Norwich - Northern Distributor Road

Major Scheme Business Case
Sensitivity Tests for DfT

Dependent Development

Volume 4 – Appendices

(Appendix E part 2)

December 2009
Norfolk County Council

Norfolk County Council

Mott MacDonald

Norwich - Northern Distributor Road

Dependent Development

Volume 4 – Appendices

(Appendix E part 2)

December 2009

Norfolk County Council

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Appendix A. List of Joint Core Strategy Housing and Business Developments and Their Location Maps

Please see Appendix Volume 2.

Appendix B. Maps Showing Location of Dependent Housing & Business Development Rev A Model Zones

Please see Appendix Volume 2.

Appendix C. Vehicle Queues, Link Cruise Time and Travel Time

Please see Appendix Volume 2.

Appendix D. Trip Totals by User Class

Please see Appendix Volume 2.

.

Appendix E. **Junction Delays**

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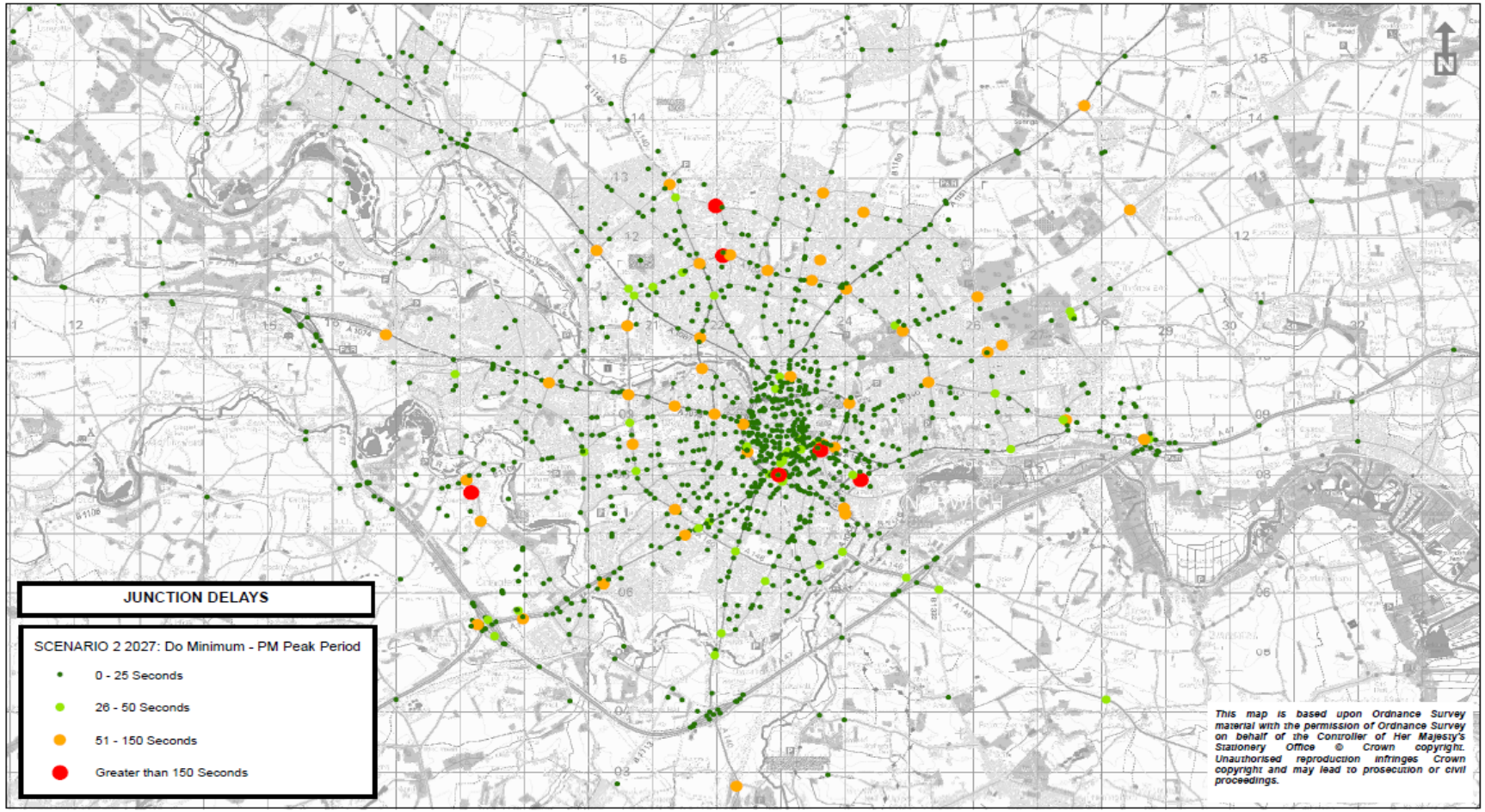
Figure 21: 2027 Scenario 2 Do Minimum Junction Delays – PM Peak



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NNDR MSBC SENSITIVITY TESTS
Junction Delay Range Plots
SCENARIO 2 (all JCS Development)
Do Minimum 2027 - PM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	-----	-----	-----
C	-----	-----	-----
D	-----	-----	-----

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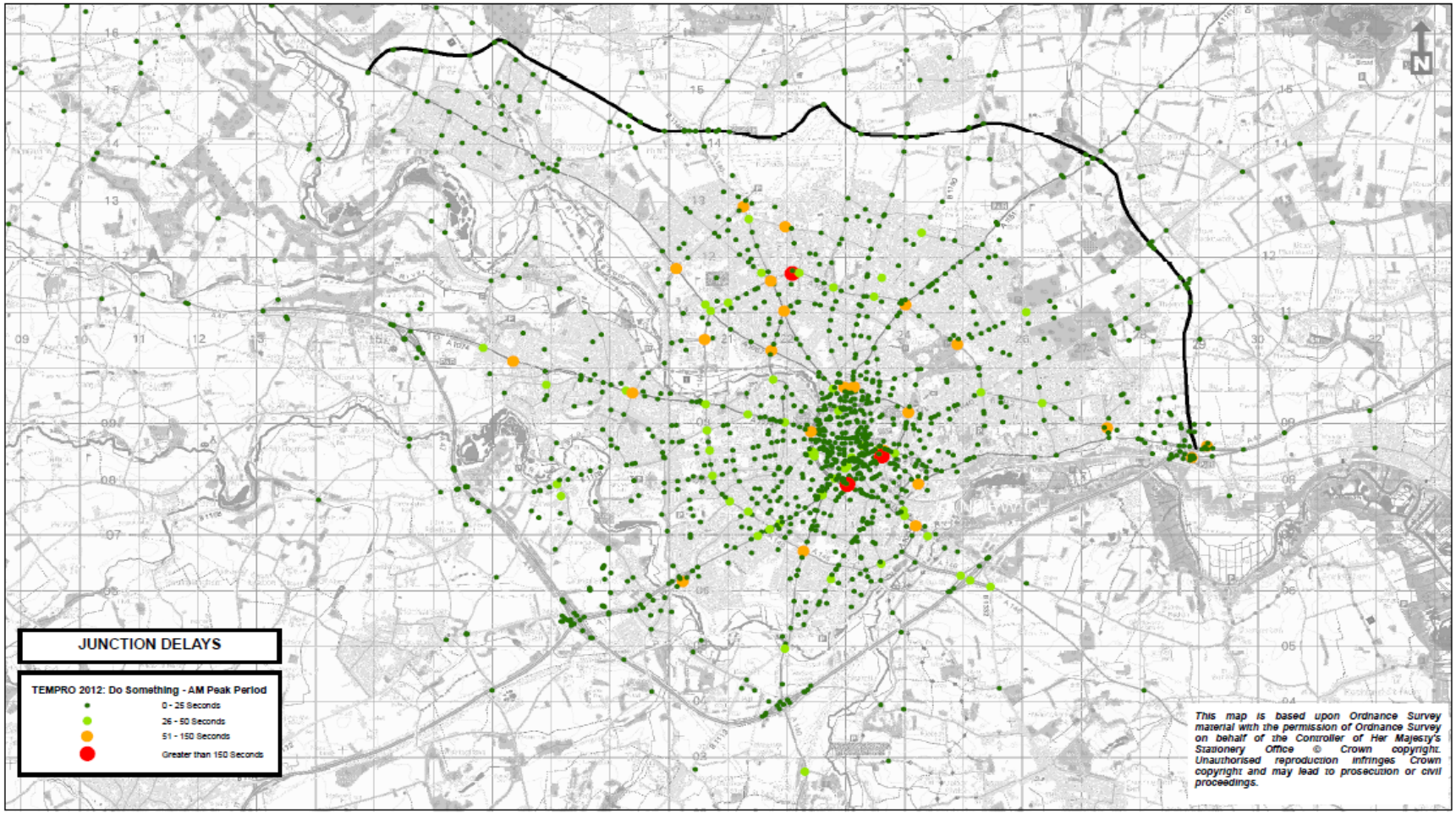
DRAWN BY	SWC	18/10/09	SCALE	FILE No.
CHECKED BY	BW	18/10/09	Not To Scale	-----
PROJECT TITLE				
NNDR MSBC				

Figure 22: 2012 TEMPRO 5.4 Do Something Junction Delays – AM Peak



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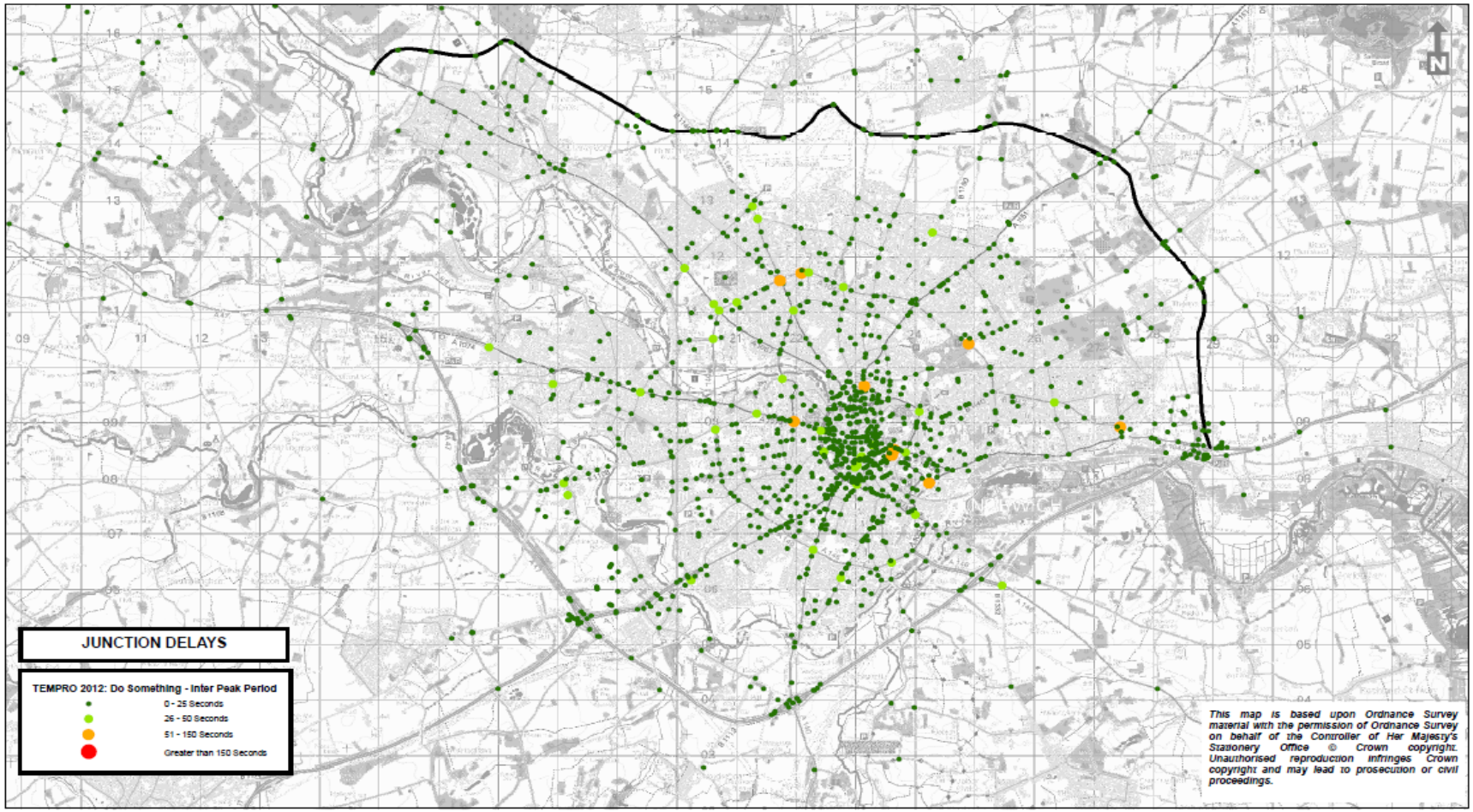
Junction Delay Range Plots
TEMPRO 5.4
Do Something 2012 - AM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	-----	-----	-----
C	-----	-----	-----
D	-----	-----	-----

	INIT.	DATE	REF: TEM_2012_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE				
NNDR MSBC				

Figure 23: 2012 TEMPRO 5.4 Do Something Junction Delays - IP



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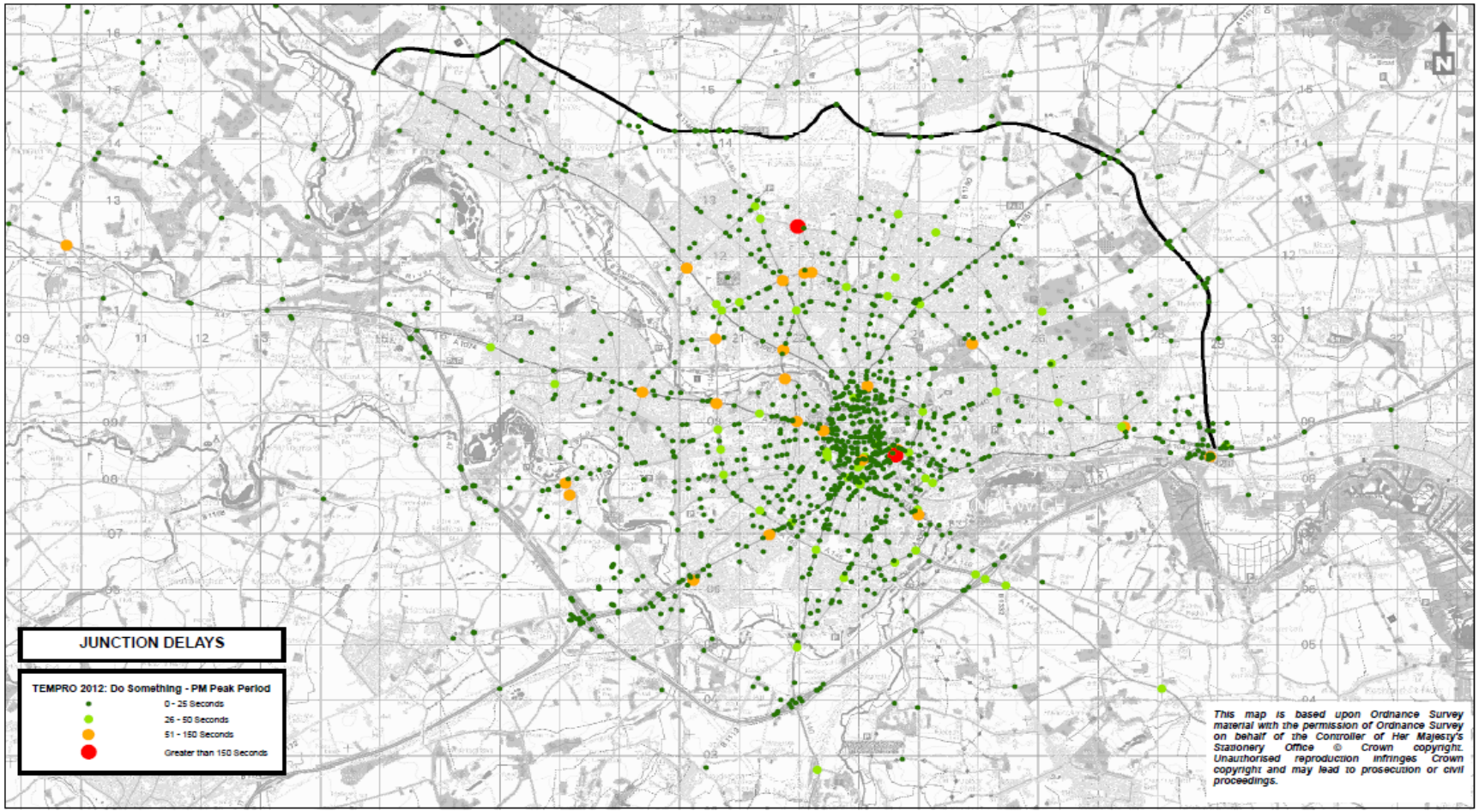
Junction Delay Range Plots
TEMPRO 5.4
Do Something 2012 - Inter Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: TEM_2012_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 24: 2012 TEMPRO 5.4 Do Something Junction Delays – PM Peak



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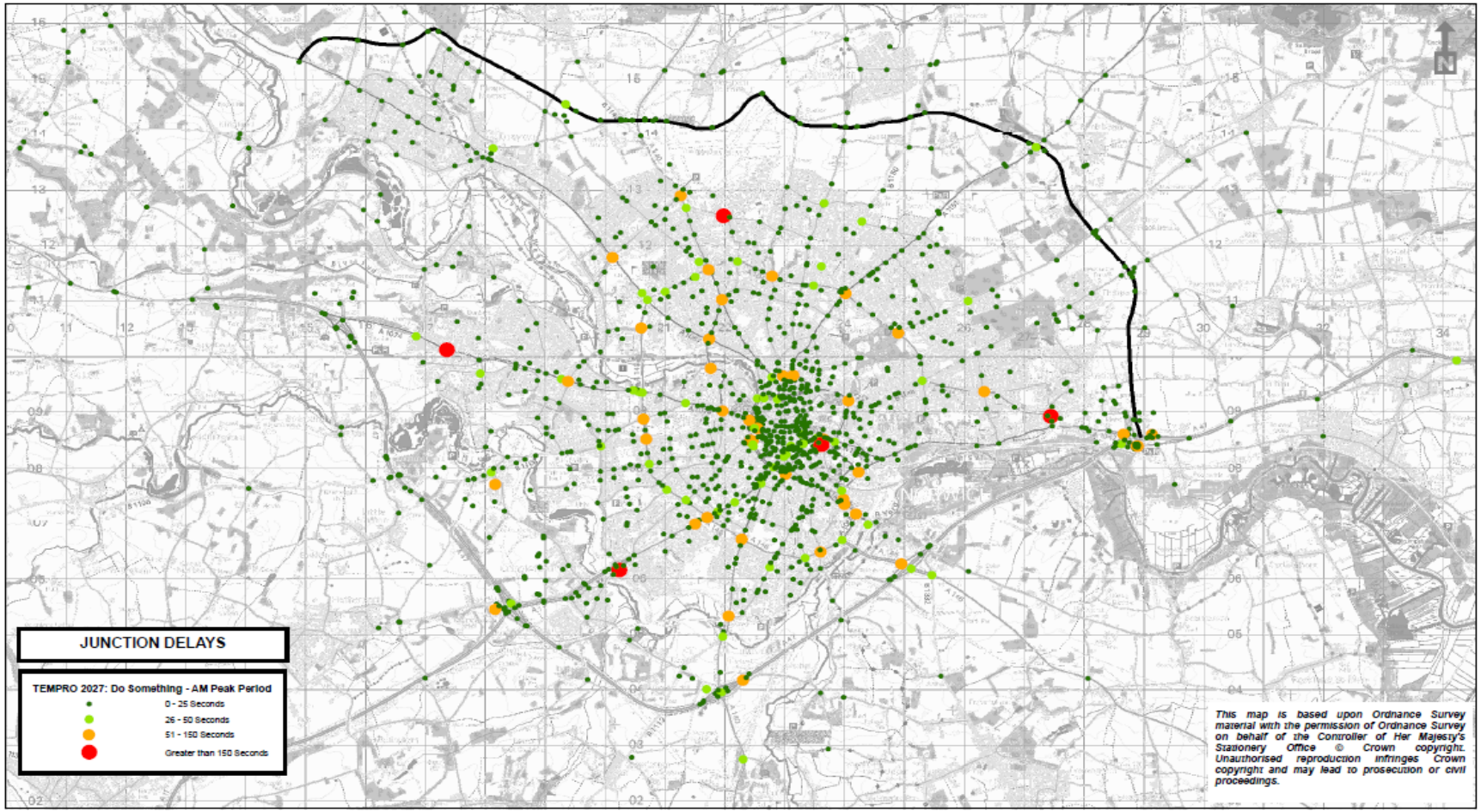
TEMPRO 5.4
Do Something 2012 - PM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: TEM_2012_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE				
NNDR MSBC				

Figure 25: 2027 TEMPRO 5.4 Do Something Junction Delays – AM Peak



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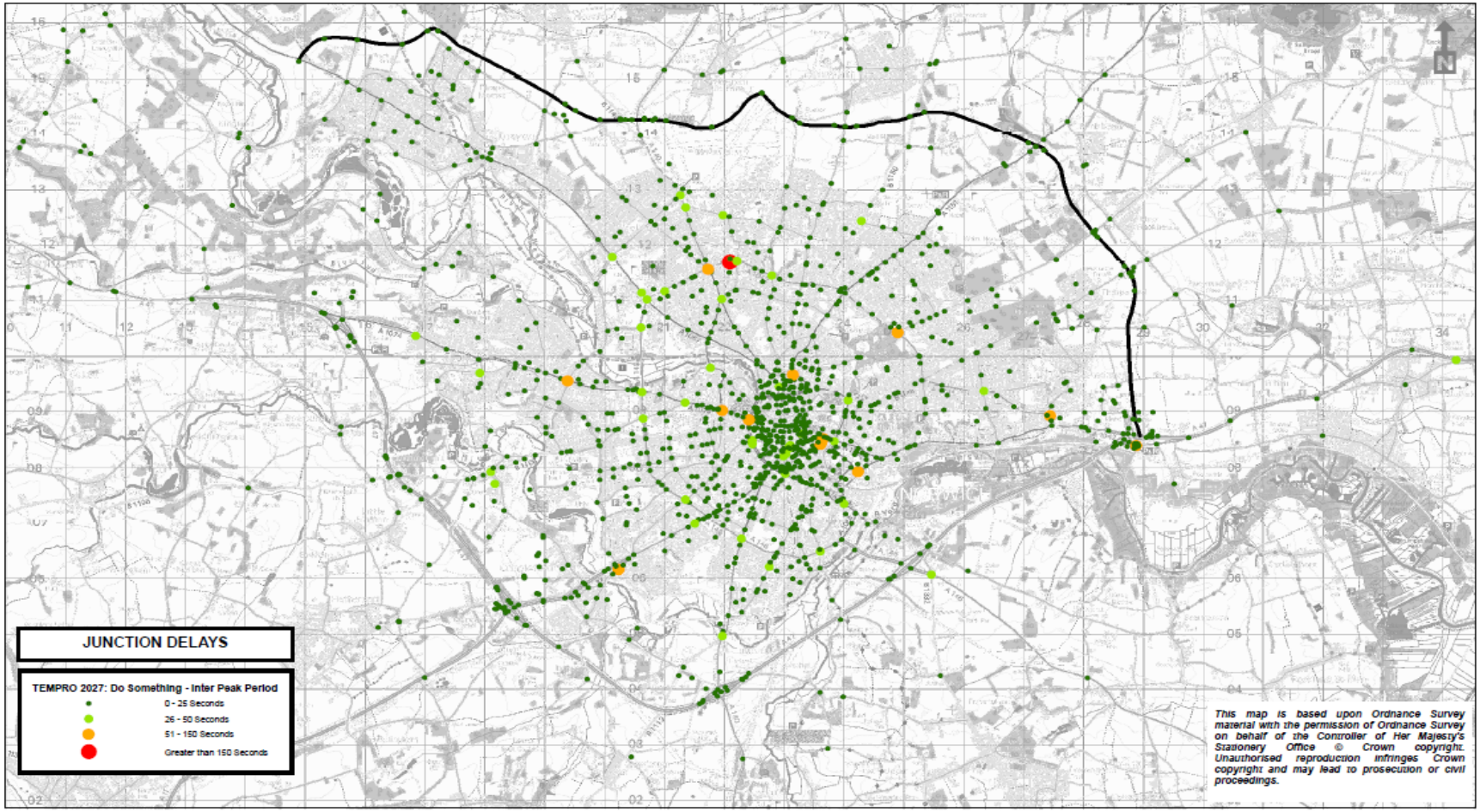
Junction Delay Range Plots
TEMPRO 5.4
Do Something 2027 - AM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	-----	-----	-----
C	-----	-----	-----
D	-----	-----	-----

	INIT.	DATE	REF: TEM_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE NNDR MSBC				

Figure 26: 2027 TEMPRO 5.4 Do Something Junction Delays - IP



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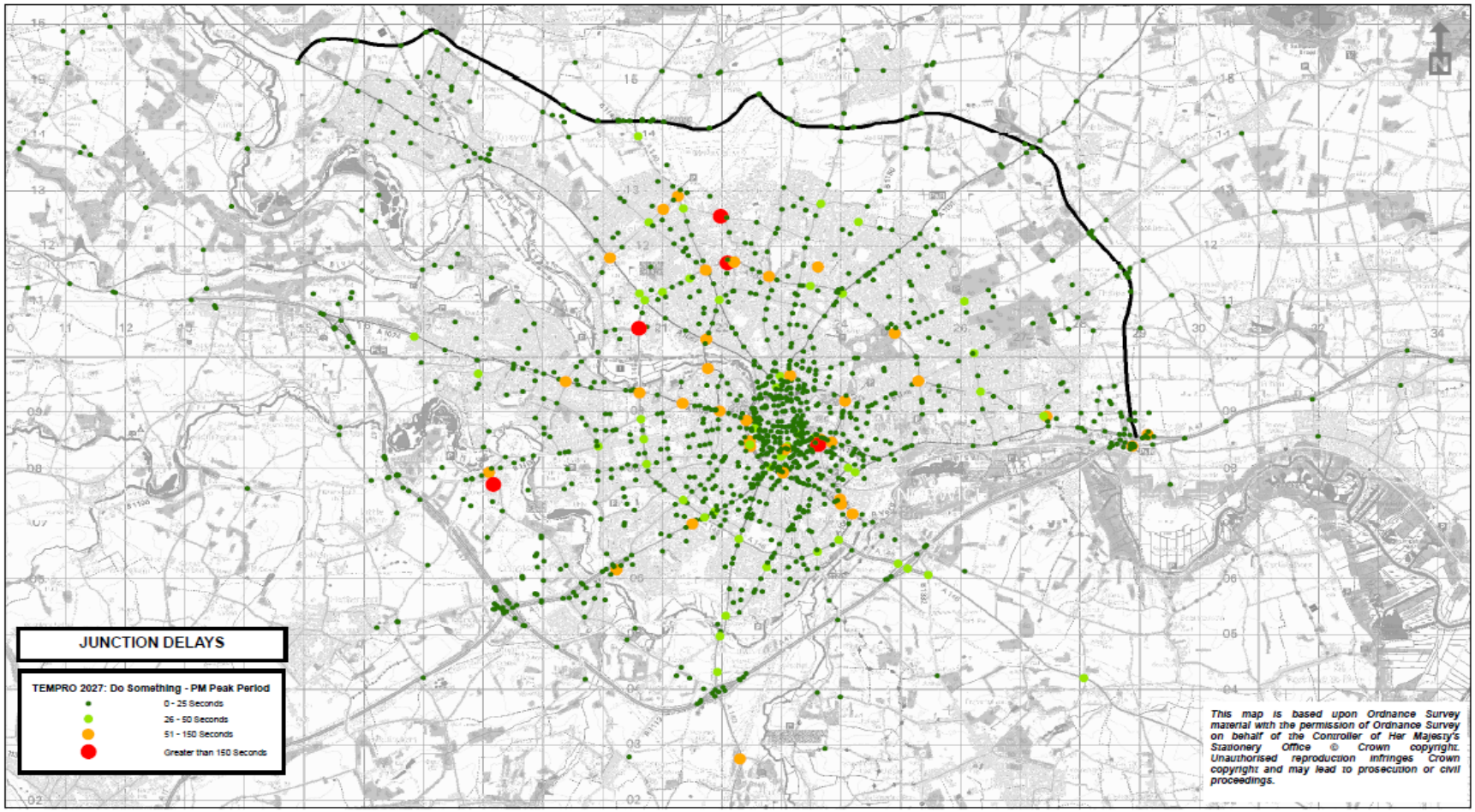
Junction Delay Range Plots
TEMPRO 5.4
Do Something 2027 - Inter Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: TEM_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	SW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 27: 2027 TEMPRO 5.4 Do Something Junction Delays – PM Peak



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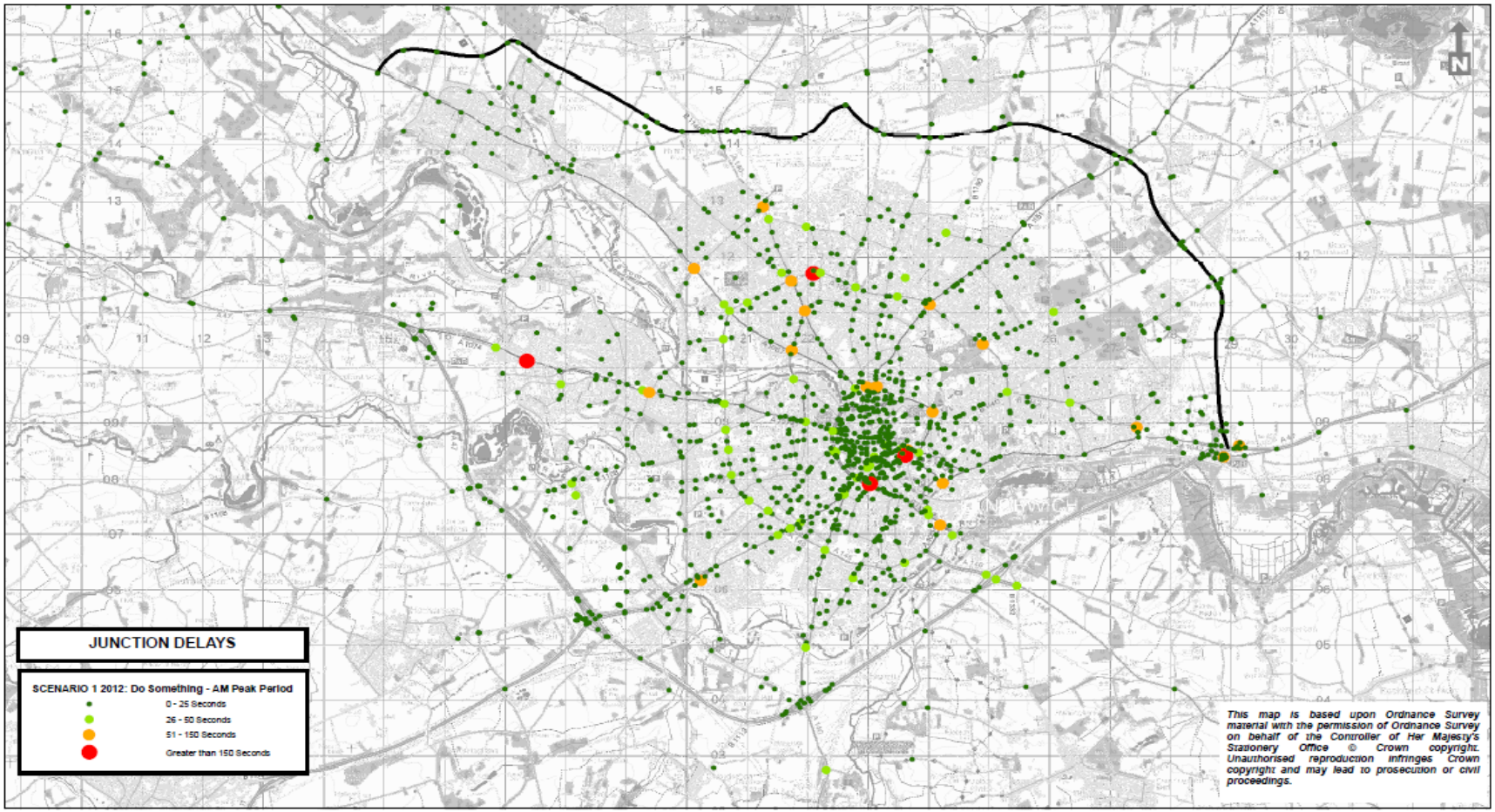
Junction Delay Range Plots
TEMPRO 5.4
Do Something 2027 - PM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: TEM_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	SW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 28: 2012 Scenario 1 Do Something Junction Delays – AM Peak



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Junction Delay Range Plots
SCENARIO 1 (exc. Dependent Development A)
Do Something 2012 - AM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
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C	-----	-----	-----
D	-----	-----	-----

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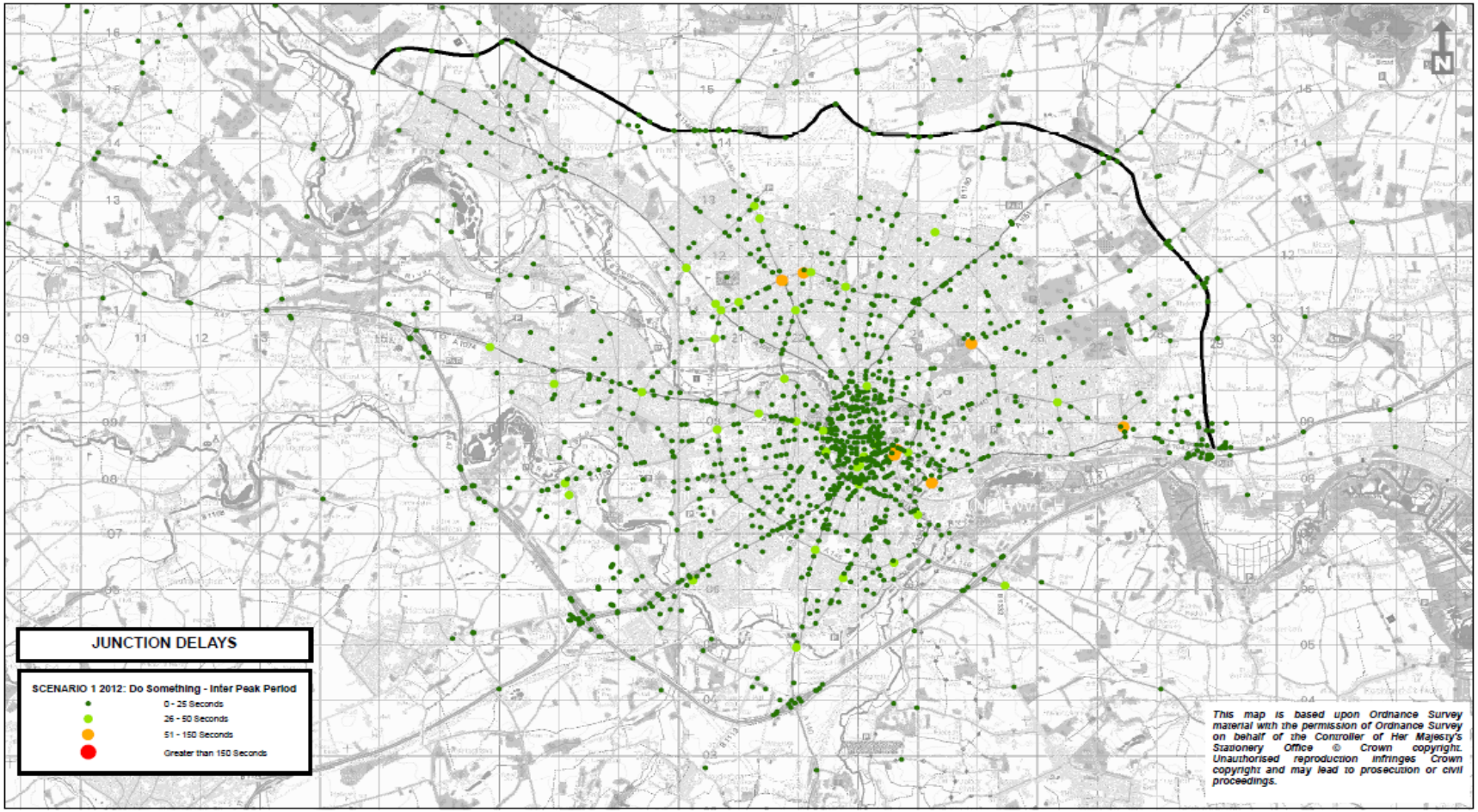
DRAWN BY	SK	25/10/09	SCALE	FILE No.
CHECKED BY	BW	25/10/09	Not To Scale	-----
PROJECT TITLE				
NNDR MSBC				

Figure 29: 2012 Scenario 1 Do Something Junction Delays - IP



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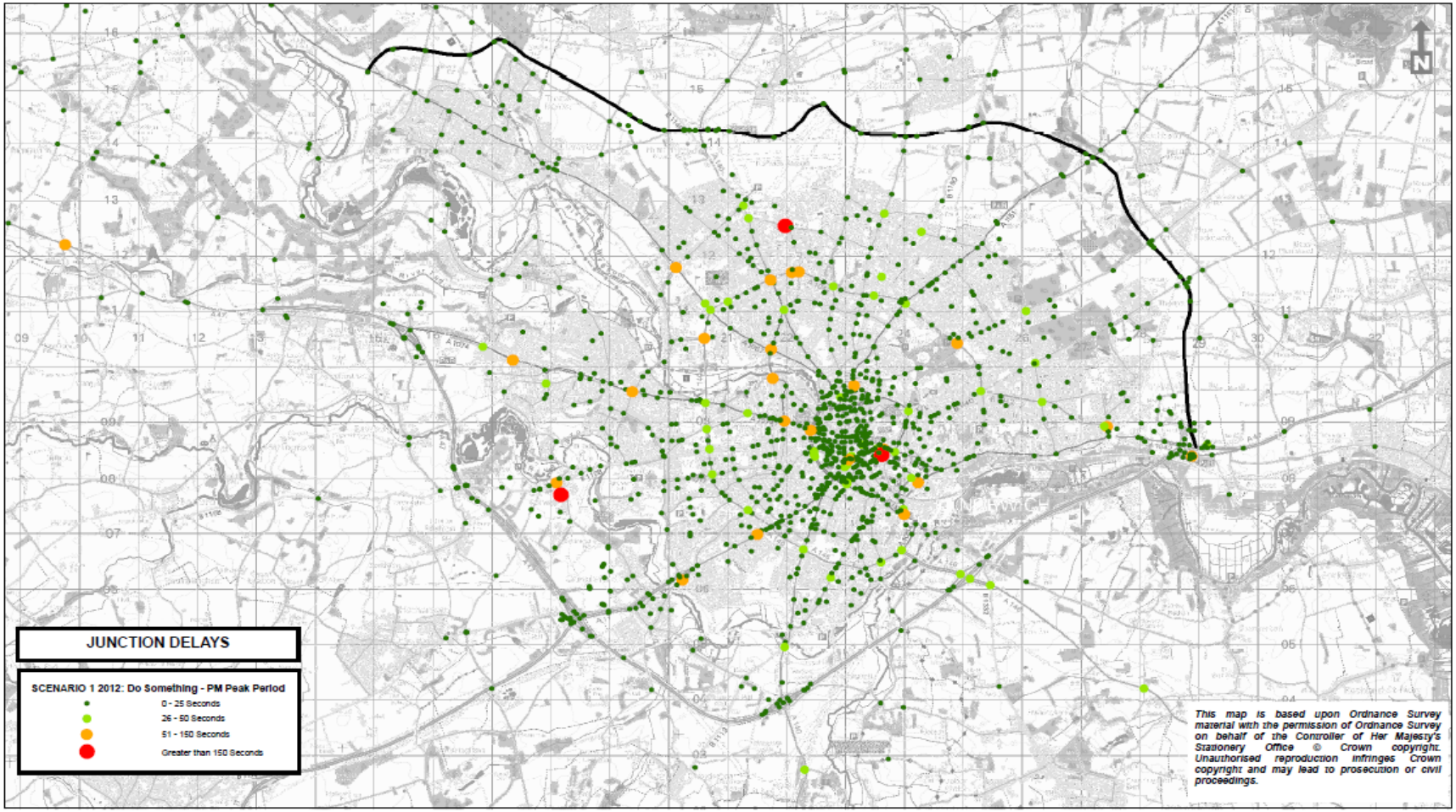
Junction Delay Range Plots
SCENARIO 1 (exc. Dependent Development A)
Do Something 2012 - Inter Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: Junction Delays_JCS1_2012_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 30: 2012 Scenario 1 Do Something Junction Delays – PM Peak



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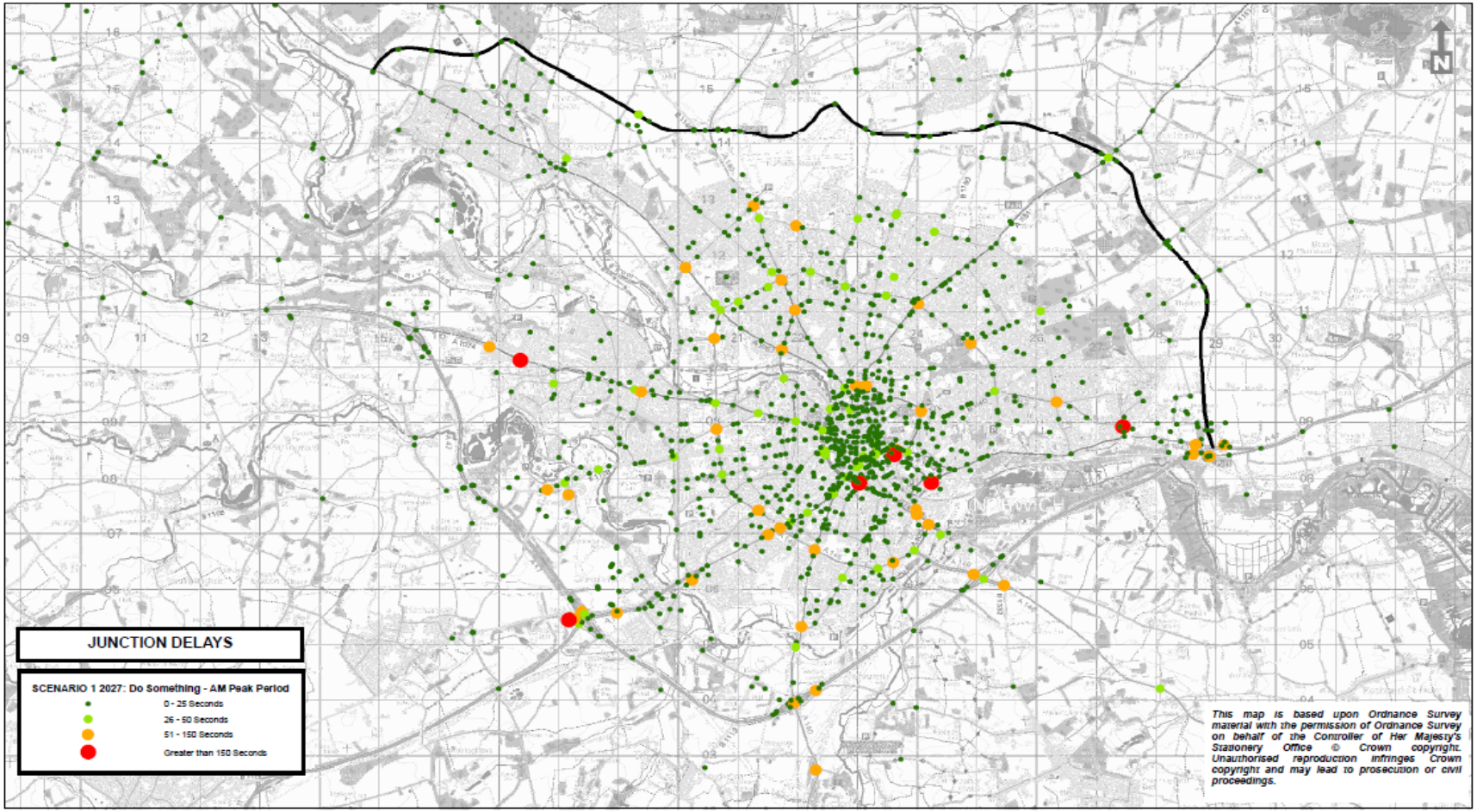
Junction Delay Range Plots
SCENARIO 1 (exc. Dependent Development A)
Do Something 2012 - PM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: Junction Delays_JCS1_2012_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE				
NNDR MSBC				

Figure 31: 2027 Scenario 1 Do Something Junction Delays – AM Peak



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Junction Delay Range Plots
SCENARIO 1 (exc. Dependent Development A)
Do Something 2027 - AM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
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C	.....	.....	.....
D	.....	.....	.....

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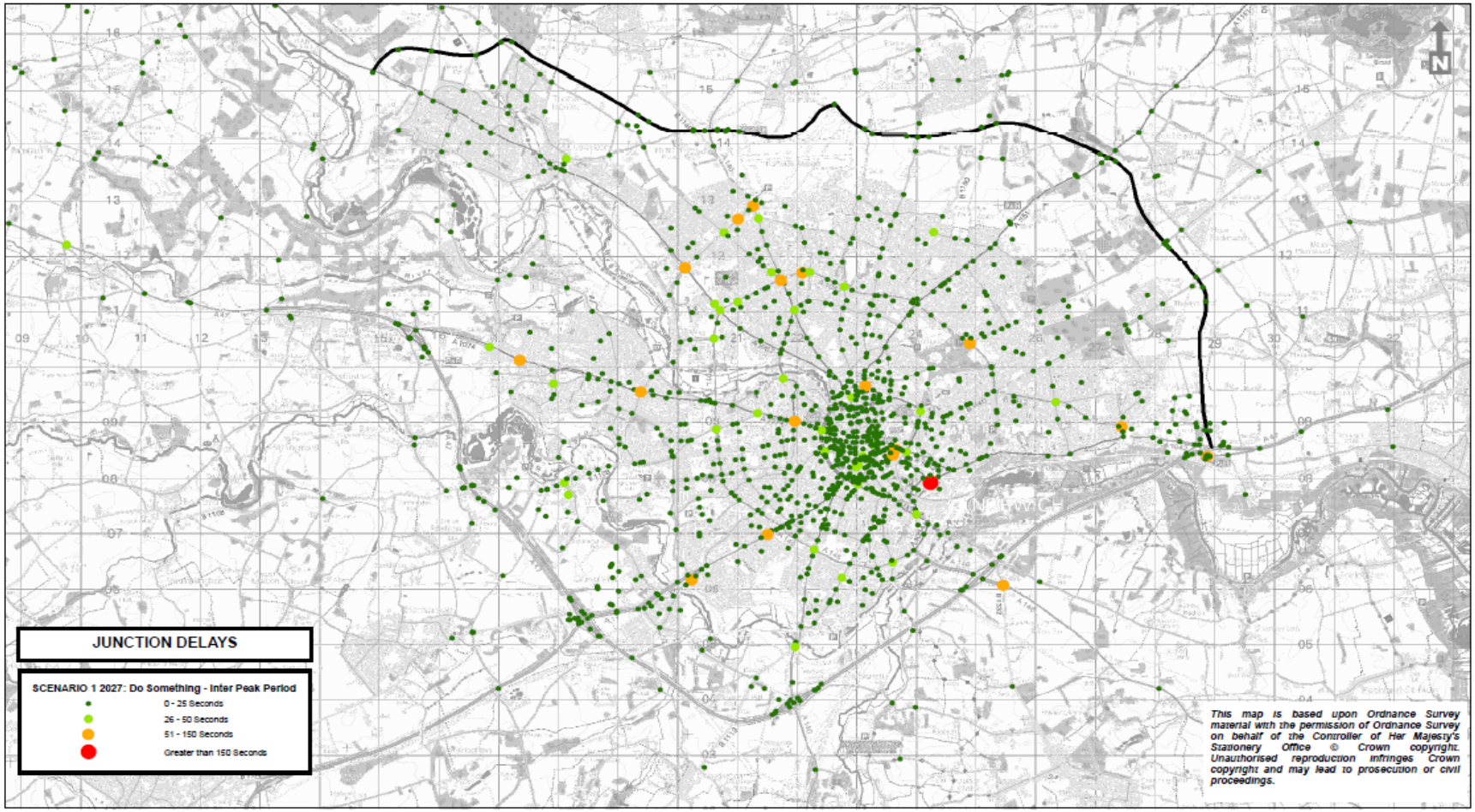
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 32: 2027 Scenario 1 Do Something Junction Delays - IP



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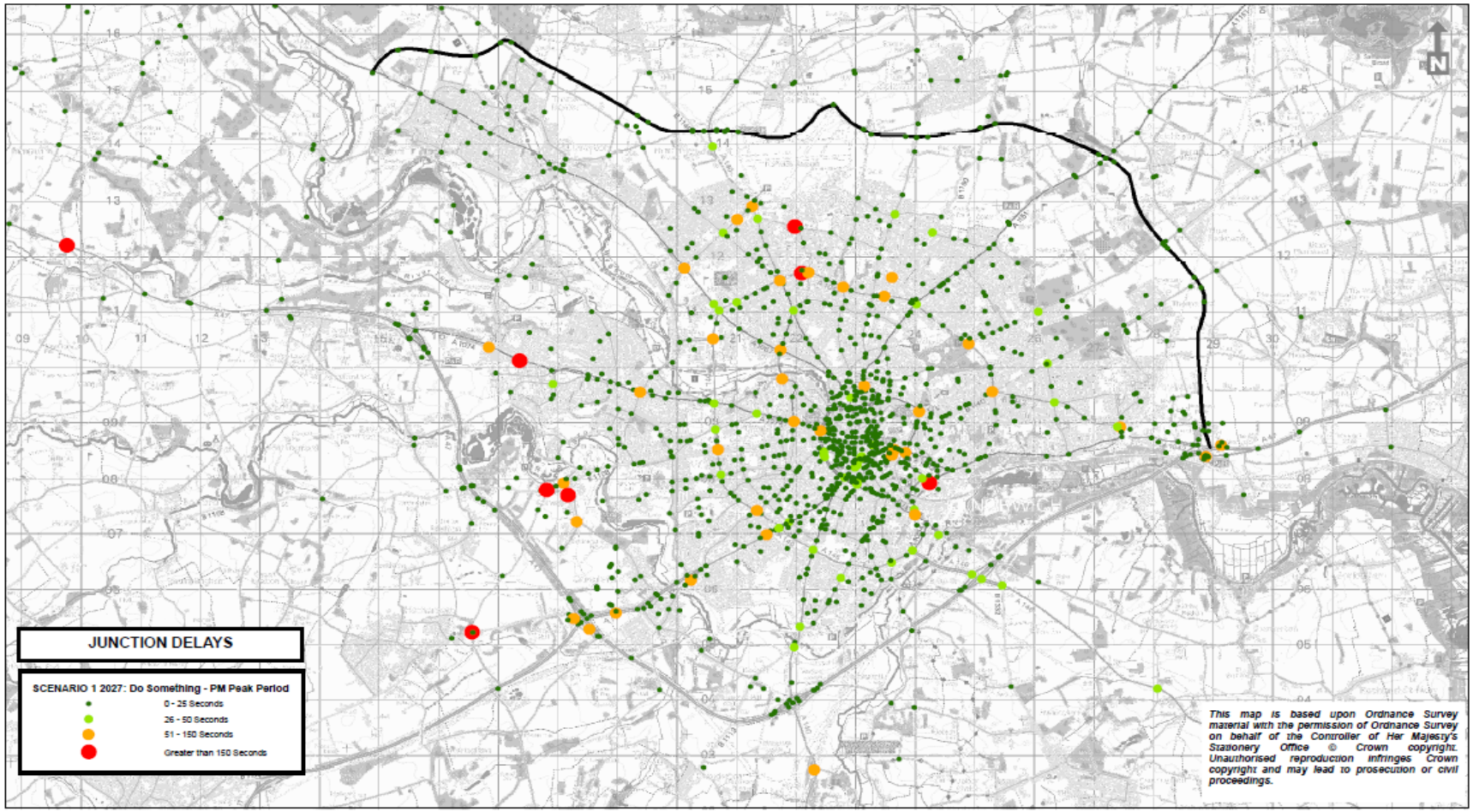
Junction Delay Range Plots
SCENARIO 1 (exc. Dependent Development A)
Do Something 2027 - Inter Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	-----	-----	-----
C	-----	-----	-----
D	-----	-----	-----

	INIT.	DATE	REF: JCS1_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE NNDR MSBC				

Figure 33: 2027 Scenario 1 Do Something Junction Delays – PM Peak



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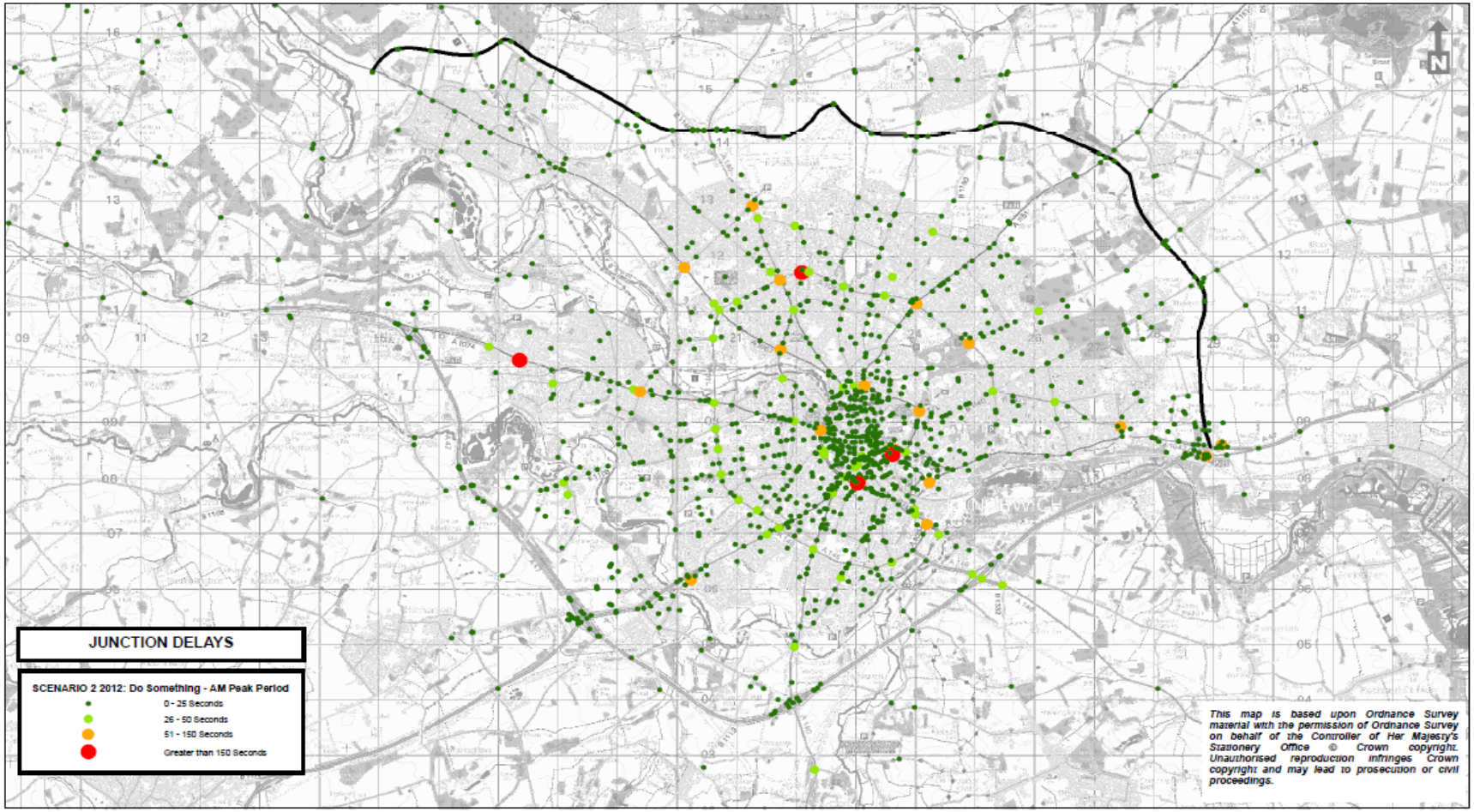
Junction Delay Range Plots
SCENARIO 1 (exc. Dependent Development A)
Do Something 2027 - PM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: JCS1_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 34: 2012 Scenario 2 Do Something Junction Delays – AM Peak



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Junction Delay Range Plots
SCENARIO 2 (all JCS Development)
Do Something 2012 - AM Peak

REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
B	.....	.....	.....
C	.....	.....	.....
D	.....	.....	.....

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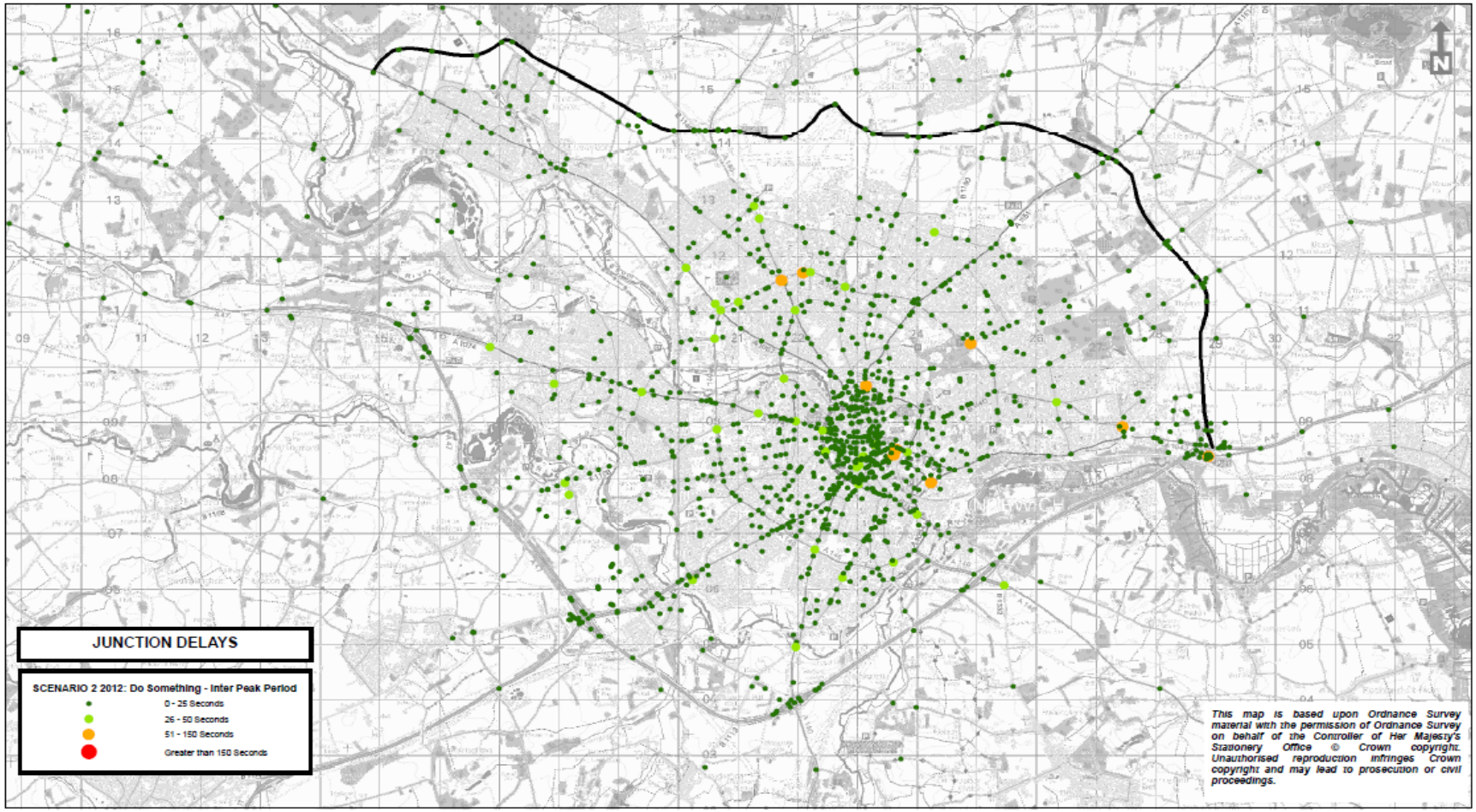
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 35: 2012 Scenario 2 Do Something Junction Delays - IP



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REV.	DESCRIPTION	CH'K'D	DATE
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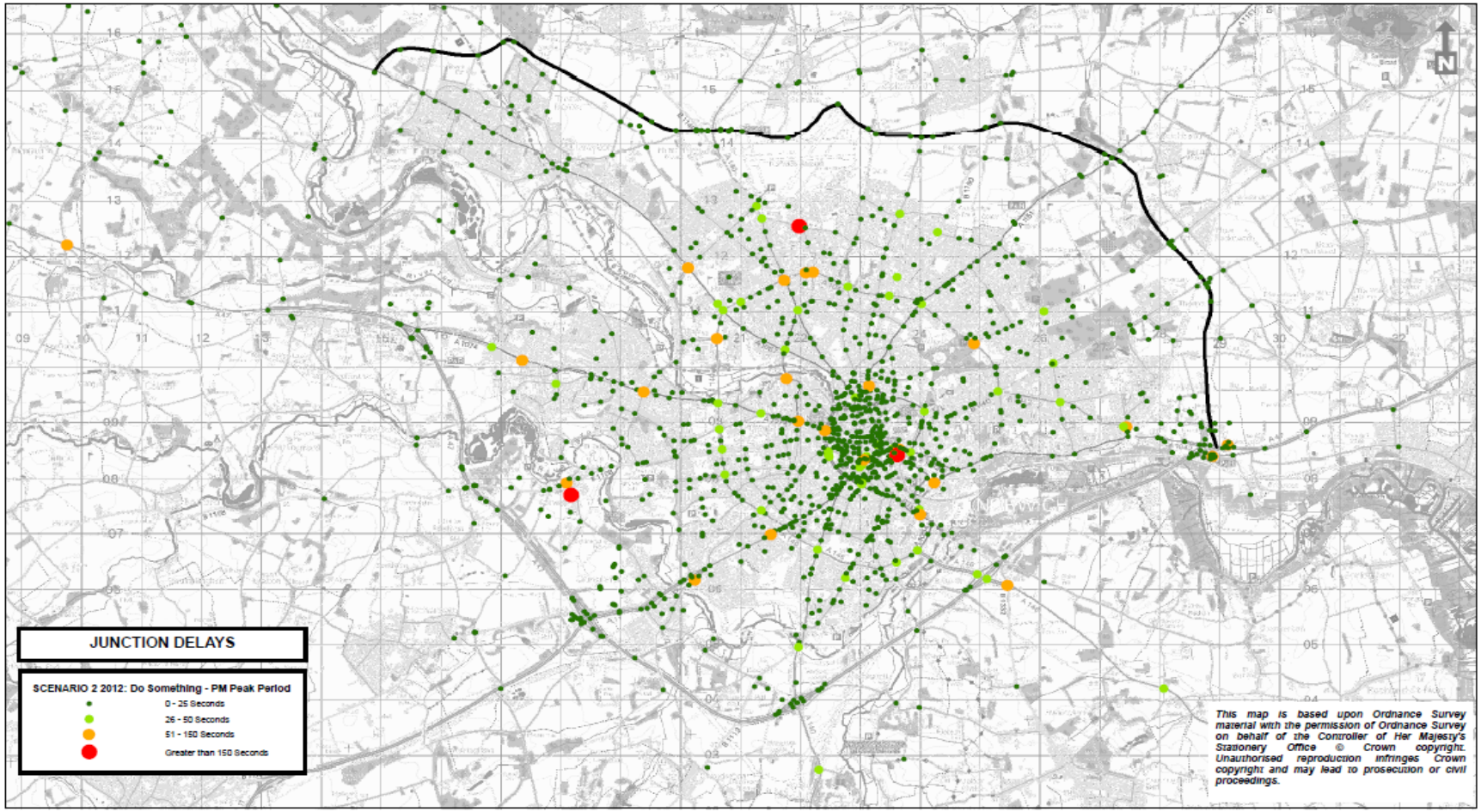
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE NNDR MSBC				

Figure 36: 2012 Scenario 2 Do Something Junction Delays – PM Peak



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REV.	DESCRIPTION	CH'K'D	DATE
A	DRAFT	GW	18/10/09
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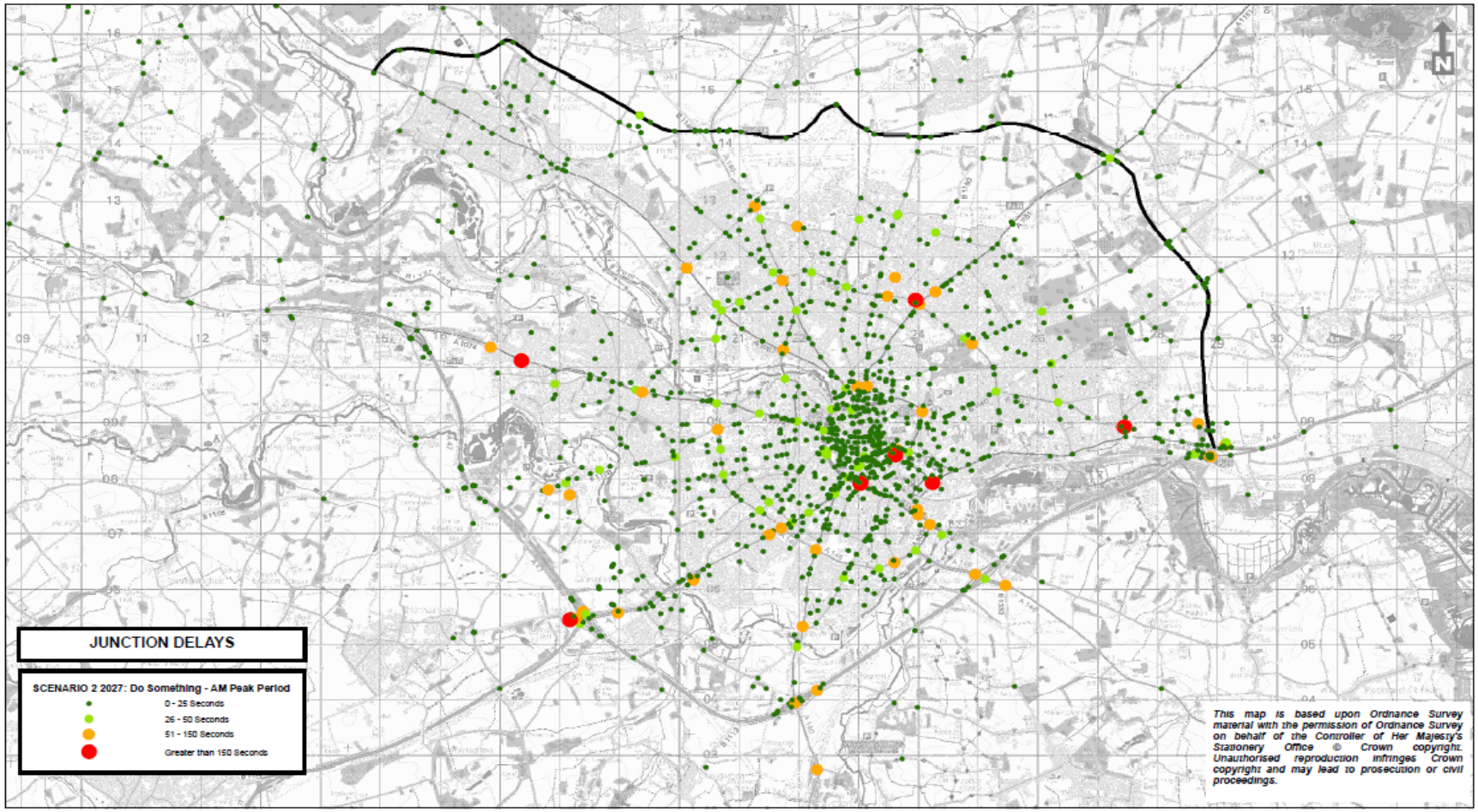
D	-----	-----	-----

	INIT.	DATE	REF: JCS2_2012_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE NNDR MSBC				

Figure 37: 2027 Scenario 2 Do Something Junction Delays – AM Peak



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A	DRAFT	GW	18/10/09
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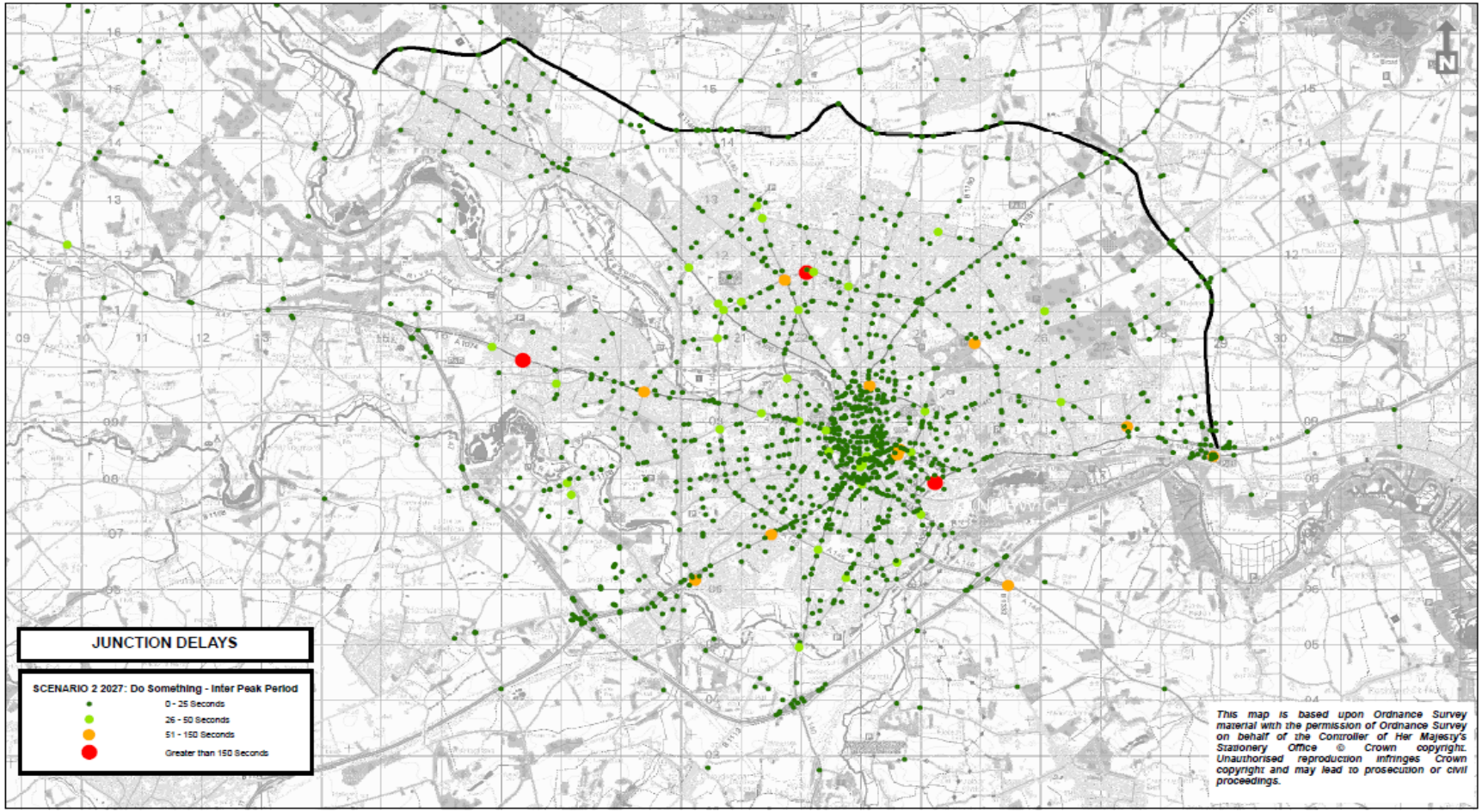
C	-----	-----	-----
D	-----	-----	-----

	INIT.	DATE	REF: JCS2_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE NNDR MSBC				

Figure 38: 2027 Scenario 2 Do Something Junction Delays - IP



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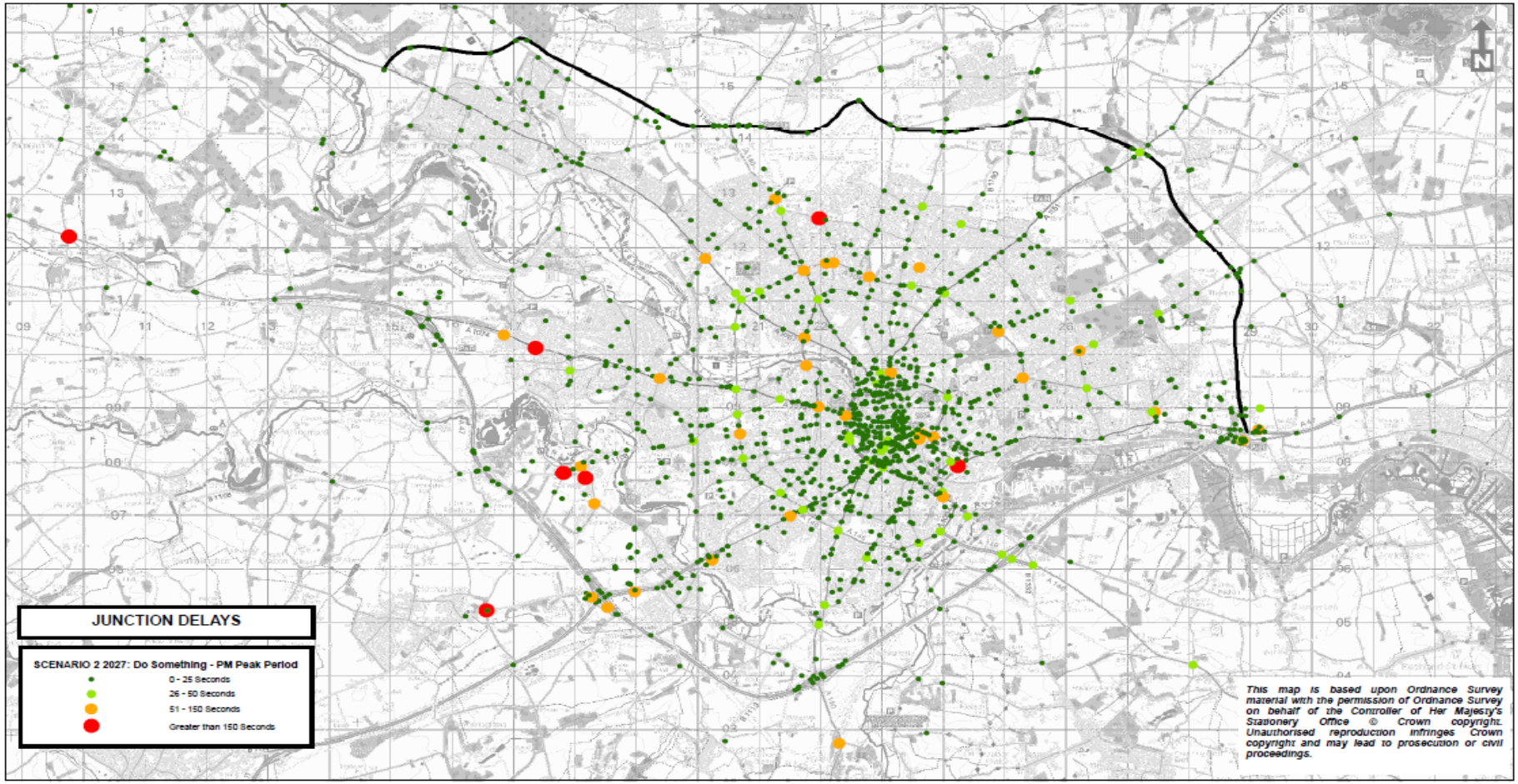
C	.....	.....	.....
D	.....	.....	.....

	INIT.	DATE	REF: JCS2_2027_DS_GW	
DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	.....
PROJECT TITLE NNDR MSBC				

Figure 39: 2027 Scenario 2 Do Something Junction Delays – PM Peak



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DRAWN BY	SK	26/10/09	SCALE	FILE No.
CHECKED BY	BW	26/10/09	Not To Scale	-----
PROJECT TITLE				
NNDR MSBC				

Appendix F. Vehicle over Capacity Ratio

Please see Appendices Volumes 5 & 6.

Appendix G. Traffic Flows (PCUs)

Please see Appendix Volume 2.

Appendix H. Trip Totals (PCUs)

Please see Appendix Volume 2.

Appendix I. PCU Kilometres

Please see Appendix Volume 2.