	1970	63	174	2240	1903	83	178	10	13	U	4	-18	0.4	F d 5 5	Fd55
Palmerstown	Greenhill Overbridge	206	188	3	15	206	187	4	15	0	-1	1	0	0	0.0	Pass	Pass
	N7 on-slip WB	5	5	0	0	4	4	0	0	-1	-1	0	0	1	0.5	Pass	Pass
Palmerstown	Kill West	275		8	21	278	250	7	21	3	5	-1	0	-3	0.2	Pass	Pass
Palmerstown Kill West	Palmerstown Greenhill Overbridge	236	0 214	0 1	0 21	0 227	206	0	0 20	0 -9	-8	0	-1	9	0.0	Pass Pass	Pass Pass
Kill West	N7 on-slip WB	105		4	11	110	93	4	13	5	3	0	2	-5	0.5	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Palmerstown	424	377	13	34	435	389	13	34	11	12	0	0	-11	0.5	Pass	Pass
	Greenhill Overbridge	0 178	101	73	0 4	0 134	98	33	3	-44	-3	-40	-1	0 44	0.0 3.5	Pass	Pass Pass
	N7 on-slip WB Kill West	279	253	3	23	134 259	237	2	20	-44	-3 -16	-40	-1 -3	20	1.2	Pass Pass	Pass
	Palmerstown	98		0		93	91	0	2	-5	-4	0	-1	5	0.5	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	335		72	34	307	233	41	33	-28	4	-31	-1	28	1.5	Pass	Pass
·	N7 on-slip WB	234	202	2	30	234	202	1	31	0	0	-1	1	0	0.0	Pass	Pass
N7 off-slip WB N7 off-slip WB	Kill West Palmerstown	26 542		<u>0</u>	5 34	25 531	20 498	0	6 31	-1 -11	-1 -7	-1	-3	11	0.2	Pass Pass	Pass Pass
Site 9 N7 North Roundabout		342	303	3	34	331	490	2	31	-11	-/	-1	-3		0.5	Fass	FdSS
	N7 Access Road	7	7	0	0	7	7	0	0	0	0	0	0	0	0.0	Pass	Pass
	N7 on-slip EB	11		0	3	11	9	0	2	0	1	0	-1	0	0.0	Pass	Pass
	Greenhill Overbridge	44		1	2	45	43	1	2	1	2	0	0	-1	0.1	Pass	Pass
The Paddocks	The Paddocks N7 Access Road	186	0 112	0 72	3	0 148	0 107	0 38	3	-38	-5	-34	0	38	3.0	Pass Pass	Pass Pass
N7 off-slip EB N7 off-slip EB	N7 on-slip EB	65		2	4	57	52	1	3	-38	-5 -7	-1	-1	8	1.0	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	178	157	3	18	168	149	1	18	-10	-8	-2	0	10	0.7	Pass	Pass
N7 off-slip EB	The Paddocks	4	3	0	1	3	3	0	0	-1	0	0	-1	1	0.6	Pass	Pass
	N7 Access Road	559	433	75		522	428	42	51	-37	-5	-33	-1	37	1.6	Pass	Pass
	N7 on-slip EB Greenhill Overbridge	213	194	2 0	17 0	210	191	2	17 0	-3 0	-3 0	0	0	3	0.2	Pass Pass	Pass Pass
	The Paddocks	10	8	1	1	8	7	1	0	-2	-1	0	-1	2	0.7	Pass	Pass
	N7 Access Road	3	2	0	1	1	1	0	0	-2	-1	0	-1	2	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	165	89	71	5	111	77	32	2	-54	-12	-39	-3	54	4.6	Pass	Pass
	Greenhill Overbridge	333	251	71	11	272	234	33	5	-61	-17	-38	-6	61	3.5	Pass	Pass
N7 Access Road Site 8 N7 Access Road / John	The Paddocks	1	1	0	0	1	1	0	0	0	0	0	0	0	0.0	Pass	Pass
·	Church Avenue West	588	467	74	47	615	482	79	54	27	15	5	7	-27	1.1	Pass	Pass
	Church Avenue East	0	0	0			0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	1	1	0	0		1	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue West	0	0	0	-		0	5	0	5	0	5	0	-5	3.2	Pass	Pass
Johnstown Garden Johnstown Garden	Church Avenue East Johnstown Garden	0	0	0	0		0	0	0	0	0	0	0	-2 0	0.0	Pass Pass	Pass Pass
	Church Avenue West	0	0	0			0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	279	199	71	9		205	65	8	-1	6	-6	-1	1	0.1	Pass	Pass
	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 5 Church Ave Railway Bi		421	126			430	124				-			4	0.3	Deec	Dees
	Church Avenue East Church Avenue West	134 464	126 413	<u>0</u> 3	8 47	138 475	131 418	3	8 54	11	5	0	0 7	-4 -11	0.3	Pass Pass	Pass Pass
Site 6 Kerdiffstown Road / N			.13		77	-,,,	-110	J	34		3	, , , , , , , , , , , , , , , , , , ,			J.J		
	Church Avenue East	152	143	0	_		120	0	8	-24	-23	0	0	24	2.0	Pass	Pass
	Golf Club	10		0	0	10	10	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East Church Avenue west	27 0	27 0	0			29	0	0	0	0	0	0	-2 0	0.3	Pass Pass	Pass Pass
	Golf Club	8	8	0			6	0	0	-2	-2	0	0	2	0.0	Pass	Pass
	Church Avenue west	464	Ŭ	3			422	3	54	15	9	0	7		0.7	Pass	Pass
Site 7 Kerdiffstown Road / La																	
	Landfill	116 472		71	0 47	128 490	47	80	0 54	12 18	1 12	9	0 7	-12 -18	1.0 0.8	Pass	Pass
	Church Avenue west Church Avenue East	4/2	421 0	0	0	490	433 0	0	0	18	0	0	0	-18 0	0.8	Pass Pass	Pass Pass
	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue west	0	0	0	_		0	0	0	0	0	0	0	0	0.0	Pass	Pass
	Church Avenue East	209	200	0	-		148	0	8	-54	-52	0	0	54 0	4.0 0.0	Pass	Pass
Landfill Landfill	Landfill Church Avenue west	0	0	0	0		0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
	Church Avenue East	128	Ů	71	0		58	65	0		1	-6	0	5	0.4	Pass	Pass
Garden Centre																	
	Church Avenue west	590		76			483	80	54	26	24	4	-2		1.1	Pass	Pass
	Garden Centre Church Avenue East	55 280		0 71	9		58 208	0 65	0 8		3 8	-6	-1		0.5	Pass Pass	Pass Pass
	Garden Centre	0		0			0	0	0		0	0	0		0.0	Pass	Pass
	Church Avenue west	0		0			0	0	0	0	0	0	0		0.0	Pass	Pass
	Church Avenue East	110	110	0	0	109	109	0	0	-1	-1	0	0	1	0.1	Pass	Pass
Site 4 Church Ave / Sallins N Church Avenue East	Church Avenue West	464	413	3	47	475	418	3	54	11	5	0	7	-11	0.5	Pass	Pass
	School	0		0			0	0	0		0	0	0		0.0	Pass	Pass
	Church Avenue East	134		0	_		131	0	8	5	5	0	0		0.4	Pass	Pass
	School Church Avenue West	10 40		0	0		10 41	0	0	1	0	0	0	-1	0.0	Pass Pass	Pass Pass
	Church Avenue West Church Avenue East	0	0	0	0		0	0	0	0	0	0	0	0	0.1	Pass	Pass

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DS 2022 AM Peak Locat	ion		Obse	rved			Мо	del			Difference			Diffe	rence	
From	То	Total	Cars		LGV	Total	Cars	HGV	LGV 1	Total Cars	HGV	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa	allins															
R407 North	R407 South	2065	1780	113	172	2060	1768	109	183	-5	-12	-4 11		0.1	Pass	Pass
R407 North R407 South	Church Avenue East R407 North	400 1688	383 1375	112	15 200	410 1716	398 1398	108	11 210	10 28	15 23	-1 -4 -4 10		0.5	Pass Pass	Pass Pass
R407 South	Church Avenue East	94	89		5	95	90	0	5	1	1	0 0	-1	0.1	Pass	Pass
Church Avenue East	R407 South	45			1	46	46	0	1	1	2	0 0	-1	0.1	Pass	Pass
Church Avenue East	R407 North	8	8	0	0	7	7	0	0	-1	-1	0 0	1	0.4	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu			44		0	44	44	0	0	0	0	0 0		0.1	Door	Door
Church Avenue East Church Avenue East	Church Avenue West Church Avenue South	140	133	2	5	145	123	0	23	5	-10	0 0		0.1	Pass Pass	Pass Pass
Church Avenue North	Church Avenue West	8	7	0	1	10	9	0	1	2	2	0 0	-2	0.4	Pass	Pass
Church Avenue North	Church Avenue East	161	150		10	193	178	2	13	32	28	1 3	-32	2.4	Pass	Pass
Church Avenue West	Church Avenue South	27	26	0	1	27	26	0	1	0	0	0 0	0	0.1	Pass	Pass
Church Avenue West	Church Avenue East	465	445	2	18	485	468	2	15	20	23	0 -3	-20	0.9	Pass	Pass
Site 3 R407 / Church Ave (E)								_		-1	-					Τ -
Church Avenue East	R407 South	83	80	1	2	81	74	0	7	-2	-6	-1 5		0.2	Pass	Pass
Church Avenue East R407 North	R407 North Church Avenue East	91 14	84 13	0	<u>6</u> 1	93 17	76 15	0	16 2	3	-8 2	-1 10 0 1	-2 -3	0.2	Pass Pass	Pass Pass
R407 North	R407 South	2102	1815	113	174	2130	1833	112	185	28	18	-1 11		0.6	Pass	Pass
R407 South	Church Avenue East	188	174	1	13	186	172	2	12	-2	-2	1 -1		0.1	Pass	Pass
R407 South	R407 North	1699	1397	108	194	1719	1412	108	199	20	15	0 5	-20	0.5	Pass	Pass
Site 10 N7 South Roundabo	ut															
Palmerstown	Greenhill Overbridge	324	302	1	21	326	305	1	20	2	3	0 -1		0.1	Pass	Pass
Palmerstown	N7 on-slip WB	1	1	0	0	1	1	0	0	0	0	0 0		0.0	Pass	Pass
Palmerstown Palmerstown	Kill West	377 0	342	14	21 0	379 0	345 0	13	21 0	0	0	-1 0 0 0	-2 0	0.1	Pass	Pass
Palmerstown Kill West	Palmerstown Greenhill Overbridge	94	-	-	11	96	83	1	12	2	1	0 0	-2	0.0	Pass Pass	Pass Pass
Kill West	N7 on-slip WB	206	190	1	15	213	197	1	15	7	7	0 0	-7	0.5	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Kill West	Palmerstown	169	147	13	9	165	144	12	9	-4	-3	-1 0	4	0.3	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0		0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	36			4	30	25	3	3	-6	-3	-1 -1		1.1	Pass	Pass
Greenhill Overbridge	Kill West	238 45	200 40		31 5	231 47	200 44	6	24	-7 2	4	-1 -7 0 -2		0.5	Pass Pass	Pass Pass
Greenhill Overbridge N7 off-slip WB	Palmerstown Greenhill Overbridge	45	27		9	47	25	7	10	0	-2	0 -2	0	0.2	Pass	Pass
N7 off-slip WB	N7 on-slip WB	33	29		4	36	31	0	6	3	2	0 2	-3	0.1	Pass	Pass
N7 off-slip WB	Kill West	42	35		7	41	33	0	8	-1	-2	0 1	1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	140	117	3	20	143	119	3	21	3	2	0 1	-3	0.2	Pass	Pass
Site 9 N7 North Roundabou												<u> </u>				
The Paddocks	N7 Access Road	2	1	0	1	1	1	0	0	-1	0	0 -1		0.8	Pass	Pass
The Paddocks	N7 on-slip EB Greenhill Overbridge	6	2	0	3	5	3	0	2	-1 0	0	0 -1	0	0.5	Pass	Pass
The Paddocks The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass Pass	Pass Pass
N7 off-slip EB	N7 Access Road	63	-	_	10	59	48	0	11	-4	-5	0 1	4	0.5	Pass	Pass
N7 off-slip EB	N7 on-slip EB	89		0	11	82	73	0	9	-7	-5	0 -2	7	0.7	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	133	114	7	12	123	106	6	11	-10	-8	-1 -1		0.9	Pass	Pass
N7 off-slip EB	The Paddocks N7 Access Road	5 112	97	0	11	116	99	0	13	-1 4	2	0 -1		0.5	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	N7 Access Road N7 on-slip EB	309	281	2	26	310	283	2	25	1	2	0 -1		0.4	Pass Pass	Pass Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0		0	0	0	0 0	0	0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	39	31	2	6	39	32	2	5	0	1	0 -1	0	0.1	Pass	Pass
N7 Access Road	N7 Access Road	1	1	0	0	0	0	0	0	-1	-1	0 0	1	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	308	290	1	17	330	320	1	9	22	30	0 -8		1.2	Pass	Pass
N7 Access Road N7 Access Road	Greenhill Overbridge The Paddocks	182	153 2	0	25 1	181	162 2	3	16	-1 0	9	-1 -9 0 0		0.1	Pass Pass	Pass Pass
Site 8 N7 Access Road / John		,		Ü				U				0 0		0.0	1 433	1 433
Church Avenue East	Church Avenue West	77	69	0	8	71	47	0	23	-6	-22	0 15	6	0.7	Pass	Pass
Church Avenue East	Church Avenue East	0	-	_	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue East	Johnstown Garden	0	0	0	0	6	2	0	0	4	0	4 0	-4	2.0	Pass	Pass
Johnstown Garden Johnstown Garden	Church Avenue West Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass Pass	Pass Pass
Johnstown Garden	Johnstown Garden	0		0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	471	432	2	37	497	466	3	28	26	34	1 -9		1.2	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 5 Church Ave Railway B Church Avenue West	Church Avenue East	424	393	3	28	463	431	3	28	39	38	0 0	-39	1.9	Pass	Pass
Church Avenue East	Church Avenue West	62		0	8		38		23	-1	-16	0 15		0.1	Pass	Pass
Site 6 Kerdiffstown Road / N																
Church Avenue west	Church Avenue East	463	432	3	28	448	416	3	28	-15	-16	0 0		0.7	Pass	Pass
Church Avenue west Golf Club	Golf Club Church Avenue East	10 44			0	11 46	11 46	0	0	2	2	0 0	-1 -2	0.3	Pass Pass	Pass Pass
Golf Club	Church Avenue west	0	0		0	0	0	0	0	0	0	0 0		0.2	Pass	Pass
Church Avenue East	Golf Club	11	11	_	0	_	7	0	0	-4	-4	0 0	4	1.4	Pass	Pass
Church Avenue East	Church Avenue west	63	55	0	8	62	39	0	23	-1	-16	0 15	1	0.1	Pass	Pass
Site 7 Kerdiffstown Road / L												0 -				
Church Avenue East Church Avenue East	Landfill Church Avenue west	74	3 66	0	<u>0</u> 8	69	1 46	0	23	-2 -5	-2 -20	0 0		1.4 0.6	Pass Pass	Pass Pass
Church Avenue East Church Avenue East	Church Avenue West	0		0	0		0		0	0	0	0 0		0.0	Pass	Pass
Church Avenue west	Landfill	0	0	0	0		0		0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	_	0	0		0		0	0	0	0 0		0.0	Pass	Pass
Church Avenue west	Church Avenue East	469		3	28	492	461	3	28	23	23	0 0		1.1	Pass	Pass
Landfill Landfill	Landfill Church Avenue west	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass Pass	Pass Pass
Landfill	Church Avenue West	6	_	0	0	-	6	0	0	0	0	0 0	0	0.0	Pass	Pass
Garden Centre			<u> </u>	J	<u> </u>	U	3	<u> </u>	U	J	-1	-, 0		0.0		
Church Avenue East	Church Avenue west	75		4	22	77	49	4	23	2	0	0 1		0.3	Pass	Pass
Church Avenue East	Garden Centre	103	103	0	0	99	99	0	0	-4	-4	0 0	4	0.4	Pass	Pass
Church Avenue west	Church Avenue East	471	432	2	37	496	465	3	28	25	33	1 -9		1.1	Pass	Pass
Church Avenue west Garden Centre	Garden Centre Church Avenue west	0		0	0	0	0		0	0	0	0 0	0	0.0	Pass Pass	Pass Pass
	Church Avenue East	25					23	-		-2	-2	0 0		0.5	Pass	Pass
Site 4 Church Ave / Sallins N	lational School															
Church Avenue East	Church Avenue West	63			8	60	38	0	23	-3	-17	0 15		0.3	Pass	Pass
Church Avenue East Church Avenue West	School Church Avenue East	0 428	-	_	28	0 463	432	3	28	0 35	35	0 0		0.0 1.6	Pass Pass	Pass Pass
Church Avenue West Church Avenue West	School	197	197	0			213	0	0	16	16	0 0		1.6	Pass	Pass
School	Church Avenue West	124	124	0	0		128	0	0	4	4	0 0		0.3	Pass	Pass
School	Church Avenue East	0	0	0	0		0	0	0	0	0	0 0		0.0	Pass	Pass
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DS 2022 PM Peak Locat	tion		Obser	ved			Model				Difference	:e			Diffe	rence	
From	То	Total	Cars	HGV	LGV T	otal Ca	ars HG	SV Ι	LGV	Total	Cars HG		/	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa	allins																
R407 North	R407 South	1927	1677	61		1925	1666	59	200	-2	-11	-2	10	2	0.0	Pass	Pass
R407 North	Church Avenue East	101	94	0 84	7	104	99 2172	94	5		5	0	-2	-3	0.3	Pass	Pass
R407 South R407 South	R407 North Church Avenue East	2480 28	2203 28	84 0	193	2471 27	21/2	0	205	-9 -1	-31 -1	0	12 0	9	0.2	Pass Pass	Pass Pass
Church Avenue East	R407 South	127	111	0	16	123	105	0	18		-6	0	2	4	0.2	Pass	Pass
Church Avenue East	R407 North	20	18	0	2	21	19	0	2		1	0	0	-1	0.2	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0		0	0	0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu	rch Ave (S), Sallins																
Church Avenue East	Church Avenue West	148	129	0	18	141	120	0	20	-7	-9	0	2	7	0.5	Pass	Pass
Church Avenue East	Church Avenue South	359	329	1	28	349	307	9	33	-10	-22	8	5	10	0.5	Pass	Pass
Church Avenue North	Church Avenue West	2	2	0	0	4	4	0	0		2	0	0	-2	1.1	Pass	Pass
Church Avenue North	Church Avenue East	26	25	0		28	26	0	2		1	0	1	-2	0.3	Pass	Pass
Church Avenue West	Church Avenue South	12	12	0	0	12	12	0	0		0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	118	111	0	7	121	116	0	5	3	5	0	-2	-3	0.3	Pass	Pass
Site 3 R407 / Church Ave (E) Church Avenue East	R407 South	124	116	0	8	109	102	0	7	-15	-14	0	-1	15	1.4	Pass	Pass
Church Avenue East	R407 North	273	243	1	29	251	216	9	27		-27	8	-2	22	1.4	Pass	Pass
R407 North	Church Avenue East	7	5	0	2	6	4	0	2		-1	0	0	1	0.4	Pass	Pass
R407 North	R407 South	2039	1782	61	197	2075	1796	60	219	36	14	-1	22	-36	0.8	Pass	Pass
R407 South	Church Avenue East	29	29	0	0	25	25	0	0	-4	-4	0	0	4	0.8	Pass	Pass
R407 South	R407 North	2229	1971	85	174	2249	1985	85	179	20	14	0	5	-20	0.4	Pass	Pass
Site 10 N7 South Roundabo	ut														T	_	
Palmerstown	Greenhill Overbridge	206	188	3	15	205	186	4	15		-2	1	0	1	0.1	Pass	Pass
Palmerstown	N7 on-slip WB	5	5	0	0	4	4	0	0	_	-1	0	0	1	0.5	Pass	Pass
Palmerstown	Kill West	275	246	8		279	251	7	21		5	-1	0	-4	0.2	Pass	Pass
Palmerstown Kill Wost	Palmerstown Grouphill Overbridge	0	0	0	0	0	207	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	236	214 90	1 4	21 11	228 110	207 93	1	20 13	-8 5	-7 3	0	-1	8 -5	0.6	Pass	Pass
Kill West Kill West	N7 on-slip WB Kill West	105	90	0	0	0	93	0	0		0	0	0	-5 0	0.5	Pass Pass	Pass Pass
Kill West	Palmerstown	424	377	13		436	389	13	34	12	12	0	0	-12	0.6	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	68	62	2	4	65	61	1	3	-3	-1	-1	-1	3	0.3	Pass	Pass
Greenhill Overbridge	Kill West	279	253	3	23	270	247	3	20		-6	0	-3	9	0.5	Pass	Pass
Greenhill Overbridge	Palmerstown	98	95	0	3	102	100	0	2	4	5	0	-1	-4	0.4	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	224	189	1	34	228	193	2	33	4	4	1	-1	-4	0.2	Pass	Pass
N7 off-slip WB	N7 on-slip WB	234	202	2	30	237	204	2	31	3	2	0	1	-3	0.2	Pass	Pass
N7 off-slip WB	Kill West	26	21	0	5	28	22	0	6	2	1	0	1	-2	0.3	Pass	Pass
N7 off-slip WB	Palmerstown	543	505	3	34	530	496	3	31	-13	-9	0	-3	13	0.5	Pass	Pass
Site 9 N7 North Roundabou		_	_						-								
The Paddocks	N7 Access Road	11	/	0	3	7	9	0	2		0	0	0	0	0.0	Pass	Pass
The Paddocks The Paddocks	N7 on-slip EB Greenhill Overbridge	11 44	8 41	0	2	11 45	43	1	2		2	0	-1 0	-1	0.0	Pass Pass	Pass Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0		0	0	0	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	76	72	1	3	72	68	1	3	-	-4	0	0	4	0.4	Pass	Pass
N7 off-slip EB	N7 on-slip EB	65	59	2	4	61	55	3	3	-4	-4	1	-1	4	0.5	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	178	157	3	18	163	141	3	18	-15	-16	0	0	15	1.1	Pass	Pass
N7 off-slip EB	The Paddocks	4	3	0	1	3	3	0	0		0	0	-1	1	0.6	Pass	Pass
Greenhill Overbridge	N7 Access Road	449	393	4	52	442	388	3	51		-5	-1	-1	7	0.3	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	N7 on-slip EB Greenhill Overbridge	213	194	0	17 0	210	191	0	17 0		-3 0	0	0	3	0.2	Pass Pass	Pass Pass
Greenhill Overbridge	The Paddocks	10	8	1	1	8	6	1	0		-2	0	-1	2	0.0	Pass	Pass
N7 Access Road	N7 Access Road	3	2	0	1	2	1	0	0		-1	0	-1	1	0.7	Pass	Pass
N7 Access Road	N7 on-slip EB	55	50	0	5	50	47	0	2	-5	-3	0	-3	5	0.6	Pass	Pass
N7 Access Road	Greenhill Overbridge	222	211	0	11	230	225	0	5	8	14	0	-6	-8	0.5	Pass	Pass
N7 Access Road	The Paddocks	1	1	0	0	1	1	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 8 N7 Access Road / Joh									1				_				
Church Avenue East Church Avenue East	Church Avenue West Church Avenue East	478	427 0	3	47 0	467 0	409	0	54	-11 0	-18	0	7	0	0.5	Pass Pass	Pass Pass
Church Avenue East	Johnstown Garden	1	1	0		1	1	0	0	-	0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	0	5	0	5	0		0	5	0	-5	3.2	Pass	Pass
Johnstown Garden	Church Avenue East	1	1	0	0	3	3	0	0	2	2	0	0	-2	1.4	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	0	0	0	0	0	0	0	-	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	169	160	0	9	172	164	0	8		4	0	-1	-3	0.2	Pass	Pass
Church Avenue West Site 5 Church Ave Railway B	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	134	126	0	8	138	131	0	8	4	5	0	0	-4	0.3	Pass	Pass
Church Avenue East	Church Avenue West	464	413	3		453	390	9	54		-23	6	7	11	0.5	Pass	Pass
Site 6 Kerdiffstown Road / N	Naas Golf Club																
Church Avenue west	Church Avenue East	152	143	0	8	128	120	0	8		-23	0	0	24	2.0	Pass	Pass
Church Avenue west	Golf Club	10	10	0	0	10	10	0	0		0	0	0	0	0.0	Pass	Pass
Golf Club Golf Club	Church Avenue East	27	27 0	0	0	29	29 0	0	0		0	0	0	-2 0	0.3	Pass	Pass
Church Avenue East	Church Avenue west Golf Club	0	8	0	0	6	6	0	0		-2	0	0	2	0.0	Pass Pass	Pass Pass
Church Avenue East	Church Avenue west	464	413	3	47	456	393	9	54		-20	6	7	8	0.8	Pass	Pass
Site 7 Kerdiffstown Road / L		0-7	713	3	-,,	.50	555		54	-0		J			Ü.,	. 300	
Church Avenue East	Landfill	6	6	0	0	4	4	0	0	-2	-2	0	0	2	0.9	Pass	Pass
Church Avenue East	Church Avenue west	472	421	3		467	404	9	54		-17	6	7	5	0.2	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0	0	0		0	0	0	0	0.0	Pass	Pass
Church Avenue west	Landfill Church Avenue west	0	0	0	0	0	0	0	0		0	0	0	0	0.0	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue west Church Avenue East	0 169	0 161	0	0	0 155	0 147	0	0	-	-14	0	0	14	0.0	Pass Pass	Pass Pass
Landfill	Landfill	169	161	0		155	0	0	0		-14	0	0	0	0.0	Pass	Pass
Landfill	Church Avenue west	0	0	0	_	0	0	0	0		0	0	0	0	0.0	Pass	Pass
Landfill	Church Avenue East	17	17	0		18	18	0	0		1	0	0	-1	0.2	Pass	Pass
Garden Centre																	
Church Avenue East	Church Avenue west	480	419	5	56	468	410	4	54		-9	-1	-2	12	0.6	Pass	Pass
Church Avenue East	Garden Centre	55	55	0	0	51	51	0	0		-4	0	0	4	0.5	Pass	Pass
Church Avenue west	Church Avenue East	170	161	0	9	175	167	0	8		6	0	-1	-5	0.4	Pass	Pass
Church Avenue west Garden Centre	Garden Centre Church Avenue west	0	0	0	0	0	0	0	0		0	0	0	0	0.0	Pass Pass	Pass Pass
	Church Avenue West Church Avenue East	110	110	0		109	109	0	0	-		0	0		0.0	Pass	Pass
Site 4 Church Ave / Sallins N		110	110	0	U	103	103	<u> </u>	0	-1		U U	U		J. 1	1 000	1 400
Church Avenue East	Church Avenue West	464	413	3	47	451	388	9	54	-13	-25	6	7	13	0.6	Pass	Pass
Church Avenue East	School	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	134	126	0		139	131	0	8		5	0	0	-5	0.4	Pass	Pass
Church Avenue West	School	10	10	0	0	10	10	0	0		0	0	0	0	0.0	Pass	Pass
School	Church Avenue West	40	40	0	0	41	41 0	0	0		1	0	0	-1	0.1	Pass	Pass
School	Church Avenue East	U	0	0	0	0	U	0	0	0	0	0	0	0	0.0	Pass	Pass

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OS 2022 AM Peak Locat	tion		Obse	rved			Mod	eled		Di	fference			Diffe	rence	
From	То	Total		HGV	LGV	Total			LGV Total	Cars	HGV	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa	allins															
R407 North	R407 South	2065	1780	113	1	2061	1769	109	183	-4 -	11	-4 11	4	0.1	Pass	Pass
R407 North	Church Avenue East	407	389	2	15	417	403	2	11		14	0 -4		0.5	Pass	Pass
R407 South	R407 North	1689	1377	112		1721	1403	108	210		26	-4 10		0.8	Pass	Pass
R407 South	Church Avenue East	95	90	0	5	96	91	0	5	1	1	0 0	-1 0	0.1	Pass	Pass
Church Avenue East Church Avenue East	R407 South R407 North	47 8	46 8	0		47	47 7	0	0	-1	1 -1	0 0	1	0.1	Pass Pass	Pass Pass
Church Avenue East	Church Avenue East	0	0	0	1	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu		, , , , , , , , , , , , , , , , , , ,	J	<u> </u>		, and the second	U	Ü	Ü		0	J J	_ ·	0.0	1 455	1 400
Church Avenue East	Church Avenue West	46	46	0	0	45	45	0	0	-1	-1	0 0	1	0.1	Pass	Pass
Church Avenue East	Church Avenue South	145	138	2	5	151	129	0	22	6	-9	-2 17	-6	0.5	Pass	Pass
Church Avenue North	Church Avenue West	8	7	0	1	10	9	0	1	2	2	0 0	-2	0.6	Pass	Pass
Church Avenue North	Church Avenue East	163	152	1	10	194	180	2	13	31	28	1 3	-31	2.3	Pass	Pass
Church Avenue West	Church Avenue South	27	26	0		27	26	0	1	0	0	0 0	0	0.1	Pass	Pass
Church Avenue West	Church Avenue East	473	453	2	18	494	477	2	15	21	24	0 -3	-21	1.0	Pass	Pass
Site 3 R407 / Church Ave (E) Church Avenue East	R407 South	85	82	1	2	84	77	0	7	-1	-5	-1 5	1	0.1	Pocc	Pass
Church Avenue East	R407 South	93	86	1	6	96	80	0	16		-6	-1 10		0.1	Pass Pass	Pass
R407 North	Church Avenue East	14	13	0		17	15	0	2	3	2	0 1	-3	0.7	Pass	Pass
R407 North	R407 South	2102	1815	113	174	2133	1835	112	185	-	20	-1 11	-31	0.7	Pass	Pass
R407 South	Church Avenue East	191	176	1	13	187	174	2	12	-4	-2	1 -1		0.3	Pass	Pass
R407 South	R407 North	1700	1398	108	194	1722	1415	108	199	22	17	0 5	-22	0.5	Pass	Pass
Site 10 N7 South Roundabo	ut															
Palmerstown	Greenhill Overbridge	329	307	1	21	333	312	1	20	4	5	0 -1	-4	0.2	Pass	Pass
Palmerstown	N7 on-slip WB	1	1	0	0	1	1	0	0	0	0	0 0	0	0.0	Pass	Pass
Palmerstown	Kill West	377	342	14	21	378	344	13	21	1	2	-1 0	-1	0.1	Pass	Pass
Palmerstown	Palmerstown	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Kill West Kill West	Greenhill Overbridge N7 on-slip WB	95 206	83 190	1	11 15	97 214	84 197	1	12 15	8	7	0 1	-2 -8	0.2	Pass	Pass Pass
Kill West	Kill West	206	190	0		214	197	0	0	0	0	0 0	-8 0	0.5	Pass Pass	Pass
Kill West	Palmerstown	169	147	13		165	144	12	9	-	-3	-1 0	4	0.0	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	37	29	4	4	30	25	3	3	-	-4	-1 -1	7	1.1	Pass	Pass
Greenhill Overbridge	Kill West	240	202	7	31	229	198	6	24	-	-4	-1 -7		0.7	Pass	Pass
Greenhill Overbridge	Palmerstown	46	41	0		48	45	0	3	2	4	0 -2		0.3	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	43	28	6	9	42	25	7	10	-1	-3	1 1	1	0.2	Pass	Pass
N7 off-slip WB	N7 on-slip WB	33	29	0		36	31	0	6	3	2	0 2	-3	0.5	Pass	Pass
N7 off-slip WB	Kill West	42	35	0		41	33	0	8		-2	0 1	1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	140	117	3	20	143	119	3	21	3	2	0 1	-3	0.2	Pass	Pass
Site 9 N7 North Roundabou The Paddocks	N7 Access Road	2	1	0	1	1	1	0	0	-1	0	0 -1	1	0.9	Pass	Pass
The Paddocks	N7 on-slip EB	6	3	0		5	3	0	2	-1	0	0 -1		0.5	Pass	Pass
The Paddocks	Greenhill Overbridge	4	2	0		4	2	0	2	0	0	0 0	0	0.0	Pass	Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	66	56	0		61	50	0	11	-5	-6	0 1	5	0.7	Pass	Pass
N7 off-slip EB	N7 on-slip EB	89	78	0		82	73	0	9		-5	0 -2		0.7	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	133	114	7	12	123	105	6	11		-9	-1 -1		0.9	Pass	Pass
N7 off-slip EB Greenhill Overbridge	The Paddocks N7 Access Road	119	104	0	11	123	106	0	13	-1 4	2	0 -1	-4	0.5 0.4	Pass Pass	Pass Pass
Greenhill Overbridge	N7 on-slip EB	309	281	2	26	311	284	2	25	2	3	0 -1		0.4	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0		0		0	0	0	0	0 0	0	0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	39	31	2	6	39	32	2	5	0	1	0 -1	0	0.1	Pass	Pass
N7 Access Road	N7 Access Road	1	1	0	ū	0	0	0	0		-1	0 0	1	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	312	293	1	17	327	316	1	10		23	0 -7		0.9	Pass	Pass
N7 Access Road	Greenhill Overbridge	184	155	4	25	180	161	3	16	-4	6	-1 -9		0.3	Pass	Pass
N7 Access Road Site 8 N7 Access Road / Joh	The Paddocks	3	2	0	1	3	2	0	1	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Church Avenue West	87	79	0	8	81	58	0	23	-6 -	21	0 15	6	0.7	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	2	2	0	0	5	1	4	0	3	-1	4 0	-3	1.6	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	ů	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue East	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0			0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue West Church Avenue East	0 476	0 437	2		0 491	0 459	3	28	15	0 22	0 0	-15	0.0	Pass Pass	Pass Pass
Church Avenue West	Johnstown Garden	0	0			0	459	0	0	0	0	0 0	0	0.7	Pass	Pass
Site 5 Church Ave Railway B		, , , , , , , , , , , , , , , , , , ,	3	0	,		, J	3		-	-	-, 0		3.0	. 400	. 300
Church Avenue West	Church Avenue East	405	397	0		460	428	3	28		31	3 20		2.6	Pass	Pass
Church Avenue East	Church Avenue West	56	55	0	1	68	46	0	23	12	-9	0 22	-12	1.6	Pass	Pass
Site 6 Kerdiffstown Road / I		400	400						20	16	16	0	40	0.7	D	Dest
Church Avenue west Church Avenue west	Church Avenue East Golf Club	463 10	432 10	3	28	447 11	416 11	3	0	-16 - 1	16	0 0	16 -1	0.7	Pass Pass	Pass Pass
Golf Club	Church Avenue East	44	44			46		0	0	2	2	0 0	-2	0.3	Pass	Pass
Golf Club	Church Avenue west	0	0	0	<u> </u>	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Golf Club	11	11	0			9	0	0		-2	0 0	2	0.7	Pass	Pass
Church Avenue East	Church Avenue west	63	55	0	8	69	46	0	23	6	-9	0 15	-6	0.8	Pass	Pass
Site 7 Kerdiffstown Road / I	1									-	-					
Church Avenue East	Church Avenue west	14	14	0		9	9	0	0		-5 17	0 0		1.4	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue west Church Avenue East	74	66 0	0		72 0	49	0	0	-2 - 0	0	0 15	0	0.2	Pass Pass	Pass Pass
Church Avenue East Church Avenue west	Landfill	11	11	0		11	11	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	0			0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	469	438	3	28	480	448	3	28	-	10	0 0	-11	0.5	Pass	Pass
Landfill	Landfill	0	0	0	ŭ	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Landfill	Church Avenue west	5	5	0	-	6	6	0	0	1	1	0 0	-1	0.2	Pass	Pass
Landfill Garden Centre	Church Avenue East	12	12	0	0	12	12	0	0	0	0	0 0	0	0.1	Pass	Pass
Garden Centre Church Avenue East	Church Avenue west	85	59	4	22	86	59	4	23	1	0	0 1	-1	0.1	Pass	Pass
Church Avenue East Church Avenue East	Garden Centre	103	103	0		98	98	0	0		-5	0 0	5	0.1	Pass	Pass
Church Avenue west	Church Avenue East	471	432	2	37	490	459	3	28		27	1 -9		0.9	Pass	Pass
Church Avenue west	Garden Centre	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Garden Centre	Church Avenue west	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Garden Centre	Church Avenue East	25	25	0	0	23	23	0	0	-2	-2	0 0	2	0.5	Pass	Pass
Site 4 Church Ave / Sallins N							10		22	0	1.4	0 1-		0.0	Desc	Dese
Church Avenue East Church Avenue East	Church Avenue West School	68	60	0	_	68	46	0	0	0 -	0	0 15		0.0	Pass Pass	Pass Pass
Church Avenue West	Church Avenue East	428	397	3	·	462	430	3	28		33	0 0		1.6	Pass	Pass
Church Avenue West	School	208	208	0		225		0	0		17	0 0		1.2	Pass	Pass
School	Church Avenue West	124	124	0	0	128	128	0	0	4	4	0 0	-4	0.3	Pass	Pass
School	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass

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DS 2022 PM Peak Locat	tion		Obse	rvod			Model				Difference	0		Diffe	erence	
From	То	Total		HGV	LGV T	otal Ca	ars HGV	1.0	GV	Total	Cars HG\		Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa		Total	Curs	1101	ILOV II	otal C	ars riov	12.	OV	Total	cars fried	LOV	Difference	OLII	11000	GLII
R407 North	R407 South	1928	1677	61	190	1925	1666	59	201	-3	-11	-2 1:	3	0.1	Pass	Pass
R407 North	Church Avenue East	108	101	0		110	104	0	5	2	3	0 -2	-2	0.2	Pass	Pass
R407 South	R407 North	2492	2215	84	193	2475	2176	94	205	-17	-39	10 12	17	0.3	Pass	Pass
R407 South	Church Avenue East	30	30	0	0	29	29	0	0	-1	-1	0 (1	0.2	Pass	Pass
Church Avenue East	R407 South	133	117	0	16	126	108	0	18	-7	-9	0 :	2 7	0.7	Pass	Pass
Church Avenue East	R407 North	21	19	0		22	19	0	2	1	0	0 (0.2	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 (0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu	rch Ave (S), Sallins															
Church Avenue East	Church Avenue West	155	136	0		145	125	0	20	-10	-11	0 :		0.8	Pass	Pass
Church Avenue East	Church Avenue South	376	347	1	28	358	316	9	33	-18	-31	8 !		0.9	Pass	Pass
Church Avenue North	Church Avenue West	2	2	0		3	3	0	0	1	1	0 (0.6	Pass	Pass
Church Avenue North	Church Avenue East	28	27	0	1	31	29	0	2	3	2	0 :		0.5	Pass	Pass
Church Avenue West	Church Avenue South	12	12	0	-	13	13	0	0	1	1	0 (0.2	Pass	Pass
Church Avenue West	Church Avenue East	127	120	0	7	130	124	0	5	3	4	0 -2	-3	0.2	Pass	Pass
Site 3 R407 / Church Ave (E)			400			440	105		_	4.0	1.0					
Church Avenue East	R407 South	130	122	0	8	112	106	0	7	-18	-16	0 -:		1.6	Pass	Pass
Church Avenue East	R407 North	285	254	1	29	257	221	9	27	-28	-33	8 -:		1.7	Pass	Pass
R407 North	Church Avenue East	7	5	0		6	4	0	2	-1	-1	0 (0.6	Pass	Pass
R407 North	R407 South	2039	1782	61		2079	1800	60	219	40	18	-1 22		0.9	Pass	Pass
R407 South	Church Avenue East	31	31	0	0	28	28	0 85	170	-3	-3	0 (0.5	Pass	Pass
R407 South	R407 North	2231	1973	85	174	2249	1985	85	178	18	12	0 4	-18	0.4	Pass	Pass
Site 10 N7 South Roundabo	Greenhill Overbridge	206	188	3	15	205	186	4	15	-1	-2	1 0	1	0.1	Pass	Pass
Palmerstown		200	100	0		4	4	0	0							
Palmerstown	N7 on-slip WB Kill West	275	246	8	0 21	279	251	7	21	-1 4	-1 5	0 0		0.5	Pass Pass	Pass Pass
Palmerstown Palmerstown	Palmerstown	0	0	8		0	0	0	0	0	0	0 0		0.2	Pass	Pass
Kill West	Greenhill Overbridge	236	214	0	21	228	207	1	20	-8	-7	0 -:		0.6	Pass	Pass
Kill West	N7 on-slip WB	105	90	4	11	110	93	4	13	-8 5	3	0 -		0.6	Pass	Pass
Kill West	Kill West	105	0	4	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Kill West	Palmerstown	424	377	13		436	389	13	34	12	12	0 0		0.6	Pass	Pass
Greenhill Overbridge		424	0	13		436	0	0	0	0	0	0 0		0.6	Pass	Pass
	Greenhill Overbridge N7 on-slip WB	71	65	2	4	68	64	1	3	-3	-1	-1 -:		0.0		
Greenhill Overbridge		291	265	3	23	279	256	3	20	-3 -12	-1 -9	0 -3		0.3	Pass Pass	Pass Pass
Greenhill Overbridge Greenhill Overbridge	Kill West Palmerstown	102	99	<u>3</u>		105	103	0	20	-12	-9	0 -:		0.7	Pass	Pass
				0		228	194	2	33	4	5					
N7 off-slip WB	Greenhill Overbridge	224	189 202	2	34	237	204	2	31	-	2			0.2	Pass	Pass
N7 off-slip WB	N7 on-slip WB	234			30					3				0.2	Pass	Pass
N7 off-slip WB	Kill West	26	21	3	5	28	22	3	6	2	1	0 :		0.3	Pass	Pass
N7 off-slip WB	Palmerstown	543	505	3	34	530	496	3	31	-13	-9	0 -3	13	0.5	Pass	Pass
Site 9 N7 North Roundabou	1	_	-			-	7	0	0	•				0.0	Dana	Dana
The Paddocks	N7 Access Road	7	/	0	0	7	/	0	0	0	0	0 (0.0	Pass	Pass
The Paddocks	N7 on-slip EB	11	8	0	3	11	9	0	2	0	1	0 -:		0.0	Pass	Pass
The Paddocks	Greenhill Overbridge	44	41	1	2	45	43	1	2	1	2	0 (0.1	Pass	Pass
The Paddocks	The Paddocks	76	72	0	3	72	68	1	0	-4	-4	0 0	0 4	0.0	Pass	Pass
N7 off-slip EB N7 off-slip EB	N7 Access Road N7 on-slip EB	65	59	2	4	61	55	3	3	-4	-4	1 -:		0.4	Pass Pass	Pass Pass
N7 off-slip EB	Greenhill Overbridge	178	157	3		163	141	3	18	-15	-16	0 0		1.1	Pass	Pass
N7 off-slip EB	The Paddocks	Δ	3	0		3	3	0	0	-13	0	0 -:		0.6	Pass	Pass
Greenhill Overbridge	N7 Access Road	449	393	4	52	442	388	3	51	-7	-5	-1 -:		0.3	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	213	194	2	17	210	191	2	17	-3	-3	0 0		0.2	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	10	8	1	1	8	6	1	0	-2	-2	0 -:	1 2	0.7	Pass	Pass
N7 Access Road	N7 Access Road	3	2	0	1	2	2	0	0	-1	0	0 -:	1 1	0.7	Pass	Pass
N7 Access Road	N7 on-slip EB	59	54	0	5	52	50	0	2	-7	-4	0 -3	7	1.0	Pass	Pass
N7 Access Road	Greenhill Overbridge	242	231	0	11	245	240	0	5	3	9	0 -0	-3	0.2	Pass	Pass
N7 Access Road	The Paddocks	1	1	0	0	1	1	0	0	0	0	0 (0	0.1	Pass	Pass
Site 8 N7 Access Road / Joh	nstown Garden Centre															
Church Avenue East	Church Avenue West	478	427	3		468	409	4	54	-10	-18	1		0.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	ū	0	0	0	0	0	-	0 (0.0	Pass	Pass
Church Avenue East	Johnstown Garden	1	1	0		1	1	0	0	0	0	0 (0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0		5	0	5	0	5	0	5 (3.2	Pass	Pass
Johnstown Garden	Church Avenue East	1	1	0	0	3	3	0	0	2	2	0 (1.4	Pass	Pass
Johnstown Garden	Johnstown Garden	0		0		0	0	0	0	0	0	0 (0.0	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue West Church Avenue East	0 193	0 184	0		0 191	183	0	0	-2	-1	0 0		0.0	Pass Pass	Pass Pass
Church Avenue West Church Avenue West	Johnstown Garden	193	184	0	0	0	0	0	0	-2	0	0 -:		0.2	Pass	Pass
Site 5 Church Ave Railway B		0	U		U	U	U	U	U	U	U	U _I (0	0.0	Fass	FdSS
Church Avenue West	Church Avenue East	134	126	0	8	140	133	0	8	6	7	0	-6	0.5	Pass	Pass
Church Avenue East	Church Avenue West	464	413	3		466	403	9	54	2		6		0.1	Pass	Pass
Site 6 Kerdiffstown Road / I										-1						
Church Avenue west	Church Avenue East	152	143	0	8	130	122	0	8	-22	-21	0 (22	1.8	Pass	Pass
Church Avenue west	Golf Club	10	10	0	0	10	10	0	0	0	0	0 (0	0.0	Pass	Pass
Golf Club	Church Avenue East	27	27	0	0	29	29	0	0	2	2	0 (-2	0.3	Pass	Pass
Golf Club	Church Avenue west	0	0	0	-	0	0	0	0	0	0	0 (0.0	Pass	Pass
Church Avenue East	Golf Club	8	8	0		6	6	0	0	-2	-2	0 (0.8	Pass	Pass
Church Avenue East	Church Avenue west	464	413	3	47	469	407	9	54	5	-6	6	-5	0.2	Pass	Pass
Site 7 Kerdiffstown Road / I																
Church Avenue East	Landfill	17	17	0	0	16	16	0	0	-1		0 (0.3	Pass	Pass
Church Avenue East	Church Avenue west	472	421	3	47	455	393	9	54	-17	-28	6		0.8	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	-	0	0	0	0	0	0	0 (0.0	Pass	Pass
Church Avenue west	Landfill	11	11	0		9	9	0	0	-2	-2	0 (0.6	Pass	Pass
Church Avenue west	Church Avenue West	0	-	0		0	0	0	0	0	0	0 (0.0	Pass	Pass
Church Avenue west	Church Avenue East	169	161	0		149	141	0	8	-20	-20	0 (1.6	Pass	Pass
Landfill	Landfill Church Avenue west	0	0	0	Ü	0	0	0	0	0	0	0 (0.0	Pass	Pass
Landfill	Church Avenue Fast	24 42	24 42	0		26 43	26 43	0	0	2	1	0 0		0.3	Pass	Pass
Landfill Garden Centre	Church Avenue East	42	42	0	U	43	43	U	U	1	1	U ₁ (-1	0.2	Pass	Pass
Church Avenue East	Church Avenue west	480	419	.5	56	469	410	4	54	-11	-9	-1 -2	2 11	0.5	Pass	Pass
Church Avenue East Church Avenue East	Garden Centre	480 55	55	0		51	51	0	0	-11	-4	0 0		0.5	Pass	Pass
Church Avenue East Church Avenue west	Church Avenue East	170	161	0	9	193	186	0	8	23	25	0 -:		1.7	Pass	Pass
Church Avenue west	Garden Centre	170	0	0	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre	Church Avenue west	0		0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre	Church Avenue East	110				109	109	0	0	-1			1	0.0	Pass	Pass
Site 4 Church Ave / Sallins N		110	110			100	200	3	- U			~ · · · · · · · · · · · · · · · · · · ·		3.1	. 403	. 300
Church Avenue East	Church Avenue West	488	438	3	47	464	401	9	54	-24	-37	6	7 24	1.1	Pass	Pass
Church Avenue East	School	0		0		0	0	0	0	0		0 (0.0	Pass	Pass
Church Avenue West	Church Avenue East	134	126	0		141	133	0	8	7	7	0 (0.6	Pass	Pass
Church Avenue West	School	21	21	0	0	19	19	0	0	-2	-2	0 (2	0.5	Pass	Pass
School	Church Avenue West	40	40	0	-	41	41	0	0	1	1	0 (0.1	Pass	Pass
School	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 (0	0.0	Pass	Pass

		2027 Do M	inimum	2027 Operation	nal Scenario	Diffe	rence
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	10.8	1.2	13.1	1.3	2.3	0.
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	7.9	3.3	13.0	3.3	5.1	-0.
	Landfill	0.0	0.0	2.4	0.8	2.4	0.
	Church Avenue East	3.16	1.08	1.39	0.96	-1.8	-0.
ite 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	0.0	0.0	0.0	0.0	0.0	0.
	Church Avenue West	13.9	3.8	0.0	3.2	-13.9	-0.
	The Paddocks	5.7	5.4	7.2	5.5	1.5	0.
STA CALTANA II BARALLA I	N7 off-slip EB	14.4	5.8	13.7	6.0	-0.7	0.
Site 9 N7 North Roundabout	Greenhill Overbridge	4.0	1.4	1.0	1.5	-3.0	0.
	Church Avenue	19.3	5.7	28.1	5.6	8.7	-0.
	Palmerstown	14.4	2.1	15.3	2.2	0.9	0.
City 40 NT Co. H. Donald L. I.	Kill West	8.4	1.1	7.9	1.4	-0.5	0.
Site 10 N7 South Roundabout	Greenhill Overbridge	12.1	1.8	12.8	1.8	0.7	0.
	N7 off-slip WB	18.1	3.2	16.2	3.0	-2.0	-0.
	Church Avenue East	0.0	3.0	1.2	3.1	1.2	0.
Site 4 Church Ave / Sallins National School	Church Avenue West	0.0	2.0	0.0	2.0	0.0	0.
	School	24.7	0.7	24.7	0.8	0.0	0.
	R407 North	62.0	2.1	37.0	2.0	-24.9	-0.
Site 1 R407 / Church Ave, Sallins	R407 South	60.1	5.8	66.1	6.0	5.9	0.
	Church Avenue East	14.6	9.6	42.7	15.2	28.1	5
	Church Avenue East	0.0	0.5	0.0	0.5	0.0	0.
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	9.8	1.4	13.3	1.7	3.5	0.
, ,,	Church Avenue West	2.5	0.6	14.1	0.8	11.6	0.
	Church Avenue East	38.5	17.1	32.5	18.8	-6.0	1.
Site 3 R407 / Church Ave (E)	R407 North	72.6	2.0	69.4	2.0	-3.2	0.
•	R407 South	167.3	10.4	166.9	11.1	-0.4	0.
	Church Avenue East	0.00	1.09	0.00	1.11	0.0	0.
Site 5 Church Ave Railway Bridge	Church Avenue West	0.00	1.07	0.00	1.07	0.0	0.
	Church Avenue East	0.00	2.19	0.00	2.12	0.0	-0.
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	6.2	0.9	6.2	0.8	0.0	0.
· · · · · · · · · · · · · · · · · · ·	Golf Club	2.6	1.6	1.1	1.6		0.
	Church Avenue East	16.6	1.5	18.6	1.5	2.0	0
Garden Centre	Church Avenue west	0.0	2.3	0.0	2.3	0.0	0.
	Garden Centre	5.1	1.0	6.3	0.9	1.3	-0.

		2037 Do M	inimum	2037 Operation	onal Scenario	Diffe	rence
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)
	Church Avenue East	12.15	1.48	11.10	2.03	-1.0	0.
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	10.0	3.6	8.3	3.6	-1.7	0.
	Landfill	0.0	0.0	5.0	0.9	5.0	0.
	Church Avenue East	8.47	1.47	4.28	1.00	-4.2	-0.
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	0.0	0.0	0.0	0.0	0.0	0.
	Church Avenue West	19.3	4.4	4.7	3.6	-14.7	-0.
	The Paddocks	6.8	5.0	3.3	5.0	-3.5	-0.
Site 9 N7 North Roundabout	N7 off-slip EB	17.5	6.3	20.2	6.3	2.7	0.
Site 9 N7 North Roundabout	Greenhill Overbridge	1.3	1.5	0.9	1.5	-0.4	0.
	Church Avenue	28.1	6.3	22.2	7.6	-5.9	1.
	Palmerstown	17.6	4.1	18.1	2.2	0.6	-1.
Cita 10 NZ Cauth Barradahart	Kill West	9.6	1.3	10.4	1.2	0.8	0.
Site 10 N7 South Roundabout	Greenhill Overbridge	20.3	2.0	11.9	1.9	-8.4	-0
	N7 off-slip WB	17.1	2.7	16.3	2.7	-0.8	0
	Church Avenue East	0.0	3.7	0.0	3.4	0.0	-0.
Site 4 Church Ave / Sallins National School	Church Avenue West	6.5	2.1	5.2	2.1	-1.3	0.
	School	24.7	1.0	24.7	0.9	0.0	-0
	R407 North	67.8	2.4	78.0	2.4	10.2	0
Site 1 R407 / Church Ave, Sallins	R407 South	64.5	7.1	67.8	7.0	3.3	-0
	Church Avenue East	13.1	16.2	9.5	18.2	-3.6	2
	Church Avenue East	0.0	0.6	0.0	0.5	0.0	-0.
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	8.2	1.6	11.6	1.5	3.4	0
	Church Avenue West	5.0	0.6	3.8	0.6	-1.3	0
	Church Avenue East	56.1	26.0	52.2	25.0	-3.9	-0
Site 3 R407 / Church Ave (E)	R407 North	74.4	1.9	71.8	1.9	-2.6	0
	R407 South	195.0	13.8	194.6	12.9	-0.4	-0
	Church Avenue East	0.00	1.84	0.00	1.39	0.0	-0
Site 5 Church Ave Railway Bridge	Church Avenue West	0.00	1.17	0.00	1.20	0.0	0
	Church Avenue East	0.0	2.3	0.0	2.4	0.0	0
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	5.7	0.8	5.2	0.9		0
,	Golf Club	0.0	2.0	0.0	1.5		-0
	Church Avenue East	11.2	1.8	14.8	1.6	·.	-0
Garden Centre	Church Avenue west	0.0	2.4	0.0	2.5		0
	Garden Centre	6.4	1.3	4.0	0.9		-0

		2027 Do M	inimum	2027 Operation	onal Scenario	Difference		
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	
	Church Avenue East	15.9	4.2	17.2	4.4	1.3	0.	
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	9.1	1.8	13.9	1.7	4.8	0.	
	Landfill	2.3	0.5	1.3	0.4	-1.0	-0.	
	Church Avenue East	9.06	3.91	8.24	6.34	-0.8	2.	
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	7.5	1.4	0.0	0.6	-7.5	-0.	
	Church Avenue West	0.0	1.4	3.3	1.3	3.3	-0.	
	The Paddocks	6.7	3.8	6.5	4.0	-0.2	0.	
Site 9 N7 North Roundabout	N7 off-slip EB	23.3	6.3	21.7	6.1	-1.6	-0.	
Site 9 N7 North Roundabout	Greenhill Overbridge	7.7	1.1	6.2	1.0	-1.5	-0.	
	Church Avenue	9.7	2.6	12.3	3.2	2.7	0.	
	Palmerstown	18.6	3.0	20.7	2.9	2.1	-0.	
Cita 10 NZ Couth Douglahout	Kill West	23.9	2.8	30.8	2.9	6.9	0.	
Site 10 N7 South Roundabout	Greenhill Overbridge	10.6	1.7	9.0	1.8	-1.6	0.	
	N7 off-slip WB	42.3	4.7	35.8	4.5	-6.5	-0	
	Church Avenue East	10.2	6.9	7.7	7.0	-2.4	0.	
Site 4 Church Ave / Sallins National School	Church Avenue West	2.2	1.5	3.5	2.0	1.3	0.	
	School	24.4	1.6	24.5	1.9	0.0	0.	
	R407 North	23.4	1.7	23.2	1.7	-0.2	0.	
Site 1 R407 / Church Ave, Sallins	R407 South	30.4	2.7	43.0	2.9	12.6	0.	
	Church Avenue East	31.6	15.9	32.0	14.4	0.4	-1.	
	Church Avenue East	0.0	1.4	0.0	1.5	0.0	0.	
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	4.6	1.0	5.2	1.3	0.6	0.	
	Church Avenue West	4.9	1.2	4.0	0.9	-0.9	-0.	
	Church Avenue East	89.4	38.6	97.2	38.8	7.8	0.	
Site 3 R407 / Church Ave (E)	R407 North	69.5	1.9	69.0	2.1	-0.5	0.	
	R407 South	144.1	6.8	139.6	6.9	-4.5	0	
01. 5 0L LA D.H. D.H.	Church Avenue East	0.00	5.16	0.00	5.19	0.0	0.	
Site 5 Church Ave Railway Bridge	Church Avenue West	0.00	0.51	0.00	0.53	0.0	0.	
	Church Avenue East	0.00	1.05	0.00	1.05	0.0	0.	
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	1.2	0.5	0.0	0.4	-1.2	-0.	
•	Golf Club	0.0	6.8	2.8	6.9			
	Church Avenue East	4.0	3.7	8.0	3.6			
Garden Centre	Church Avenue west	0.0	1.3	0.0	1.2		-0.	
	Garden Centre	4.9	0.5	6.1	0.6			

City / Investiga Name		2037 Do M	linimum	2037 Operation	onal Scenario	Difference		
Site/ Junction Name	Link	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	Queue Length (m)	Delay (s)	
	Church Avenue East	17.38	4.33	20.63	4.66	3.3	0.3	
Site 7 Kerdiffstown Road / Landfill Site	Church Avenue west	11.5	1.8	18.1	2.0	6.6	0.2	
	Landfill	0.0	0.3	5.0	0.5	5.0	0.2	
	Church Avenue East	14.79	9.42	7.82	4.16	-7.0	-5.3	
Site 8 N7 Access Road / Johnstown Garden Centre	Johnstown Garden	6.1	1.2	4.9	1.8	-1.2	0.6	
	Church Avenue West	2.3	1.4	2.3	1.5	0.0	0.0	
	The Paddocks	8.9	4.4	6.8	4.1	-2.1	-0.3	
Site 9 N7 North Roundabout	N7 off-slip EB	24.2	6.9	22.5	6.7	-1.7	-0.2	
Site 9 N7 North Roundabout	Greenhill Overbridge	2.8	1.2	9.2	1.1	6.4	0.0	
	Church Avenue	17.0	3.2	11.3	6.1	-5.7	2.9	
	Palmerstown	19.7	3.0	27.9	3.2	8.1	0.2	
Site 10 N7 South Roundabout	Kill West	32.2	3.4	29.7	3.3	-2.5	-0.1	
Site 10 N7 South Roundabout	Greenhill Overbridge	9.4	1.9	10.8	1.9	1.4	0.0	
	N7 off-slip WB	54.7	5.3	44.0	4.9	-10.7	-0.3	
	Church Avenue East	8.9	7.4	8.4	7.3	-0.5	-0.1	
Site 4 Church Ave / Sallins National School	Church Avenue West	0.0	1.1	4.3	3.1	4.3	2.0	
	School	24.7	2.7	24.7	2.7	0.0	0.0	
	R407 North	58.9	2.1	45.0	2.0	-13.9	-0.1	
Site 1 R407 / Church Ave, Sallins	R407 South	58.4	5.5	64.7	3.7	6.3	-1.8	
	Church Avenue East	42.2	20.5	37.9	25.3	-4.3	4.8	
	Church Avenue East	31.8	3.0	20.3	1.9	-11.4	-1.0	
Site 2 Church Ave (W) / Church Ave (S), Sallins	Church Avenue North	6.3	1.3	6.5	1.4	0.2	0.1	
	Church Avenue West	9.5	1.2	6.2	1.5	-3.4	0.3	
	Church Avenue East	121.3	68.8	125.0	64.3	3.6	-4.4	
Site 3 R407 / Church Ave (E)	R407 North	72.1	2.0	70.2	1.9	-1.9	0.0	
	R407 South	171.0	7.6	159.7	8.0	-11.3	0.5	
Cita F Church Ava Bailway Bridge	Church Avenue East	0.00	5.42	0.00	5.51	0.0	0.1	
Site 5 Church Ave Railway Bridge	Church Avenue West	0.00	0.49	0.00	0.56	0.0	0.1	
	Church Avenue East	0.00	1.09	0.00	1.20	0.0	0.1	
Site 6 Kerdiffstown Road / Naas Golf Club	Church Avenue west	2.4	0.5	1.3	0.5	-1.1	0.0	
	Golf Club	6.5	6.9	1.2	7.2	-5.3	0.2	
	Church Avenue East	3.8	3.5	3.6	3.8	-0.2	0.3	
Garden Centre	Church Avenue west	0.0	1.3	0.0	1.3	0.0	0.0	
	Garden Centre	5.1	0.5	6.4	0.6	1.3	0.0	

DM 2027 AM Peak

DM 2027 AM Peak	e		01				No. Int. d				5:11			D:(()		
From	To	Total	Obse Cars	rved HGV	LGV T	otal Cars	Modeled HGV		LGV To	otal Ca	Difference ers HGV	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa		Total	Cars	1101	LOV	otal car.	,		-00 10	otal Co	ars mov	LOV	Difference	GEIT	TIOW	OLIT
R407 North	R407 South	2305	1987	126	192	2116	1825	114	177	-189	-162	-12 -15	189	4.0	Fail	Pass
R407 North	Church Avenue East	425	407	2		422	408	2	11	-3	1	0 -5		0.2	Pass	Pass
R407 South	R407 North	1905	1552	127		1775	1453	107	215	-130	-99	-20 -11		3.0	Fail	Pass
R407 South Church Avenue East	Church Avenue East R407 South	99 48	94 47	0	5	97 46	93 46	0	5 1	-2 -2	-1 -1	0 0	2	0.2	Pass Pass	Pass Pass
Church Avenue East	R407 North	9	9	0		7	7	0	0	-2	-2	0 0	2	0.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu															T	T
Church Avenue East	Church Avenue West	47	47	0	0	44	44	0	0	-3	-3	0 0		0.4	Pass	Pass
Church Avenue East Church Avenue North	Church Avenue South	150 9	143 7	2	5	145 10	122 9	0	23	-5 1	-21 2	-2 18 0 0	-1	0.4	Pass	Pass
Church Avenue North	Church Avenue West Church Avenue East	171	159	0	11	200	185	2	13	29	26	1 2		2.2	Pass Pass	Pass Pass
Church Avenue West	Church Avenue South	29	28	0		29	27	0	1	0	-1	0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue East	495	473	2	19	500	482	2	15	5	9	0 -4	-5	0.2	Pass	Pass
Site 3 R407 / Church Ave (E)														I		
Church Avenue East	R407 South	88 97	85 89	1	6	82 92	74 75	0	16	-6	-11	-1 6		0.7	Pass	Pass
Church Avenue East R407 North	R407 North Church Avenue East	15	14	0	1	17	15	0	2	-5 2	1	-1 10 0 1		0.5 0.5	Pass Pass	Pass Pass
R407 North	R407 South	2349	2029	127	194	2183	1889	116	179	-166	-140	-11 -15		3.5	Fail	Pass
R407 South	Church Avenue East	199	184	1	14	193	179	2	12	-6	-5	1 -2	6	0.5	Pass	Pass
R407 South	R407 North	1912	1572	122	218	1782	1471	107	203	-130	-101	-15 -15	130	3.0	Fail	Pass
Site 10 N7 South Roundabo								-		_				1	T -	T -
Palmerstown	Greenhill Overbridge	343	320	1	22	337	315	2	21	-6	-5	1 -1		0.3	Pass	Pass
Palmerstown Palmerstown	N7 on-slip WB Kill West	413	374	0 15		390	356	13	21	-23	-18	0 0		0.1 1.1	Pass Pass	Pass Pass
Palmerstown	Palmerstown	0	0	0	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Kill West	Greenhill Overbridge	100	87	1	12	98	86	0	11	-2	-1	-1 -1		0.2	Pass	Pass
Kill West	N7 on-slip WB	219	201	1	16	218	202	1	14	-1	1	0 -2		0.0	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Kill West	Palmerstown Grouphill Overbridge	192	167	15		171	149	14	9	-21	-18	-1 -1		1.6	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge N7 on-slip WB	43	33	0	5	32	0 26	3	3	-11	-7	0 0		0.0 1.7	Pass Pass	Pass Pass
Greenhill Overbridge	Kill West	259	217	<u>5</u> 8		239	207	7	25	-20	-10	-1 -9		1.7	Pass	Pass
Greenhill Overbridge	Palmerstown	48	43	0	5	48	45	0	3	0	2	0 -2		0.0	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	52	34	7	11	43	27	6	10	-9	-7	-1 -1		1.3	Pass	Pass
N7 off-slip WB	N7 on-slip WB	35	31	0	<u> </u>	37	33	0	4	2	2	0 0		0.3	Pass	Pass
N7 off-slip WB	Kill West	45	37	0	7	41	35	0	6	-4	-2	0 -1		0.6	Pass	Pass
N7 off-slip WB	Palmerstown	151	126	3	22	146	123	3	20	-5	-3	0 -2	5	0.4	Pass	Pass
Site 9 N7 North Roundabou The Paddocks	N7 Access Road	2	1	0	1	2	1	0	1	0	0	0 0	0	0.1	Pass	Pass
The Paddocks	N7 on-slip EB	6	3	0	3	6	3	0	3	0	0	0 0	0	0.1	Pass	Pass
The Paddocks	Greenhill Overbridge	4	2	0	2	5	2	0	2	1	0	0 0	-1	0.3	Pass	Pass
The Paddocks	The Paddocks	0	0	0	_	0	0	0	0	0	0	0 0		0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	66	55	0	11	61	50	0	11	-5	-5	0 0	5	0.6	Pass	Pass
N7 off-slip EB N7 off-slip EB	N7 on-slip EB Greenhill Overbridge	94 148	82 127	0 8		86 131	76 111	7	10 12	-8 -17	-6 -16	0 -2		0.8 1.5	Pass Pass	Pass Pass
N7 off-slip EB	The Paddocks	5	4	0		4	4	0	0	-17	0	0 -1		0.6	Pass	Pass
Greenhill Overbridge	N7 Access Road	124	107	4	12	118	102	4	13	-6	-5	0 1	6	0.5	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	328	298	2		320	293	2	25	-8	-5	0 -3		0.5	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge	0 44	35	2		0 40	33	2	4	-4	0	0 0		0.0	Pass	Pass
N7 Access Road	The Paddocks N7 Access Road	0	0	0		0	0	0	0	0	-2	0 -3		0.0	Pass Pass	Pass Pass
N7 Access Road	N7 on-slip EB	327	308	1	, ,	335	325	1	10	8	17	0 -8		0.4	Pass	Pass
N7 Access Road	Greenhill Overbridge	196	165	4	27	183	164	3	16	-13	-1	-1 -11	13	1.0	Pass	Pass
N7 Access Road	The Paddocks	3	2	0	1	3	2	0	1	0	0	0 0	0	0.1	Pass	Pass
Site 8 N7 Access Road / Joh Church Avenue East	Church Avenue West	81	72	0	9	73	49	0	24	-8	-23	0 15	8	0.9	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue East	Johnstown Garden	2	2	0		5	1	4	0	3	-1	4 0		1.5	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	-	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Johnstown Garden	Church Avenue East	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Johnstown Garden Church Avenue West	Johnstown Garden Church Avenue West	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass Pass	Pass Pass
Church Avenue West	Church Avenue East	500	458	2		504	472	4	27	4	14	2 -13		0.0	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Site 5 Church Ave Railway B						4==	444		2.0		20	4				
Church Avenue West Church Avenue East	Church Avenue East Church Avenue West	432 59	424 58	0	9	477 63	444	0	28	45	-18	4 19 0 22		2.1 0.6	Pass Pass	Pass Pass
Site 6 Kerdiffstown Road / I		33	58	U		0.5		<u> </u>	2.3	7	20	22		3.0	, 400	, 200
Church Avenue west	Church Avenue East	447	416	3	27	460	428	4	28	13	12	1 1		0.6	Pass	Pass
Church Avenue west	Golf Club	11	11	0	-	12	12	0	0	1	1	0 0		0.4	Pass	Pass
Golf Club Golf Club	Church Avenue East Church Avenue west	47 0	47 0	0		48	48 0	0	0	0	0	0 0		0.2	Pass Pass	Pass Pass
Church Avenue East	Golf Club	12	12	0		7	7	0	0	-5	-5	0 0		1.5	Pass	Pass
Church Avenue East	Church Avenue west	66	58	0	-	64	40	0	24	-2	-18	0 15		0.3	Pass	Pass
Site 7 Kerdiffstown Road / I																
Church Avenue East	Landfill Church Avenue west	3	3	0	-	72	1	0	0	-2	-2	0 0		1.5	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue west Church Avenue East	78 0	69 0	0		72	48 0	0	0	-6 0	-21	0 15	6	0.7	Pass Pass	Pass Pass
Church Avenue west	Landfill	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	494	461	3		505	474	4	28	11	13	1 -2		0.5	Pass	Pass
Landfill Landfill	Landfill Church Avenue west	0	0	0	-	0	0	0	0	0	0	0 0		0.0	Pass Pass	Pass Pass
Landfill	Church Avenue West Church Avenue East	6	6	0		0	0	0	0	-6	-6	0 0		3.6	Pass	Pass
Garden Centre			J					J			-					
Church Avenue East	Church Avenue west	83	54	4	25	79	51	4	24	-4	-3	0 -1		0.5	Pass	Pass
Church Avenue East	Garden Centre	109	109	0	_	102	102	0	0	-7	-7	0 0		0.7	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue East Garden Centre	500	458 0	0		503 0	472 0	0	27 0	0	0	0 0	-3 0	0.1	Pass Pass	Pass Pass
Garden Centre	Church Avenue west	0		0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre	Church Avenue East	27	27	0		24	24	0	0	-3	-3	0 0		0.5	Pass	Pass
Site 4 Church Ave / Sallins N																
Church Avenue East	Church Avenue West	66	58	0		63	40	0	23	-3	-18	0 14		0.4	Pass	Pass
Church Avenue East Church Avenue West	School Church Avenue East	0 457	0 424	3		0 479	0 446	0	0 28	22	22	0 0		0.0 1.0	Pass Pass	Pass Pass
Church Avenue West	School	208	208	0		221	221	0	0	13	13	0 0		0.9	Pass	Pass
School	Church Avenue West	131	131	0		127	127	0	0	-4	-4	0 0	4	0.4	Pass	Pass
School	Church Avenue East	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass

DAA	2027	DIVI	Dook	

DM 2027 PM Peak Locat	tion		Obse	rved			Model				Difference			Diffe	erence	
From	То	Total		HGV	LGV T	otal Ca	ars HGV	L	GV	Total	Cars HGV	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa																
R407 North	R407 South	1928	1677	61	190	1974	1721	59	194	46	44	-2 4	-46	1.1	Pass	Pass
R407 North	Church Avenue East	108	101	0	7	107	102	0	5	-1	1	0 -2	1	0.1	Pass	Pass
R407 South	R407 North	2492	2215	84	193	2561	2264	92	204	69	49	8 11		1.4	Pass	Pass
R407 South	Church Avenue East	30	30	0	0	29	29	0	0	-1	-1	0 0		0.2	Pass	Pass
Church Avenue East	R407 South	133	117	0		128	108	0	19	-5	-9	0 3		0.5	Pass	Pass
Church Avenue East	R407 North	21	19	0		21	19 0	0	2	0	0	0 0		0.0	Pass	Pass
Church Avenue East Site 2 Church Ave (W) / Chu	Church Avenue East	0	0	0	0	0	U	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Church Avenue West	155	136	0	18	145	124	0	21	-10	-12	0 3	10	0.8	Pass	Pass
Church Avenue East	Church Avenue South	376	347	1	28	359	318	7	34	-17	-29	6 6		0.9	Pass	Pass
Church Avenue North	Church Avenue West	2	2	0		3	3	0	0	1	1	0 0		0.6	Pass	Pass
Church Avenue North	Church Avenue East	28	27	0	1	30	28	0	2	2	1	0 1	-2	0.3	Pass	Pass
Church Avenue West	Church Avenue South	12	12	0	0	14	14	0	0	2	2	0 0		0.5	Pass	Pass
Church Avenue West	Church Avenue East	127	120	0		124	119	0	5	-3	-1	0 -2		0.3	Pass	Pass
Site 3 R407 / Church Ave (E)																
Church Avenue East	R407 South	130	122	0	8	113	106	0	7	-17	-16	0 -1	17	1.5	Pass	Pass
Church Avenue East	R407 North	285	254	1	29	255	222	7	26	-30	-32	6 -3	30	1.8	Pass	Pass
R407 North	Church Avenue East	7	5	0		6	4	0	2	-1	-1	0 0	1	0.6	Pass	Pass
R407 North	R407 South	2039	1782	61	197	2135	1861	60	214	96	79	-1 17		2.1	Pass	Pass
R407 South	Church Avenue East	31	31	0	0	28	28	0	0	-3	-3	0 0		0.5	Pass	Pass
R407 South	R407 North	2231	1973	85	174	2335	2072	85	178	104	99	0 4	-104	2.2	Fail	Pass
Site 10 N7 South Roundabo								-1		-	_				T _	_
Palmerstown	Greenhill Overbridge	206	188	3	15	212	193	3	16	6	5	0 1		0.4	Pass	Pass
Palmerstown	N7 on-slip WB	5	5	0	0	396	5	0	0	0	0	0 0		0.0	Pass	Pass
Palmerstown	Kill West	275	246	8	21	286	258	8	20	11	12	0 -1		0.7	Pass	Pass
Palmerstown Kill West	Palmerstown Greenhill Overbridge	226	0 214	0		235	0 215	0	20	0	0	0 0		0.0	Pass	Pass
Kill West Kill West	Greenhill Overbridge N7 on-slip WB	236 105	90	1	21	112	96	3	13	-1 7	6	-1 -1 -1 2	-7	0.1	Pass Pass	Pass Pass
Kill West	Kill West	105	90	0	0	0	96	0	0	0	0	0 0		0.7	Pass	Pass
Kill West		424	377	13		449	402	14	32	25	25	1 -2		1.2	Pass	Pass
Greenhill Overbridge	Palmerstown Greenhill Overbridge	424	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	71	65	2	4	64	60	1	3	-7	-5	-1 -1		0.0	Pass	Pass
Greenhill Overbridge	Kill West	291	265	3	23	271	247	3	21	-20	-18	0 -2		1.2	Pass	Pass
Greenhill Overbridge	Palmerstown	102	99	0		102	100	0	21	-20	1	0 -2		0.0	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	224	189	1	34	241	206	1	34	17	17	0 0		1.1	Pass	Pass
N7 off-slip WB	N7 on-slip WB	234	202	2	30	249	215	2	33	15	13	0 3	-15	0.9	Pass	Pass
N7 off-slip WB	Kill West	26	21	0	5	29	24	0	6	3	3	0 1	-3	0.5	Pass	Pass
N7 off-slip WB	Palmerstown	543	505	3		562	527	3	32	19	22	0 -2		0.8	Pass	Pass
Site 9 N7 North Roundabou					<u> </u>		92.							0.0		. 335
The Paddocks	N7 Access Road	7	7	0	0	6	6	0	0	-1	-1	0 0	1	0.4	Pass	Pass
The Paddocks	N7 on-slip EB	11	8	0	3	12	9	0	3	1	1	0 0	-1	0.3	Pass	Pass
The Paddocks	Greenhill Overbridge	44	41	1	2	44	41	1	2	0	0	0 0	0	0.1	Pass	Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	76	72	1	3	77	73	1	3	1	1	0 0	-1	0.1	Pass	Pass
N7 off-slip EB	N7 on-slip EB	65	59	2	4	64	58	2	4	-1	-1	0 0		0.1	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	178	157	3		171	150	3	19	-7	-7	0 1	7	0.5	Pass	Pass
N7 off-slip EB	The Paddocks	4	3	0	_	3	3	0	0	-1	0	0 -1		0.6	Pass	Pass
Greenhill Overbridge	N7 Access Road	449	393	4	52	461	407	2	52	12	14	-2 0		0.6	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	N7 on-slip EB Greenhill Overbridge	213	194 0	2	17	218 0	198	0	18	5	0	0 1	-5 0	0.3	Pass Pass	Pass Pass
Greenhill Overbridge	The Paddocks	10	8	1	1	9	7	1	0	-1	-1	0 -1		0.0	Pass	Pass
N7 Access Road	N7 Access Road	3	2	0	1	1	1	0	0	-2	-1	0 -1		1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	59	54	0	5	48	46	0	2	-11	-8	0 -3		1.6	Pass	Pass
N7 Access Road	Greenhill Overbridge	242	231	0		223	218	0	5	-19	-13	0 -6		1.2	Pass	Pass
N7 Access Road	The Paddocks	1	1	0		1	1	0	0	0	0	0 0	0	0.1	Pass	Pass
Site 8 N7 Access Road / Joh	nstown Garden Centre															
Church Avenue East	Church Avenue West	478	427	3		488	430	3	55	10	3	0 8		0.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	-		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue East	Johnstown Garden	1	1	0		1	1	0	0	0	0	0 0		0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0		2	2	0	0	4	0	4 0		2.8	Pass	Pass
Johnstown Garden	Church Avenue East	1	0		0		0	0	0	1	1	0 0	-1	0.8	Pass	Pass
Johnstown Garden Church Avenue West	Johnstown Garden Church Avenue West	0	0	0		0	0	0	0	0	0	0 0	0	0.0	Pass Pass	Pass Pass
Church Avenue West	Church Avenue East	193	184	0		164	157	0	7	-29	-27	0 -2		2.2	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 5 Church Ave Railway B																
Church Avenue West	Church Avenue East	464	413	3		142	135	0	7	-322	-278	-3 -40		18.5	Fail	Fail
Church Avenue East	Church Avenue West	134	126	0	8	467	405	7	54	333	279	7 46	-333	19.2	Fail	Fail
Site 6 Kerdiffstown Road / I																
Church Avenue west	Church Avenue East	152	143	0		130	122	0	7	-22	-21	0 -1		1.8	Pass	Pass
Church Avenue west	Golf Club	10	10		Ü	11	11	0	0	1	1	0 0		0.3	Pass	Pass
Golf Club Golf Club	Church Avenue East Church Avenue west	27	27 0	0		24	0	0	0	-3 0	-3	0 0		0.6	Pass Pass	Pass Pass
Church Avenue East	Golf Club	Q Q	8	0	-	7	7	0	0	-1	-1	0 0	1	0.0	Pass	Pass
Church Avenue East	Church Avenue west	464	413	3	_	472	410	7	54	8	-3	4 7	-8	0.4	Pass	Pass
Site 7 Kerdiffstown Road / I			, 23									,				
Church Avenue East	Landfill	17	17	0	0	4	4	0	0	-13	-13	0 0	13	4.0	Pass	Pass
Church Avenue East	Church Avenue west	472	421	3	47	485	423	7	55	13	2	4 8	-13	0.6	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue west	Landfill	11	11	0	_	0	0	0	0	-11	-11	0 0		4.7	Pass	Pass
Church Avenue west	Church Avenue west	0	-			0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue west	Church Avenue East	169	161	0		153	146	0	7	-16	-15	0 -1		1.2	Pass	Pass
Landfill	Landfill	0	0	0	Ü	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Landfill	Church Avenue West	24 42	24 42	0		0 12	0 12	0	0	-24 -30	-24 -30	0 0		7.0 5.7	Pass	Fail
Landfill Garden Centre	Church Avenue East	42	42	0	0	12	12	U	U	-30	-30	0 0	30	5.7	Pass	Fail
Church Avenue East	Church Avenue west	480	419	.5	56	489	431	3	55	9	12	-2 -1	-9	0.4	Pass	Pass
Church Avenue East	Garden Centre	55	55	0		54	54	0	0	-1	-1	0 0		0.4	Pass	Pass
Church Avenue west	Church Avenue East	170	161	0	9	166	159	0	7	-4	-2	0 -2		0.1	Pass	Pass
Church Avenue west	Garden Centre	0	0	0	0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre	Church Avenue west	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre	Church Avenue East	110	110	0		108	108	0	0	-2	-2	0 0		0.2	Pass	Pass
Site 4 Church Ave / Sallins N																
Church Avenue East	Church Avenue West	488	438	3		466	405	7	54	-22	-33	4 7		1.0	Pass	Pass
Church Avenue East	School	0				0	0	0	0	0	0	0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue East	134	126	0		143	136	0	7	9	10	0 -1		0.7	Pass	Pass
Church Avenue West	School Church Avenue West	21	21	0		11	11	0	0	-10	-10	0 0		2.5	Pass	Pass
School School	Church Avenue West Church Avenue East	40	40	0	-	38 0	38 0	0	0	-2 0	-2	0 0		0.4	Pass Pass	Pass Pass
301001	CHARLET AVEILUE EAST	U	U	U	U	U	J	U	U	U	U	0	U	0.0	1 455	1 000

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Section of Control o	Locat	tion		Observ				Modeled				Diffe	rence			Diffe	rence	
Control March Ma	From		Total	Cars H	GV	LGV	Total	Cars HGV		LGV	Total	Cars	HGV	LGV	Difference	GEH	Flow	GEH
Selection			2305	1987	126	192	1999	1823	0	176	-306	-164	-126	-16	306	6.6	Fail	Fail
Set Specimen					2		-		_									
Continue	R407 South	R407 North	1907	1555	127	226	1669	1454	0	215	-238	-101	-127	-11	238	5.6	Fail	Fail
Second Control							-											
Continue							-		_									
Margin M																		
September Sept			,	3	J	J	<u> </u>	<u> </u>	Ü	J		, and the second			- Control of the cont	0.0	1 400	1 400
Corp. American for Manuscript 1	Church Avenue East	Church Avenue West					-		0		-4	-4	0	0	4	0.6	Pass	Pass
Content and the first force that of the content of																1		
Section 1985 Sect										_								
Company							-		_									
Combinement Description		+																
Schiebenger 201 462-Perc. 198 28 10 10 17 10 10 10 10 10	Site 3 R407 / Church Ave (E																	
Marging Comb prograph Sign 198 1					1	2												
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Miles Mile																		
Ministration Mini				324			355	319			-							
Martine Mart		<u> </u>		374			376	355		-	-							
March Secretar Development 180 28							-		0							+		
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Second Controller 196 19		· ·							1									
Secret Condendage Secr				-				-	13							+		
Second Controlling Second							-		1							+		
Second Controllage Water			•	0					6		-							
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Virging 1988 Virging 1989 Virg	Greenhill Overbridge						-		4		-							
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Your Professor 19											-							
Visit 18	N7 off-slip EB				0										7			
Servent Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Cont	N7 off-slip EB			127	8	13	123	111	0									
Serventing North-sign Serventing Ser			_	114	0	12	122	100	0									
General Overbridge General					2				-							+		
N7 Access Boald 17 Access Boald 18 Access Boal		<u> </u>			0				10		10							
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Church Avenue East Church Avenue west 94 65 4 25 84 60 0 24 -10 -5 -4 -1 Church Avenue East Garden Centre 109 109 0 0 103 103 0 0 -6 -6 -6 0 0 Church Avenue East Church Avenue East 505 464 2 40 513 485 0 27 8 21 -2 -13 Church Avenue west Garden Centre 0 0 0 0 0 0 0 0 0		Church Avenue East	12	12	0	0	12	12	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue East Garden Centre 109 109 0 0 0 103 103 0 0 0 -6 -6 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Church Avenue	24	CE		25	0.4	60	_	24	40	_		4	40	1.0	Poss	Post
Church Avenue West Church Avenue East Church Avenue East Garden Centre 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
Church Avenue west Garden Centre 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
Garden Centre Church Avenue East 27 27 0 0 24 24 0 0 0 -3 -3 0 0 0 Site 4 Church Avery Sallins National School Church Avenue East Church Avenue West 72 63 0 9 66 42 0 24 -6 -21 0 15 Church Avenue East School 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			_	-		_	-		·		-			0				Pass
Site 4 Church Ave / Sallins National School Church Avenue East Church Avenue West 72 63 0 9 66 42 0 24 -6 -21 0 15 6 0.7 Pass Pass Church Avenue East School 0 1 0 0 0 0 0 0 1 1 1					_	_					-							
Church Avenue East Church Avenue West 72 63 0 9 66 42 0 24 -6 -21 0 15 6 0.7 Pass Pass Church Avenue East School 0 0 0 0 0 0 0 0 0 0 0 0.0 Pass Pass Pass Church Avenue West Church Avenue West School 208 208 0 0 219 219 0 0 11 11 0 0 -11 0.8 Pass Pass Pass School Church Avenue West 131 131 0 0 127 127 0 0 -4 -4 0 0 4 0.4			27	27	0	0	24	24	0	0	-3	-3	0	0	3	0.5	Pass	Pass
Church Avenue East School 0 <td>Church Avenue East</td> <td></td> <td>72</td> <td>63</td> <td>0</td> <td>9</td> <td>66</td> <td>42</td> <td>0</td> <td>24</td> <td>-6</td> <td>-21</td> <td>0</td> <td>15</td> <td>6</td> <td>0.7</td> <td>Pass</td> <td>Pass</td>	Church Avenue East		72	63	0	9	66	42	0	24	-6	-21	0	15	6	0.7	Pass	Pass
Church Avenue West School 208 208 0 0 219 219 0 0 11 11 0 0 -11 0.8 Pass Pass School Church Avenue West 131 131 0 0 127 127 0 0 -4 -4 0 0 4 0.4 Pass Pass Pass	Church Avenue East	School	0	0		_	0	0			-	0	0	0				
School Church Avenue West 131 131 0 0 127 127 0 0 -4 -4 0 0 0 4 0.4 Pass Pass																		
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	School																	

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DS 2027 PM Peak Locat	tion		Obse	aved			Model				Difference			Diffe	erence	
From	То	Total		HGV	LGV 1	T otal Ca	ars HGV	10	GV	Total	Cars HGV	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa		Total	Curs	1101	ILOV I	iotai cc	ii iii iii		31	Total	cars indv	LGV	Difference	OLIT	11000	GLII
R407 North	R407 South	2105	1831	66	207	1973	1719	59	195	-132	-112	-7 -12	132	2.9	Fail	Pass
R407 North	Church Avenue East	114	106	0		115	110	0	5	1	4	0 -3		0.1	Pass	Pass
R407 South	R407 North	2726	2422	92	212	2552	2256	92	204	-174	-166	0 -8	174	3.4	Fail	Pass
R407 South	Church Avenue East	32	32	0	0	30	30	0	0	-2	-2	0 0	2	0.3	Pass	Pass
Church Avenue East	R407 South	140	123	0		124	105	0	19		-18	0 1	16	1.4	Pass	Pass
Church Avenue East	R407 North	22	20	0		20	19 0	0	2		-1	0 0		0.5	Pass	Pass
Church Avenue East Site 2 Church Ave (W) / Chu	Church Avenue East	0	0	0	0	0	U	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Church Avenue West	163	143	0	20	141	120	0	21	-22	-23	0 1	22	1.8	Pass	Pass
Church Avenue East	Church Avenue South	399	366	1	31	347	306	7	34		-60	6 3		2.7	Pass	Pass
Church Avenue North	Church Avenue West	3	3	0		3	3	0	0		0	0 0		0.1	Pass	Pass
Church Avenue North	Church Avenue East	30	29	0	1	34	32	0	2	4	3	0 1	-4	0.8	Pass	Pass
Church Avenue West	Church Avenue South	14	14	0	0	13	13	0	0		-1	0 0	1	0.2	Pass	Pass
Church Avenue West	Church Avenue East	134	126	0	8	134	129	0	5	0	3	0 -3	0	0.0	Pass	Pass
Site 3 R407 / Church Ave (E															1	T -
Church Avenue East	R407 South	139	130	0	9	109	102	7	7	-30	-28	0 -2		2.7	Pass	Pass
Church Avenue East	R407 North	302	268	1	32	248 7	214 5	0	26 2		-54	6 -6 0 0		3.2 0.3	Pass	Pass
R407 North R407 North	Church Avenue East R407 South	2224	6 1943	66		2130	1856	60	214	-1 -94	-1 -87	0 0		2.0	Pass Pass	Pass Pass
R407 South	Church Avenue East	33	33	00	0	30	30	0	0	-3	-3	0 0		0.5	Pass	Pass
R407 South	R407 North	2452	2167	93		2336	2074	85	178	-116	-93	-8 -13		2.4	Fail	Pass
Site 10 N7 South Roundabo	ut															
Palmerstown	Greenhill Overbridge	221	201	3	16	212	193	3	16	-9	-8	0 0	9	0.6	Pass	Pass
Palmerstown	N7 on-slip WB	5	5	0	0	5	5	0	0	0	0	0 0	0	0.1	Pass	Pass
Palmerstown	Kill West	298	267	9	23	285	258	8	20	-13	-9	-1 -3	13	0.8	Pass	Pass
Palmerstown	Palmerstown	0	0	0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Kill West	Greenhill Overbridge	251	227	1	22	235	215	0	20	-16	-12	-1 -2		1.0	Pass	Pass
Kill West	N7 on-slip WB	116	99	4	12	112	96	3	13	-4	-3	-1 1	4	0.4	Pass	Pass
Kill West	Kill West	463	0 411	0 14	37	0 449	402	14	0 32	-14	-9	0 0		0.0	Pass	Pass
Kill West Greenhill Overbridge	Palmerstown Greenhill Overbridge	463	411	14		449 0	0	0	32	-14 0	-9	0 -5		0.6	Pass Pass	Pass Pass
Greenhill Overbridge	N7 on-slip WB	78	71	2	5	68	64	1	3	-	-7	-1 -2		1.1	Pass	Pass
Greenhill Overbridge	Kill West	310	280	3	26	280	256	3	21	-30	-24	0 -5		1.7	Pass	Pass
Greenhill Overbridge	Palmerstown	108	104	0		105	103	0	2		-1	0 -1		0.3	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	240	202	1	37	241	206	1	34	1	4	0 -3		0.1	Pass	Pass
N7 off-slip WB	N7 on-slip WB	249	215	2	32	249	215	2	33	0	0	0 1	0	0.0	Pass	Pass
N7 off-slip WB	Kill West	28	22	0	5	29	24	0	6	1	2	0 1	-1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	576	536	3	36	562	527	3	32	-14	-9	0 -4	14	0.6	Pass	Pass
Site 9 N7 North Roundabou		1												1		
The Paddocks	N7 Access Road	7	7	0	0	6	6	0	0	-1	-1	0 0		0.6	Pass	Pass
The Paddocks	N7 on-slip EB	12	9	0	3	12	9	0	3	0	0	0 0	0	0.1	Pass	Pass
The Paddocks	Greenhill Overbridge The Paddocks	49	46 0	1	0	44 0	41	0	0		-5 0	0 0	5	0.7	Pass Pass	Pass Pass
The Paddocks N7 off-slip EB	N7 Access Road	81	77	1	3	73	70	1	3		-7	0 0		0.9	Pass	Pass
N7 off-slip EB	N7 on-slip EB	70	64	2	4	61	55	2	4		-9	0 0		1.2	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	191	168	3	20	163	141	3	19	-28	-27	0 -1	28	2.1	Pass	Pass
N7 off-slip EB	The Paddocks	5	4	0	_	3	3	0	0		-1	0 -1		1.1	Pass	Pass
Greenhill Overbridge	N7 Access Road	480	420	4	55	461	407	2	52		-13	-2 -3		0.9	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	227	207	2		218	198	0	18 0	-9 0	-9	0 0		0.6	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge The Paddocks	0 12	9	1	0	9	7	1	0	-	-2	0 0	3	0.0	Pass Pass	Pass Pass
N7 Access Road	N7 Access Road	0	0	0	0	1	1	0	0		1	0 0	-1	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	64	58	0	6	51	49	0	2		-9	0 -4		1.7	Pass	Pass
N7 Access Road	Greenhill Overbridge	254	241	0	13	247	241	0	5	-7	0	0 -8	7	0.4	Pass	Pass
N7 Access Road	The Paddocks	1	1	0	0	1	1	0	0	0	0	0 0	0	0.1	Pass	Pass
Site 8 N7 Access Road / Joh								-							_	
Church Avenue East	Church Avenue West	478	428 0	3		485	427 0	3	55 0		-1	0 7		0.3	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue East Johnstown Garden	0	0	0		1	1	0	0		1	0 0		0.0	Pass Pass	Pass Pass
Johnstown Garden	Church Avenue West	0	0	0		4	0	4	0		0	4 0		2.8	Pass	Pass
Johnstown Garden	Church Avenue East	1	1	0	0	2	2	0	0		1	0 0	-1	0.8	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	0	0	Ü	0	0	0	0		0	0 0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	202	192	0		192	185	0	7		-7	0 -4		0.7	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 5 Church Ave Railway E Church Avenue West	Church Avenue East	153	144	0	9	155	148	0	7	2	4	0 -2	-2	0.2	Pass	Pass
Church Avenue East	Church Avenue West	495	441	3		451	389	7	54		-52	4 3		2.0	Pass	Pass
Site 6 Kerdiffstown Road / I																
Church Avenue west	Church Avenue East	142	135	0		143	136	0	7		1	0 -1		0.1	Pass	Pass
Church Avenue west	Golf Club	11	11	0	Ü	11	11	0	0		0	0 0		0.1	Pass	Pass
Golf Club	Church Avenue East	29	29	0		24	24	0	0		-5	0 0		0.9	Pass	Pass
Golf Club Church Avenue East	Church Avenue west Golf Club	0	9	0	_	7	7	0	0		-2	0 0		0.0	Pass Pass	Pass Pass
Church Avenue East Church Avenue East	Church Avenue west	495	441	3	_	457	395	7	54		-2 -46	4 3	38	1.7	Pass	Pass
Site 7 Kerdiffstown Road / I		433	441	3	31	737	333	,	34	-36	70	. 3	50	1.7	1 400	, 435
Church Avenue East	Landfill	17	17	0	0	16	16	0	0		-1	0 0	1	0.4	Pass	Pass
Church Avenue East	Church Avenue west	503	449	3	51	470	408	7	55		-41	4 4	33	1.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	-	0	0	0	0		0	0 0		0.0	Pass	Pass
Church Avenue west	Landfill	0	0	0	_	9	9	0	0		9	0 0		4.2	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue west Church Avenue East	0 171	0 163	0		0 156	0 149	0	0 7		-14	0 0		0.0 1.2	Pass Pass	Pass Pass
Landfill	Landfill	0	163	0		0	0	0	0		-14	0 -1		0.0	Pass	Pass
Landfill	Church Avenue west	0	0	0		0	0	0	0	-	0	0 0		0.0	Pass	Pass
Landfill	Church Avenue East	24	24	0		36	36	0	0		12	0 0		2.1	Pass	Pass
Garden Centre																
Church Avenue East	Church Avenue west	511	446	5		486	428	3	55		-18	-2 -4		1.1	Pass	Pass
Church Avenue East	Garden Centre	58	58	0	-	54	54	0	0		-4	0 0		0.5	Pass	Pass
Church Avenue west	Church Avenue East	202	192	0		194	187	0	7		-5	0 -4	8	0.6	Pass	Pass
Church Avenue west Garden Centre	Garden Centre Church Avenue west	0	0	0	0	0	0	0	0		0	0 0		0.0	Pass Pass	Pass Pass
Garden Centre	Church Avenue East	116				108	108	0	0		-8	0 0		0.8	Pass	Pass
Site 4 Church Ave / Sallins N			123													
Church Avenue East	Church Avenue West	519	463	3	53	450	389	7	54	-69	-74	4 1	69	3.1	Pass	Pass
Church Avenue East	School	0	_		_	0	0	0	0	-	0	0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue East	153	144	0	_	157	150	0	7		6	0 -2		0.3	Pass	Pass
Church Avenue West School	School Church Avenue West	11 43	11 43	0		11 38	38	0	0		-5	0 0		0.1	Pass Pass	Pass Pass
School	Church Avenue West Church Avenue East	43		0	_	0	0	0	0		-5	0 0		0.7	Pass	Pass
	1 Edst	,	J	0		3	5	,	- 0	U	<u> </u>	-, 0		3.0	. 403	. 400

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Locati From	tion To	Total	Obse		LGV	Total	Mode Cars I	led HGV	LGV	Total	Difference Cars HGV	LGV	Difference	Diffe GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa		Total	Cars	nov	201	Total	Cars	101	LGV	Total	cars mov	LOV	Difference	GEIT	TIOW	GEN
R407 North	R407 South	2566	1	141	214		1	126	199			-15 -15		4.4	Fail	Pass
R407 North R407 South	Church Avenue East R407 North	474 2121	1	2 141	18 251		1	2 121	12 237		-1 -109	0 -6 -20 -14	142	3.1	Pass Fail	Pass Pass
R407 South	Church Avenue East	110	1	0	6			0	5			0 -1	1	0.1	Pass	Pass
Church Avenue East	R407 South	53	1	0	1			0	1			0 0	3	0.5	Pass	Pass
Church Avenue East	R407 North	9	9	0	0			0	0		-1	0 0		0.5	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chur Church Avenue East	Church Ave (S), Sallins Church Avenue West	52	. 52	0	0	48	48	0	0	-4	-4	0 0	4	0.6	Pass	Pass
Church Avenue East	Church Avenue South	167	1	2	6			0	24			-2 18	4	0.3	Pass	Pass
Church Avenue North	Church Avenue West	9		0	1	10	1	0	1	_		0 0		0.2	Pass	Pass
Church Avenue North	Church Avenue East	190	177	1	12	218	203	2	14	28	26	1 2	-28	2.0	Pass	Pass
Church Avenue West	Church Avenue South	32	1	0	1		1	0	1			0 0		0.0	Pass	Pass
Church Avenue West	Church Avenue East	551	. 527	2	22	553	534	2	17	2	7	0 -5	-2	0.1	Pass	Pass
Site 3 R407 / Church Ave (E) Church Avenue East	R407 South	99	95	1	2	88	81	0	6	-11	-14	-1 4	11	1.1	Pass	Pass
Church Avenue East	R407 North	108		1	7		1	0	19			-1 12	4	0.4	Pass	Pass
R407 North	Church Avenue East	17	15	0	1	18	16	0	2	1	1	0 1	-1	0.3	Pass	Pass
R407 North	R407 South	2616	1	141	216			130	201		-155	-11 -15	181	3.6	Fail	Pass
R407 South	Church Avenue East	222		1	16		 	2	13	•	-8	1 -3	11	0.7	Pass	Pass
R407 South Site 10 N7 South Roundabou	R407 North	2129	1751	136	243	1985	1639	121	224	-144	-112	-15 -19	144	3.2	Fail	Pass
Palmerstown	Greenhill Overbridge	382	356	1	25	378	355	1	22	-4	-1	0 -3	4	0.2	Pass	Pass
Palmerstown	N7 on-slip WB	1		0	0		 	0	0			0 0		1.5	Pass	Pass
Palmerstown	Kill West	459	416	17	26	429	392	14	22	-30	-24	-3 -4	30	1.4	Pass	Pass
Palmerstown	Palmerstown	0		0	0			0	0			0 0		0.0	Pass	Pass
Kill West	Greenhill Overbridge	112	1	1	13			0	12			-1 -1	5	0.4	Pass	Pass
Kill West Kill West	N7 on-slip WB Kill West	243		0	18 0			0	16	•		0 -2		0.2	Pass Pass	Pass Pass
Kill West	Palmerstown	214		17	12			15	9		-20	-2 -3		1.7	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0		0	0			0	0			0 0		0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	47		5	5			3	3	-12		-2 -2		1.9	Pass	Pass
Greenhill Overbridge	Kill West	288		9	38			7	27		-16	-2 -11	28	1.7	Pass	Pass
Greenhill Overbridge	Palmerstown	53		0	6			0	3			0 -3		0.1	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	58		8	12			6	10		-7	-2 -2 0 1		1.5	Pass	Pass
N7 off-slip WB N7 off-slip WB	N7 on-slip WB Kill West	39 50		0	5 8			0	7			0 1	-3	0.4	Pass Pass	Pass Pass
N7 off-slip WB	Palmerstown	169		4	24			3	22			-1 -2		0.3	Pass	Pass
Site 9 N7 North Roundabout																
The Paddocks	N7 Access Road	2	1	0	1	2	1	0	1		0	0 0	0	0.3	Pass	Pass
The Paddocks	N7 on-slip EB	7		0	4	-	-	0	3			0 -1	0	0.0	Pass	Pass
The Paddocks The Paddocks	Greenhill Overbridge The Paddocks	5		0	0			0	0			0 0	0	0.9	Pass Pass	Pass Pass
N7 off-slip EB	N7 Access Road	74	_	0	12			0	11			0 -1		0.4	Pass	Pass
N7 off-slip EB	N7 on-slip EB	104		0	13			0	11			0 -2		0.9	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	165		9	15		122	7	13		-19	-2 -2		1.9	Pass	Pass
N7 off-slip EB	The Paddocks	6		0	1	4	4	0	0			0 -1	2	0.9	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	N7 Access Road N7 on-slip EB	138 366		5 2	14 31			2	13 26			-1 -1 0 -5	9	0.6 0.5	Pass Pass	Pass Pass
Greenhill Overbridge	Greenhill Overbridge	0		0	0			0	0			0 0		0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	49	39	2	7	44	37	2	5		-2	0 -2	5	0.7	Pass	Pass
N7 Access Road	N7 Access Road	0		0	0			0	0			0 0		0.0	Pass	Pass
N7 Access Road N7 Access Road	N7 on-slip EB Greenhill Overbridge	364 218		1 5	20 30			0	11 17			-1 -9 -1 -13	-7 16	0.3	Pass Pass	Pass Pass
N7 Access Road	The Paddocks	4		0	1			0	2			0 1	1	0.3	Pass	Pass
Site 8 N7 Access Road / John																
	Church Avenue West	90		0	9			0	25			0 16		0.0	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue East Johnstown Garden	2		0	0		1	4	0			0 0	-2	0.0	Pass Pass	Pass Pass
Johnstown Garden	Church Avenue West	0	_	0	0		0	0	0			0 0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Johnstown Garden	Johnstown Garden	0		0	0			0	0			0 0	0	0.0	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue West Church Avenue East	557	-	0	0 44			0	30		-	0 0	-1	0.0	Pass Pass	Pass Pass
	Johnstown Garden	0		0	0			0	0			0 0		0.1	Pass	Pass
Site 5 Church Ave Railway B																
	Church Avenue East	472		0	0			4	30			4 30		2.5	Pass	Pass
Church Avenue East Site 6 Kerdiffstown Road / N	Church Avenue West	65	64	0	1	70	45	0	25	5	-19	0 24	-5	0.6	Pass	Pass
Church Avenue west	Church Avenue East	497	464	3	30	512	478	4	30	15	14	1 0	-15	0.7	Pass	Pass
Church Avenue west	Golf Club	12	. 12	0	0	13	13	0	0	1		0 0	-1	0.3	Pass	Pass
Golf Club	Church Avenue East	52	+	0	0			0	0		-4	0 0	4	0.6	Pass	Pass
Golf Club	Church Avenue west Golf Club	13		0	0			0	0			0 0	4	0.0 1.2	Pass Pass	Pass Pass
Church Avenue East Church Avenue East	Church Avenue west	74		0	9			0	25			0 0		0.4	Pass	Pass
Site 7 Kerdiffstown Road / L			Ü					3				20				
Church Avenue East	Landfill	4		0	0		_	0	0			0 0		0.9	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue west Church Avenue East	87 0	+	0	9			0	25 0			0 16		0.8	Pass	Pass
Church Avenue East Church Avenue west	Landfill	0		0	0			0	0			0 0	0	0.0	Pass Pass	Pass Pass
Church Avenue west	Church Avenue west	0	_	0	0		-	0	0		-	0 0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	550		4	33			4	30			0 -3		0.4	Pass	Pass
Landfill	Landfill Church Avenue west	0		0	0			0	0		-	0 0	0	0.0	Pass	Pass
Landfill Landfill	Church Avenue west Church Avenue East	7	7	0	0			0	0			0 0	7	0.0 3.8	Pass Pass	Pass Pass
Garden Centre	ondi on Avenue Last	,	/	U	0		U	U	U	-/	-/	J 0		5.0	1 033	1 035
Church Avenue East	Church Avenue west	93		5	28			4	25		-4	-1 -3	8	0.8	Pass	Pass
Church Avenue East	Garden Centre	121		0	0			0	0			0 0		0.4	Pass	Pass
		557	+	2	44			4	30			2 -14	0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	-	0	0	0			0	0		-	0 0	0	0.0	Pass Pass	Pass Pass
Church Avenue west	Garden Centre	0	-				U	U		ı u	U U	υ 0	U	0.0		1 433
Church Avenue west Garden Centre		_	0	0	0		24	0	0	-6	-6	0 0	6	1.1	Pass	Pass
Church Avenue west	Garden Centre Church Avenue west Church Avenue East	0	0		-	_	24	0	0	-6	-6	0 0	6	1.1	+	Pass
Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East	Garden Centre Church Avenue west Church Avenue East Vational School Church Avenue West	0 30 74	0 0 30	0	9	24	44	0	24	-5	-20	0 15	5	0.5	Pass Pass	Pass
Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East	Garden Centre Church Avenue west Church Avenue East Vational School Church Avenue West School	74 0	0 30 64 0 0	0 0	9	69	44	0	24	-5 0	-20 0	0 15 0 0	5	0.5 0.0	Pass Pass Pass	Pass Pass
Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East Church Avenue West	Garden Centre Church Avenue west Church Avenue East Vational School Church Avenue West School Church Avenue East	74 0 509	0 30 30 64 0 472	0 0 4	9 0 34	69 0 529	44 0 495	0 0 4	24 0 30	-5 0 20	-20 0 23	0 15 0 0 0 -4	5 0 -20	0.5 0.0 0.9	Pass Pass Pass Pass	Pass Pass Pass
Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East	Garden Centre Church Avenue west Church Avenue East Vational School Church Avenue West School	74 0	0 30 30 64 0 472 231	0 0	9	69 0 529 241	44 0 495 241	0	24	-5 0 20 10	-20 0 23 10	0 15 0 0	5 0 -20 -10	0.5 0.0	Pass Pass Pass	Pass Pass
Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East Church Avenue West Church Avenue West	Garden Centre Church Avenue west Church Avenue East Vational School Church Avenue West School Church Avenue East School	0 30 74 0 509 231	0 30 64 0 472 231 146	0 0 0 4 0	9 0 34	69 0 529 241 142	44 0 495 241 142	0 0 4 0	24 0 30 0	-5 0 20 10 -4	-20 0 23 10 -4	0 15 0 0 0 -4 0 0	5 0 -20 -10 4	0.5 0.0 0.9 0.6	Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass

Dς	2037	DIM	Dook

DS 2037 PM Peak	tion		Obse	rvod			Model				Differen	co		Diff	erence	
From	То	Total		HGV	LGV 1	Total Ca	ars HGV	10	GV	Total	Cars HG		Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa		Total	Curs	1101	ILOV I	lotai C	ars Indi	120	0 V	Total	cars inc	LGV	Difference	GEN	I low	GEIT
R407 North	R407 South	2343	2038	74	231	2250	1948	69	233	-93	-90	-5	2 93	1.9	Pass	Pass
R407 North	Church Avenue East	119	110	0	8	121	115	0	6	2	5		2 -2	0.2	Pass	Pass
R407 South	R407 North	3022	2685	102	235	2892	2547	109	236	-130	-138	7	1 130	2.4	Fail	Pass
R407 South	Church Avenue East	33	33	0	0	32	32	0	0	-1	-1	0	0 1	0.2	Pass	Pass
Church Avenue East	R407 South	150	131	0		147	125	0	22		-6		3	0.2	Pass	Pass
Church Avenue East	R407 North	24	21	0		23	21	0	2		0		0 1	0.2	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0 0	0.0	Pass	Pass
Site 2 Church Ave (W) / Church Avenue Fact		173	152	0	21	167	144	0	24	-6	-8	0	3 6	0.5	Door	Pass
Church Avenue East Church Avenue East	Church Avenue West Church Avenue South	425	390	0	34	414	365	11	38		-25		4 11	0.5	Pass Pass	Pass
Church Avenue North	Church Avenue West	423	4	0		3	3	0	0		-25		0 1	0.3	Pass	Pass
Church Avenue North	Church Avenue East	31	30	0	1	35	32	0	3	4	2		2 -4	0.7	Pass	Pass
Church Avenue West	Church Avenue South	15	15	0	0	14	14	0	0		-1		0 1	0.4	Pass	Pass
Church Avenue West	Church Avenue East	139	131	0	8	143	137	0	6	4	6	0 -	2 -4	0.3	Pass	Pass
Site 3 R407 / Church Ave (E																
Church Avenue East	R407 South	148	139	0	10	131	123	0	8	-17	-16	0 -	2 17	1.5	Pass	Pass
Church Avenue East	R407 North	323	287	1	35	297	256	11	31		-31	10 -	4 26	1.5	Pass	Pass
R407 North	Church Avenue East	8	6	0		7	4	0	3		-2		1 1	0.5	Pass	Pass
R407 North	R407 South	2476	2163	74		2437	2111	70	256	-39	-52	-4 1		0.8	Pass	Pass
R407 South	Church Avenue East	34	34	0		31	31	0	0	-3	-3		3	0.6	Pass	Pass
R407 South	R407 North	2728	2411	104	213	2628	2324	98	206	-100	-87	-6 -	7 100	1.9	Pass	Pass
Site 10 N7 South Roundabo Palmerstown	Greenhill Overbridge	246	224	4	18	246	224	5	17	0	0	1 -	1 0	0.0	Pass	Pass
Palmerstown	N7 on-slip WB	6	6	0	0	5	5	0	0	-1	-1		0 1	0.4	Pass	Pass
Palmerstown	Kill West	332	297	10		326	293	8	24		-4		2 6	0.4	Pass	Pass
Palmerstown	Palmerstown	0	0	0		0	0	0	0	0	0		0 0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	279	253	1	25	271	246	0	25	-	-7		0 8	0.5	Pass	Pass
Kill West	N7 on-slip WB	129	111	5	14	126	108	4	14	-3	-3		0 3	0.3	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0		0 0	0.0	Pass	Pass
Kill West	Palmerstown	515	458	16		508	454	15	39	-7	-4		3 7	0.3	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0		0	0	0	0	0	0		0 0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	83	76	2	5	76	72	2	3	-7	-4	0 -	2 7	0.8	Pass	Pass
Greenhill Overbridge	Kill West	331	300	4	28	322	296	4	22	-9	-4	0 -	6 9	0.5	Pass	Pass
Greenhill Overbridge	Palmerstown	115	112	0	4	120	117	0	2	5	5	0 -	2 -5	0.4	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	267	225	1	41	266	225	1	39	-1	0	0 -	2 1	0.1	Pass	Pass
N7 off-slip WB	N7 on-slip WB	278	239	2	36	273	234	2	37	-5	-5	0	5	0.3	Pass	Pass
N7 off-slip WB	Kill West	31	25	0	6	32	26	0	6	1	1	0	0 -1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	641	597	4	41	614	573	4	37	-27	-24	0 -	4 27	1.1	Pass	Pass
Site 9 N7 North Roundabou														1		
The Paddocks	N7 Access Road	8	8	0	0	8	8	0	0	0	0		0	0.1	Pass	Pass
The Paddocks	N7 on-slip EB	13	9	0	4	15	12	0	3	2	3		1 -2	0.5	Pass	Pass
The Paddocks	Greenhill Overbridge	55	51	1	2	54	51	1	2		0	-	0 1	0.1	Pass	Pass
The Paddocks	The Paddocks	90	85	0	4	87	82	2	0 4		0	1	0 0	0.0	Pass	Pass
N7 off-slip EB N7 off-slip EB	N7 Access Road N7 on-slip EB	78	71	2	5	71	64	2	4	-3 -7	-3 -7		0 1 7	0.3	Pass Pass	Pass Pass
N7 off-slip EB	Greenhill Overbridge	212	187	4	22	197	171	5	21		-16		1 15	1.1	Pass	Pass
N7 off-slip EB	The Paddocks	6	4	0		3	3	0	0		-1		1 3	1.4	Pass	Pass
Greenhill Overbridge	N7 Access Road	534	468	5	61	526	463	4	60	-8	-5		1 8	0.4	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	253	230	2	20	246	223	2	20	-7	-7	0	0 7	0.4	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	13	10	1	1	10	9	1	1		-1	0	0 3	0.9	Pass	Pass
N7 Access Road	N7 Access Road	0	0	0	0	1	1	0	0		1	-	0 -1	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	65	59	0	6	60	57	0	3		-2		5	0.7	Pass	Pass
N7 Access Road	Greenhill Overbridge	261	248	0		268	262	0	5		14		-7	0.4	Pass	Pass
N7 Access Road Site 8 N7 Access Road / Joh	The Paddocks	1	1	0	0	1	1	0	0	0	0	0	0 0	0.2	Pass	Pass
Church Avenue East	Church Avenue West	479	428	3	48	554	485	5	64	75	57	2 1	6 -75	3.3	Pass	Pass
Church Avenue East	Church Avenue East	0		0		0	0	0	0		0		0 0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	0	0	0		0	0	0	0	-	0		0 0	0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	0	6	0	6	0	6	0	6	0 -6	3.5	Pass	Pass
Johnstown Garden	Church Avenue East	1	1	0	0	4	4	0	0	3	3	0	0 -3	1.7	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0	0		0	0	0	0		0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	0	0	0	0	0	0	0	-	0	-	0 0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	198	188	0		206	197	0	9		9		2 -8	0.5	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 5 Church Ave Railway E Church Avenue West	Church Avenue East	158	148	0	9	165	157	0	9	7	9	0	0 -7	0.6	Pass	Pass
Church Avenue East	Church Avenue West	551	491	4		536	463	11	63		-28		7 15	0.6	Pass	Pass
Site 6 Kerdiffstown Road / I									- 55							
Church Avenue west	Church Avenue East	146	138	0	8	152	143	0	9	6	5	0	1 -6	0.5	Pass	Pass
Church Avenue west	Golf Club	12		0	Ü	12	12	0	0	0	0		0	0.0	Pass	Pass
Golf Club	Church Avenue East	32	32	0		35	35	0	0		3		0 -3	0.5	Pass	Pass
Golf Club	Church Avenue west	0	0	0	_	0	0	0	0		0		0 0	0.0	Pass	Pass
Church Avenue East Church Avenue East	Golf Club Church Avenue west	9 551	9 491	0		6 542	6 468	0 11	0 64		-3 -23	-	0 3 8 9	1.3 0.4	Pass Pass	Pass Pass
Site 7 Kerdiffstown Road / I		551	491	4	36	342	400	11	04	-9	-23		9	0.4	Fass	1-055
Church Avenue East	Landfill	7	7	0	0	5	5	0	0	-2	-2	0	0 2	0.9	Pass	Pass
Church Avenue East	Church Avenue west	560	500	4	56	554	479	11	64		-21		8 6	0.3	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0	0	0		0		0 0	0.0	Pass	Pass
Church Avenue west	Landfill	0	0	0	_	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0	-	0	_	0	0	0	0		0		0 0	0.0	Pass	Pass
Church Avenue west	Church Avenue East	178	170	0	_	186	178	0	9		8		-8	0.6	Pass	Pass
Landfill	Landfill	0	0	0	-	0	0	0	0		0		0 0	0.0	Pass	Pass
Landfill	Church Avenue Fast	0	0	0		0	0	0	0		0		0 0	0.0	Pass	Pass
Landfill	Church Avenue East	0	0	0	0	20	20	0	0	20	20	0	-20	6.3	Pass	Fail
Garden Centre Church Avenue East	Church Avenue west	569	497	6	66	555	486	5	64	-14	-11	-1	2 14	0.6	Pass	Pass
Church Avenue East Church Avenue East	Garden Centre	64	64	0		62	62	0	0		-11		0 2	0.6	Pass	Pass
Church Avenue west	Church Avenue East	198	188	0		209	201	0	9		13		2 -11	0.8	Pass	Pass
Church Avenue west	Garden Centre	0	0	0	0	0	0	0	0		0		0 0	0.0	Pass	Pass
Garden Centre	Church Avenue west	0	0	0		0	0	0	0		0		0 0	0.0	Pass	Pass
Garden Centre	Church Avenue East	129	129	0	0	123	123	0	0	-6	-6	0	0 6	0.6	Pass	Pass
Site 4 Church Ave / Sallins N																
Church Avenue East	Church Avenue West	551	491	4		533	460	11	62		-31		6 18	0.8	Pass	Pass
Church Avenue East	School	0	_		_	0	0	0	0	_	0		0 0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	158	148	0	_	166	157	0	9		9		-8	0.6	Pass	Pass
Church Avenue West School	School Church Avenue West	12 47	12 47	0		12 49	12 49	0	0		2		0 -2	0.0	Pass Pass	Pass Pass
School	Church Avenue West Church Avenue East	0		0	_	0	0	0	0		0		0 -2	0.2	Pass	Pass
		J	U	U	U	U	o _l	9	U	U	<u> </u>	<u> </u>	-	0.0	1 433	1 433

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Locat	tion		Obser	rved			Modele	ed			Differenc	e				erence	
From	То	Total	Cars	HGV	LGV	Total	Cars H	GV	LGV	Total C	Cars HG	V	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa R407 North	R407 South	2566	2212	1.41	214	2352	2020	126	199	214	104	1.5	15	24.4	4.2	Fail	Door
R407 North	Church Avenue East	2566 480	1	141	18		2028 460	126	199	-214 -6	-184 0	-15 0	-15 -6	214 6	4.3 0.3	Pass	Pass Pass
R407 South	R407 North	2123		141	251		t - t -	121	238		-111	-20	-13	144	3.2	Fail	Pass
R407 South	Church Avenue East	112		0	6		106	0	5		0	0	-1	1	0.1	Pass	Pass
Church Avenue East	R407 South	55	1	0	1	50	t - t -	0	1		-3	0	0	5	0.6	Pass	Pass
Church Avenue East	R407 North	10	10	0	0	8	8	0	0	-2	-2	0	0	2	0.6	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu	urch Ave (S), Sallins							T									_
Church Avenue East	Church Avenue West	54		0	0			0	0		-5	0	0	5	0.6	Pass	Pass
Church Avenue East	Church Avenue South	172		2	6		141	0	24		-22	-2	18	7	0.5	Pass	Pass
Church Avenue North	Church Avenue West	9	1	0	1			0	1		1	0	0	-1	0.2	Pass	Pass
Church Avenue North	Church Avenue East	193	1	1	12		207	2	14		27	1	2	-29	2.0	Pass	Pass
Church Avenue West	Church Avenue South	32 559	1	0	22		30 543	0	1 17		-1	0	0 -5	-3	0.2	Pass	Pass
Church Avenue West Site 3 R407 / Church Ave (E)	Church Avenue East	559	535		22	502	543	2	17	3	8	U	-5	-3	0.1	Pass	Pass
Church Avenue East	R407 South	101	97	1	2	88	82	0	6	-13	-15	-1	4	13	1.3	Pass	Pass
Church Avenue East	R407 North	110		1	7		87	0	19		-15	-1	12	3	0.3	Pass	Pass
R407 North	Church Avenue East	17		0	1	19	18	0	2		2	0	1	-2	0.5	Pass	Pass
R407 North	R407 South	2616		141	216	2435	2104	130	201	-181	-155	-11	-15	181	3.6	Fail	Pass
R407 South	Church Avenue East	225		1	16		199	2	13	-11	-9	1	-3	11	0.7	Pass	Pass
R407 South	R407 North	2131	1752	136	243	1985	1639	121	224	-146	-113	-15	-19	146	3.2	Fail	Pass
Site 10 N7 South Roundabo	out																
Palmerstown	Greenhill Overbridge	387	361	1	25	383	360	1	22	-4	-1	0	-3	4	0.2	Pass	Pass
Palmerstown	N7 on-slip WB	1	1	0	0	0	0	0	0	-1	-1	0	0	1	1.5	Pass	Pass
Palmerstown	Kill West	459	416	17	26	429	392	14	22	-30	-24	-3	-4	30	1.4	Pass	Pass
Palmerstown	Palmerstown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	113		1	13			0	12		-3	-1	-1	4	0.4	Pass	Pass
Kill West	N7 on-slip WB	243	224	1	18	241	224	1	16		0	0	-2	2	0.2	Pass	Pass
Kill West	Kill West	0	-	0	0		0	0	0		0	0	0	0	0.0	Pass	Pass
Kill West	Palmerstown	214		17	12			15	9		-20	-2	-3	24	1.7	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	-	0	0		0	0	0		0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	48	37	5	5		30	3	3		-7	-2	-2	12	1.8	Pass	Pass
Greenhill Overbridge	Kill West	290		9	38		229	7	27		-15	-2	-11	26	1.6	Pass	Pass
Greenhill Overbridge	Palmerstown	54		0	6		51	0	3		3	0	-3	0	0.0	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	59		8	12		31	6	10		-7	-2	-2	12	1.6	Pass	Pass
N7 off-slip WB	N7 on-slip WB	39	1	0	5			0	6		2	0	1	-3	0.4	Pass	Pass
N7 off-slip WB	Kill West	50		0	8		40	0	7		-2	0	-1	2	0.3	Pass	Pass
N7 off-slip WB	Palmerstown	169	141	4	24	164	139	3	22	-5	-2	-1	-2	5	0.4	Pass	Pass
Site 9 N7 North Roundabou																	
The Paddocks	N7 Access Road	2	+	0	1	2	1	0	1	-	0	0	0	0	0.3	Pass	Pass
The Paddocks	N7 on-slip EB	7	1	0	4	7	4	0	3		0	0	-1	0	0.0	Pass	Pass
The Paddocks	Greenhill Overbridge	5		0	2		1	0	2		-1	0	0	2	0.9	Pass	Pass
The Paddocks N7 off-slip EB	The Paddocks N7 Access Road	77		0	0 12			0	0 11		-5	0	-1	5	0.0	Pass Pass	Pass Pass
N7 off-slip EB	N7 on-slip EB	104		0	13			0	11		-7	0	-2	9	0.0	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	165		9	15		124	7	13		-17	-2	-2	21	1.7	Pass	Pass
N7 off-slip EB	The Paddocks	6	1	0	1	4	4	0	0		-1	0	-1	2	0.9	Pass	Pass
Greenhill Overbridge	N7 Access Road	145	126	5	14	139	121	4	13		-5	-1	-1	6	0.5	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	366	332	2	31	357	330	2	26	-9	-2	0	-5	9	0.5	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	The Paddocks	49	39	2	7	44	37	2	5		-2	0	-2	5	0.7	Pass	Pass
N7 Access Road	N7 Access Road	0		0	0		ū	0	0	-	0	0	0	0	0.0	Pass	Pass
N7 Access Road	N7 on-slip EB	368	+	1	20		367	0	11		21	-1	-9	-10	0.5	Pass	Pass
N7 Access Road	Greenhill Overbridge	220		5	30			4	17		0	-1	-13	14	1.0	Pass	Pass
N7 Access Road	The Paddocks	4	2	0	1	3	2	0	2	-1	0	0	1	1	0.3	Pass	Pass
Site 8 N7 Access Road / Joh Church Avenue East	Church Avenue West	101	91	0	9	92	66	0	25	-9	-25	0	16	9	0.9	Pass	Pass
Church Avenue East	Church Avenue East	0		0	0			0	0		0	0	0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	2		0	0		1	4	0		-1	4	0	-2	0.9	Pass	Pass
Johnstown Garden	Church Avenue West	0		0	0	0	0	0	0		0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0		0	0		-	0	0		0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	562		2	44			4	30		18	2	-14	-6	0.2	Pass	Pass
Church Avenue West	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 5 Church Ave Railway B			100	-			FC4		36		24		24	47	0.4	Donat	D
Church Avenue West Church Avenue East	Church Avenue East Church Avenue West	492 65		0	9		504 48	0	30 25		-16	0		-47 -8	2.1 0.9	Pass Pass	Pass Pass
Site 6 Kerdiffstown Road / I		05	04	U	1	/3	48	U	25	8	-10	U	24	-0	0.9	1-055	Fass
Church Avenue west	Church Avenue East	508	474	3	30	523	489	4	30	15	15	1	0	-15	0.7	Pass	Pass
Church Avenue west	Golf Club	12		0	0			0	0		1	0	0	-1	0.3	Pass	Pass
Golf Club	Church Avenue East	52		0	0			0	0		-4	0	0	4	0.6	Pass	Pass
Golf Club	Church Avenue west	0		0	0		-	0	0		0	0	0	0	0.0	Pass	Pass
Church Avenue East	Golf Club	13		0				0	0		-4	0	0	4	1.2	Pass	Pass
Church Avenue East	Church Avenue west	74	64	0	9	74	49	0	25	0	-15	0	16	0	0.0	Pass	Pass
Site 7 Kerdiffstown Road / I								-									
Church Avenue East	Landfill Church Avenue west	14 87		0	9		Ü	0	0 25		-6 -19	0		6	1.9	Pass	Pass
Church Avenue East Church Avenue East	Church Avenue west Church Avenue East	87		0	0			0	25 0		-19 0	0	16	0	0.4	Pass Pass	Pass Pass
Church Avenue East Church Avenue west	Landfill	11	-	0	0		ŭ	0	0		1	0	0	-1	0.0	Pass	Pass
Church Avenue west	Church Avenue west	0		0	0			0	0		0	0	0	0	0.4	Pass	Pass
Church Avenue west	Church Avenue East	560	_	4	33		ŭ	4	30		-1	0	-3	3	0.1	Pass	Pass
Landfill	Landfill	0		0	0		0	0	0		0	0	0	0	0.0	Pass	Pass
	Church Avenue west	0	0	0	0	0	0	0	0	-	0	0	0	0	0.0	Pass	Pass
Landfill	Charci Avenue west		13	0	0	12	12	0	0	-1	-1	0	0	1	0.2	Pass	Pass
Landfill Landfill	Church Avenue East	13															
	Church Avenue East				20	96	67	4	25		-4	-1		7	0.7	Pass	Pass
Landfill	+	103		5				0	0		-6	0					Dana
Landfill Garden Centre Church Avenue East Church Avenue East	Church Avenue East Church Avenue west Garden Centre	103 121	121	0	0	115	115	0					0	6	0.6	Pass	Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west	Church Avenue East Church Avenue west Garden Centre Church Avenue East	103 121 562	121 516	0	0 44	115 567	533	4	30	5	17	2	-14	-5	0.2	Pass	Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre	103 121 562	121 516 0	0 2 0	0 44 0	115 567 0	533	4	30 0	5	17 0	2 0	-14 0	-5 0	0.2 0.0	Pass Pass	Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Church Avenue west Garden Centre	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west	103 121 562 0	121 516 0	0 2 0 0	0 44 0	115 567 0	533 0	4 0 0	30 0 0	5 0 0	17 0 0	2 0 0	-14 0 0	-5 0 0	0.2 0.0 0.0	Pass Pass Pass	Pass Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue west Church Avenue East	103 121 562	121 516 0	0 2 0 0	0 44 0	115 567 0	533 0	4	30 0 0	5 0 0	17 0 0	2 0	-14 0 0	-5 0	0.2 0.0	Pass Pass	Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue East Church Avenue East National School	103 121 562 0 0	121 516 0 0 30	0 2 0 0	0 44 0 0	115 567 0 0 24	533 0 0 24	4 0 0 0	30 0 0	5 0 0 -6	17 0 0 -6	2 0 0 0	-14 0 0 0	-5 0 0 6	0.2 0.0 0.0 1.1	Pass Pass Pass Pass	Pass Pass Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue west Church Avenue East National School Church Avenue West	103 121 562 0 0 30	121 516 0 0 30	0 2 0 0 0	0 44 0 0 0	115 567 0 0 24	533 0 0 24 48	4 0 0	30 0 0 0 0	5 0 0 -6	17 0 0 -6	2 0 0 0	-14 0 0 0	-5 0 0 6	0.2 0.0 0.0 1.1	Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue East National School Church Avenue West School	103 121 562 0 0 30	121 516 0 0 30	0 2 0 0 0	0 44 0 0 0	115 567 0 0 24 73	533 0 0 24 48 0	4 0 0 0	30 0 0 0 0	5 0 0 -6	17 0 0 -6	2 0 0 0	-14 0 0 0 0	-5 0 0 6	0.2 0.0 0.0 1.1 0.7 0.0	Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East Church Avenue West	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue East National School Church Avenue West School Church Avenue East	103 121 562 0 0 30 79 0 520	121 516 0 0 30 70 0 483	0 2 0 0 0	0 44 0 0 0 0	115 567 0 0 24 73 0 540	533 0 0 24 48 0 506	4 0 0 0	30 0 0 0 24 0	-6 0 20	17 0 0 -6	0 0 0 0 0	-14 0 0 0 0 15 0 -4	-5 0 0 6	0.2 0.0 0.0 1.1 0.7 0.0 0.9	Pass Pass Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East Church Avenue West Church Avenue West	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue East National School Church Avenue West School Church Avenue East School Church Avenue East	103 121 562 0 30 79 0 520 231	121 516 0 0 30 70 0 483 231	0 2 0 0 0 0	9 0 34 0 0 0 0	115 567 0 0 24 73 0 540 243	533 0 0 24 48 0 506 243	4 0 0 0 0	30 0 0 0 24 0 30	-6 0 20	17 0 0 -6 -22 0 23 12	0 0 0 0 0 0	-14 0 0 0 0 15 0 -4	-5 0 0 6 6 0 -20 -12	0.2 0.0 0.0 1.1 0.7 0.0 0.9 0.7	Pass Pass Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass Pass Pass
Landfill Garden Centre Church Avenue East Church Avenue East Church Avenue west Church Avenue west Garden Centre Garden Centre Site 4 Church Ave / Sallins N Church Avenue East Church Avenue East Church Avenue West	Church Avenue East Church Avenue west Garden Centre Church Avenue East Garden Centre Church Avenue west Church Avenue East National School Church Avenue West School Church Avenue East	103 121 562 0 0 30 79 0 520	121 516 0 0 30 70 0 483 231	0 2 0 0 0	9 0 34 0 0 0 0	115 567 0 0 24 73 0 540 243	533 0 0 24 48 0 506 243 141	0 0 0 0 0 4	30 0 0 0 24 0	5 0 0 -6 -6 0 20 12 -5	17 0 0 -6	0 0 0 0 0	-14 0 0 0 0 15 0 -4 0	-5 0 0 6	0.2 0.0 0.0 1.1 0.7 0.0 0.9	Pass Pass Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass Pass Pass

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DS 2037 PM Peak Locat	tion		Obser	ved			Mode	el			Difference	е			Diffe	rence	
From	То	Total	Cars	HGV	LGV To	otal Ca	irs H	GV Ι	.GV	Total	Cars HGV			Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, Sa	allins																
R407 North	R407 South	2344	2039	74	231	2197	1915	65	216	-147	-124	-9	-15	147	3.1	Fail	Pass
R407 North	Church Avenue East	126	117 2695	103	9	127 2844	121 2514	102	6 228	1 100	4	-1	-3	-1	0.1	Pass	Pass
R407 South R407 South	R407 North Church Avenue East	3034 35	35	103	236	33	33	0	0	-190 -2	-181 -2	0	-8 0	190	3.5 0.4	Fail Pass	Pass Pass
Church Avenue East	R407 South	156	136	0	20	140	120	0	21	-16	-16	0	1	16	1.3	Pass	Pass
Church Avenue East	R407 North	25	22	0	2	22	21	0	1	-3	-1	0	-1	3	0.6	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / Chu	rch Ave (S), Sallins																
Church Avenue East	Church Avenue West	180	158	0	22	160	138	0	22	-20	-20	0	0	20	1.6	Pass	Pass
Church Avenue East	Church Avenue South	442	406	1	35	391	346	8	37	-51	-60	7	2	51	2.5	Pass	Pass
Church Avenue North	Church Avenue West	4	4	0	0	3	3	0	0	-1	-1	0	0	1	0.3	Pass	Pass
Church Avenue North	Church Avenue East	33	32	0	1	37	35	0	3	4	3	0	2	-4	0.7	Pass	Pass
Church Avenue West	Church Avenue South	15	15	0	0	15	15	0	0	0	0	0	0	0	0.1	Pass	Pass
Church Avenue West	Church Avenue East	148	139	0	9	147	142	0	6	-1	3	0	-3	1	0.1	Pass	Pass
Site 3 R407 / Church Ave (E) Church Avenue East	R407 South	154	144	0	10	122	115	0	7	-32	-29	0	-3	32	2.7	Pass	Pass
Church Avenue East	R407 North	335	298	1	36	279	242	8	29	-56	-56	7	-7	56	3.2	Pass	Pass
R407 North	Church Avenue East	9	6	0	2	7	4	0	3	-2	-2	0	1	2	0.6	Pass	Pass
R407 North	R407 South	2476	2163	74	239	2376	2071	66	239	-100	-92	-8	0	100	2.0	Fail	Pass
R407 South	Church Avenue East	36	36	0	0	33	33	0	0	-3	-3	0	0	3	0.5	Pass	Pass
R407 South	R407 North	2730	2413	104	213	2601	2308	94	199	-129	-105	-10	-14	129	2.5	Fail	Pass
Site 10 N7 South Roundabo	ut															T	
Palmerstown	Greenhill Overbridge	246	224	4	18	236	216	4	16	-10	-8	0	-2	10	0.6	Pass	Pass
Palmerstown	N7 on-slip WB	6	6	0	0	5	5	0	0	-1	-1	0	0	1	0.4	Pass	Pass
Palmerstown	Kill West	332	297	10	26	316	286	8	23	-16	-11	-2	-3	16	0.9	Pass	Pass
Palmerstown	Palmerstown Grouphill Overbridge	270	0	0	0	363	0	0	0	16	14	0	0	0	0.0	Pass	Pass
Kill West	Greenhill Overbridge	279 129	253 111	1 5	25 14	263 123	239 106	0	23 14	-16	-14 -5	-1 -1	-2 0	16	1.0	Pass	Pass
Kill West Kill West	N7 on-slip WB Kill West	129	0	0	0	0	0	0	0	-6 0	-5	0	0	6	0.6	Pass Pass	Pass Pass
Kill West	Palmerstown	515	458	16	42	499	448	14	38	-16	-10	-2	-4	16	0.0	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Greenhill Overbridge	N7 on-slip WB	86	78	3	5	75	71	1	3	-11	-7	-2	-2	11	1.2	Pass	Pass
Greenhill Overbridge	Kill West	343	311	4	29	315	291	3	21	-28	-20	-1	-8	28	1.6	Pass	Pass
Greenhill Overbridge	Palmerstown	119	116	0	4	118	116	0	2	-1	0	0	-2	1	0.1	Pass	Pass
N7 off-slip WB	Greenhill Overbridge	267	225	1	41	263	226	1	35	-4	1	0	-6	4	0.3	Pass	Pass
N7 off-slip WB	N7 on-slip WB	278	239	2	36	269	235	1	33	-9	-4	-1	-3	9	0.5	Pass	Pass
N7 off-slip WB	Kill West	31	25	0	6	32	26	0	6	1	1	0	0	-1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	641	597	4	41	614	576	3	34	-27	-21	-1	-7	27	1.1	Pass	Pass
Site 9 N7 North Roundabou							_		-								
The Paddocks	N7 Access Road	12	9	0	0	13	7 10	0	0	-1	-1	0	0	0	0.5	Pass	Pass
The Paddocks The Paddocks	N7 on-slip EB Greenhill Overbridge	13 55	51	1	2	49	46	1	1	-6	1 -5	0	-1	6	0.0	Pass Pass	Pass Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	-6	-3	0	-1	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	90	85	1	4	86	82	1	4	-4	-3	0	0	4	0.4	Pass	Pass
N7 off-slip EB	N7 on-slip EB	78	71	2	5	69	64	2	4	-9	-7	0	-1	9	1.1	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	212	187	4	22	195	171	4	20	-17	-16	0	-2	17	1.2	Pass	Pass
N7 off-slip EB	The Paddocks	6	4	0	1	4	3	0	0	-2	-1	0	-1	2	0.9	Pass	Pass
Greenhill Overbridge	N7 Access Road	534	468	5	61	513	454	3	56	-21	-14	-2	-5	21	0.9	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	N7 on-slip EB Greenhill Overbridge	253	230	0	20	239	219	0	18	-14 0	-11	0	-2 0	14 0	0.9	Pass Pass	Pass Pass
Greenhill Overbridge	The Paddocks	13	10	1	1	9	8	1	1	-4	-2	0	0	4	1.2	Pass	Pass
N7 Access Road	N7 Access Road	0	0	0	0	1	1	0	0	1	1	0	0	-1	1.4	Pass	Pass
N7 Access Road	N7 on-slip EB	70	64	0		60	57	0	3	-10	-7	0	-3	10	1.3	Pass	Pass
N7 Access Road	Greenhill Overbridge	281	267	0	14	267	262	0	5	-14	-5	0	-9	14	0.8	Pass	Pass
N7 Access Road	The Paddocks	1	1	0	0	1	1	0	0	0	0	0	0	0	0.3	Pass	Pass
Site 8 N7 Access Road / Joh			-				100				100			- 10			
Church Avenue East Church Avenue East	Church Avenue West Church Avenue East	0	0	0	0	543	480	0	60	543 0	480	0	60 0	-543 0	33.0 0.0	Fail Pass	Fail Pass
Church Avenue East	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Johnstown Garden	Church Avenue West	0	0	0	0	4	0	4	0	4	0	4	0	-4	2.8	Pass	Pass
Johnstown Garden	Church Avenue East	1	1	0	0	2	2	0	0	1	1	0	0	-1	0.6	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	223	211	0	12	210	202	0	8	-13	-9	0	-4	13	0.9	Pass	Pass
Church Avenue West Site 5 Church Ave Railway B	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	0	0	0	0	172	164	0	8	172	164	0	8	-172	18.5	Fail	Fail
Church Avenue East	Church Avenue West	0	0	0	0	509	443	8	59	509	443	8	59	-509	31.9	Fail	Fail
Site 6 Kerdiffstown Road / N																	
Church Avenue west	Church Avenue East	157	149	0	8	161	153	0	8	4	4	0	0	-4	0.3	Pass	Pass
Church Avenue west	Golf Club	12	12	0	0	11	11	0	0	-1	-1	0	0	1	0.3	Pass	Pass
Golf Club Golf Club	Church Avenue East	32 0	32 0	0	0	24	24	0	0	-8	-8	0	0	8	1.5	Pass	Pass
Church Avenue East	Church Avenue west Golf Club	0	9	0	0	6	6	0	0	-3	-3	0	0	3	0.0 1.3	Pass Pass	Pass Pass
Church Avenue East	Church Avenue west	551	491	4	56	514	447	8	59	-37	-44	4	3	37	1.6	Pass	Pass
Site 7 Kerdiffstown Road / L		, ,,,,	.52			,_,		-									
Church Avenue East	Landfill	18	18	0	0	17	17	0	0	-1	-1	0	0	1	0.3	Pass	Pass
Church Avenue East	Church Avenue west	560	500	4	56	528	461	8	59	-32	-39	4	3	32	1.4	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue west	Landfill Church Avenue west	0	0	0	0	9	9	0	0	9	9	0	0	-9	4.2	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue west Church Avenue East	0 189	0 180	0	9	0 174	0 167	0	0	-15	-13	0	-1	0 15	0.0 1.1	Pass Pass	Pass Pass
Landfill	Landfill	189	180	0	0	0	0	0	0	-15	-13	0	-1 0	0	0.0	Pass	Pass
Landfill	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Landfill	Church Avenue East	24	24	0	0	36	36	0	0	12	12	0	0	-12	2.1	Pass	Pass
Garden Centre																	
Church Avenue East	Church Avenue west	569	497	6	66	544	480	4	60	-25	-17	-2	-6	25	1.0	Pass	Pass
Church Avenue East	Garden Centre	64	64	0	0	61	61	0	0	-3	-3	0	0	3	0.4	Pass	Pass
Church Avenue west	Church Avenue East	223	211	0	12	212	204	0	8	-11	-7	0	-4	11	0.7	Pass	Pass
Church Avenue west Garden Centre	Garden Centre Church Avenue west	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass Pass	Pass Pass
	Church Avenue West Church Avenue East	129		0	_	120	120	0	0	-	-9	0	0		0.0	Pass	Pass
Site 4 Church Ave / Sallins N		123	123	0	U	120	120	U	0	-3	J				3.0	1 455	1 400
Church Avenue East	Church Avenue West	575	513	4	59	507	441	8	59	-68	-72	4	0	68	2.9	Pass	Pass
Church Avenue East	School	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue East	169	159	0	10	172	164	0	8	3	5	0	-2	-3	0.2	Pass	Pass
Church Avenue West	School	12	12	0	0	12	12	0	0	0	0	0	0	0	0.0	Pass	Pass
School	Church Avenue West	47	47	0	0	44	0	0	0	-3	-3	0	0	3	0.5	Pass	Pass
School	Church Avenue East	U	0	0	0	0	U	0	0	0	0	0	0	0	0.0	Pass	Pass

Locat		Taral	Obse		101	T-1-1	Мо		6) (Difference	1.01	D:((nce (%)	losu.
From Site 1 R407 / Church Ave, Sa	To Ilins	Total	Cars	HGV	LGV	Total Ca	irs	HGV L	GV	Total Cars	HGV	LGV	Difference	GEH	Flow	GEH
R407 North	R407 South	2043	1761	112		2038	1748	109	182	-5	-13	-3 12	5	0.1	Pass	Pass
R407 North	Church Avenue East	396		2	15	404	391	2	11	8	12	0 -4		0.4	Pass	Pass
R407 South R407 South	R407 North Church Avenue East	1670 93	1361 88	111	198 5	1701 93	1384 89	110	207 5	31 0	23 1	-1 9 0 0		0.8	Pass Pass	Pass Pass
Church Avenue East	R407 South	45	44	0	1	46	45	0	1	1	1	0 0	-1	0.1	Pass	Pass
Church Avenue East	R407 North	8		0	0	7	7	0	0	-1 0	-1	0 0		0.4	Pass	Pass
Church Avenue East Site 2 Church Ave (W) / Chu	Church Avenue East rch Ave (S), Sallins	U	0	0	0	U	U	U	U	U	0	0 0	U	0.0	Pass	Pass
Church Avenue East	Church Avenue West	44		0	0	43	43	l	0	-1	-1	0 0		0.2	Pass	Pass
Church Avenue East	Church Avenue South	139		0	5	147 10	120 9	0	23	8	-12	2 18		0.7	Pass	Pass
Church Avenue North Church Avenue North	Church Avenue West Church Avenue East	159	148	1	10	191	177	2	13	2 32	2 29	0 0		2.4	Pass Pass	Pass Pass
Church Avenue West	Church Avenue South	27		0		27	26		1	0	0	0 0	-	0.0	Pass	Pass
Church Avenue West Site 3 R407 / Church Ave (E)	Church Avenue East	460	440	2	18	479	462	2	15	19	22	0 -3	-19	0.9	Pass	Pass
Church Avenue East	R407 South	82	79	1	2	81	72	2	7	-1	-7	1 5	1	0.1	Pass	Pass
Church Avenue East	R407 North	90		1	6	94	75	2	16	4	-8	1 10		0.4	Pass	Pass
R407 North R407 North	Church Avenue East R407 South	2080	13 1796	0 112	_	17 2104	15 1810		2 183	3 24	2 14	0 1		0.8	Pass Pass	Pass Pass
R407 South	Church Avenue East	186		112	13	184	171	2	12	-2	-1	1 -1		0.5	Pass	Pass
R407 South	R407 North	1681	1382	107	192	1701	1397	108	196	20	15	1 4	-20	0.5	Pass	Pass
Site 10 N7 South Roundabou Palmerstown	ut Greenhill Overbridge	321	299	1	21	325	303	1	20	4	4	0 -1	-4	0.2	Pass	Pass
Palmerstown	N7 on-slip WB	1	1	0		1	1	0	0	0	0	0 0		0.2	Pass	Pass
Palmerstown	Kill West	373		14	21	376	343	13	21	3	5	-1 0	-3	0.2	Pass	Pass
Palmerstown Kill West	Palmerstown Greenhill Overhridge	93		<u>0</u>	0 11	95	0 83	0	0 12	0 2	0 2	0 0	-2	0.0	Pass Pass	Pass Pass
Kill West Kill West	Greenhill Overbridge N7 on-slip WB	204		1		211	195		15	7	7	0 0		0.2	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Kill West	Palmerstown Groonbill Overbridge	167		13		163	141	12	9	-4	-4	-1 0		0.3	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge N7 on-slip WB	36		<u>0</u>	0	31	0 25	3	3	0 -5	0 -3	0 0		0.0	Pass Pass	Pass Pass
Greenhill Overbridge	Kill West	236	198	7	31	228	197	6	24	-8	-1	-1 -7		0.5	Pass	Pass
Greenhill Overbridge	Palmerstown	45		0		47	44	0	3	2	4	0 -2		0.3	Pass	Pass
N7 off-slip WB N7 off-slip WB	Greenhill Overbridge N7 on-slip WB	42 33		6 0	9	42 36	25 31	7	10 6	0 3	-2 2	1 1	-3	0.0	Pass Pass	Pass Pass
N7 off-slip WB	Kill West	42		0	7	41	33	0	8	-1	-2	0 1	1	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	139	116	3	20	142	118	3	21	3	2	0 1	-3	0.3	Pass	Pass
Site 9 N7 North Roundabout The Paddocks	N7 Access Road	2	1	0	1	1	1	О	0	-1	0	0 -1	1	0.8	Pass	Pass
The Paddocks	N7 on-slip EB	6		0	3	5	3	0	2	-1	0	0 -1		0.4	Pass	Pass
The Paddocks	Greenhill Overbridge	4	2	0	2	4	2	0	2	0	0	0 0	0	0.0	Pass	Pass
The Paddocks N7 off-slip EB	The Paddocks N7 Access Road	62	_	0	10	0 58	0 47		0 11	0 -4	0 -5	0 0	0 4	0.0	Pass Pass	Pass Pass
N7 off-slip EB	N7 on-slip EB	88		0		81	71	0	9	- -7	-6	0 -2		0.8	Pass	Pass
N7 off-slip EB	Greenhill Overbridge	132	113	7	12	122	105		11	-10	-8	-1 -1		0.9	Pass	Pass
N7 off-slip EB Greenhill Overbridge	The Paddocks N7 Access Road	5 111	96	<u>0</u>	11	116	99	0	0 13	-1 5	0 3	0 -1		0.5	Pass Pass	Pass Pass
Greenhill Overbridge	N7 on-slip EB	306		2		307	280		25	1	2	0 -1		0.3	Pass	Pass
Greenhill Overbridge	Greenhill Overbridge	0	_	0	_	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Greenhill Overbridge N7 Access Road	The Paddocks N7 Access Road	39	31	0	6	39	32 0	t	5	0 -1	1 -1	0 -1		0.0 1.4	Pass Pass	Pass Pass
N7 Access Road	N7 on-slip EB	305	287	1	17	327	317		10	22	30	0 -7		1.2	Pass	Pass
N7 Access Road	Greenhill Overbridge	180		4	25	179	160		16	-1	9	-1 -9	1	0.1	Pass	Pass
N7 Access Road / John	The Paddocks	3	2	0	1	3	2	0	1	0	0	0 0	0	0.0	Pass	Pass
Site 8 N7 Access Road / Johr Church Avenue East	Church Avenue West	76	68	0	8	73	46	4	23	-3	-22	4 15	3	0.3	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0		0	0		0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden	0		0		0	0	0	0	0	0	0 0	-	0.0	Pass	Pass
Johnstown Garden Johnstown Garden	Church Avenue West Church Avenue East	0		0	_	0	0	0	0	0	0	0 0		0.0	Pass Pass	Pass Pass
Johnstown Garden	Johnstown Garden	0	-	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0	_	0		0	0		0	0	0	0 0		0.0	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue East Johnstown Garden	466 0		0	37 0	492 0	461 0	3	27 0	26 0	34 0	1 -10 0 0		1.2 0.0	Pass Pass	Pass Pass
Site 5 Church Ave Railway B																
Church Avenue East Church Avenue West	Church Avenue West Church Avenue East	62 424		3	8 28	63 457	36 426		23 28	1 33	-18 33	4 15 0 0		0.1 1.6	Pass Pass	Pass Pass
Site 6 Kerdiffstown Road / N		424	393	3	20	437	420	3	28	33	33	0 0	-33	1.0	Pass	P855
Church Avenue East	Church Avenue west	62		0	_	63	37		23	1	-17	4 15	-1	0.1	Pass	Pass
Church Avenue East	Golf Club	11		0		7	7	0	0	-4	-4	0 0	-	1.3	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue East Golf Club	458 10		<u>3</u>	28	444 11	413 11		28 0	-14 1	-14 1	0 0		0.7	Pass Pass	Pass Pass
Golf Club	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Golf Club	Church Avenue East	44	44	0	0	46	46	0	0	2	2	0 0	-2	0.3	Pass	Pass
Site 7 Kerdiffstown Road / L Church Avenue East	andfill Site Church Avenue west	73	65	0	8	72	44	4	23	-1	-21	4 15	1	0.1	Pass	Pass
Church Avenue East	Landfill	3		0		1	1	0	0	-1 -2	-21 -2	0 0		1.4	Pass	Pass
Church Avenue west	Church Avenue East	464		3		487	456	3	27	23	23	0 -1		1.1	Pass	Pass
Church Avenue west Landfill	Landfill Church Avenue west	0	-	0	0	0	0	0	0	0	0 0	0 0		0.0	Pass Pass	Pass Pass
Landfill	Church Avenue East	6		0		6	6	t	0	0	0	0 0		0.0	Pass	Pass
Garden Centre																
Church Avenue East Church Avenue East	Church Avenue west Garden Centre	74 102		0	22	75 99	48 99		23	1 -3	0 -3	0 1	-1 3	0.1	Pass Pass	Pass Pass
Church Avenue East Church Avenue west	Church Avenue East	466		2	·	489	459		27	-3 23	-3 32	1 -10		1.1	Pass	Pass
Church Avenue west	Garden Centre	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Garden Centre	Church Avenue West	0		0		0	0	0	0	0	0	0 0		0.0	Pass	Pass
Garden Centre Site 4 Church Ave / Sallins N	Church Avenue East lational School	25	25	0	0	23	23	0	0	-2	-2	0 0	2	0.4	Pass	Pass
Church Avenue East	Church Avenue West	62	1	0	8	62	35	4	23	0	-19	4 15	0	0.0	Pass	Pass
Church Avenue East	School	0	-	0		0	0		0	0	0	0 0		0.0	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue East School	424 195		<u>3</u>		459 211	427 211	3	28 0	35 16	34 16	0 0		1.7	Pass Pass	Pass Pass
School	Church Avenue West	123		0		127	127	0	0	4	4	0 0		0.4	Pass	Pass
School	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass

Base Model 2017 PM Pea	ak cation		Obse	erved			Model			Dif	ference			Differe	ence (%)	
From	То	Total	Cars		.GV	Total	Cars HGV	LGV		Total Cars	HGV	LGV	Difference	GEH	Flow	GEH
Site 1 R407 / Church Ave, R407 North	, Sallins R407 South	1907	1659	60	188	1906	1649	59	198	-1 -	10	-1 10	1	0.0	Pass	Pass
R407 North	Church Avenue East	100	93		7	104	99	0	5	4	6	0 -2	-4	0.4	Pass	Pass
R407 South	R407 North	2454	2180		191	2442	2145	93	203			10 12		0.2	Pass	Pass
R407 South Church Avenue East	Church Avenue East R407 South	28 126	28 110		0 16	28 122	28 104	0	0 18	0 -4	0 -6	0 0 0	<u> </u>	0.0	Pass Pass	Pass Pass
Church Avenue East	R407 North	20			2	21	19	0	2	1	1	0 0	-1	0.2	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Site 2 Church Ave (W) / C Church Avenue East	Church Ave (S), Sallins Church Avenue West	146	128		18	139	119	0	20	-7	-9	0 2	7	0.6	Pass	Pass
Church Avenue East	Church Avenue South	355	326	1	28	348	306	9	33		20	8 5	7	0.4	Pass	Pass
Church Avenue North	Church Avenue West	2	2	0	0	4	4	0	0	2	2	0 0	-2	1.2	Pass	Pass
Church Avenue North Church Avenue West	Church Avenue East Church Avenue South	26 12		1	0	29 12	26 12	0	2 0	3 0	1	0 1 0	-3 0	0.6	Pass Pass	Pass Pass
Church Avenue West	Church Avenue East	117	110		7	120	115	0	5	3	5	0 -2		0.0	Pass	Pass
Site 3 R407 / Church Ave	(E)															
Church Avenue East	R407 South	123	115		8	109	102	0	7		13	0 -1		1.3	Pass	Pass
Church Avenue East R407 North	R407 North Church Avenue East	270 7		0	29 2	250 6	215	9	27 2		25 -1	8 -2 0 0	20	1.2 0.4	Pass Pass	Pass Pass
R407 North	R407 South	2018	1763	60	195	2055	1779	60	216		16	0 21	-37	0.8	Pass	Pass
R407 South	Church Avenue East	29	29	t - t	0	26	26	0	0		-3	0 0	3	0.6	Pass	Pass
R407 South Site 10 N7 South Roundal	R407 North	2206	1950	84	172	2221	1959	85	177	15	9	1 5	-15	0.3	Pass	Pass
Palmerstown	Greenhill Overbridge	204	186	3	15	203	185	4	15	-1	-1	1 0	1	0.1	Pass	Pass
Palmerstown	N7 on-slip WB	5	5	0	0	4	4	0	0		-1	0 0	1	0.5	Pass	Pass
Palmerstown Palmerstown	Kill West	272	243	8	21 0	276 0	248	7	21 0	4 0	5	-1 0 0 0	-4 0	0.2	Pass Pass	Pass
Palmerstown Kill West	Palmerstown Greenhill Overbridge	234	212	1	21	226	205	1	20	-	-7	0 0	8	0.0	Pass	Pass Pass
Kill West	N7 on-slip WB	104	89		11	109	92	4	13	5	3	0 2	-5	0.5	Pass	Pass
Kill West	Kill West	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Kill West	Palmerstown Greenhill Overbridge	420 0	373 0	13	34	433 0	386	13 0	34 0	13 0	13	0 0	-13	0.6	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge N7 on-slip WB	67		U	0 4	64	60	1	3	-	0 -1	0 0 -1 -1	3	0.0	Pass Pass	Pass Pass
Greenhill Overbridge	Kill West	276	250		23	266	243	3	20		-7	0 -3		0.6	Pass	Pass
Greenhill Overbridge	Palmerstown	97	94		3	101	100	0	2	4	6	0 -1	-4	0.4	Pass	Pass
N7 off-slip WB N7 off-slip WB	Greenhill Overbridge N7 on-slip WB	222	187 200	<u> </u>	34 30	226 235	192 203	2	33 30	4 3	5 3	1 -1 0	-4 -3	0.3	Pass Pass	Pass Pass
N7 off-slip WB	Kill West	26	200		5	235	203	0	6	2	1	0 0	-3 -2	0.2	Pass	Pass
N7 off-slip WB	Palmerstown	537	500		34	525	492	3	30		-8	0 -4	12	0.5	Pass	Pass
Site 9 N7 North Roundab								-					_			_
The Paddocks The Paddocks	N7 Access Road N7 on-slip EB	7 11	7 8	0	3	7 11	9	0	0 2	0 0	0	0 0 0	0	0.0	Pass Pass	Pass Pass
The Paddocks	Greenhill Overbridge	44		U	2	45	42	1	2	1	1	0 0	-1	0.0	Pass	Pass
The Paddocks	The Paddocks	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
N7 off-slip EB	N7 Access Road	75			3	71	67	1	3	-4	-4	0 0	4	0.5	Pass	Pass
N7 off-slip EB N7 off-slip EB	N7 on-slip EB Greenhill Overbridge	64 176	58 155		18	60 161	54 139	3	18	•	-4 16	1 -1 0	4 15	0.5 1.2	Pass Pass	Pass Pass
N7 off-slip EB	The Paddocks	4		0	1	3	3	0	0	-15 -1	0	0 -1	1	0.5	Pass	Pass
Greenhill Overbridge	N7 Access Road	444	389	4	51	439	385	3	51	-5	-4	-1 0	5	0.2	Pass	Pass
Greenhill Overbridge	N7 on-slip EB	211	192	 	17	209	189	2	17		-3	0 0	2	0.1	Pass	Pass
Greenhill Overbridge Greenhill Overbridge	Greenhill Overbridge The Paddocks	10		0	0	0 8	7	1	0	0 -2	0 -1	0 0	2	0.0	Pass Pass	Pass Pass
N7 Access Road	N7 Access Road	3		0	1	2	1	0	0		-1 -1	0 -1	1	0.6	Pass	Pass
N7 Access Road	N7 on-slip EB	54	49	0	5	49	47	0	2	-5	-2	0 -3	5	0.7	Pass	Pass
N7 Access Road	Greenhill Overbridge	220			11	227	222	0	5		13	0 -6	-7	0.5	Pass	Pass
N7 Access Road Site 8 N7 Access Road / Jo	The Paddocks	1	1	0	0	1	1	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Church Avenue West	473	423	3	47	465	407	4	54	-8 -:	16	1 7	8	0.4	Pass	Pass
Church Avenue East	Church Avenue East	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue East	Johnstown Garden Church Avenue West	0	1	0	0	1 5	0	5	0	0	0	0 0 5	0 -5	0.0 3.2	Pass Pass	Pass Pass
Johnstown Garden Johnstown Garden	Church Avenue West Church Avenue East	1	1	0	0	3	3	0	0	2	2	0 0	-5 -2	1.4	Pass	Pass
Johnstown Garden	Johnstown Garden	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West	Church Avenue West	0		0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Church Avenue West Church Avenue West	Church Avenue East Johnstown Garden	167 0	158	0	9	171 0	164	0	7 0	4 0	6 0	0 -2 0	-4 0	0.3	Pass Pass	Pass Pass
Site 5 Church Ave Railway		0	0	U	U	U	U	U	U	, , , , , , , , , , , , , , , , , , ,	J	0	U	0.0	Fass	Fass
Church Avenue East	Church Avenue West	459	409		47	450	387	9	53		22	6 6	9	0.4	Pass	Pass
Church Avenue West	Church Avenue East	133	125	0	8	137	130	0	8	4	5	0 0	-4	0.3	Pass	Pass
Site 6 Kerdiffstown Road Church Avenue East	/ Naas Golf Club Church Avenue west	459	409	3	47	453	390	9	54	-6 -:	19	6 7	6	0.3	Pass	Pass
Church Avenue East	Golf Club	8	8		0	6	6	0	0		-2	0 0	2	0.8	Pass	Pass
Church Avenue west	Church Avenue East	150			8	126	119	0	8		23	0 0	24	2.0	Pass	Pass
Church Avenue west	Golf Club	10		t	0	10	10	0	0	0	0	0 0	0	0.0	Pass	Pass
Golf Club Golf Club	Church Avenue west Church Avenue East	0 27			0	0 29	0 29	0	0	0 2	0 2	0 0	0 -2	0.0	Pass Pass	Pass Pass
Site 7 Kerdiffstown Road			27	V	U				J					J. 1	. 400	. 400
Church Avenue East	Church Avenue west	467	417	3	47	464	402	9	54		15	6 7	3	0.1	Pass	Pass
Church Avenue East	Landfill Church Avenue Fast	6 167	6 159	0	0	4 153	4 146	0	0		-2 13	0 0	2 14	0.9	Pass	Pass
Church Avenue west Church Avenue west	Church Avenue East Landfill	167		0	0	153	0	0	0	-14 -: 0	13 0	0 -1 0	0	0.0	Pass Pass	Pass Pass
Landfill	Church Avenue west	0	0	0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Landfill	Church Avenue East	17	17	0	0	18	18	0	0	1	1	0 0	-1	0.2	Pass	Pass
Garden Centre Church Avenue East	Church Avenue west	475	415	5	55	466	409	4	54	-9	-6	-1 -1	9	0.4	Pass	Pass
Church Avenue East	Garden Centre	54	54		0	50	50	0	0		-6 -4	0 0	4	0.4	Pass	Pass
Church Avenue west	Church Avenue East	168		1	9	174	167	0	7	6	8	0 -2	-6	0.5	Pass	Pass
Church Avenue west	Garden Centre	0		0	0	0	0	0	0	0	0	0 0	0	0.0	Pass	Pass
Garden Centre Garden Centre	Church Avenue west Church Avenue East	109		0	0	0 107	0 107	0	0	U -2	υ -2	0 0	2	0.0	Pass Pass	Pass Pass
Site 4 Church Ave / Sallin		109	109	U	U	107	10/		U	-2	<u>-Z</u>	0 0		J.2	1 000	1 033
Church Avenue East	Church Avenue West	459		3	47	447	385	9	53	-12 -:	24	6 6	12	0.6	Pass	Pass
Church Avenue East	School	0			0	0	0	0	0	0	0	0 0		0.0	Pass	Pass
			175	0	8	138	131	0	Q		6	0 0	-5	0.4	Pass	Pass
Church Avenue West	Church Avenue East	133		1					0	5 0					+	+
	School Church Avenue West	10 40	10	0	0	10 41	10 41	0	0	0	0	0 0 0	0 -1	0.0	Pass Pass	Pass Pass

Environmental Impact Assessment Report (EIAR) Volume 4 of 4: Appendices



Appendix A14.2 TRICS Output Files

Calculation Reference: AUDIT-202601-161121-1103

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 07 - LEISURE Category : M - COUNTRY PARKS

VEHIĆLES

Selected regions and areas:

03 SOUTH WEST

GS GLOUCESTERSHIRE 1 days

08 NORTH WEST

LC LANCASHIRE 1 days

12 CONNAUGHT

GA GALWAY 1 days RO ROSCOMMON 1 days

13 MUNSTER

LI LIMERICK 1 days

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

Filtering Stage 2 selection:

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

Parameter: Site area

Actual Range: 16.00 to 323.00 (units: hect)
Range Selected by User: 15.20 to 560.00 (units: hect)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/08 to 12/05/12

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

Selected survey days:

Saturday 4 days Sunday 1 days

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

Selected survey types:

Manual count 5 days
Directional ATC Count 0 days

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

Selected Locations:

Free Standing (PPS6 Out of Town) 5

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

Selected Location Sub Categories:

Out of Town 5

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

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Jacobs UK Ltd 20 St Thomas Street London Licence No: 202601

Filtering Stage 3 selection:

Use Class:

Not Known 2 days D2 2 days

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

Population within 1 mile:

1,000 or Less 4 days 1,001 to 5,000 1 days

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

Population within 5 miles:

 5,000 or Less
 3 days

 5,001 to 25,000
 1 days

 125,001 to 250,000
 1 days

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

Car ownership within 5 miles:

1.1 to 1.5 4 days 1.6 to 2.0 1 days

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

Travel Plan:

No 5 days

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

LIST OF SITES relevant to selection parameters

1 GA-07-M-01 COUNTRY PARK GALWAY

GORT

NEAR GALWAY

Free Standing (PPS6 Out of Town)

Out of Town

Total Site area: 62.00 hect

Survey date: SATURDAY 06/08/11 Survey Type: MANUAL GS-07-M-01 COUNTRY PARK GLOUCESTERSHIRE

B4070

3

NEAR GLOUCESTER

Free Standing (PPS6 Out of Town)

Out of Town

Total Site area: 60.80 hect

Survey date: SUNDAY 25/04/10 Survey Type: MANUAL

LC-07-M-03 COUNTRY PARK LANCASHIRE

SKITHAM LANE

PILING PRESTON

Free Standing (PPS6 Out of Town)

Out of Town

Total Site area: 16.00 hect

Survey date: SATURDAY 12/05/12 Survey Type: MANUAL

4 LI-07-M-01 FOREST PARK LIMERICK

KILCORNAN

NEAR LIMERICK

Free Standing (PPS6 Out of Town)

Out of Town

Total Site area: 100.00 hect

Survey date: SATURDAY 25/06/11 Survey Type: MANUAL

5 RO-07-M-01 COUNTRY PARK ROSCOMMON

BOYLE

Free Standing (PPS6 Out of Town)

Out of Town

Total Site area: 323.00 hect

Survey date: SATURDAY 16/07/11 Survey Type: MANUAL

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

Jacobs UK Ltd 20 St Thomas Street London

TRIP RATE for Land Use 07 - LEISURE/M - COUNTRY PARKS

VEHICLES

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

	ARRIVALS		[DEPARTURES	ò	TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	AREA	Rate	Days	AREA	Rate	Days	AREA	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	5	112.36	0.050	5	112.36	0.020	5	112.36	0.070
08:00 - 09:00	5	112.36	0.135	5	112.36	0.057	5	112.36	0.192
09:00 - 10:00	5	112.36	0.171	5	112.36	0.105	5	112.36	0.276
10:00 - 11:00	5	112.36	0.283	5	112.36	0.151	5	112.36	0.434
11:00 - 12:00	5	112.36	0.279	5	112.36	0.265	5	112.36	0.544
12:00 - 13:00	5	112.36	0.310	5	112.36	0.251	5	112.36	0.561
13:00 - 14:00	5	112.36	0.340	5	112.36	0.233	5	112.36	0.573
14:00 - 15:00	5	112.36	0.278	5	112.36	0.237	5	112.36	0.515
15:00 - 16:00	5	112.36	0.249	5	112.36	0.285	5	112.36	0.534
16:00 - 17:00	5	112.36	0.169	5	112.36	0.335	5	112.36	0.504
17:00 - 18:00	5	112.36	0.114	5	112.36	0.322	5	112.36	0.436
18:00 - 19:00	5	112.36	0.085	5	112.36	0.158	5	112.36	0.243
19:00 - 20:00	3	133.67	0.035	3	133.67	0.067	3	133.67	0.102
20:00 - 21:00	1	323.00	0.006	1	323.00	0.037	1	323.00	0.043
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									<u> </u>
Total Rates:			2.504			2.523			5.027

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

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

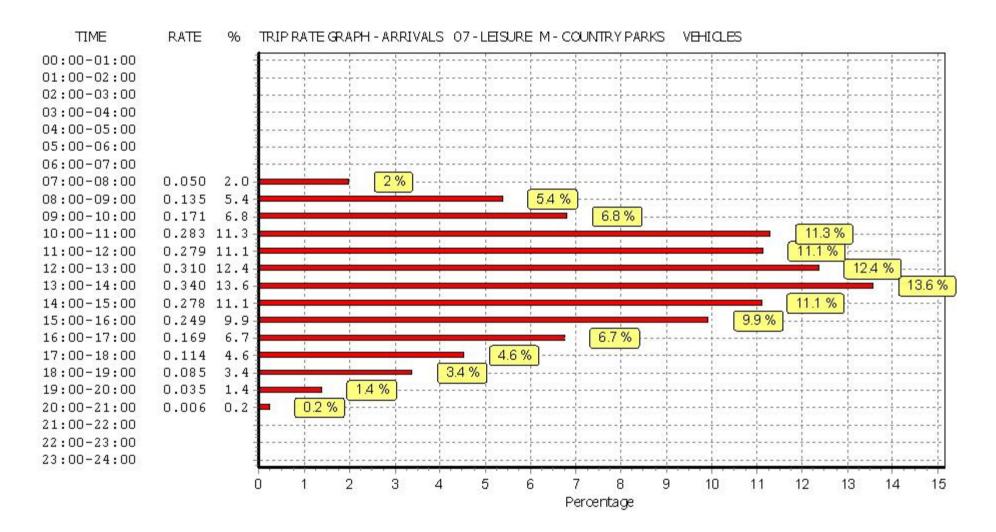
Parameter summary

Trip rate parameter range selected: 16.00 to 323.00 (units: hect)

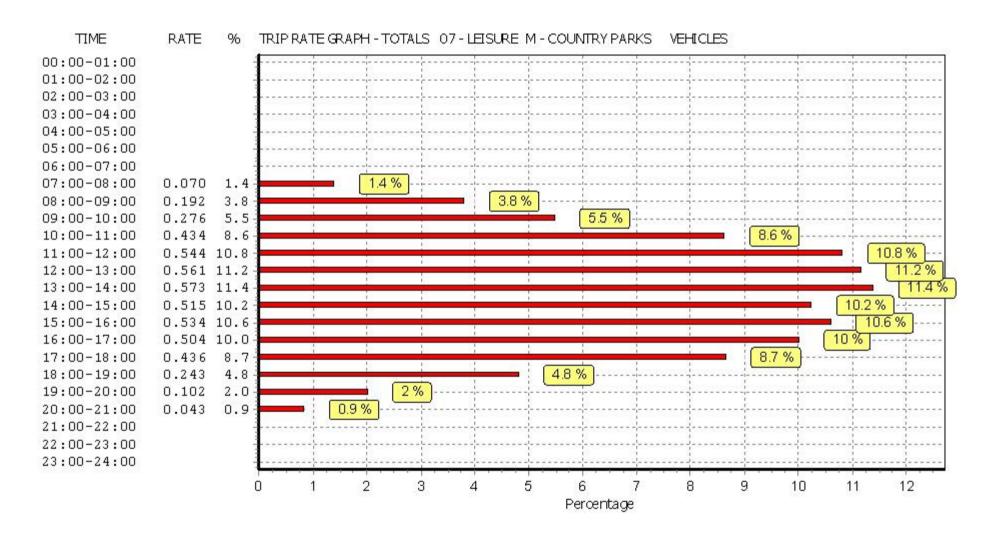
Survey date date range: 01/01/08 - 12/05/12

Number of weekdays (Monday-Friday): 0
Number of Saturdays: 4
Number of Sundays: 1
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

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







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TRIP RATE for Land Use 07 - LEISURE/M - COUNTRY PARKS

TAXIS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

	ARRIVALS			[DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	AREA	Rate	Days	AREA	Rate	Days	AREA	Rate	
00:00 - 01:00	-						-			
01:00 - 02:00										
02:00 - 03:00										
03:00 - 04:00										
04:00 - 05:00										
05:00 - 06:00										
06:00 - 07:00										
07:00 - 08:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
08:00 - 09:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
09:00 - 10:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
10:00 - 11:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
11:00 - 12:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
12:00 - 13:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
13:00 - 14:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
14:00 - 15:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
15:00 - 16:00	5	112.36	0.002	5	112.36	0.000	5	112.36	0.002	
16:00 - 17:00	5	112.36	0.000	5	112.36	0.002	5	112.36	0.002	
17:00 - 18:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
18:00 - 19:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000	
19:00 - 20:00	3	133.67	0.000	3	133.67	0.000	3	133.67	0.000	
20:00 - 21:00	1	323.00	0.000	1	323.00	0.000	1	323.00	0.000	
21:00 - 22:00										
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			0.002			0.002			0.004	

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

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

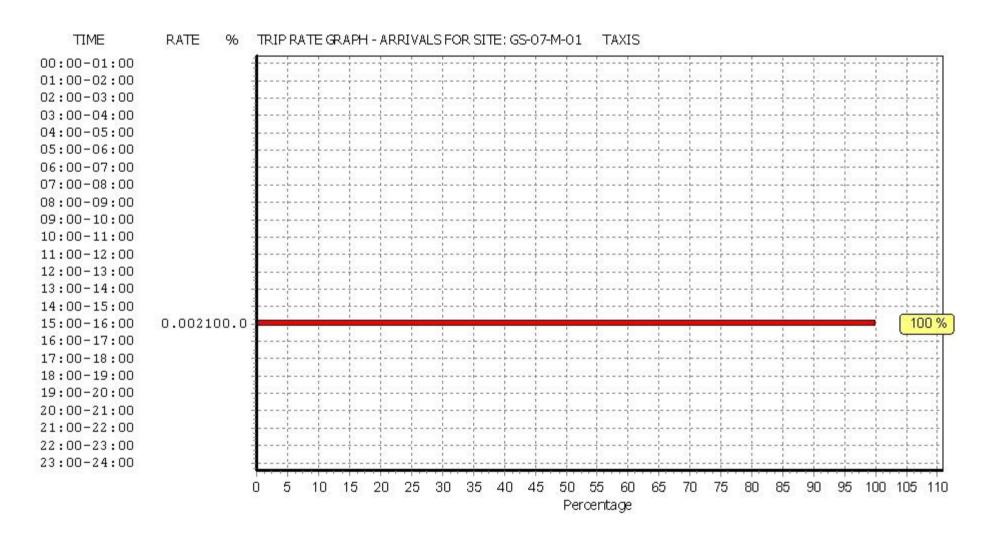
Parameter summary

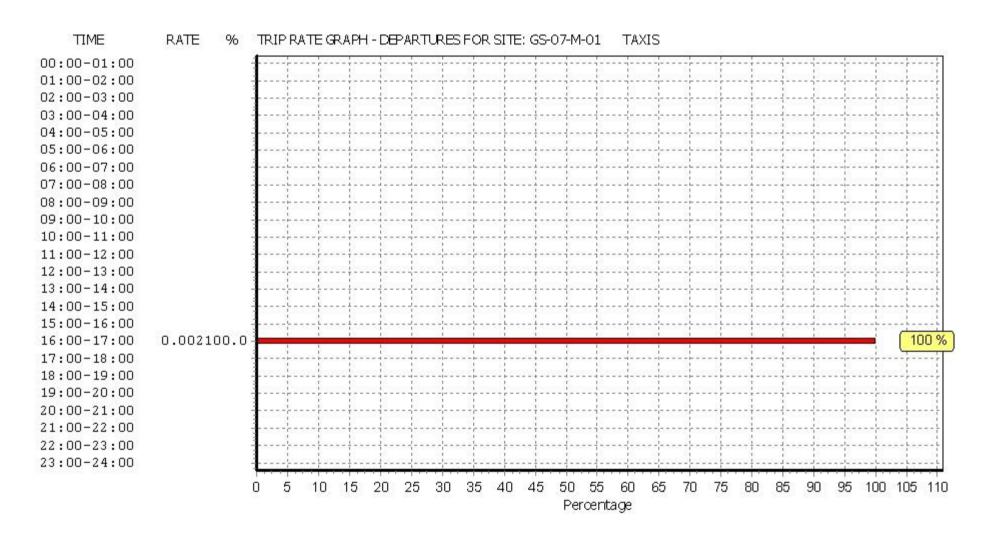
Trip rate parameter range selected: 16.00 to 323.00 (units: hect)

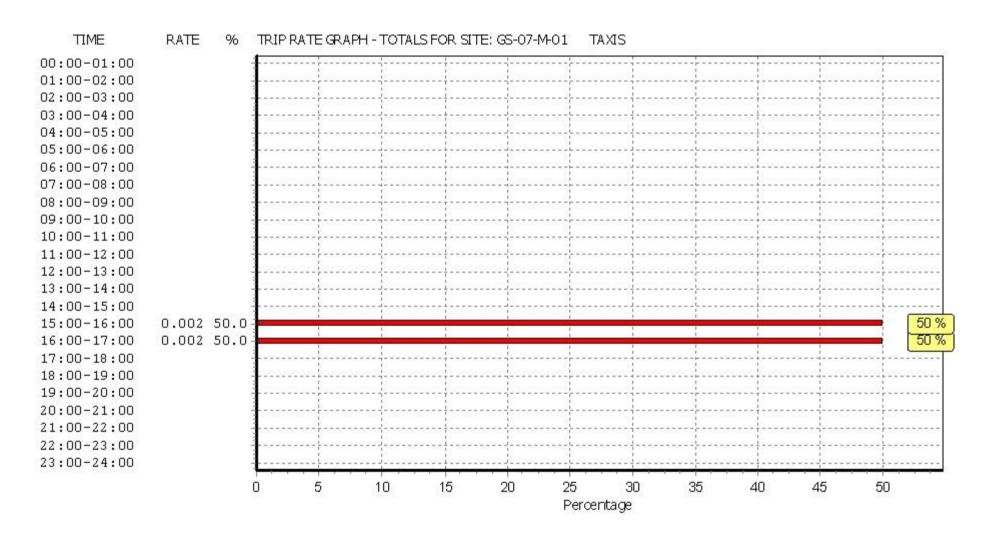
Survey date date range: 01/01/08 - 12/05/12

Number of weekdays (Monday-Friday): 0
Number of Saturdays: 4
Number of Sundays: 1
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

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







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TRIP RATE for Land Use 07 - LEISURE/M - COUNTRY PARKS

OGVS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

		ARRIVALS		[DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	AREA	Rate	Days	AREA	Rate	Days	AREA	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
08:00 - 09:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
09:00 - 10:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
10:00 - 11:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
11:00 - 12:00	5	112.36	0.002	5	112.36	0.002	5	112.36	0.004
12:00 - 13:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
13:00 - 14:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
14:00 - 15:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
15:00 - 16:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
16:00 - 17:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
17:00 - 18:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
18:00 - 19:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
19:00 - 20:00	3	133.67	0.000	3	133.67	0.000	3	133.67	0.000
20:00 - 21:00	1	323.00	0.000	1	323.00	0.000	1	323.00	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									<u> </u>
Total Rates:			0.002			0.002			0.004

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

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

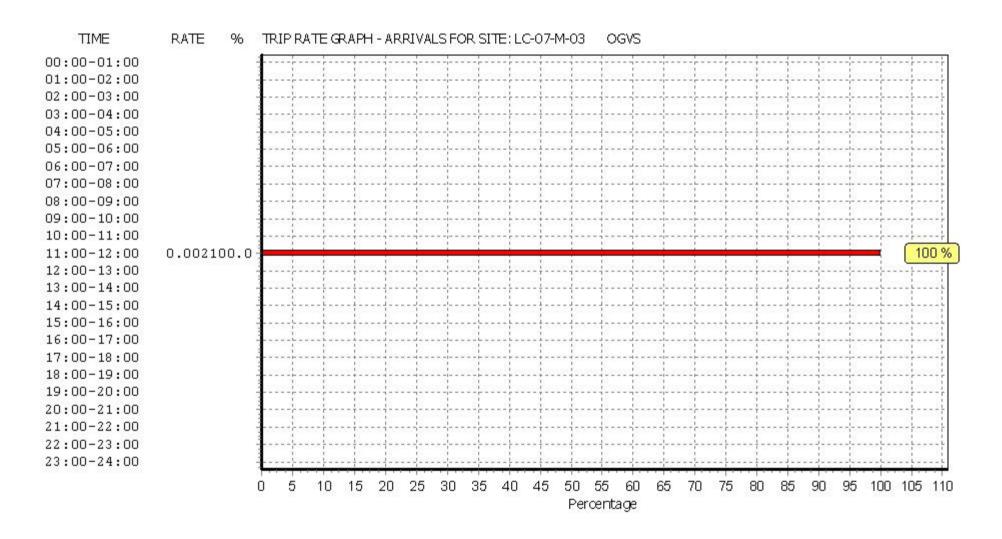
Parameter summary

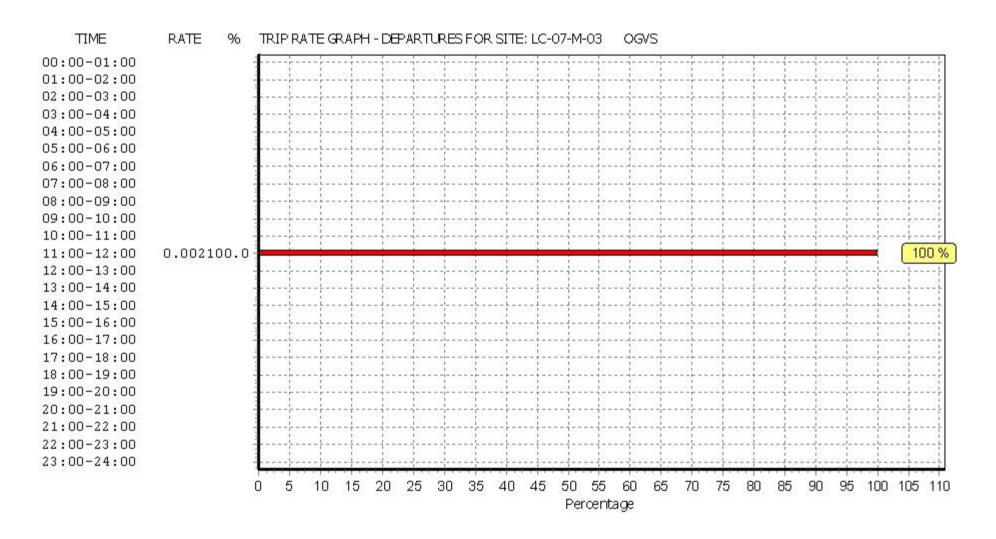
Trip rate parameter range selected: 16.00 to 323.00 (units: hect)

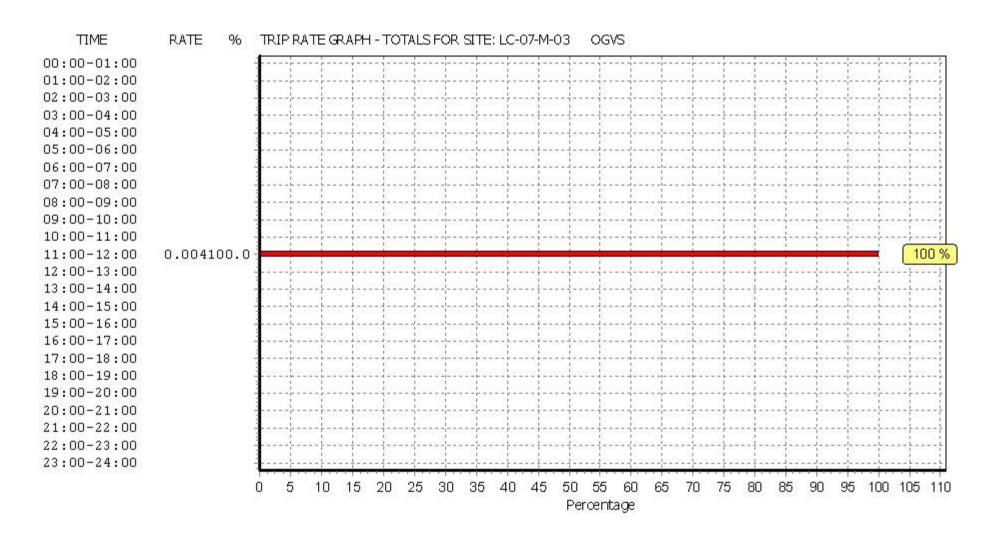
Survey date date range: 01/01/08 - 12/05/12

Number of weekdays (Monday-Friday): 0
Number of Saturdays: 4
Number of Sundays: 1
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

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







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TRIP RATE for Land Use 07 - LEISURE/M - COUNTRY PARKS

PSVS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

		ARRIVALS		[DEPARTURES			TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	AREA	Rate	Days	AREA	Rate	Days	AREA	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
08:00 - 09:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
09:00 - 10:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
10:00 - 11:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
11:00 - 12:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
12:00 - 13:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
13:00 - 14:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
14:00 - 15:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
15:00 - 16:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
16:00 - 17:00	5	112.36	0.002	5	112.36	0.000	5	112.36	0.002
17:00 - 18:00	5	112.36	0.000	5	112.36	0.002	5	112.36	0.002
18:00 - 19:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
19:00 - 20:00	3	133.67	0.000	3	133.67	0.000	3	133.67	0.000
20:00 - 21:00	1	323.00	0.000	1	323.00	0.000	1	323.00	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.002			0.002			0.004

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

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Parameter summary

Trip rate parameter range selected: 16.00 to 323.00 (units: hect)

Survey date date range: 01/01/08 - 12/05/12

Number of weekdays (Monday-Friday):

Number of Saturdays:

Number of Sundays:

Surveys automatically removed from selection:

Surveys manually removed from selection:

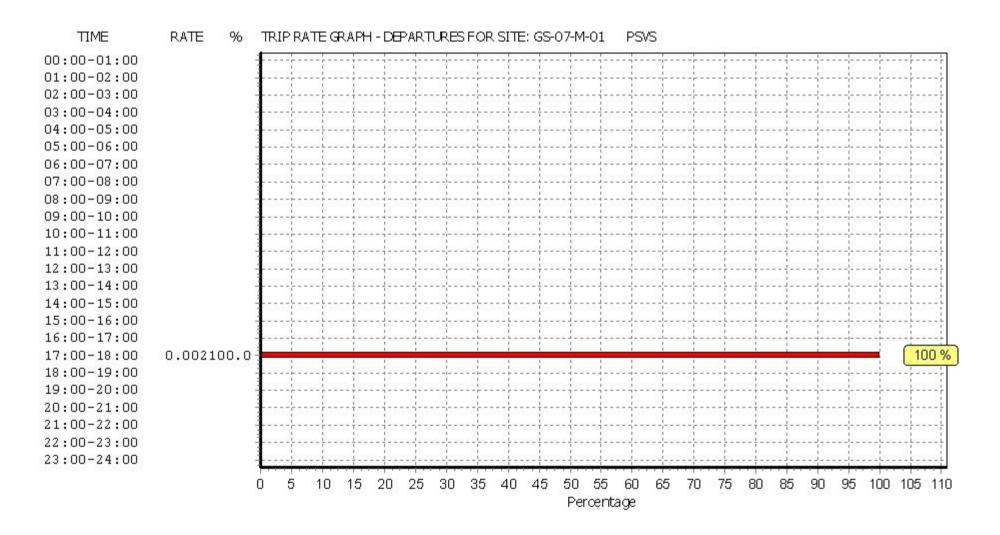
0

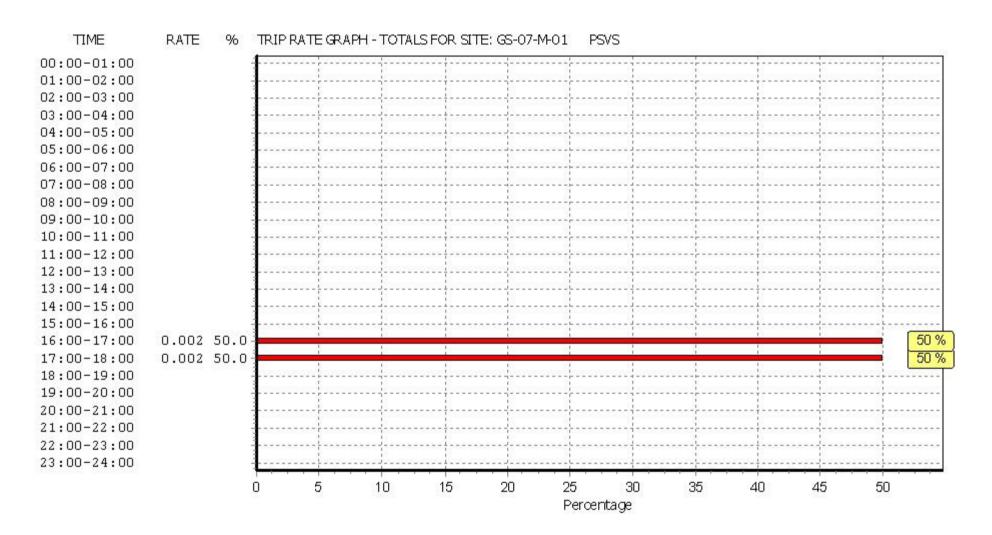
This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected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

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TIME RATE TRIP RATE GRAPH - ARRIVALS FOR SITE: GS-07-M-01 **PSVS** 00:00-01:00 01:00-02:00 02:00-03:00 03:00-04:00 04:00-05:00 05:00-06:00 06:00-07:00 07:00-08:00 08:00-09:00 09:00-10:00 10:00-11:00 11:00-12:00 12:00-13:00 13:00-14:00 14:00-15:00 15:00-16:00 100 % 16:00-17:00 0.002100.0 17:00-18:00 18:00-19:00 19:00-20:00 20:00-21:00 21:00-22:00 22:00-23:00 23:00-24:00 20 25 30 35 40 45 50 55 60 65 70 15 75 80 85 90 95 100 105 110 Percentage

Licence No: 202601





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TRIP RATE for Land Use 07 - LEISURE/M - COUNTRY PARKS CYCLISTS

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

		ARRIVALS		[DEPARTURES	ò		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	AREA	Rate	Days	AREA	Rate	Days	AREA	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
08:00 - 09:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
09:00 - 10:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
10:00 - 11:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
11:00 - 12:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
12:00 - 13:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
13:00 - 14:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
14:00 - 15:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
15:00 - 16:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
16:00 - 17:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
17:00 - 18:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
18:00 - 19:00	5	112.36	0.000	5	112.36	0.000	5	112.36	0.000
19:00 - 20:00	3	133.67	0.000	3	133.67	0.000	3	133.67	0.000
20:00 - 21:00	1	323.00	0.000	1	323.00	0.000	1	323.00	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.000			0.000			0.000

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

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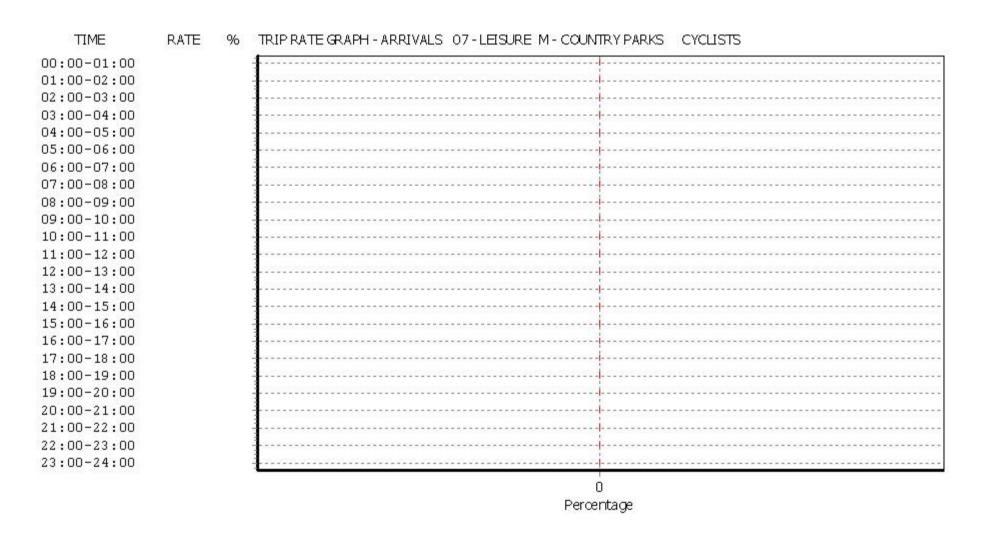
Parameter summary

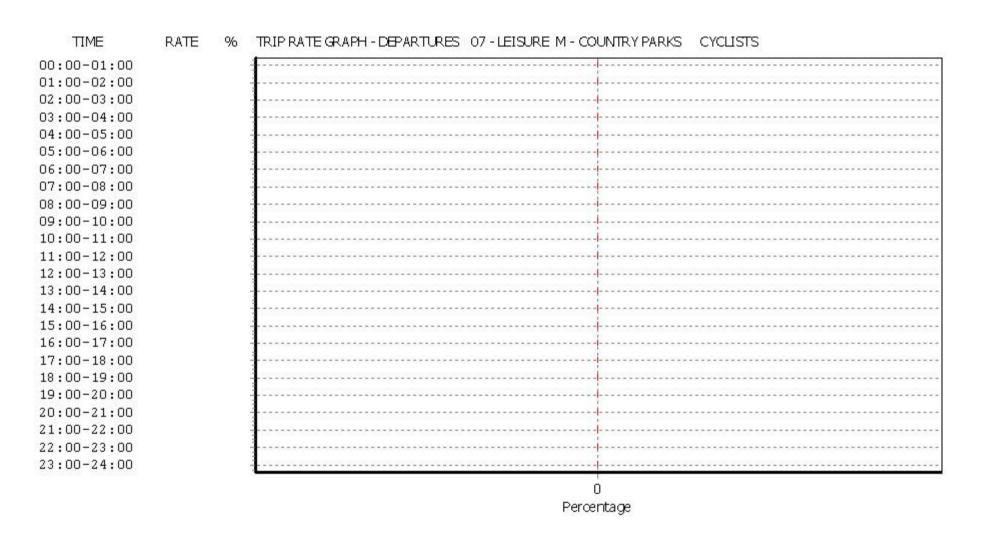
Trip rate parameter range selected: 16.00 to 323.00 (units: hect)

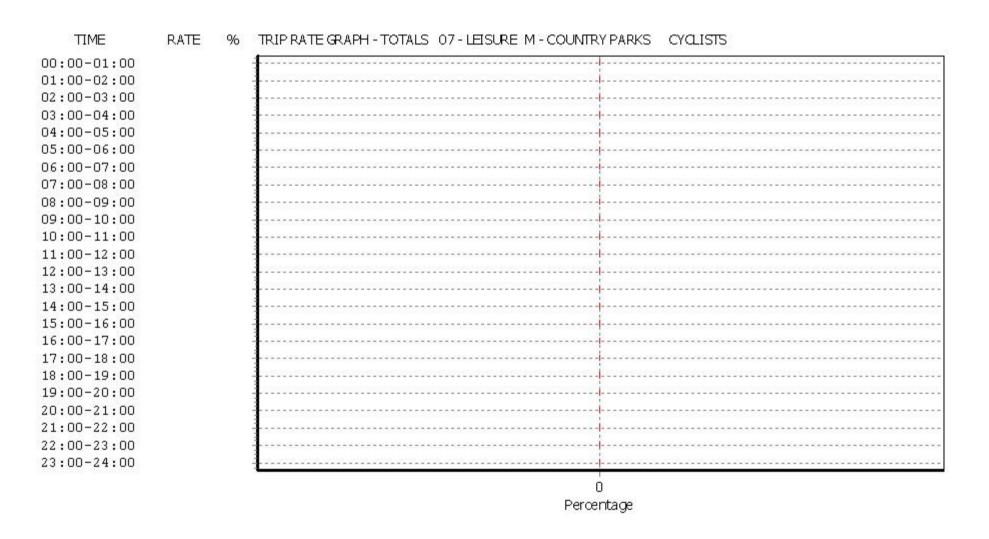
Survey date date range: 01/01/08 - 12/05/12

Number of weekdays (Monday-Friday): 0
Number of Saturdays: 4
Number of Sundays: 1
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

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







Environmental Impact Assessment Report (EIAR) Volume 4 of 4: Appendices



Appendix A14.3 Road Safety Audit

Title: STAGE 1 ROAD SAFETY AUDIT



Kerdiffstown Landfill Remediation Project

Co. Kildare

Client: Jacobs

Date: March 2017

Report reference: 0308R01

VERSION: FINAL

Prepared By:

Bruton Consulting Engineers Ltd

Glaspistol Tel: 041 9881456

Clogherhead Mob: 086 8067075

Drogheda E: admin@brutonceng.ie

Co. Louth. W: www.brutonceng.ie

STAGE 1 RSA — KERDIFFSTOWN JACOBS



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1.0 Introduction

This report was prepared in response to a request from Ms. Sharon Sugrue of Jacobs for a Stage 1 Road Safety Audit of the proposed 3 arm roundabout and link roads to the former landfill site at Kerdiffstown, Co. Kildare.

The Road Safety Audit Team comprised of;

Team Leader: Norman Bruton, BE CEng FIEI, Cert Comp RSA, MSoRSA

TII approval number: NB 168446

Team Member: Owen O'Reilly, B.SC. Eng Dip Struct. Eng NCEA Civil Dip Civil. Eng CEng MIEI

TII Auditor Approval number: 001291756

The Road Safety Audit comprised an examination of the information provided and a site visit by the Audit Team, together on the 30th March 2017.

The weather at the time of the site visit was dry and the road surface was wet.

This Stage 1 Road Safety Audit has been carried out generally in accordance with the requirements of TII DMRB HD 19/15 Road Safety Audits. (TII Publication Number GE-STY-01024)

The scheme has been examined and this report compiled in respect of the consideration of those matters that have an adverse effect on road safety. It has not been examined or verified for compliance with any other standards or criteria.

The problems identified in this report are considered to require action in order to improve the safety of the scheme for road users.

If any of the recommendations within this safety audit report are not accepted, a written response is required, stating reasons for non-acceptance. Comments made within the report under the heading of Observation are intended to be for information only. Written responses to Observations are not required.

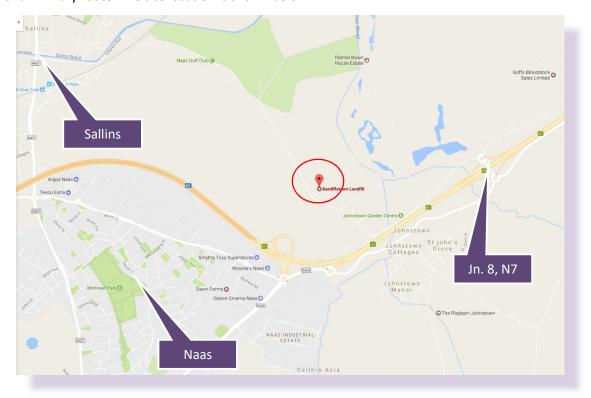
The information supplied is listed in Appendix A.

No previous road safety audits were carried out on this scheme.



2.0 Background

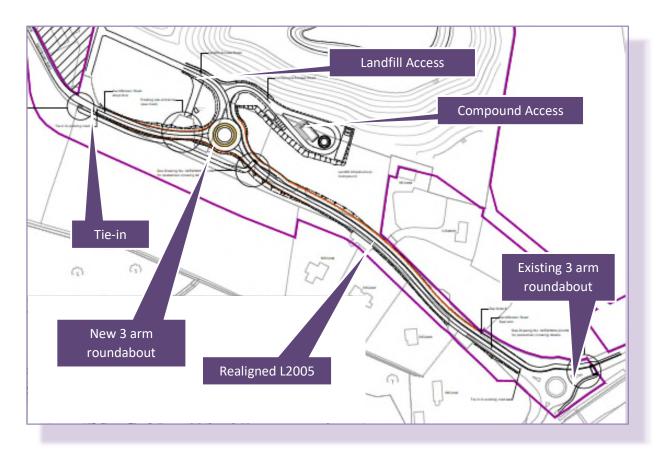
The site of the previous landfill at Kerdiffstown Co. Kildare is proposed to be remediated. It is proposed thereafter to redevelop the site as an amenity area. This Stage 1 Road Safety Audit is required as part of the design process for a new site access. The remediation process will require the importation of a substantial quantity of material using heavy goods vehicles. The site is located off the L2005 Kerdiffstown Road which links Sallins and Johnstown via the grade separated Junction 8 on the N7 National Primary route. The site location is shown below.



Site Location Map – image courtesy of Google

The extents of the site (site for road safety audit purposes) includes a proposed 3 arm roundabout into the site, realignment of the L2005 between the existing 3 arm roundabout south west of Johnstown Garden Centre, realignment of, and tie-in with the existing L2005 to the northwest of the site, the provision of shared use cycle/pedestrian facilities, provision of a new access road to the landfill and the compound and other ancillary works. The site extents for the purposes of the road safety audit are shown below.

STAGE 1 RSA — KERDIFFSTOWN JACOBS



Site Extents Map

The Road Safety Authority's website (http://www.rsa.ie/RSA/Road-Safety/Our-Research/Collision-Statistics/Ireland-Road-Collisions/) indicates that there were no reported collisions along this section of the L2005 between 2005 and 2013.

Historic collision data provided by Jacobs was as follows;

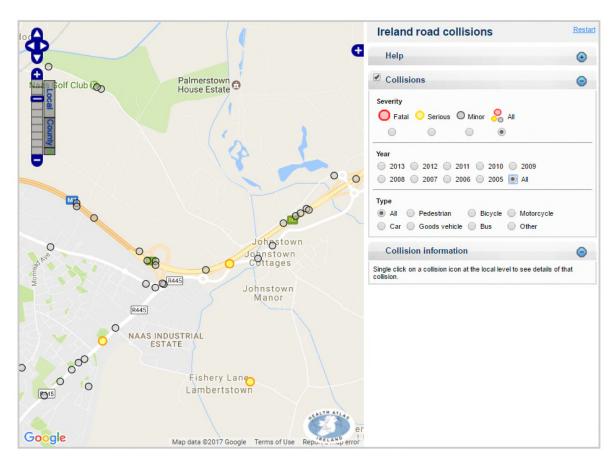
'A review of NRA collision statistics was undertaken for the previous five years, on the roads in the immediate vicinity of the proposed Project, which identified the following accidents:

- Minor accident on Kerdiffstown Road, north of proposed site access, in the vicinity of the railway bridge; and
- Minor accident on N7 Eastbound, at Junction 8 off-slip.

Given that only a small number of minor accidents have occurred in the vicinity of the proposed Project, none of which are linked to operations at the site, it is clear that there are no existing accident or safety issues based on these statistics.'



reland Road Collisions



Screenshot from RSA Website.



3.0 Main Report

3.1 Problem

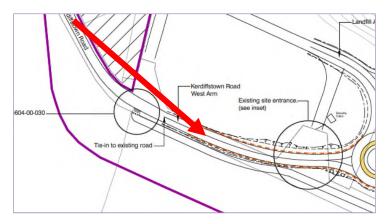
LOCATION

Drawing 32EW5604-00-029 Rev O New Site Access Proposed Road Layout and Site Observation.

PROBLEM

There is a tight horizontal radius bend on the existing L2005 Cardiff's town road to the west of the proposed realignment. There is a risk that drivers approaching from the Sallins direction will not have adequate forward visibility at this bend or to the proposed roundabout and as a result may lose control of their vehicle, collide with stationary traffic or collide with vulnerable road users.

The Audit Team are aware that at 60 km/h speed limit exists on the L2005. During the site visit it was felt that the actual speeds were in excess of the speed limit. The higher the 85th percentile speed on the road the greater the required forward visibility is.



RECOMMENDATION

It is recommended that the actual 85th percentile speed on the L2005 is determined and that realignment of the road or verge widening is provided to ensure adequate forward visibility for that speed.



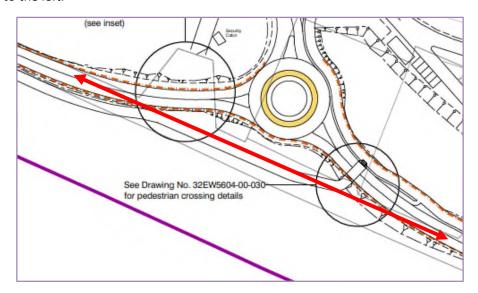
3.2 Problem

LOCATION

Drawing 32EW5604-00-029 Rev O New Site Access Proposed Road Layout

PROBLEM

It is proposed to utilise the old L2005 as a shared use footway/cycleway in the vicinity of the proposed roundabout. There is a risk that drivers approaching from the Sallins direction may sight through onto the old alignment. This may lead to loss of control when they suddenly realise that the new alignment turns to the left.



RECOMMENDATION

It is recommended that suitable screening be provided by the use of earth berms or signage or both suitably positioned so as not to become roadside hazards and to eliminate potential sight-through from both directions.

3.3 Problem

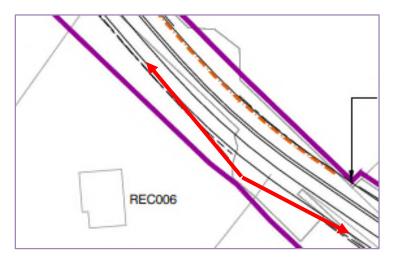
LOCATION

Drawing 32EW5604-00-029 Rev O, New Site Access Proposed Road Layout and Site Observation.

PROBLEM

It is unclear from the drawings provided the proposed accommodation works at each private access along the L2005. It was observed during the site visit that there is limited visibility at a number of the existing accesses. Insufficient visibility could lead to side impact collisions with through traffic on the L2005.







RECOMMENDATION

It is recommended that visibility splays be provided with suitable X and Y distances for the design speed of the realigned road.

3.4 Problem

LOCATION

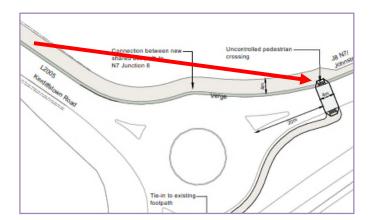
Drawing 32EW5604-00-030 Rev O, New Site Access Proposed Pedestrian Access and Cycleway & Site Observation.

PROBLEM

It is proposed to provide an informal crossing point 20 m north-east of the existing three arm roundabout. It was observed during the site visit that vehicles travelling from the Sallins direction towards Junction 8 on the N7, maintained high speed whilst on the circulating carriageway of this roundabout. This is most likely due to the alignment of the roundabout and the fact that the south-west arm leads only to private property and therefore drivers familiar with the area do not yield as they do not expect to encounter circulating traffic. There is a risk that pedestrians or cyclists crossing at the proposed location may not have adequate inter-visibility with drivers of approaching vehicles. It was also observed on site that roadside furniture and vegetation behind the existing footpath reduced visibility.

STAGE 1 RSA — KERDIFFSTOWN JACOBS







RECOMMENDATION

It is recommended that the uncontrolled pedestrian crossing is relocated closer to the roundabout, similar to the existing situation with a refuge being provided as part of the splitter island. Visibility to the northern side of the crossing point should be provided without been obscured by roadside furniture or landscaping.

3.5 Problem

LOCATION

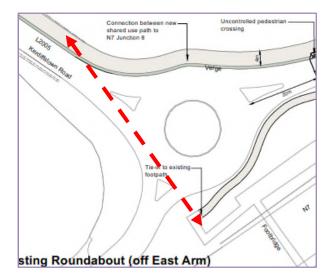
Drawing 32EW5604-00-030 Rev O, New Site Access Proposed Pedestrian Access and Cycleway & Site Observation.

PROBLEM

There is a risk that the proposed informal pedestrian crossing at the existing three arm roundabout will not cater for the desire line of pedestrians travelling from the future amenity area to the overbridge on the N7. During the site visit a pedestrian was observed walking on the south-western side of the circulating carriageway to get to the over bridge. There is a risk that pedestrians will continue to enter the carriageway if the proposed informal crossing point is moved further to the north-east than the existing crossing point. Vulnerable road users that enter the carriageway are at a greater risk of being struck by vehicles.

STAGE 1 RSA — KERDIFFSTOWN JACOBS





RECOMMENDATION

It is recommended that two additional informal crossing points are provided on the two other arms of the roundabout and that a footpath is provided in the south-western verge connecting the crossing points.

3.6 Problem

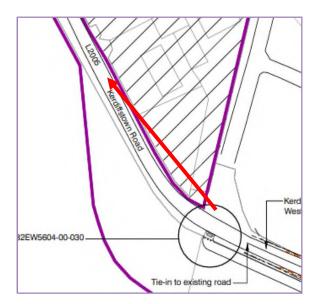
LOCATION

Drawing 32EW5604-00-029 Rev O, New Site Access Proposed Road Layout & Site Observation.

PROBLEM

It is proposed to terminate the shared use footway/cycleway at the tie-in point with the existing L2005 where there is a tight horizontal radius curve. There is a risk that pedestrians or cyclists wishing to cross the L2005 at this location will not have sufficient visibility to the right (towards Salllins) which may lead to collisions with oncoming vehicles.





RECOMMENDATION

Ensure adequate inter-visibility between drivers and vulnerable road users at this potential crossing point.

3.7 Problem

LOCATION

Drawing 32EW5604-00-030 Rev O, New Site Access Proposed Pedestrian Access and Cycleway &

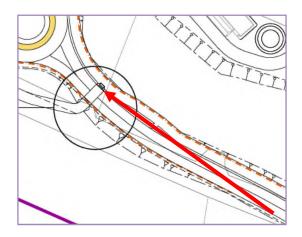
Drawing 32EW5604-00-029 Rev O, New Site Access Proposed Road Layout.

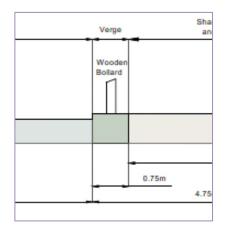
PROBLEM

It is proposed to provide wooden bollards in the verge between the carriageway and the shared use path and cycleway. There is a risk that these bollards may obscure inter-visibility between drivers approaching the proposed roundabout from the south-east and pedestrians or cyclists wishing to cross the L2005 at the informal crossing point on approach to the roundabout due to the relatively steep vertical alignment of the L2005. A lack of inter-visibility could lead to collisions with vulnerable road users.

STAGE 1 RSA — KERDIFFSTOWN JACOBS







RECOMMENDATION

Ensure that adequate inter-visibility is provided without obstruction by the bollards to a low object height of 0.6 m which could represent a child.

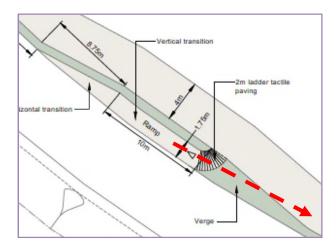
3.8 Problem

LOCATION

Drawing 32EW5604-00-030 Rev O, New Site Access Proposed Pedestrian Access and Cycleway

PROBLEM

It is proposed to provide a transition for cyclists from on-road to off-road to the south-east of the proposed roundabout. There is a risk that cyclists using this facility and wishing to continue their journey towards the existing three-armed roundabout may travel across the grassed verge and lose control of their bicycle leading to injury. In addition, the proposed ladder tactile paving may provide discomfort for cyclists.



STAGE 1 RSA — KERDIFFSTOWN JACOBS



RECOMMENDATION

Ensure that the transition caters for the desire line of south-east bound cyclists. It is also recommended that tramline tactile paving be provided for cyclists.

3.9 Problem

LOCATION

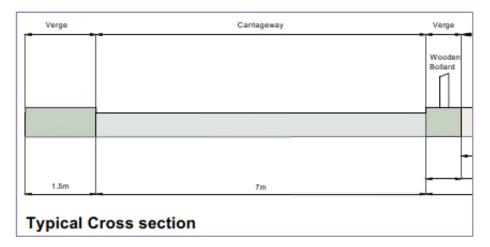
Drawing 32EW5604-00-031 Rev O, Site Access Design Profiles.

PROBLEM

It is unclear at this preliminary design stage what the exact crossfall and drainage details are for the realigned L2005. The proposed long sections for the Kerdiffstown Rd, East Arm shows at SAG in the vertical alignment at approximate chainage 25. This is followed by a relatively long vertical gradient of 0.5%.

There is a risk of surface water ponding on the carriageway surface or, of larger than acceptable water film depths on the surface if inadequate drainage is provided.

The typical cross-section indicates that the verges will be raised relative to the carriageway level. Should this be the intention the risk of surface ponding will be increased. Ponding can lead to loss of traction and loss of control in wet or icy conditions.



RECOMMENDATION

Ensure that all road surfaces are adequately drained.



4.0 Observations

4.1 Observation

It was observed during the site visit that there are a number of telecom and electrical cables crossing the L2005. It is assumed that the clearances to these cables will be checked for the revised vertical alignment.

4.2 Observation

It is assumed that an inappropriately located 'all routes' sign on approach to the existing three arm roundabout will be removed as part of the site clearance.

4.3 Observation

It was observed during the site visit that the ramp on the N7 overbridge had a slippy surface with some surface water ponding on the dwell areas. The Audit Team acknowledge that this is outside the scope of the works, however as the new amenity facility will lead to increased usage of this overbridge this issue should be brought to the attention of the Roads Authority.

4.4 Observation

It is assumed that at the detailed design stage suitable aggregate with suitable PSV will be provided on the north-west approach to the proposed roundabout taking into consideration the actual 85th percentile speed on the L2005.

4.5 Observation

It is assumed that the public lighting columns and the supports for road signs will be placed at the back of the shared use facility such that there will not reduce its effective width.

4.6 Observation

If it is intended to have 4 m wide crossing points then the dropped kerb and tactile paving should be provided over the 4 m with. Transition kerbs should be provided thereafter.

4.7 Observation

It is unclear if the realigned L2005 is to be kerbed throughout. If not it is assumed that kerbing would be provided at the vicinity of the proposed roundabout.



5.0 Audit Statement

We certify that we have examined the information provided and the site on the 30th March 2017. The examination has been carried out with the sole purpose of identifying any features of the design which could be removed or modified in order to improve the safety of the scheme.

The problems identified have been noted in this report together with associated safety improvement suggestions which we would recommend should be studied for implementation. The audit has been carried out by the persons named below who have not been involved in any design work on this scheme as a member of the Design Team.

Norman Bruton Signed: Jopen Souton

(Audit Team Leader) Dated: 25-4-2017

Owen O'Reilly Signed: Signed: Keek g

(Audit Team Member) Dated: 25-4-2017



Appendix A

List of material Supplied for this Stage 1 Road Safety Audit;

- Drawing 32EW5604-00-029 Rev O, New Site Access Proposed Road Layout.
- Drawing 32EW5604-00-030 Rev O, New Site Access Proposed Pedestrian Access and Cycleway
- Drawing 32EW5604-00-031 Rev O, Site Access Design Profiles.

Background material

- Jacobs Technical Note Road and New Site Access Design, 29th March 2017
- Details of collision history from NRA Data for last 5 years From Jacobs.
- Proposed traffic volumes during remediation phase From Jacobs.



Appendix B

Feedback Form

SAFETY AUDIT FORM – FEEDBACK ON AUDIT REPORT

Scheme: Kerdiffstown Landfill Remediation Project

Stage: 1 Road Safety Audit.

Date Audit (Site visit) Completed: 30th March 2017

Paragraph No. in Safety Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measures (describe)	Alternative measures accepted by Auditors (Yes/No)
3.1	Yes	No	Area 1 — existing bend The requirement for third party land is likely to be at a disproportionate cost to KCC to effect road realignment, hence alternatives to satisfy the 85th percentile speeds (ave 71kph) are: • Mitigation would be provided using appropriate roundabout warning signs, speed limit signs (along the entire length of the road) and SLOW markings in advance of the bend; • Existing hedgeline vegetation to be trimmed back to property boundary; • The urbanisation of the road (refer to Problem 3.6) also offers improvement and identification of change in road layout. Area 2 — new roundabout The design speed for L2005 Kerdiffstown Road is 60kph, hence the SSD for the new roundabout is sufficient to satisfy the DMURs guidance of min. 65m at this design speed. Assessment of the 85th percentile (ave 71kph) recorded north and south east of the existing junction exceeds the design guidance in DMURs and as such would require TII DMRB guidance to be utilised. The DMRB requires SSD at 120m, or with two steps below, 70m, though use of DMRB guidance would also require more significant horizontal and vertical alignments which are not achievable with the lands available. With mitigation proposed above and in Problem 3.6 with the urbanisation improvements to the road/pathway/ cycleway DMURs is considered the appropriate standard to follow hence no further actions are proposed.	YES

Paragraph No. in Safety Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measures (describe)	Alternative measures accepted by Auditors (Yes/No)
3.2	Yes	Yes	Screening requirements will be addressed during detailed design stage. Appropriate signage would also be erected to warn of new road layout / junction ahead.	
3.3	Yes	Yes	Existing vegetation will be removed as part of the site clearance works to provide requisite visibility splays.	
3.4	Yes	No	The splitter island at the current crossing location is not considered appropriate as a refuge. The proposed crossing location (c.20m from roundabout) provides the requisite forward visibility. This proposed crossing also provides for the desire line of pedestrians and cyclists travelling from the footbridge onwards to the east. For users wishing to travel onwards to Sallins/the park from the footbridge, a new crossing will be provided (see 3.5 below).	YES
3.5	Yes	Yes	A 2.2m pathway will be provided around the south side of the junction to a further crossing point located at the private drive on level grade (the third arm of the roundabout) as recommended. The pathway will extend to a further crossing point over Kerdiffstown Road, north of the existing roundabout, to meet visibility standards. Design drawing to be revised accordingly.	
3.6	Yes	Yes	The trail will be extended to the west, towards the centre of the bend to improve visibility looking north along Kerdiffstown Road, whilst maintaining visibility back towards the new roundabout. Lighting will be provided along the pathway and cycleway improving visibility of this crossing point for road users, and ease of identification in daylight hours.	
3.7	Yes	Yes	Height will not exceed 0.6m. Drawing to be revised accordingly.	

Paragraph No. in Safety Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measures (describe)	Alternative measures accepted by Auditors (Yes/No)
3.8	Yes	No	During detailed design the most effective tactile paving will be investigated, in order to clearly indicate the transition from carriageway to shared use pathway and effectively communicate this transition to cyclists and pedestrians, whilst posing no danger to either. Additionally, SLOW markings will be provided to the ramp in advance of the yield marking and low plantings (<0.6m height) or other physical barrier will be provided to the top of the ramp to keep cyclists channelized.	YES
3.9	Yes	Yes (see comment)	It is confirmed that the design will mitigate any potential drainage issues. Reference on Drawing Number 32EW5604-00-031 to be changed from Typical Cross Section to 'Indicative Conceptual Section'. This is intended to show widths only. The MX design has incorporated 2.5% adverse camber on horizontal curves over 178m radius and 2.5% superelevation on horizontal curves at 136m radius.	YES

Signed Signed	
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Date21/04/2017

Design Team Leader

Audit Team Leader

25/4/2017

Date

Date 25/4/17