

Greater Manchester's Outline Business Case to tackle Nitrogen Dioxide Exceedances at the Roadside

Strategic Case Appendix Air Quality Maps



Salford City Council



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Version Status:	DRAFT FOR APPROVAL	Prepared by:	Transport for Greater Manchester on behalf of the 10 Local Authorities of Greater Manchester
Authorised by: Date:	Simon Warburton 28 th February 2019		

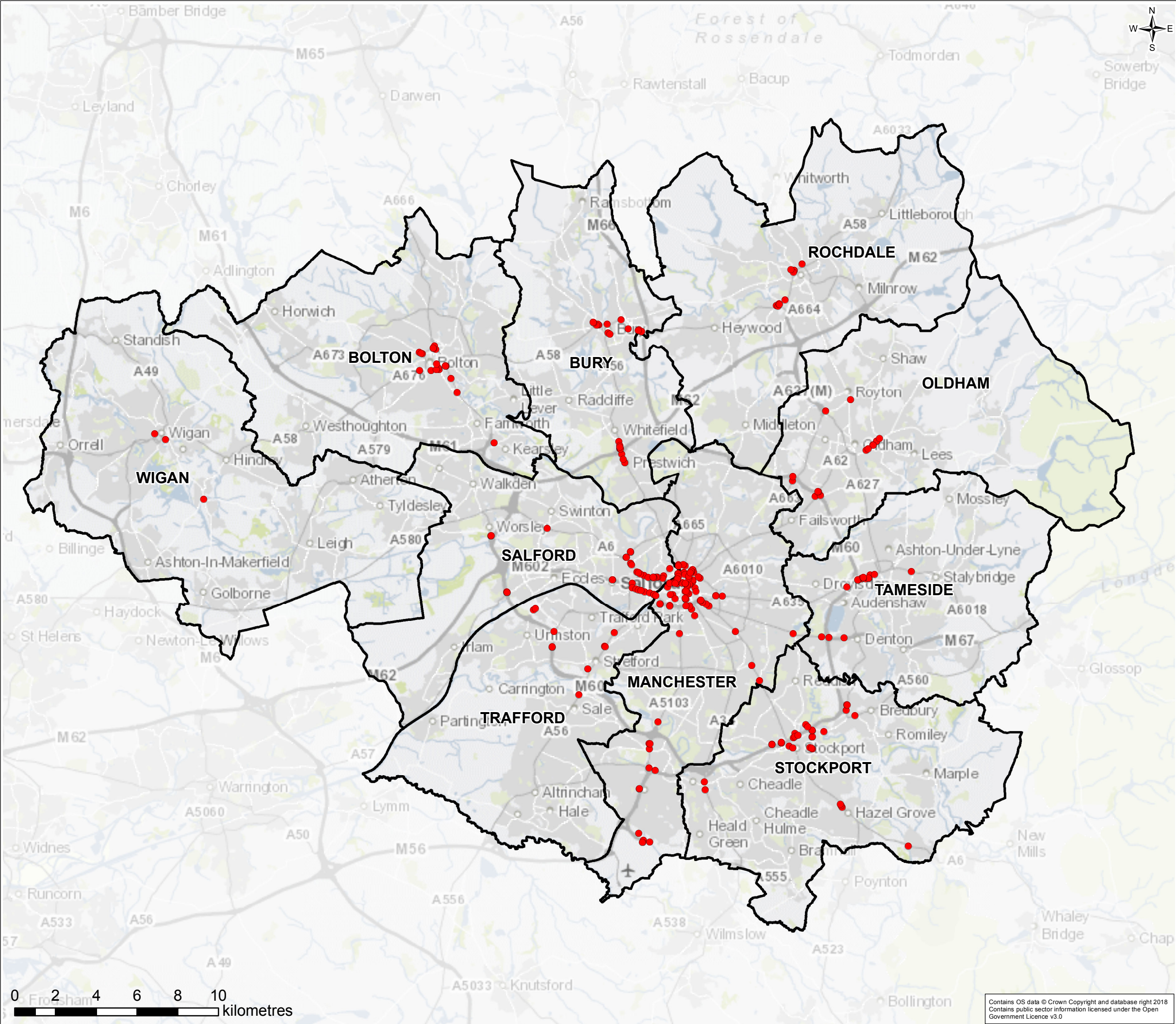
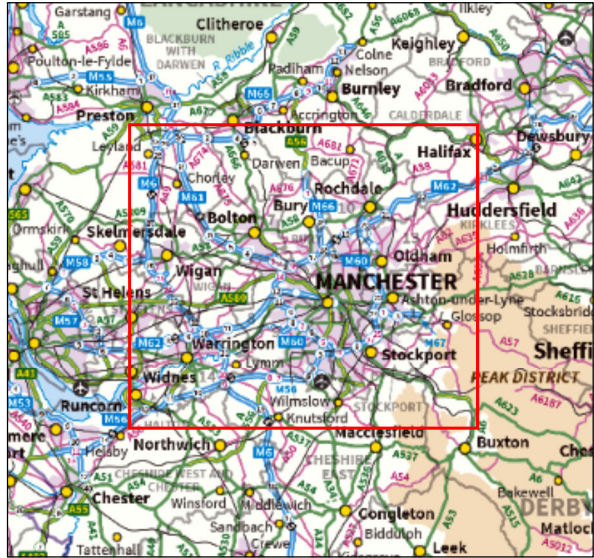


FIGURE 1

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



0	08/02/2019	Initial Issue	RW	-	-	-
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Scale @ A3	1:180,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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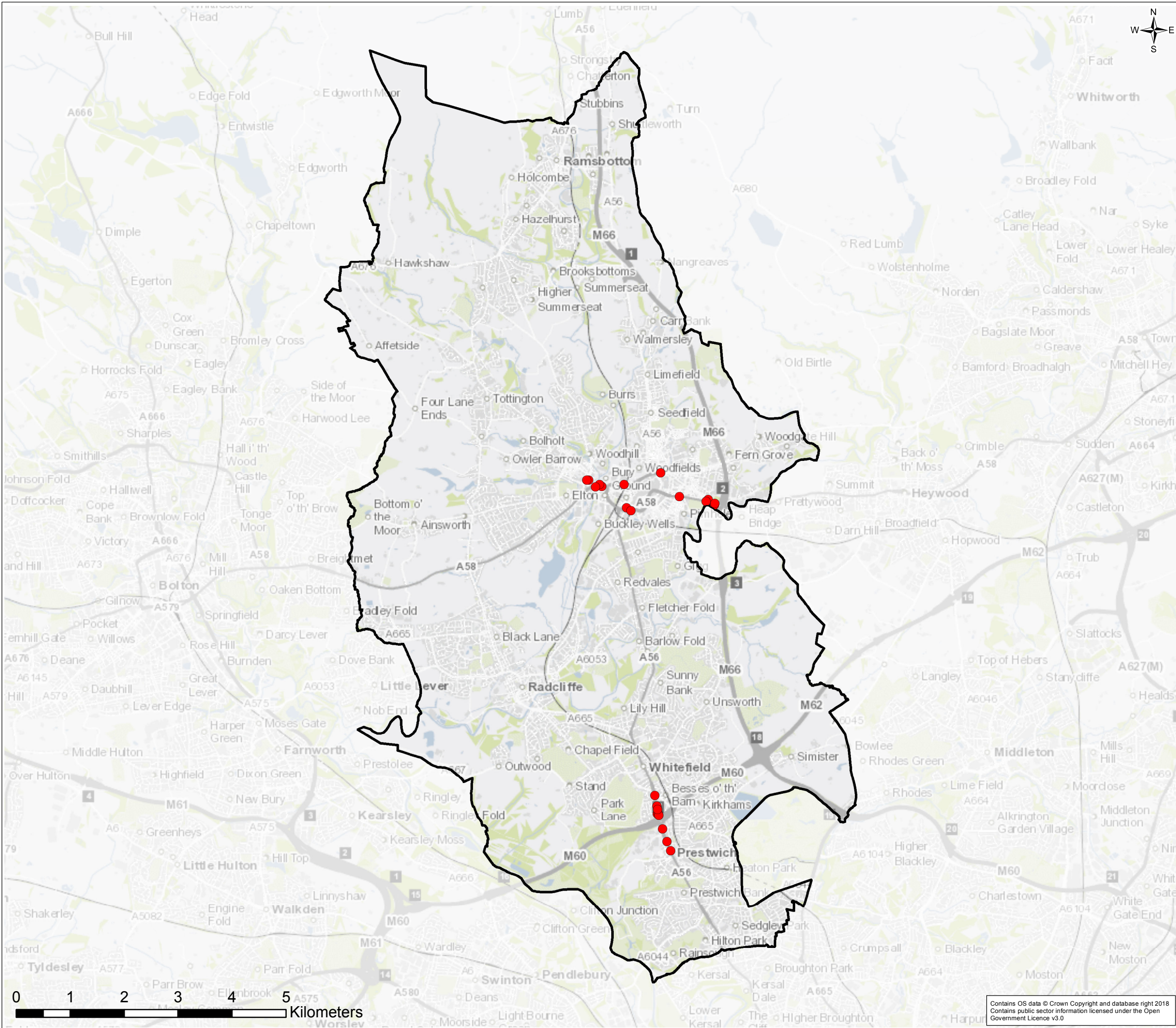


FIGURE 1- Bury

Greater Manchester District Boundaries

Do Minimum Exceedances 2021

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Bury

Scale @ A3	1:68,000	DO NOT SCALE
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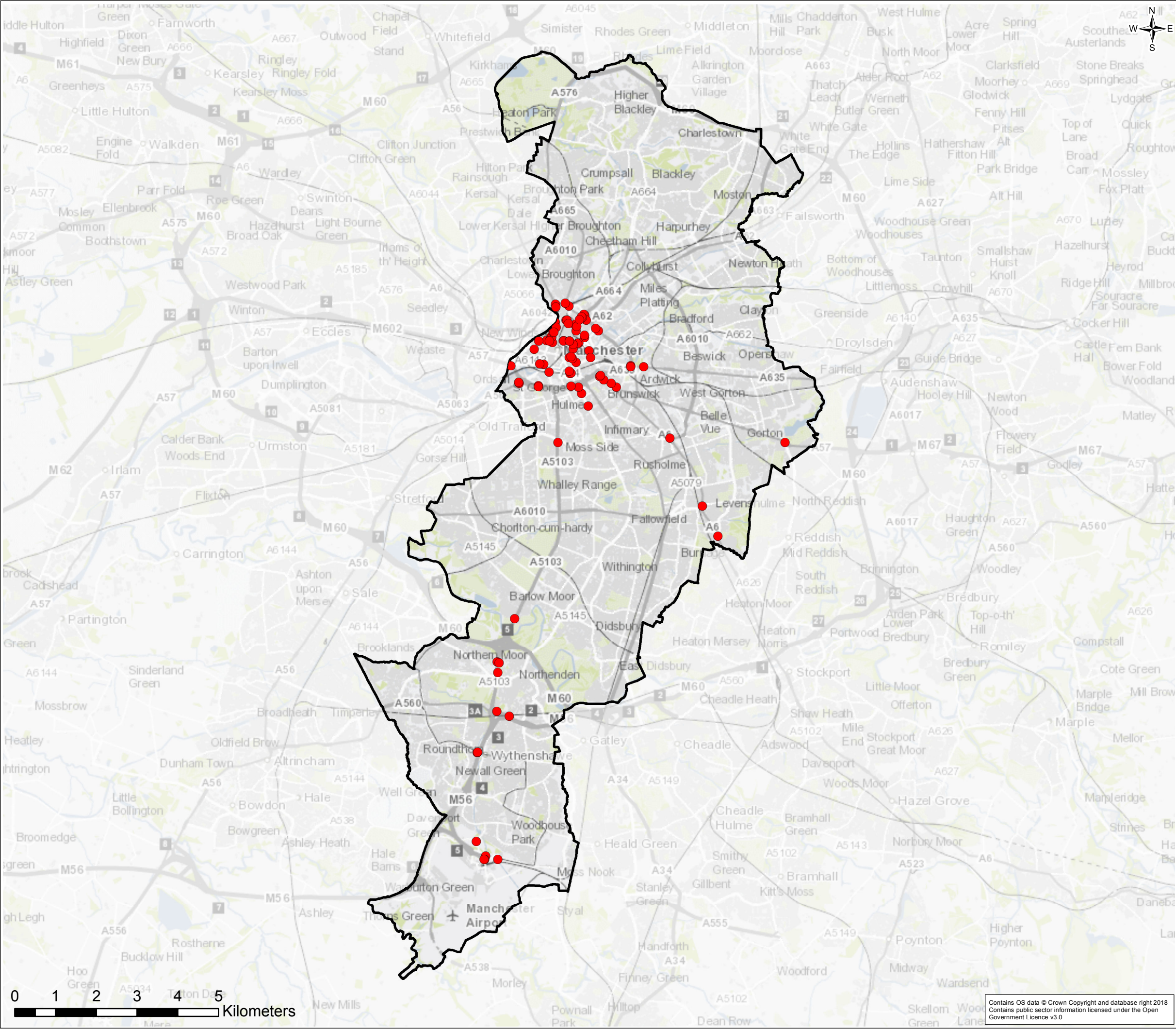


FIGURE 1- Manchester

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



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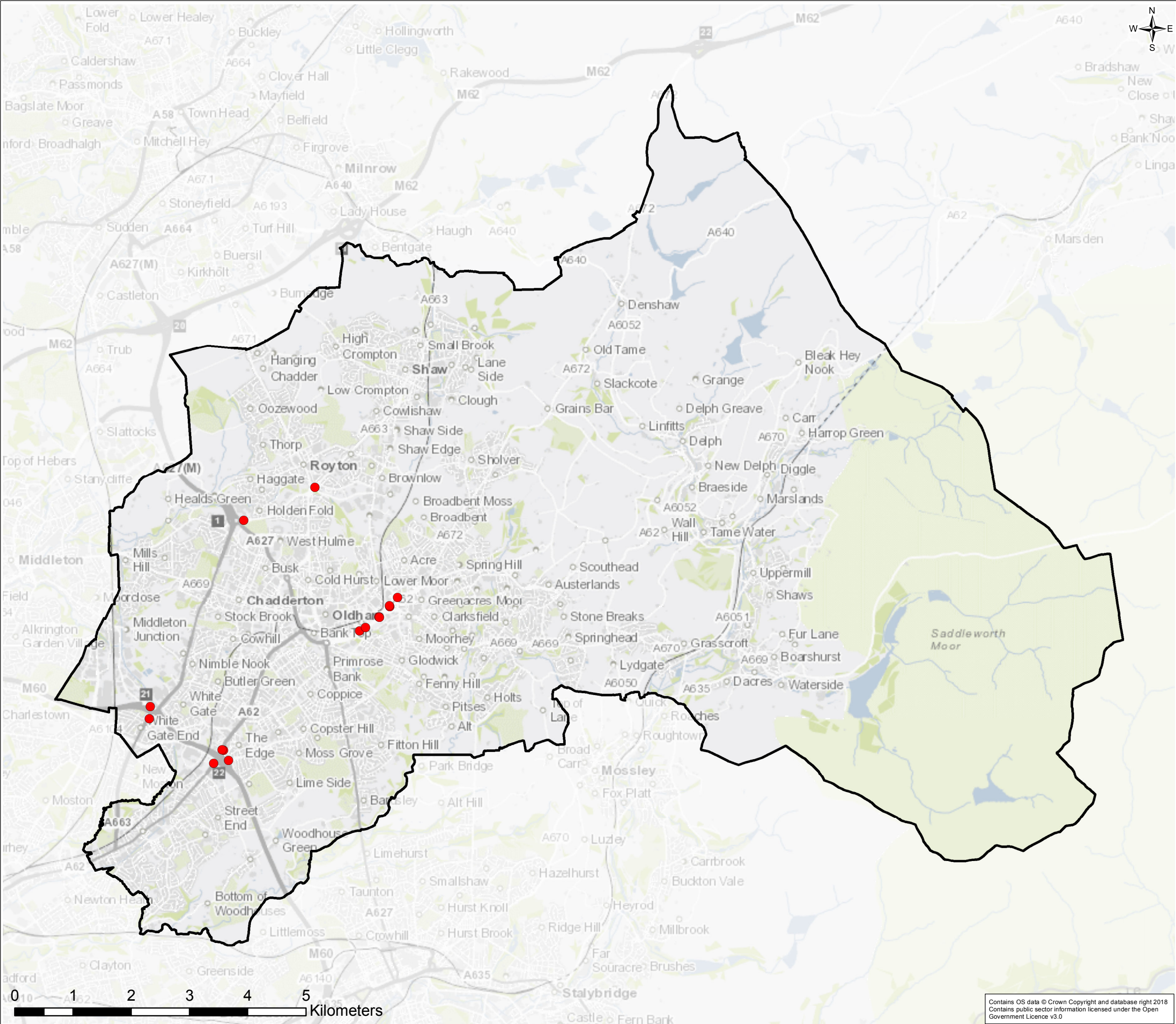


FIGURE 1- Oldham

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



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Drawing Title						
Do Minimum Exceedances – 2021 Oldham						
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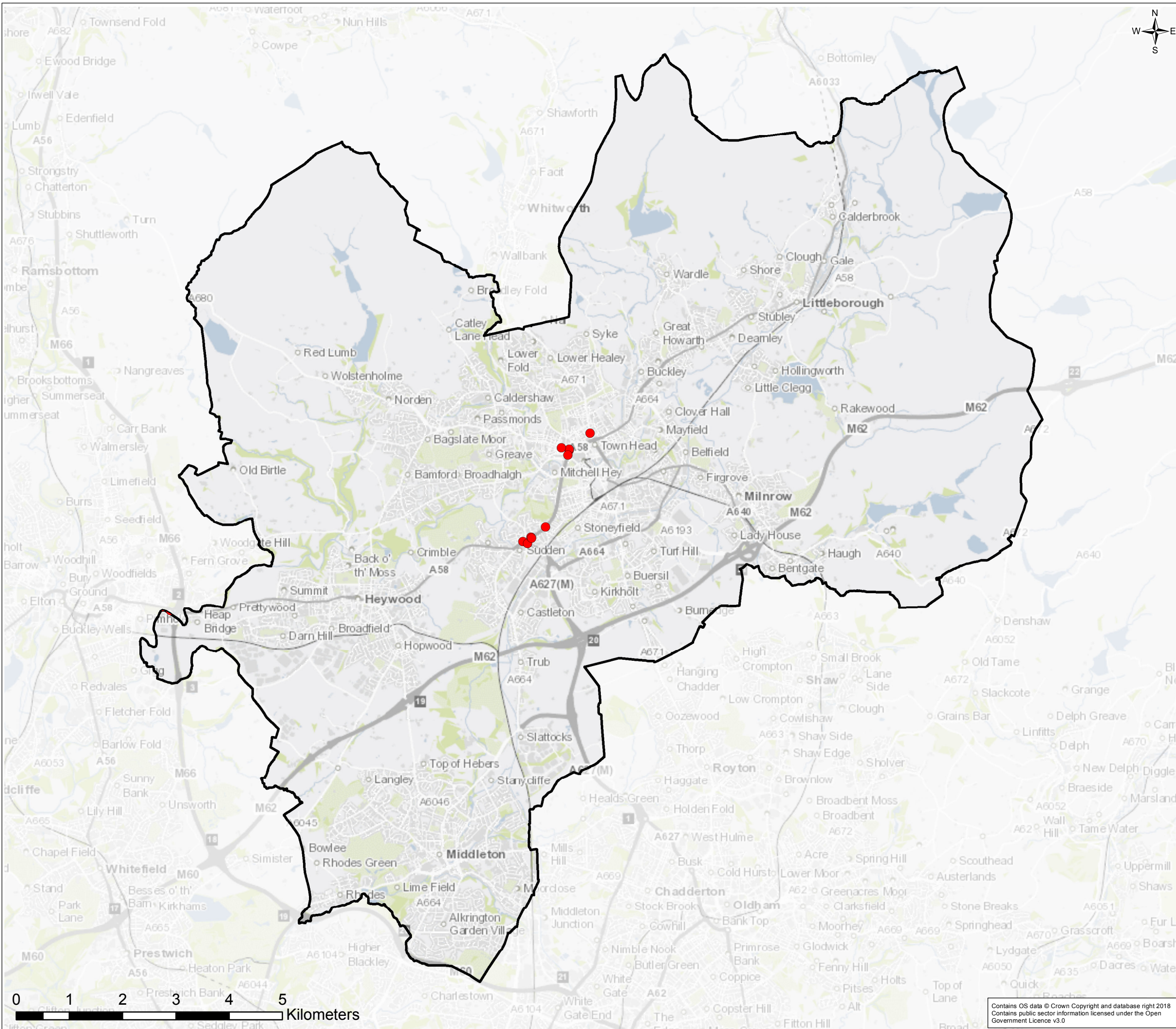


FIGURE 1- Rochdale

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



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Scale @ A3 1:69,000 DO NOT SCALE						
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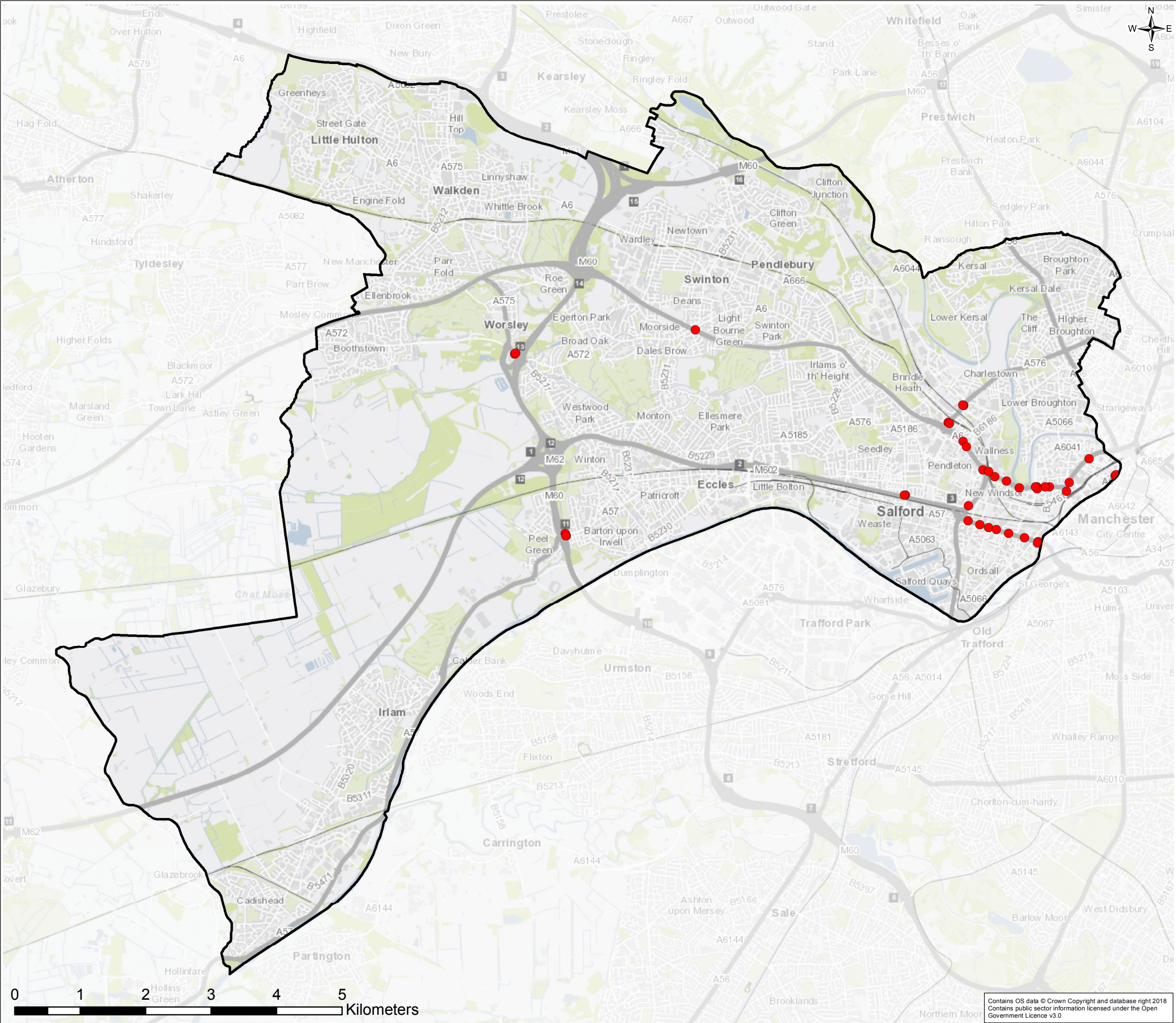


FIGURE 1- Salford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



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Drawing Title Do Minimum Exceedances – 2021 Salford							
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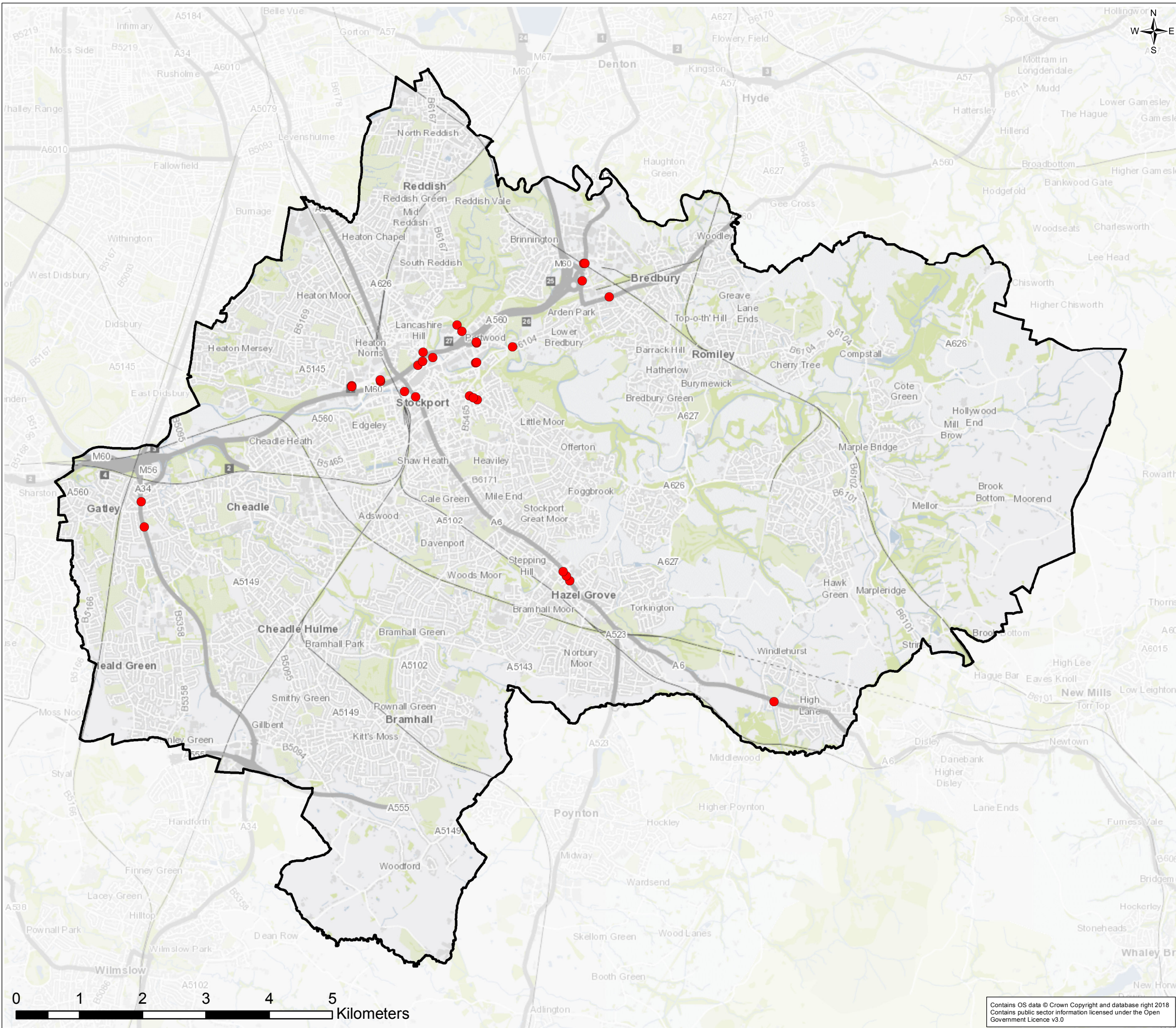


FIGURE 1- Stockport

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



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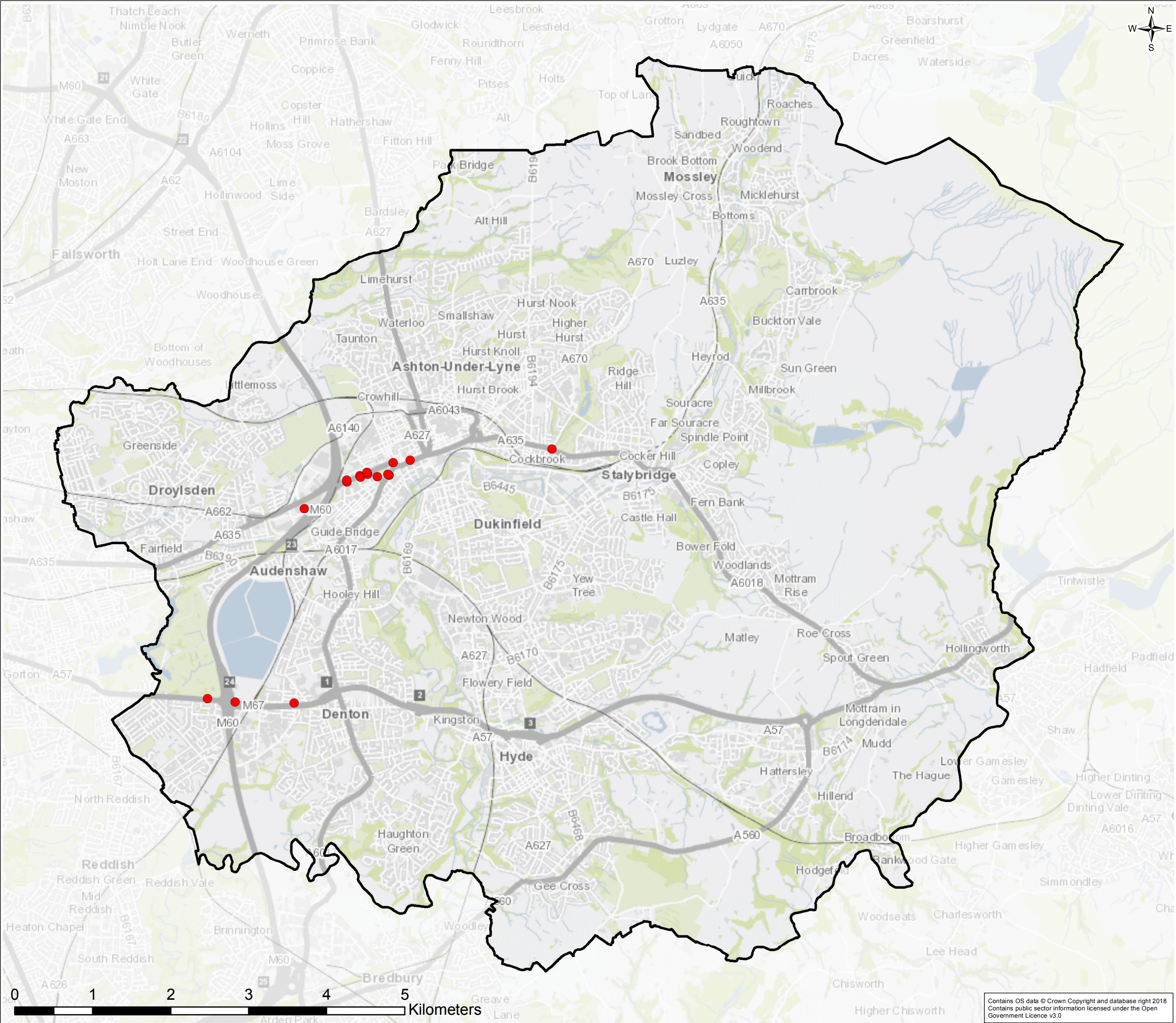


FIGURE 1- Tameside

Legend

- Greater Manchester District Boundaries
- Do Minimum Exceedances 2021

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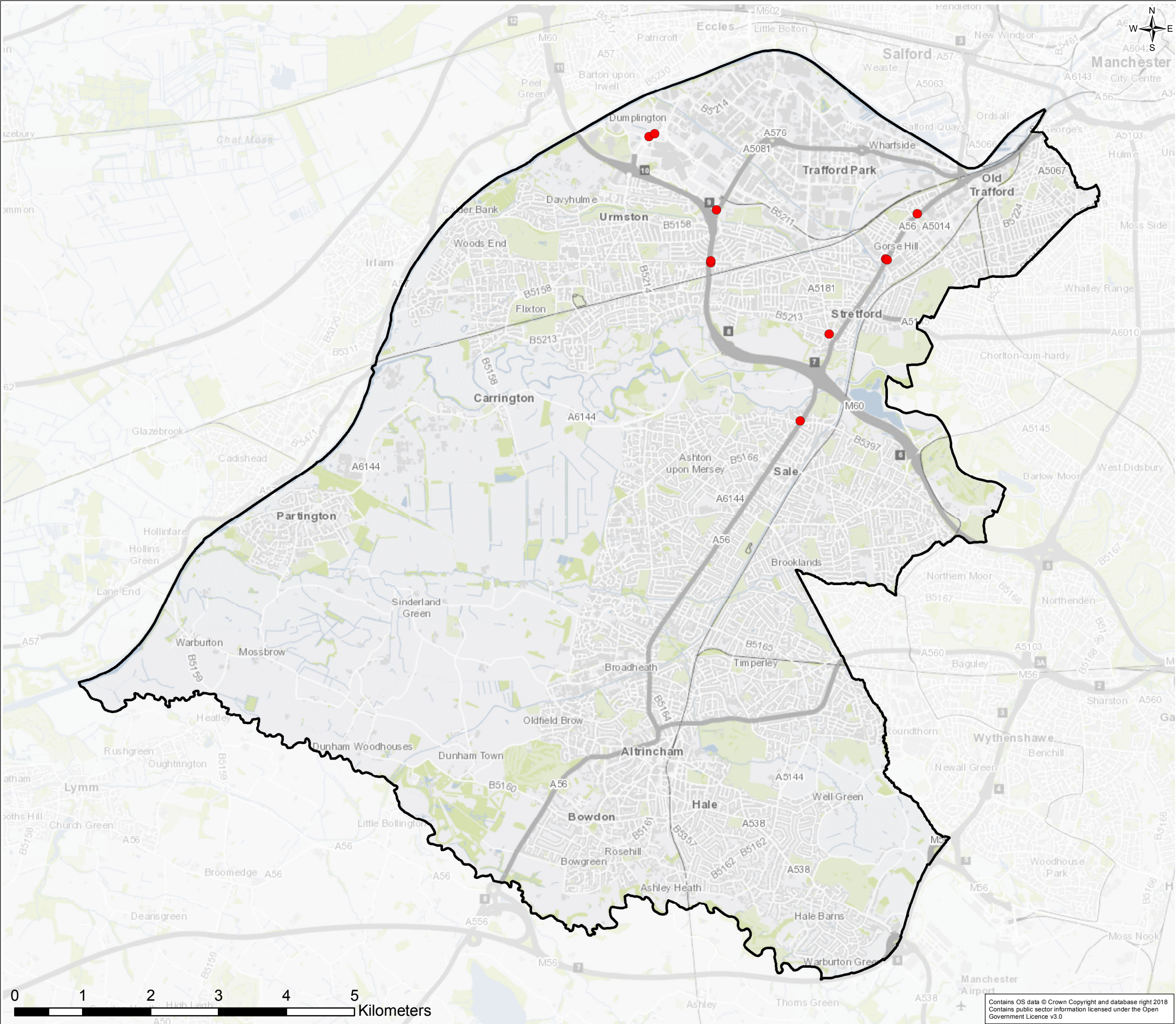


FIGURE 1- Trafford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021



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Drawing Title						
Do Minimum Exceedances – 2021 Trafford						
Scale @ A3		1:54,000			DO NOT SCALE	
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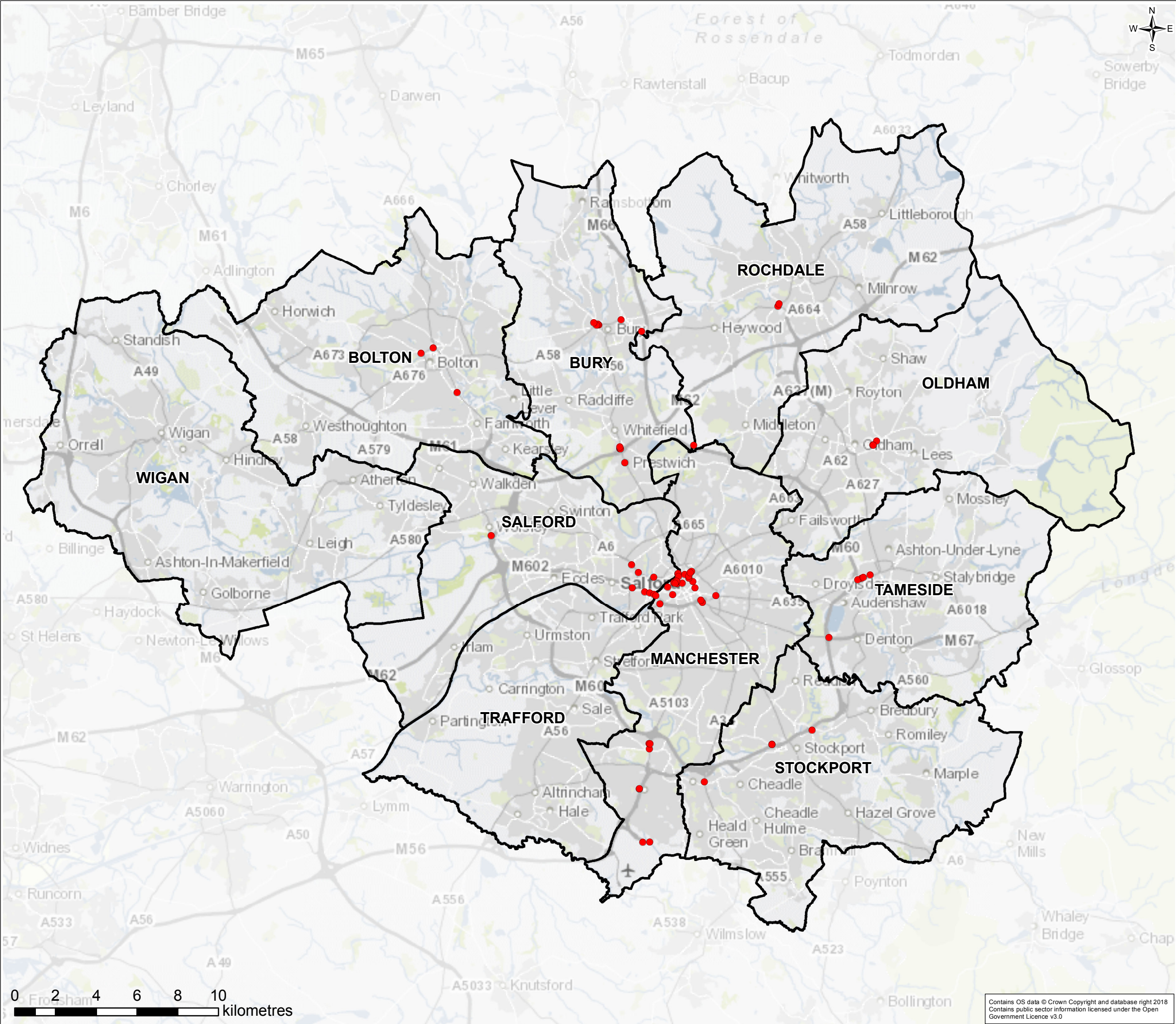
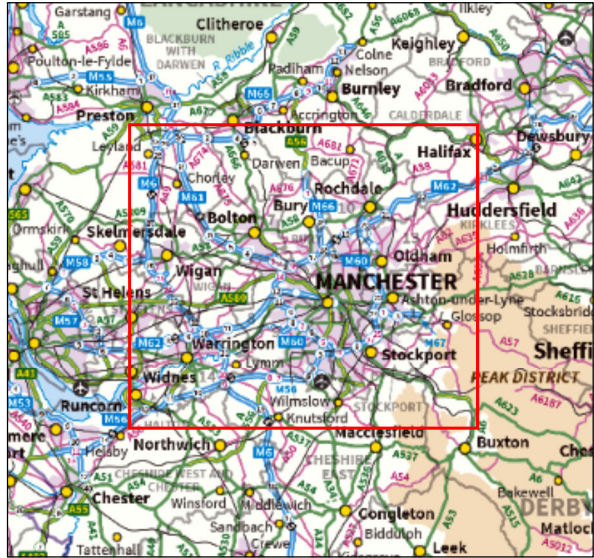


FIGURE 4

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023



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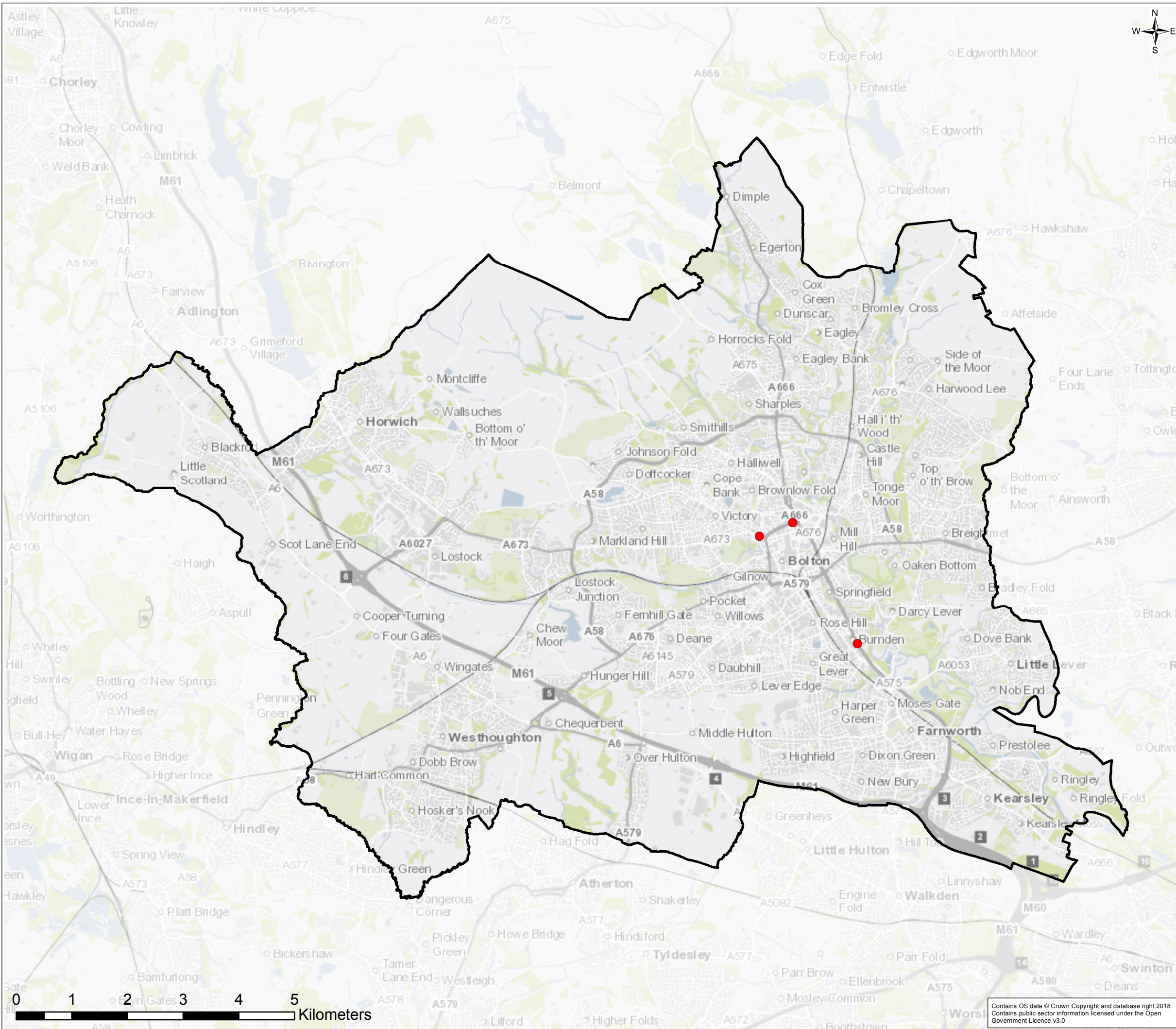


FIGURE 4- Bolton

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023



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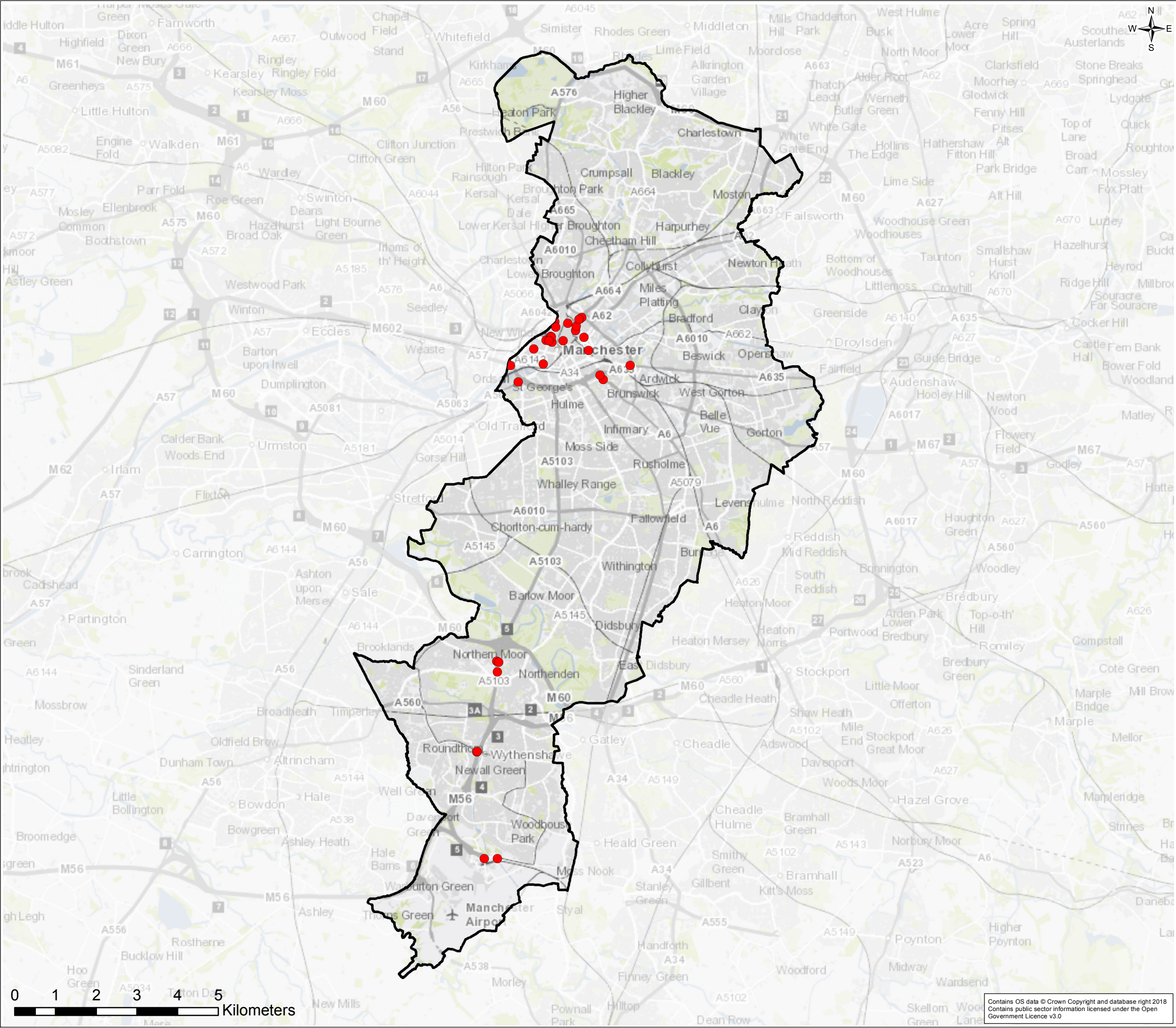


FIGURE 4- Manchester

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023



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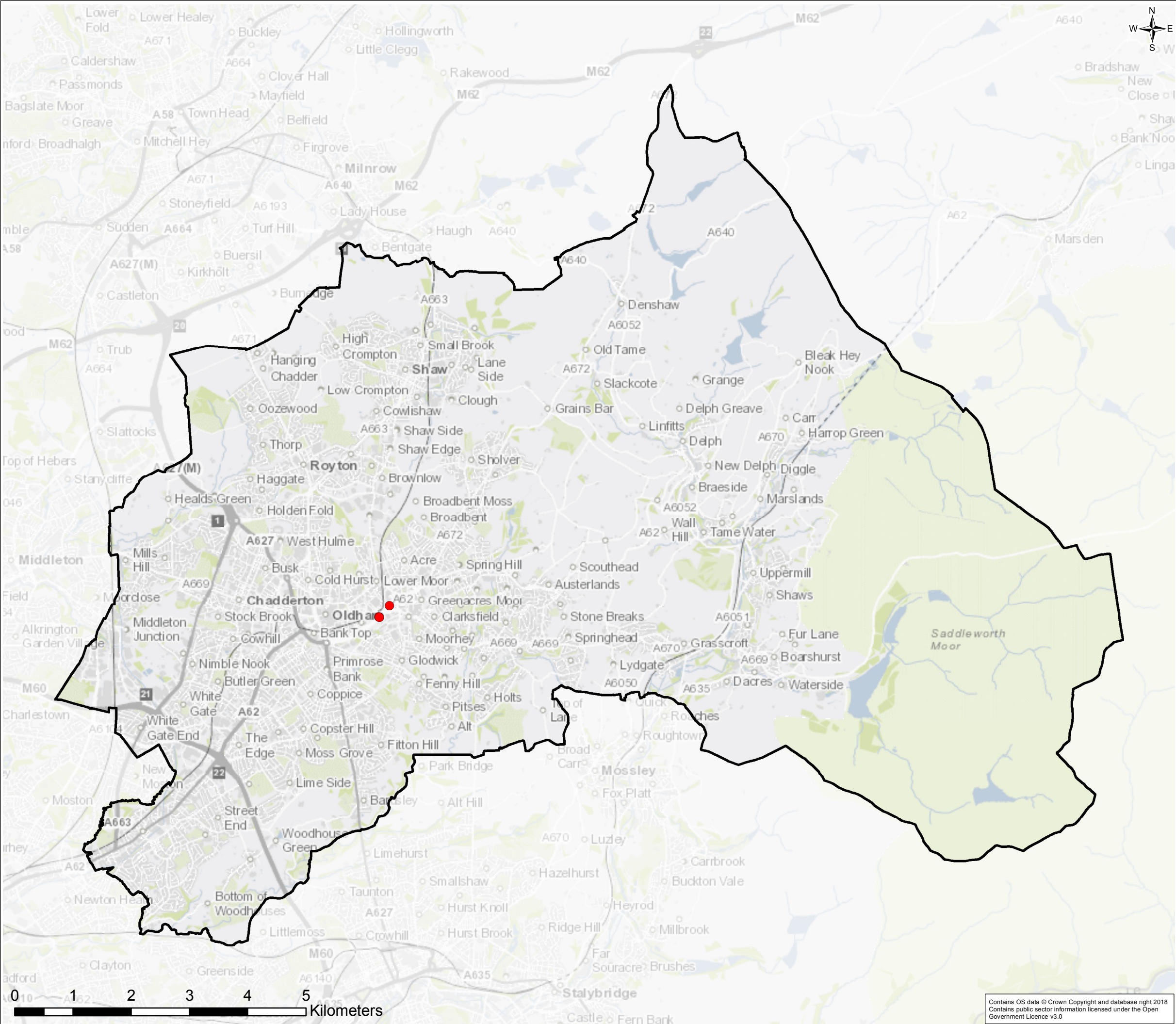


FIGURE 4- Oldham

Greater Manchester District Boundaries

Do Minimum Exceedances 2023

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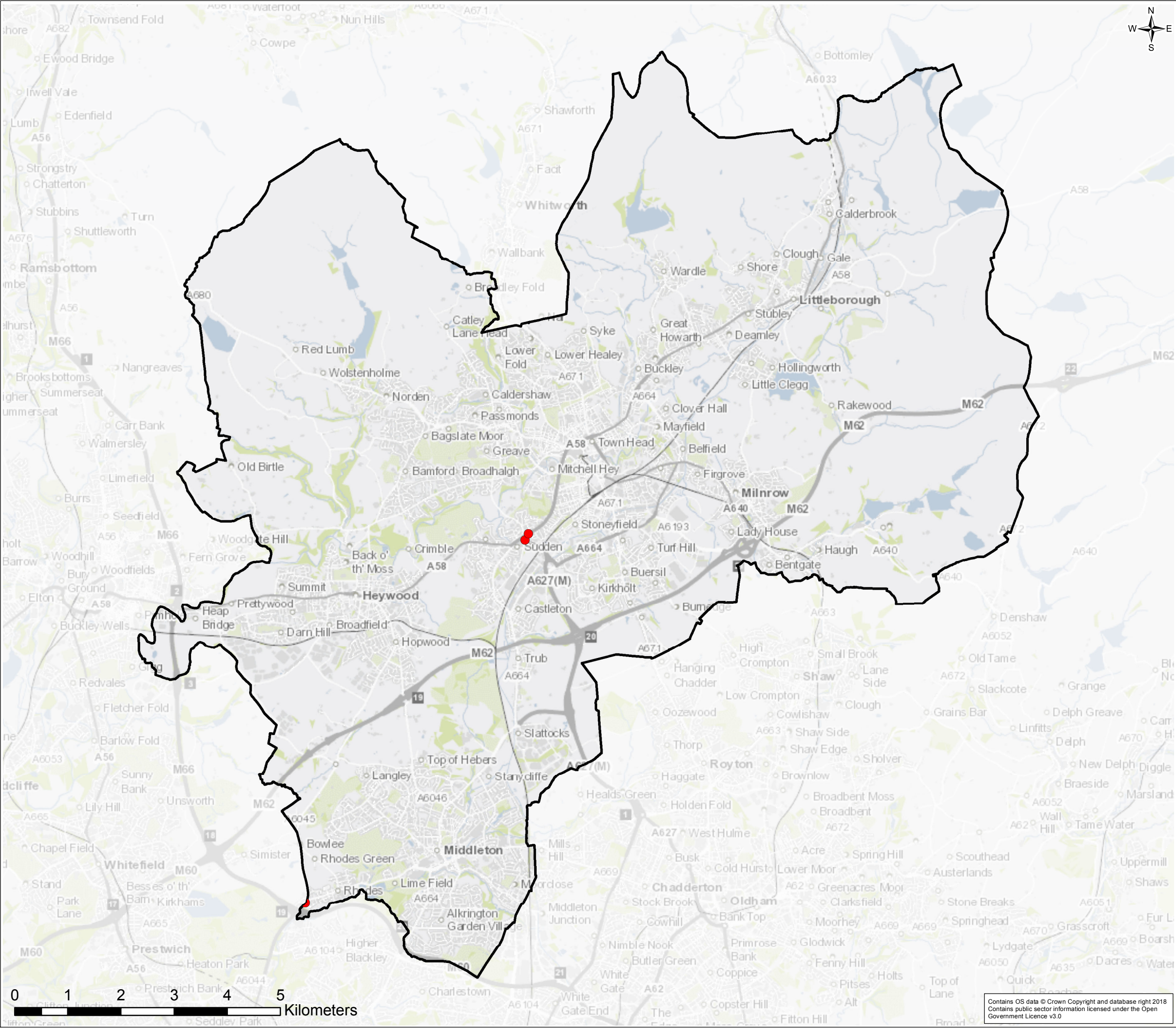


FIGURE 4- Rochdale

Legend

- Greater Manchester District Boundaries
- Do Minimum Exceedances 2023

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Scale @ A3	1:69,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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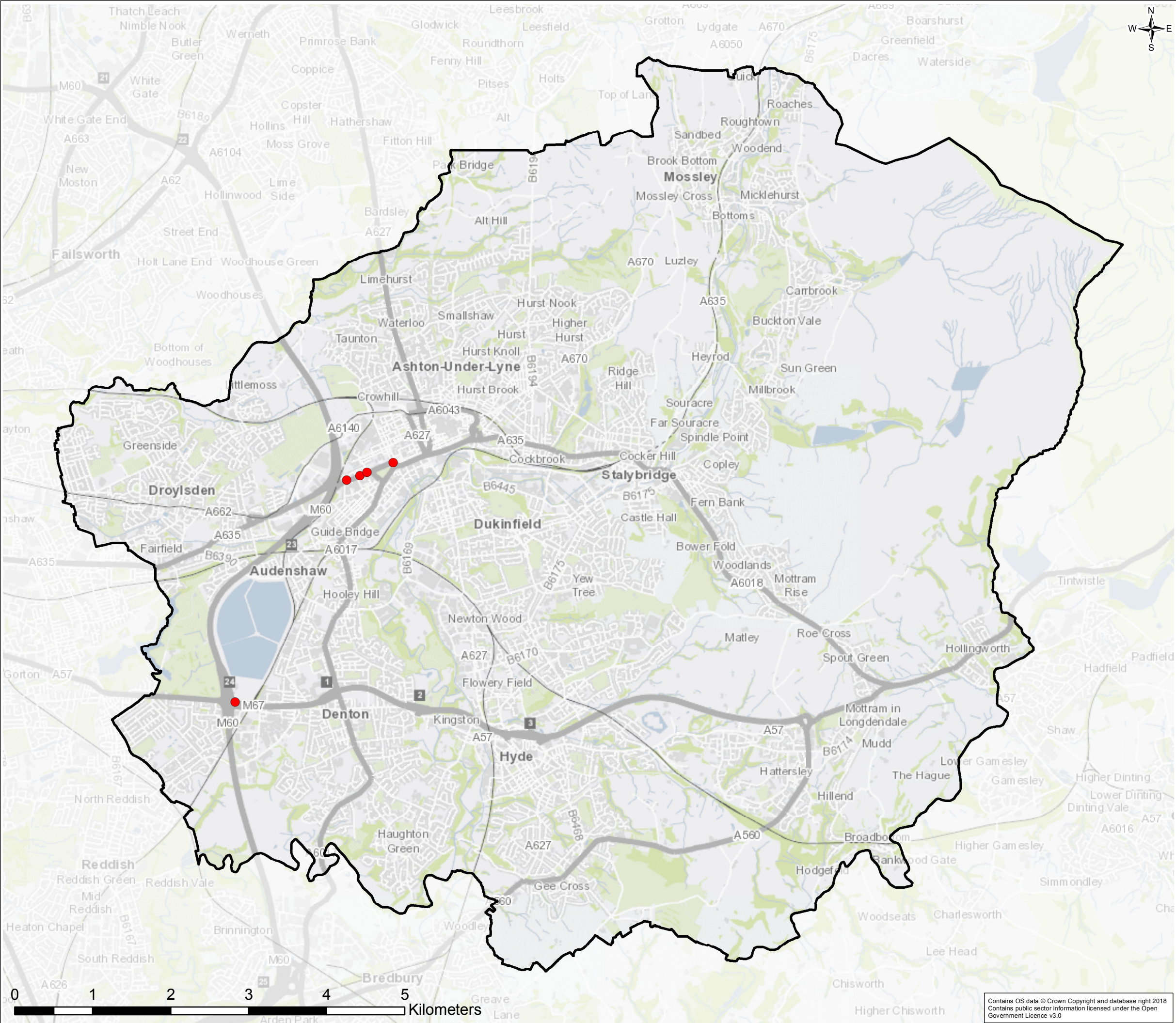


FIGURE 4- Tameside

Greater Manchester District Boundaries

Do Minimum Exceedances 2023

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Drawing Title

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Tameside

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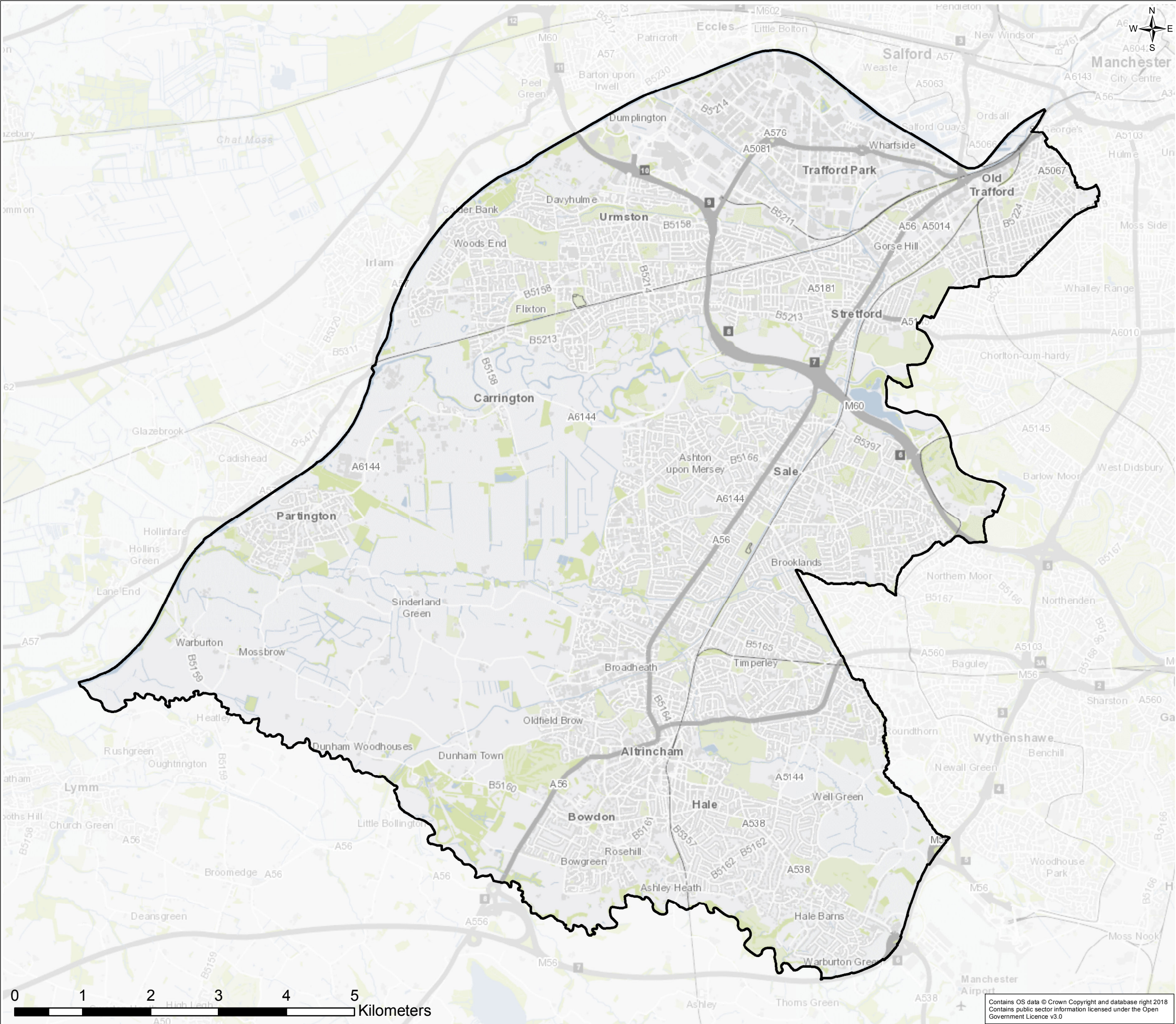


FIGURE 4- Trafford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023



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Drawing Title						
Do Minimum Exceedances – 2023 Trafford						
Scale @ A3		1:54,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
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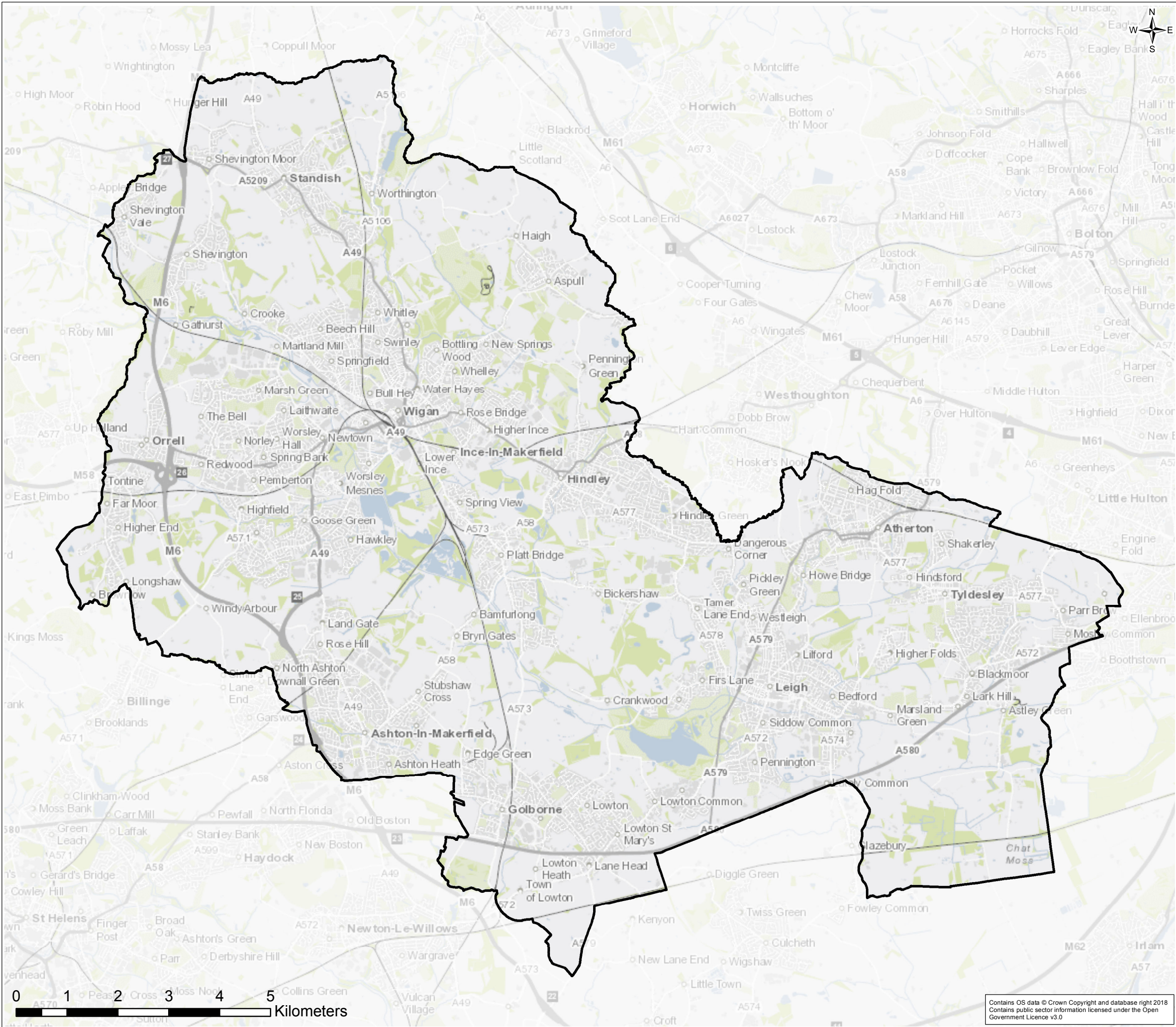


FIGURE 4- Wigan

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023



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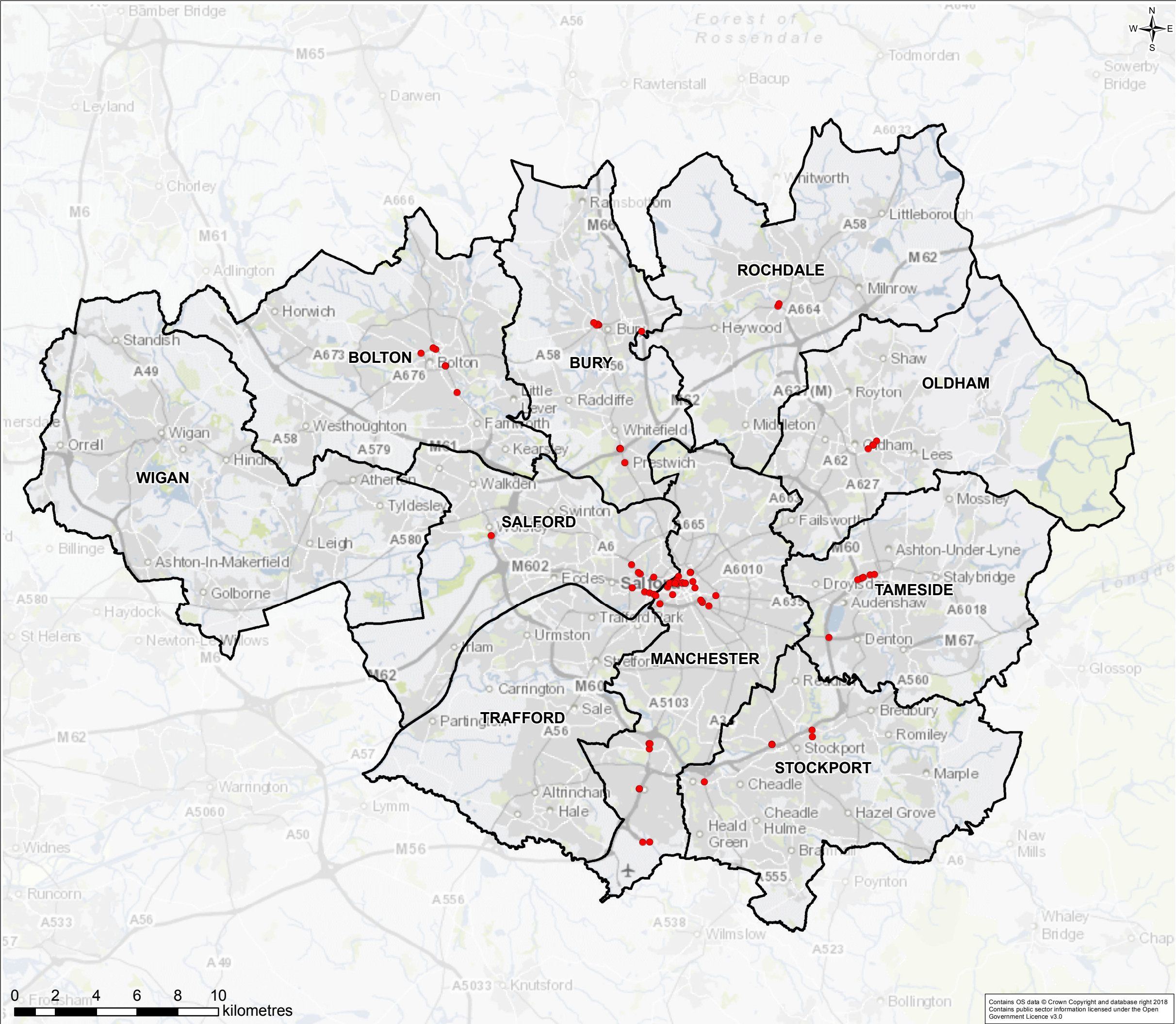
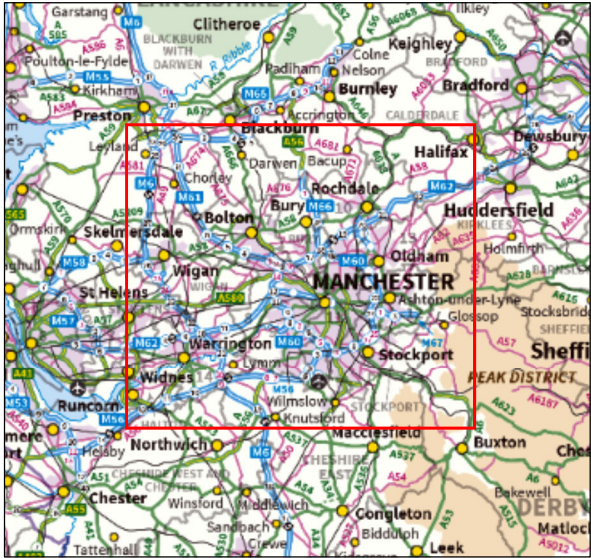


FIGURE 2

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2021



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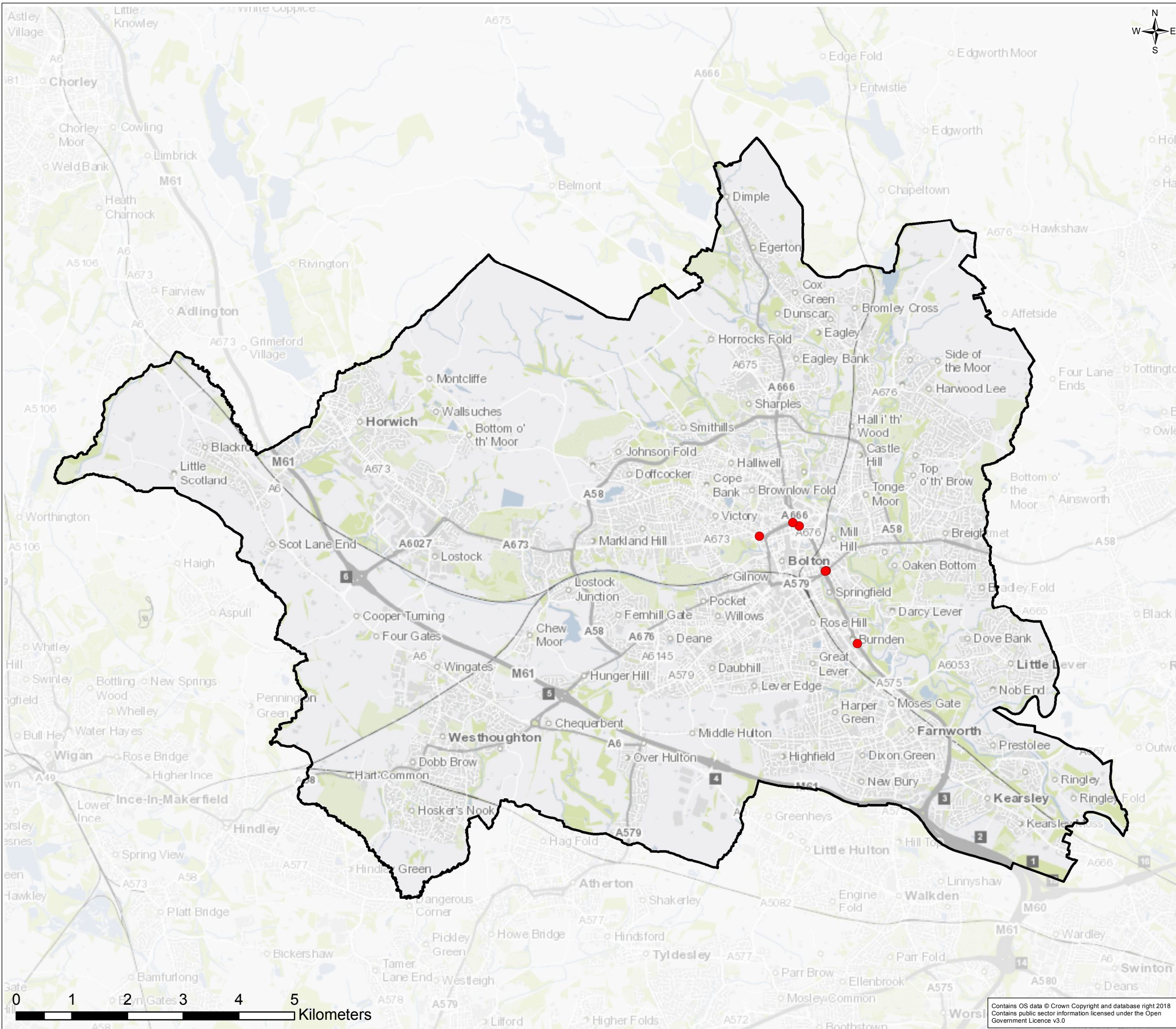


FIGURE 2- Bolton

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2021



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Drawing Title Option 8: Exceedances - 2021 Bolton						
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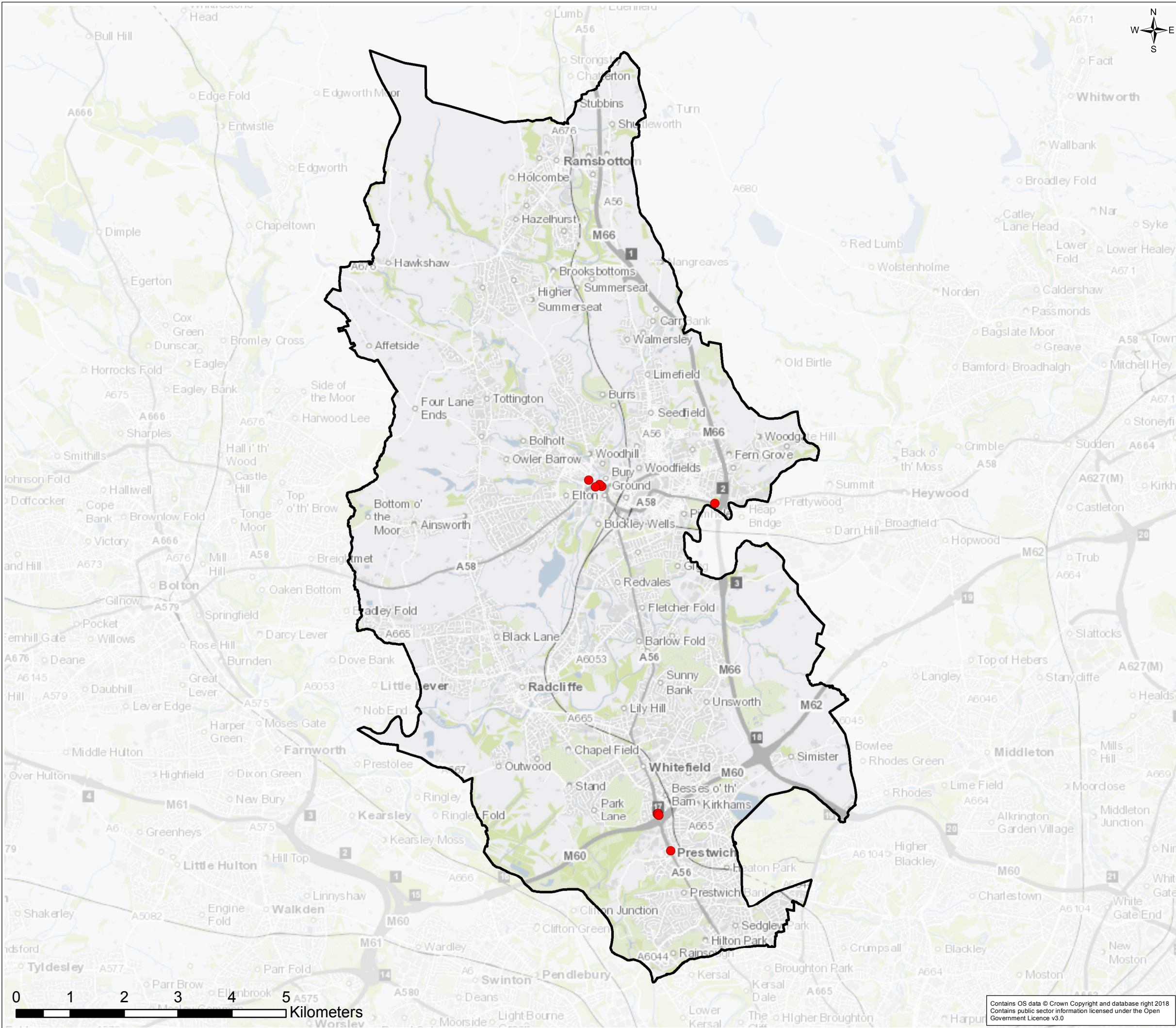


FIGURE 2- Bury

Greater Manchester District Boundaries

Option 8 Exceedances 2021

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Option 8: Exceedances - 2021
Bury

Scale @ A3	1:68,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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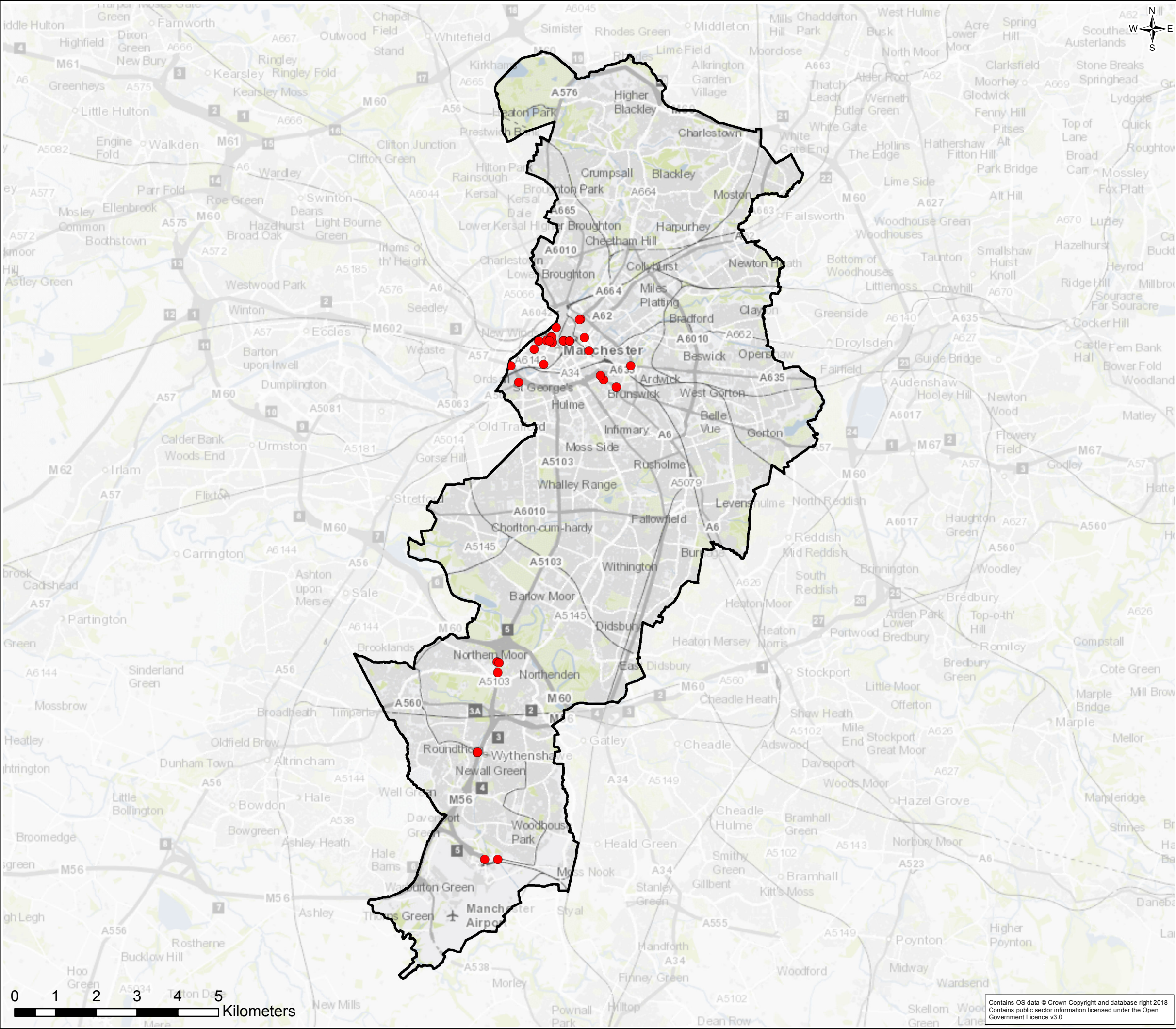


FIGURE 2- Manchester

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2021



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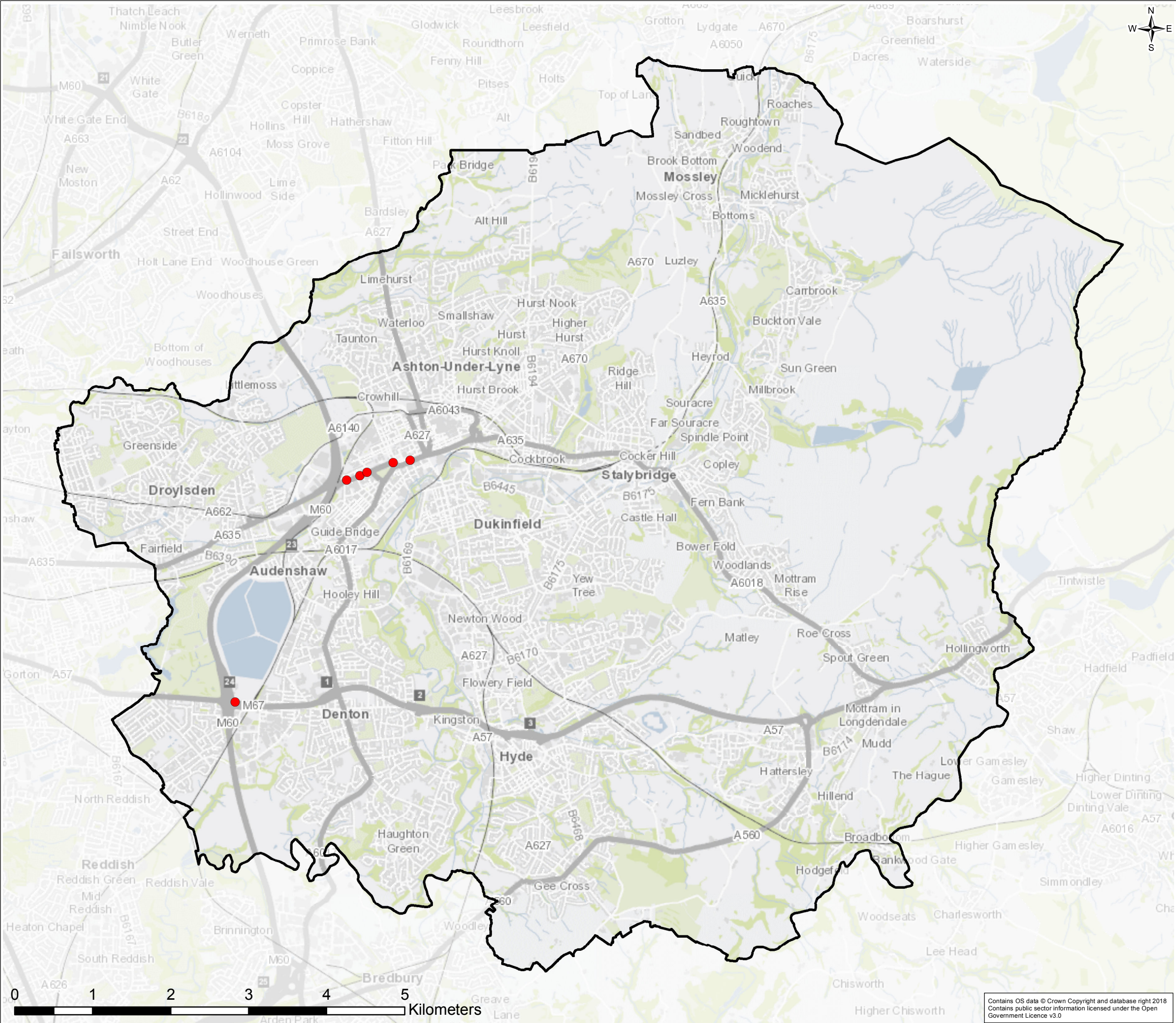


FIGURE 2- Tameside

Greater Manchester District Boundaries

Option 8 Exceedances 2021

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Drawing Title

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Tameside

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Jacobs No.	BTGMO002	

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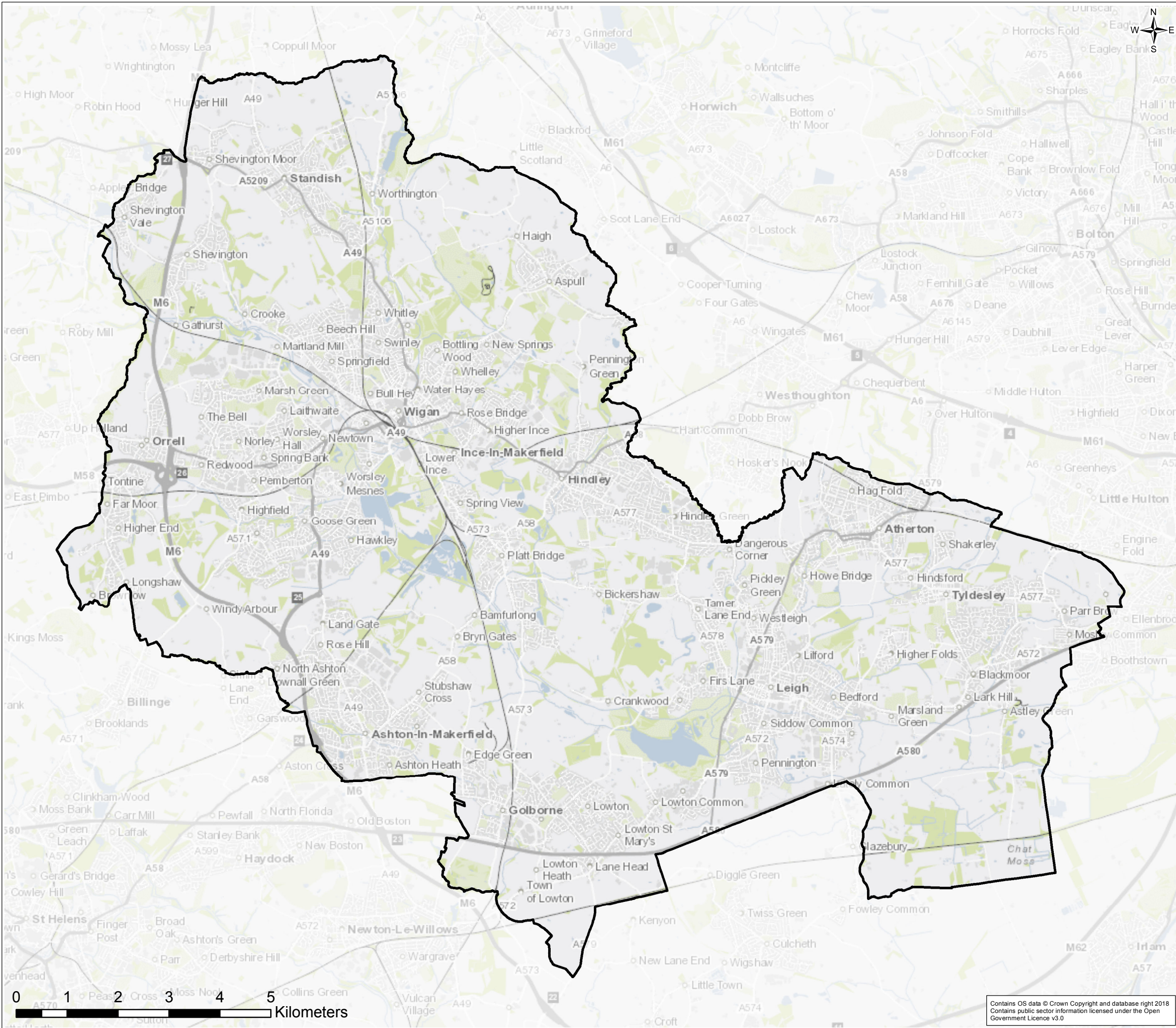


FIGURE 2- Wigan

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2021



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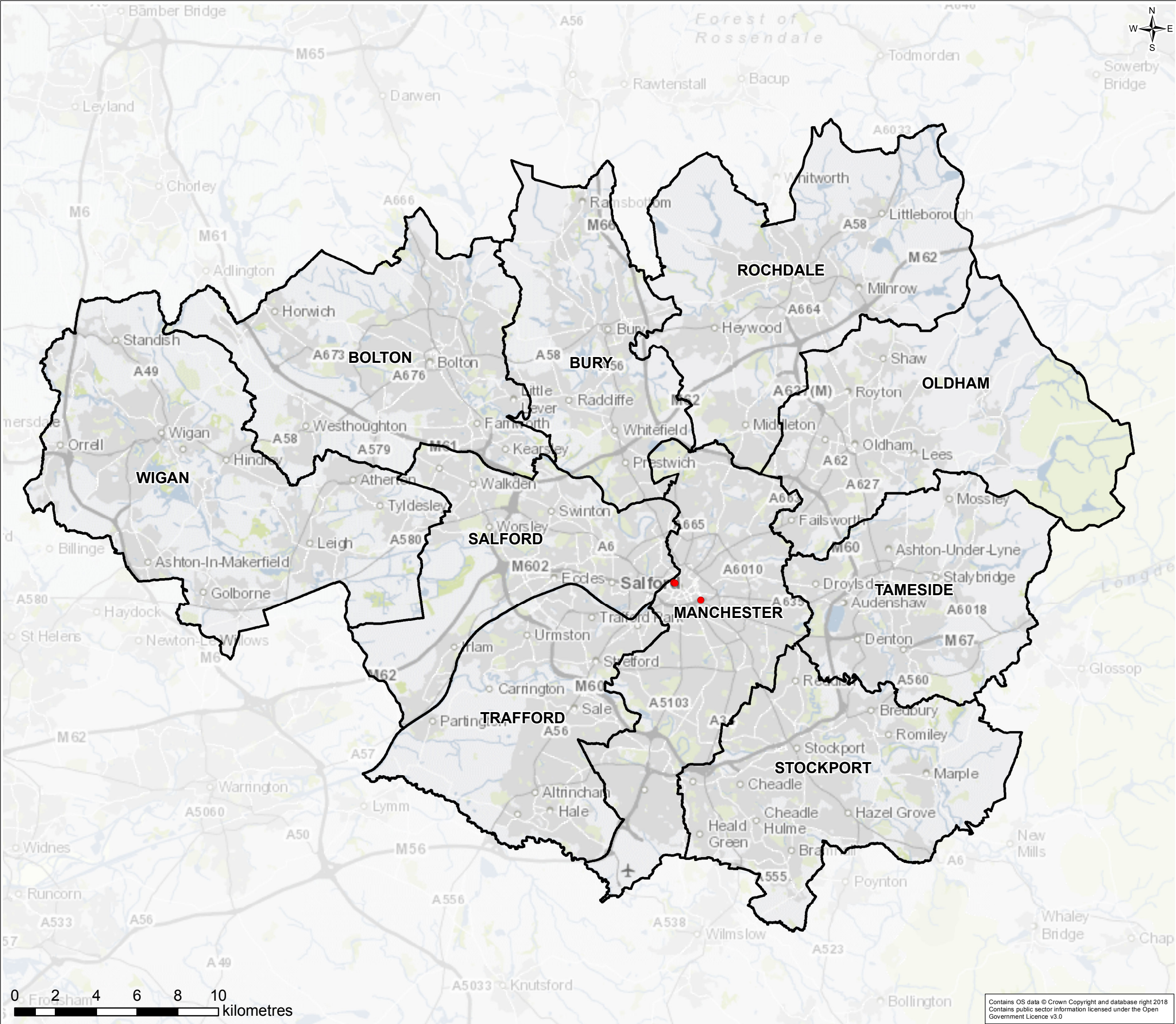
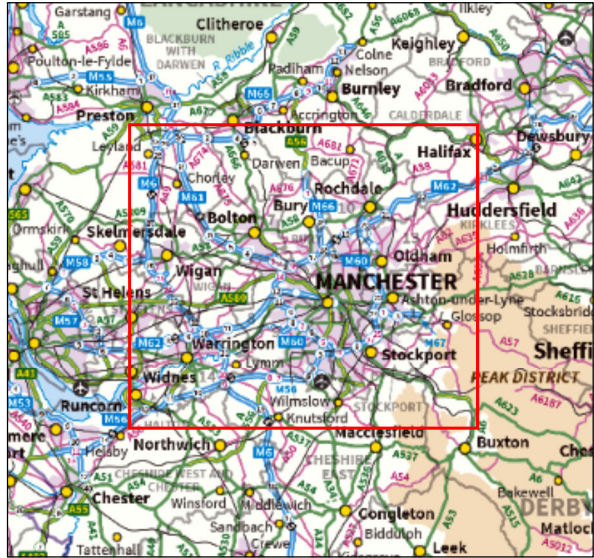


FIGURE 5

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



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Option 8: Exceedances - 2023

Scale @ A3	1:180,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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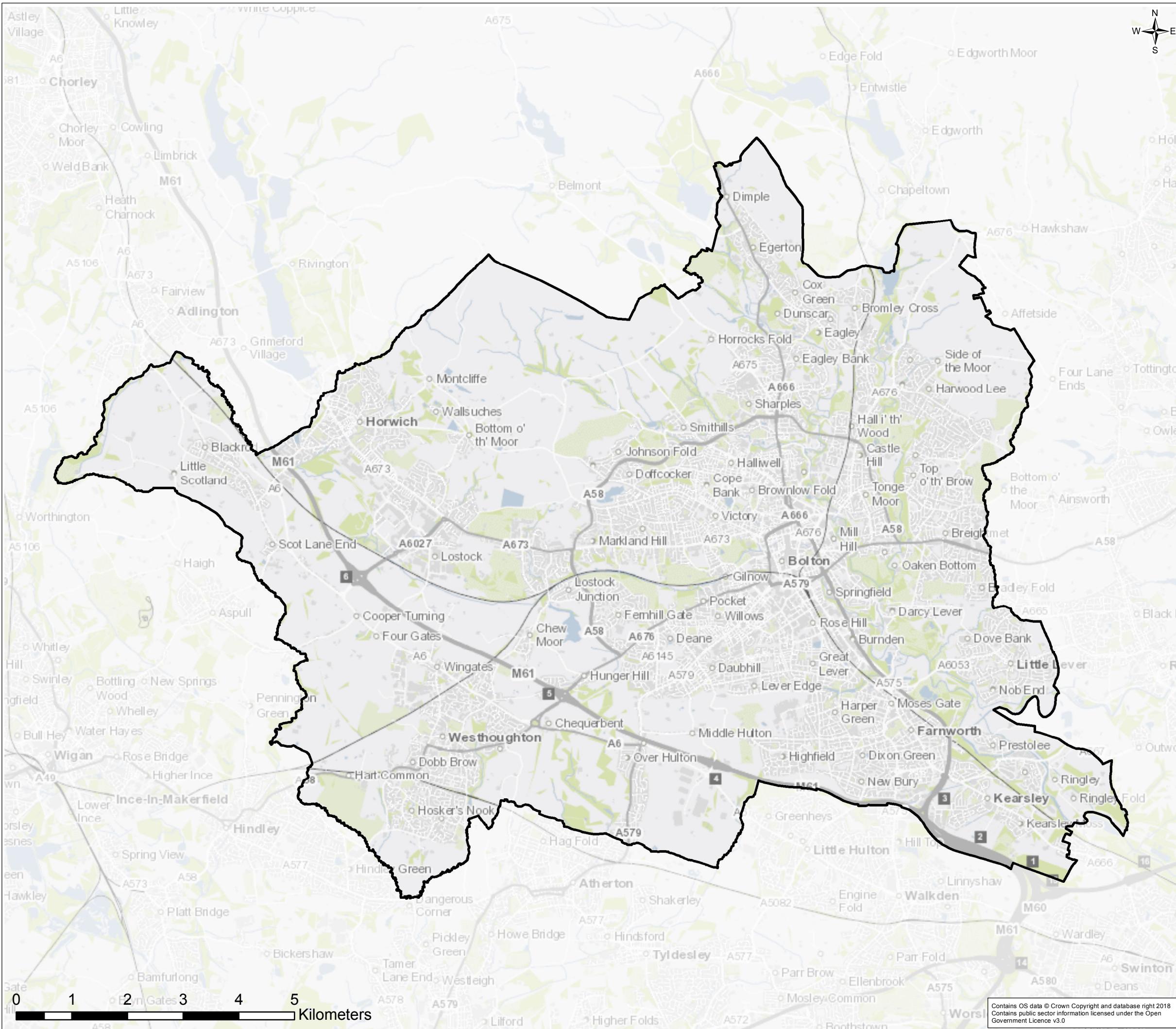


FIGURE 5- Bolton

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



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Drawing Title Option 8: Exceedances – 2023 Bolton						
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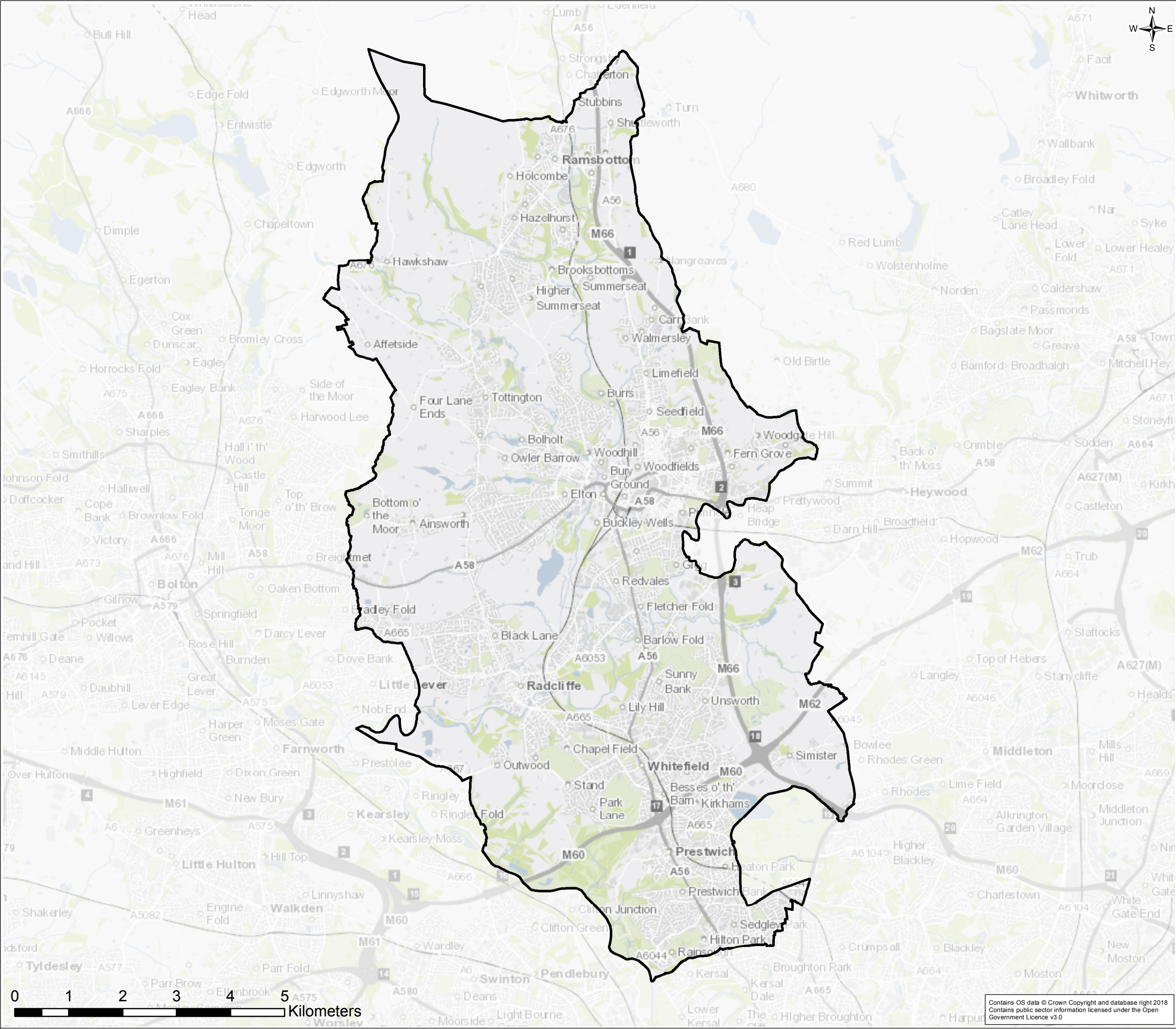


FIGURE 5- Bury

Greater Manchester District Boundaries

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Project

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Drawing Title

Option 8: Exceedances – 2023
Bury

Scale @ A3	1:68,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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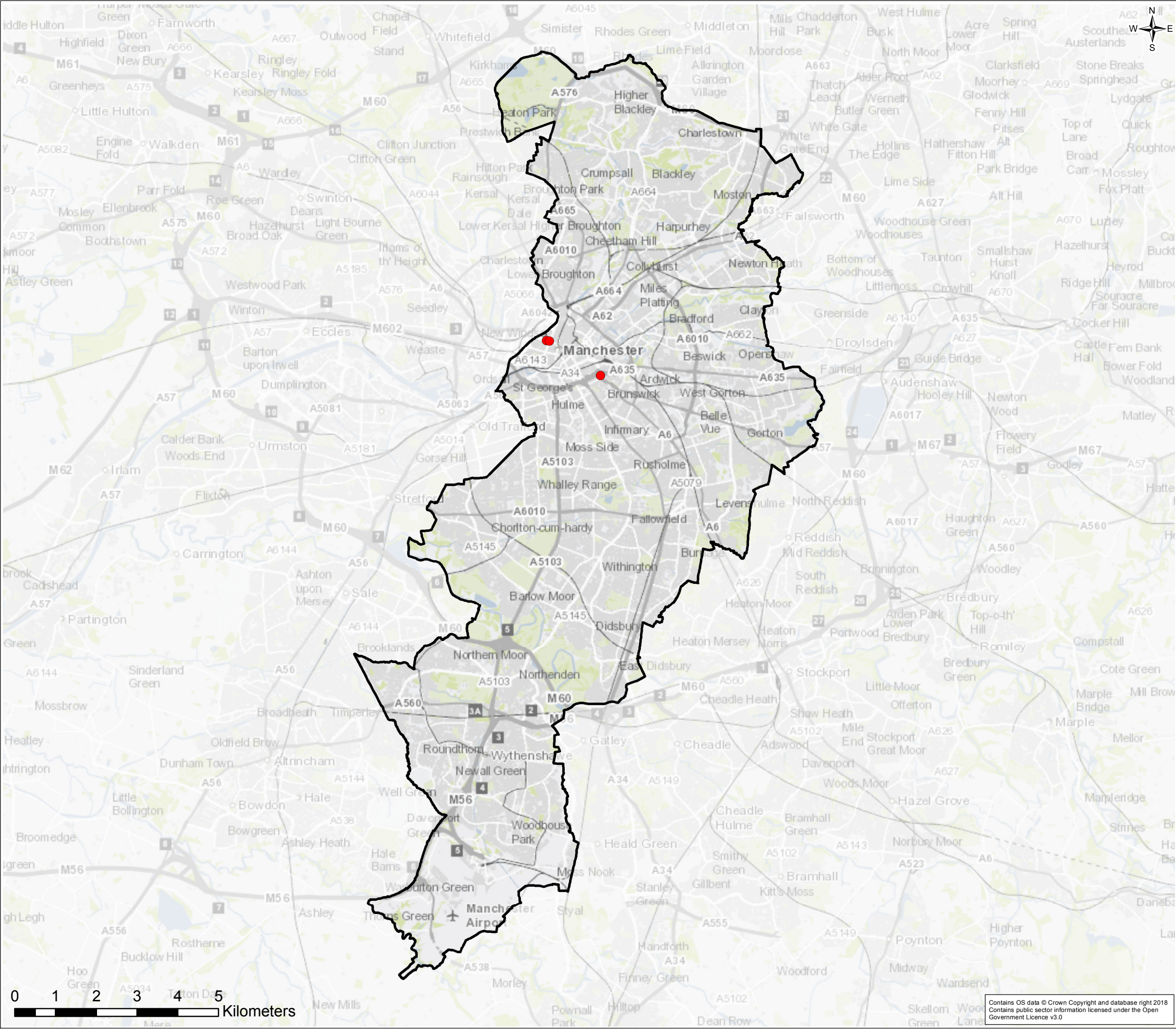


FIGURE 5- Manchester

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
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Drawing Title Option 8: Exceedances – 2023 Manchester						
Scale @ A3		1:90,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

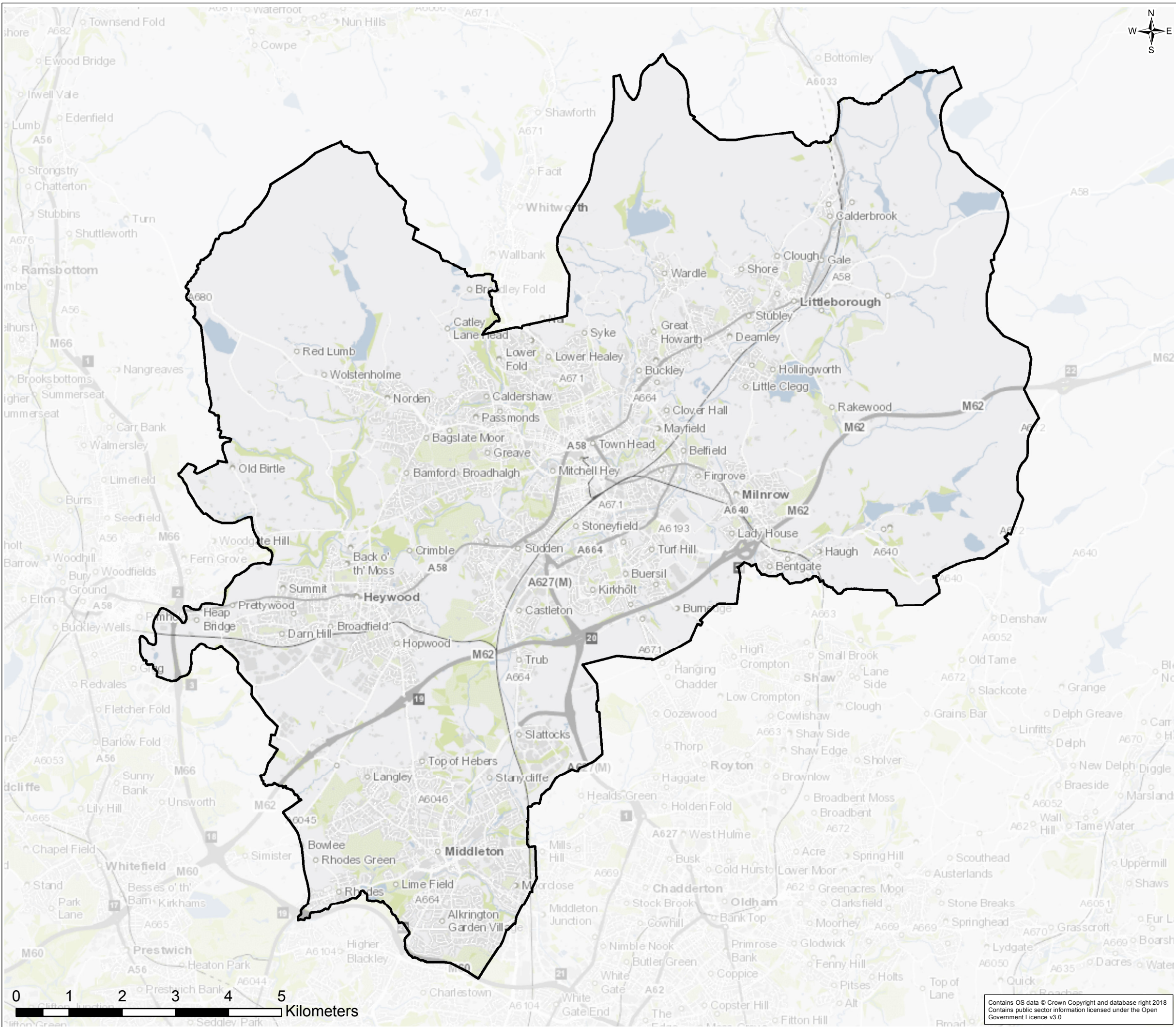


FIGURE 5- Rochdale

Greater Manchester District Boundaries

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Option 8: Exceedances – 2023
Rochdale

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Jacobs No.	BTGMO002	

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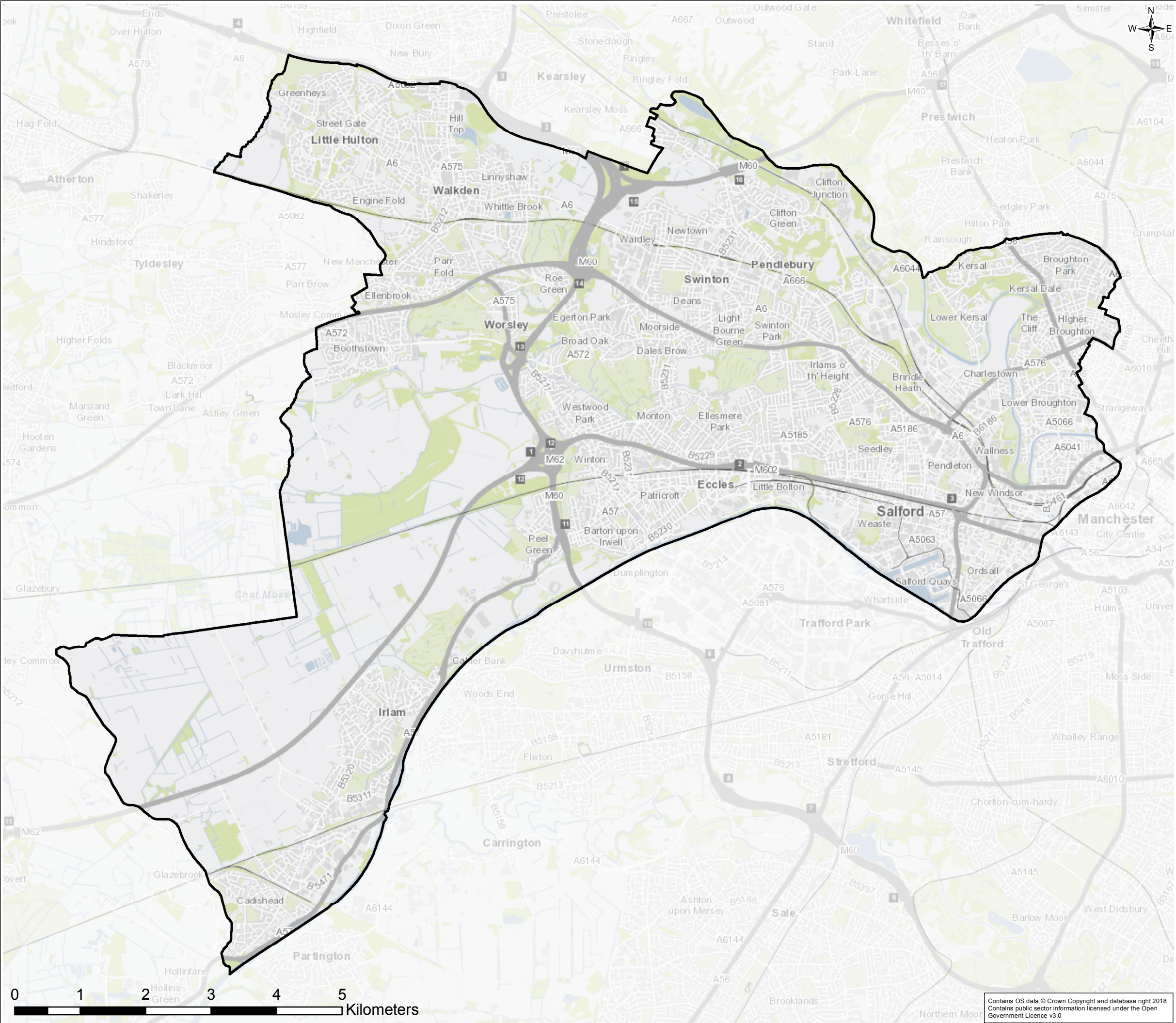


FIGURE 5- Salford

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue		RW	-	-	-
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	App'd
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Client  Transport for Greater Manchester							
Project Greater Manchester Clean Air Plan							
Drawing Title Option 8: Exceedances – 2023 Salford							
Scale @ A3		1:56,000				DO NOT SCALE	
Jacobs No.		BTGMO002					
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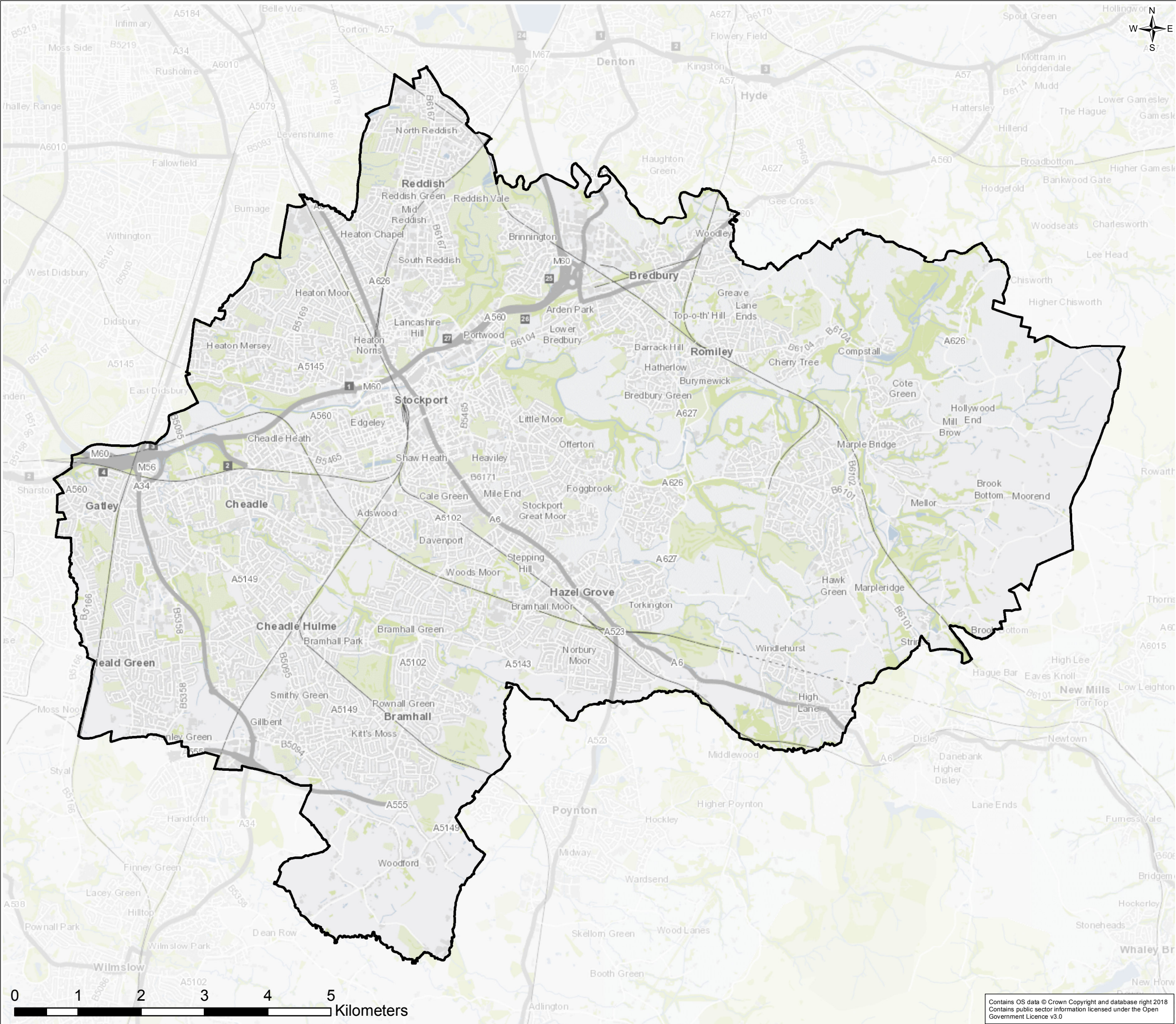


FIGURE 5- Stockport

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
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Client						
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Project						
Greater Manchester Clean Air Plan						
Drawing Title						
Option 8: Exceedances – 2023 Stockport						
Scale @ A3		1:58,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

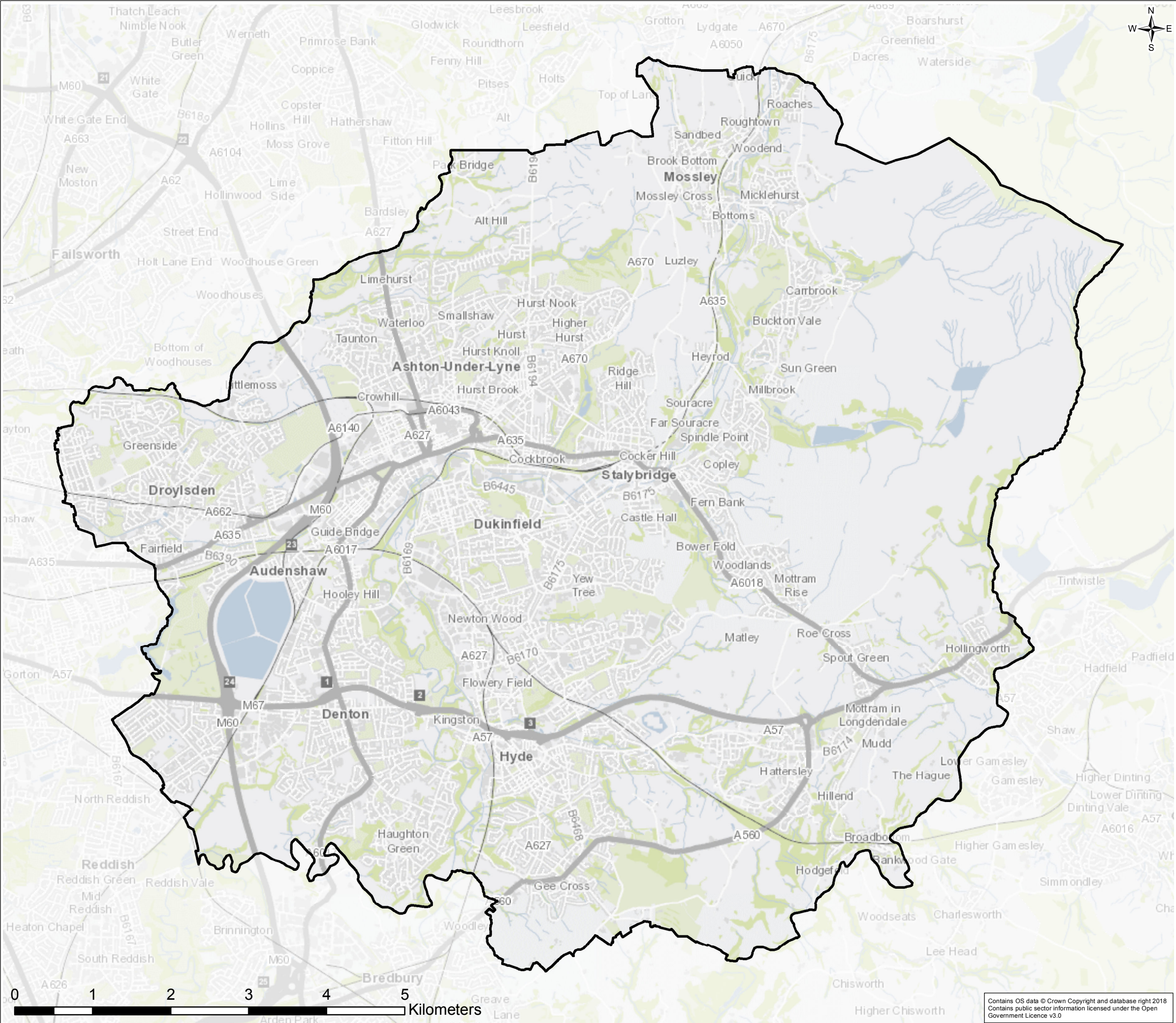


FIGURE 5- Tameside

Greater Manchester District Boundaries

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Greater Manchester

Client

Project

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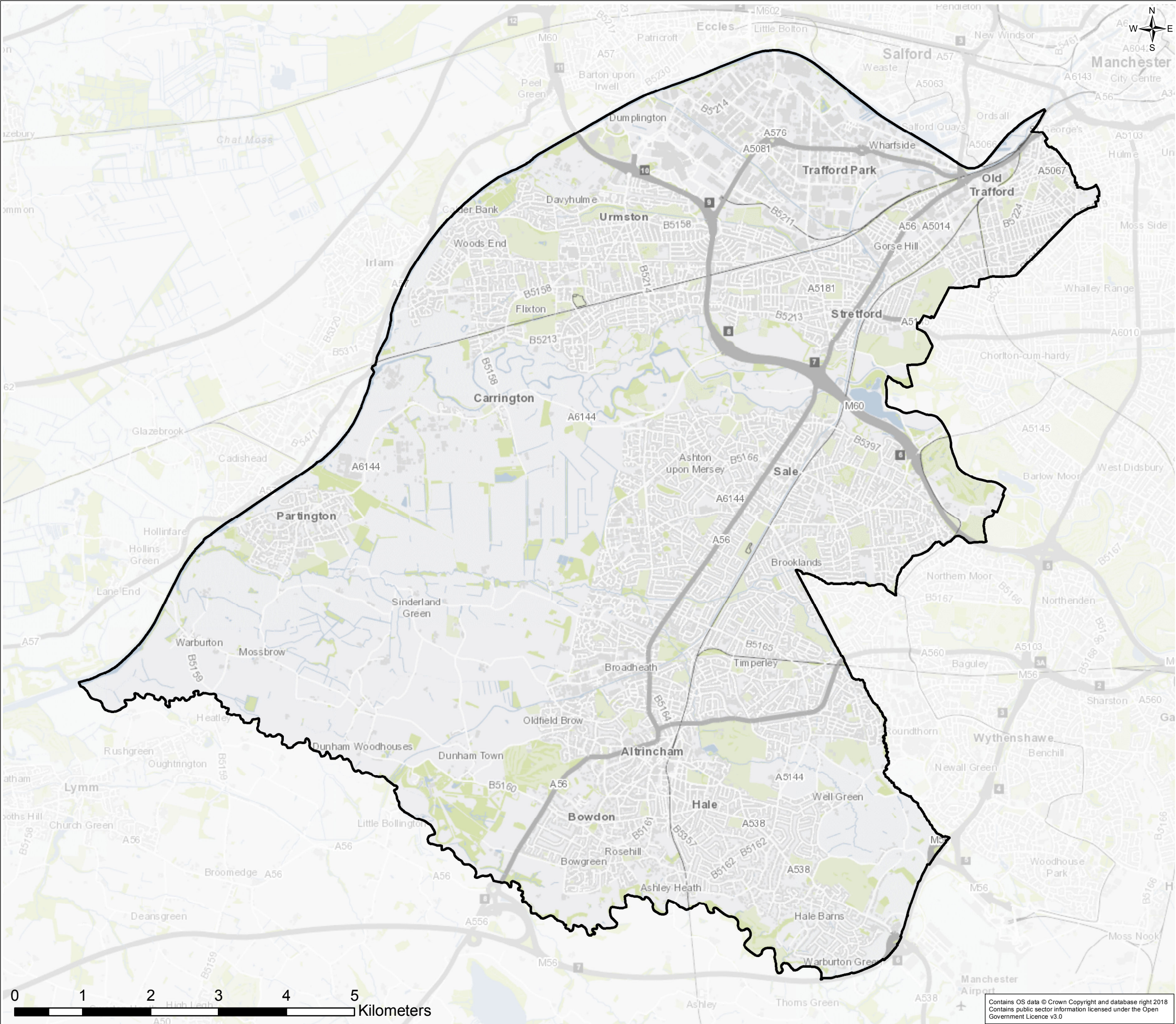
Drawing Title

Option 8: Exceedances – 2023
Tameside

Scale @ A3	1:47,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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FIGURE 5- Trafford

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Project						
Greater Manchester Clean Air Plan						
Drawing Title						
Option 8: Exceedances – 2023 Trafford						
Scale @ A3		1:54,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

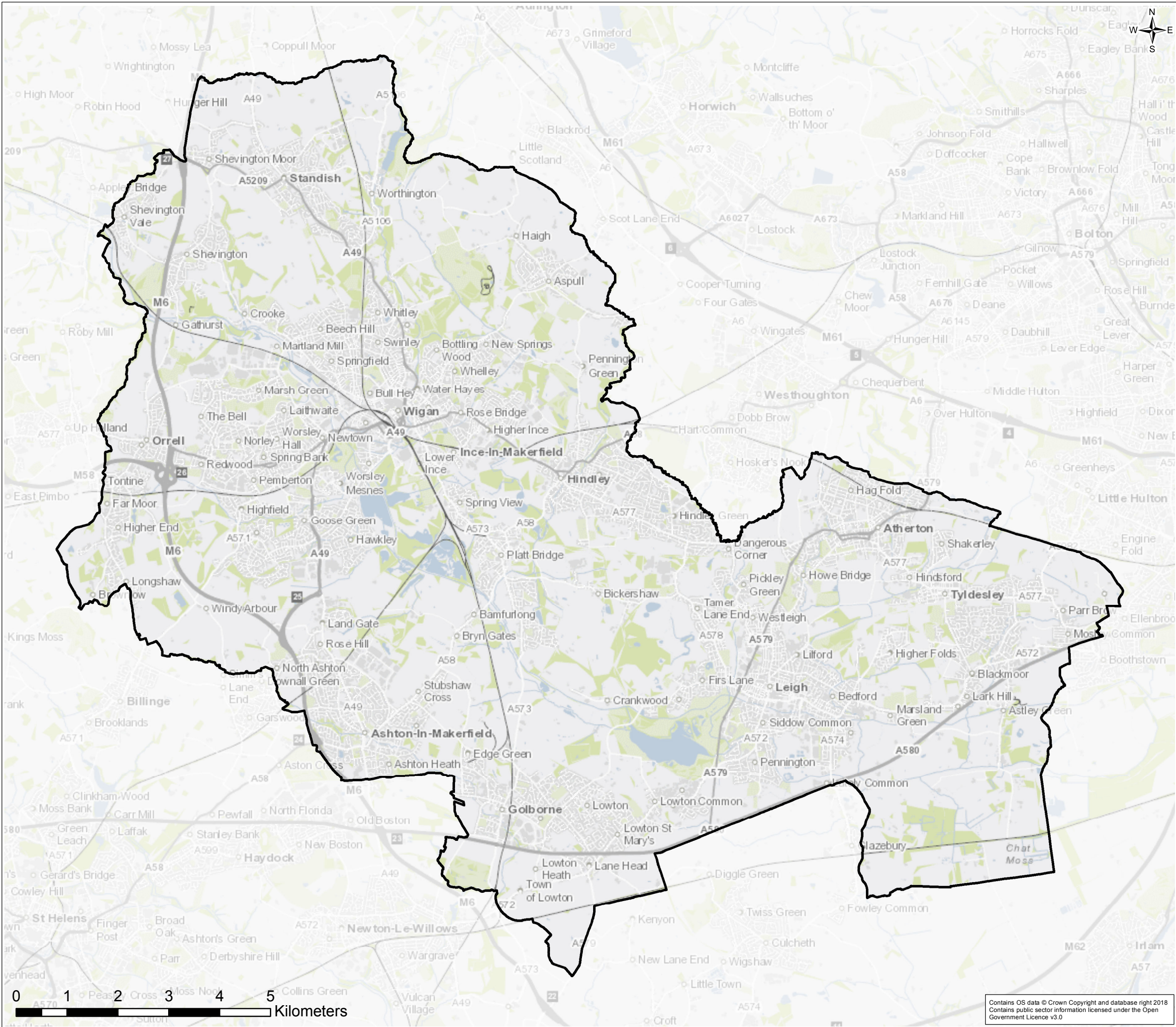


FIGURE 5- Wigan

- Legend
- Greater Manchester District Boundaries
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	--	--	--
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
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Drawing Title Option 8: Exceedances – 2023 Wigan						
Scale @ A3		1:72,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

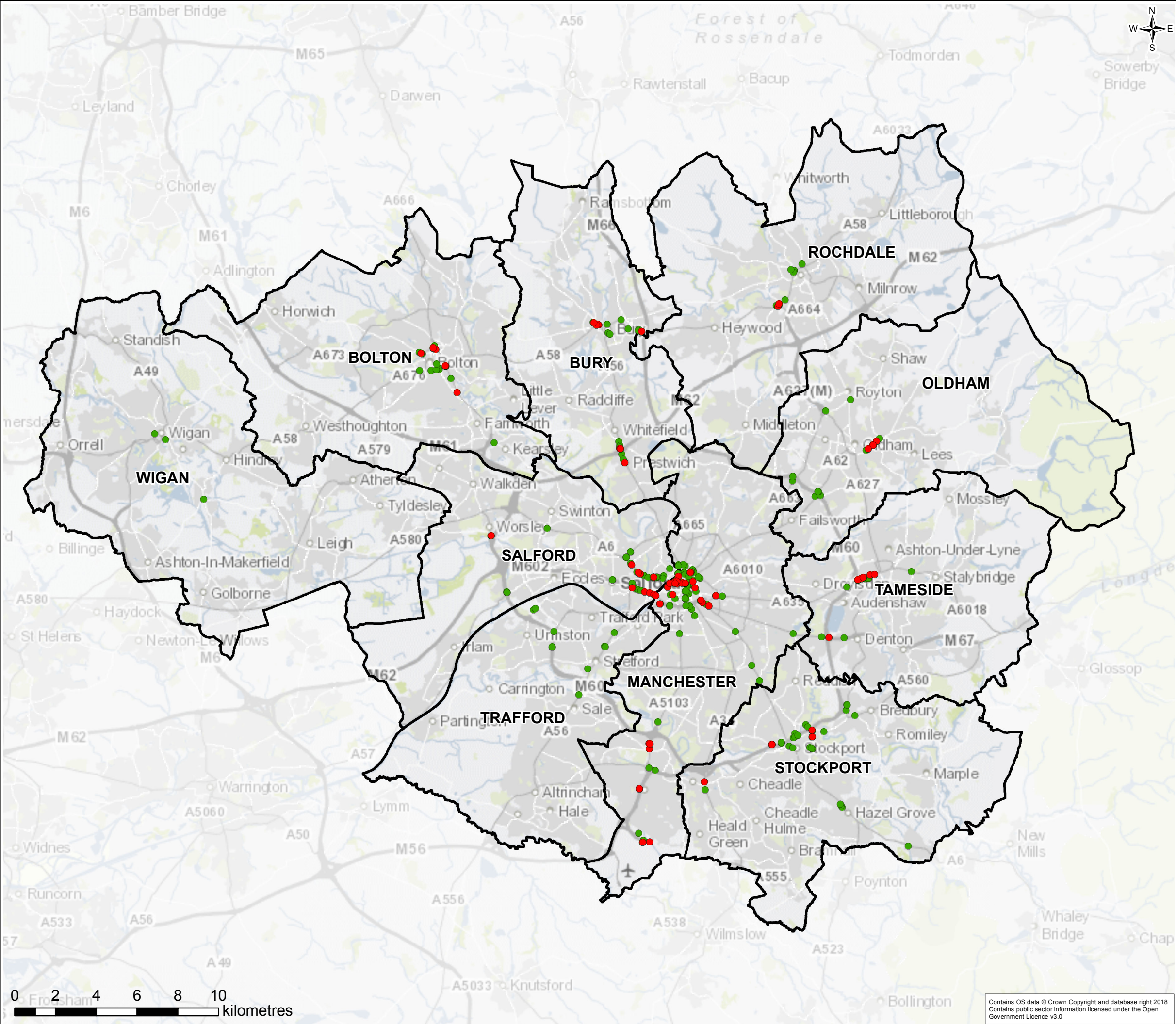
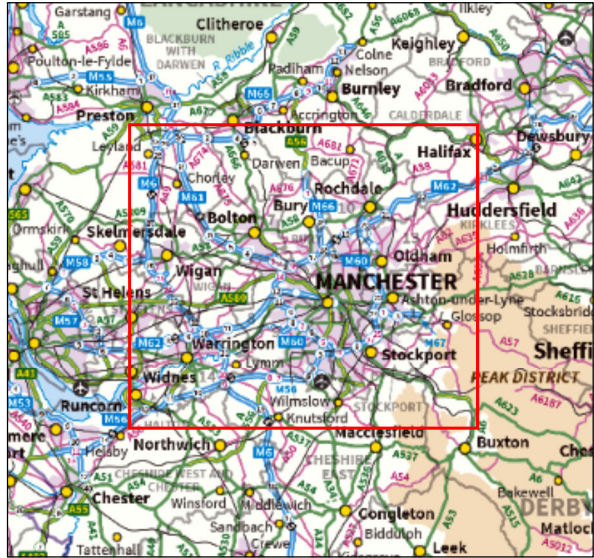


FIGURE 3

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Scale @ A3	1:180,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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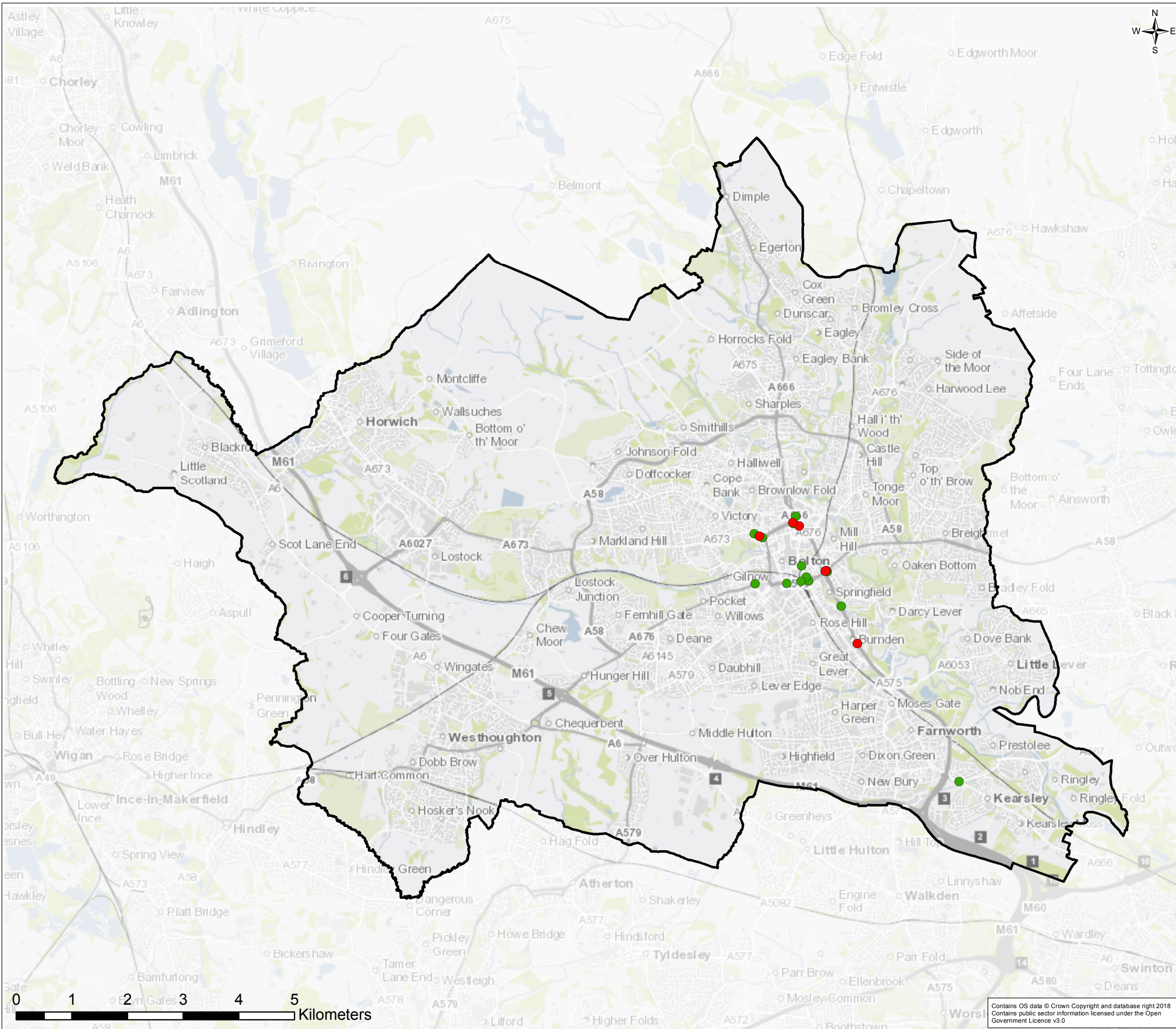


FIGURE 3- Bolton

Legend

- Greater Manchester District Boundaries
- Do Minimum Exceedances 2021
- Option 8 Exceedances 2021

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Drawing Title

Option 8: Removed and Remaining Exceedances - 2021
Bolton

Scale @ A3	1:66,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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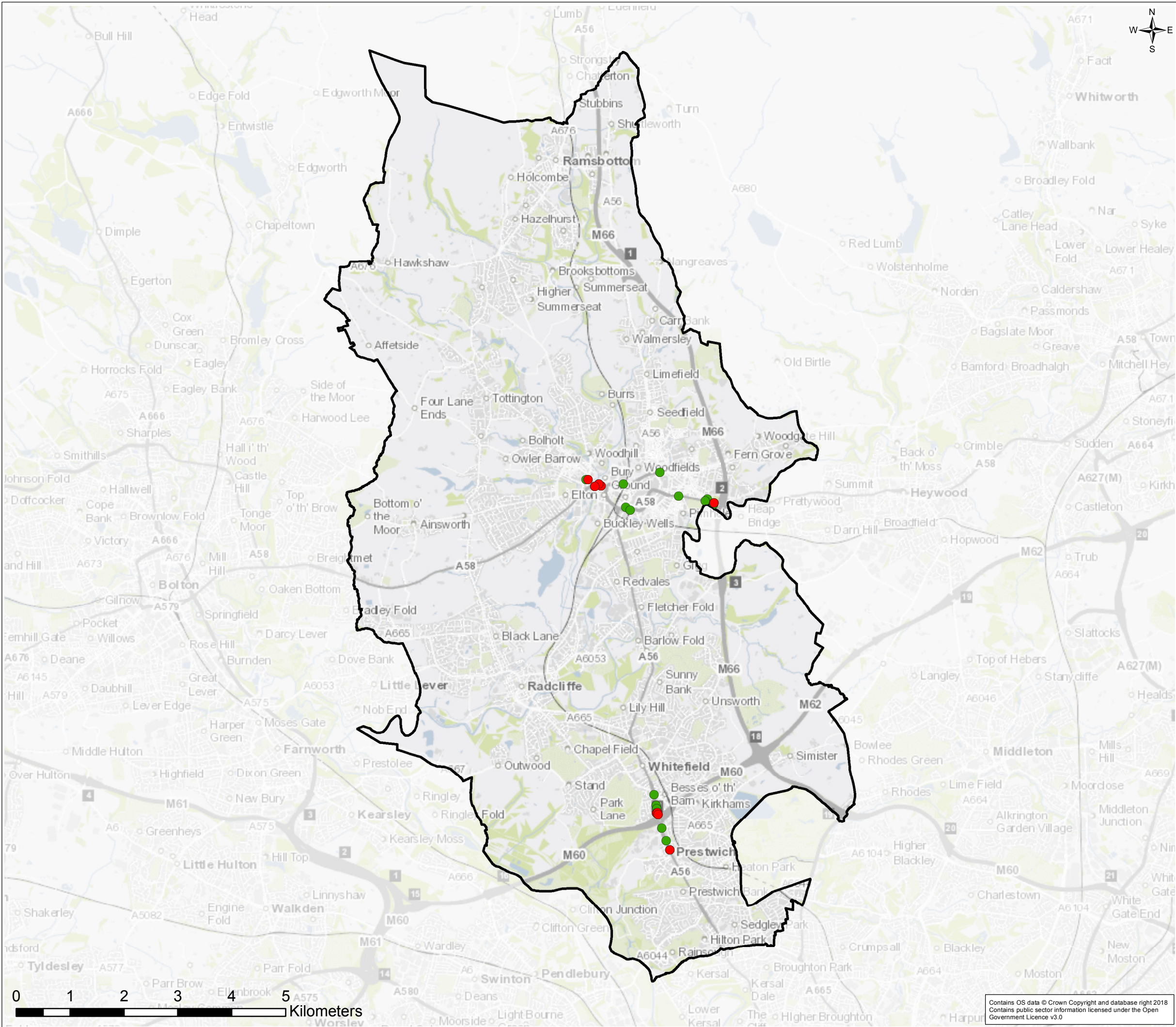


FIGURE 3- Bury

Greater Manchester District Boundaries

Do Minimum Exceedances 2021

Option 8 Exceedances 2021

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Drawing Title
Option 8: Removed and Remaining Exceedances - 2021
Bury

Scale @ A31:68,000DO NOT SCALE

Jacobs No.BTGM0002

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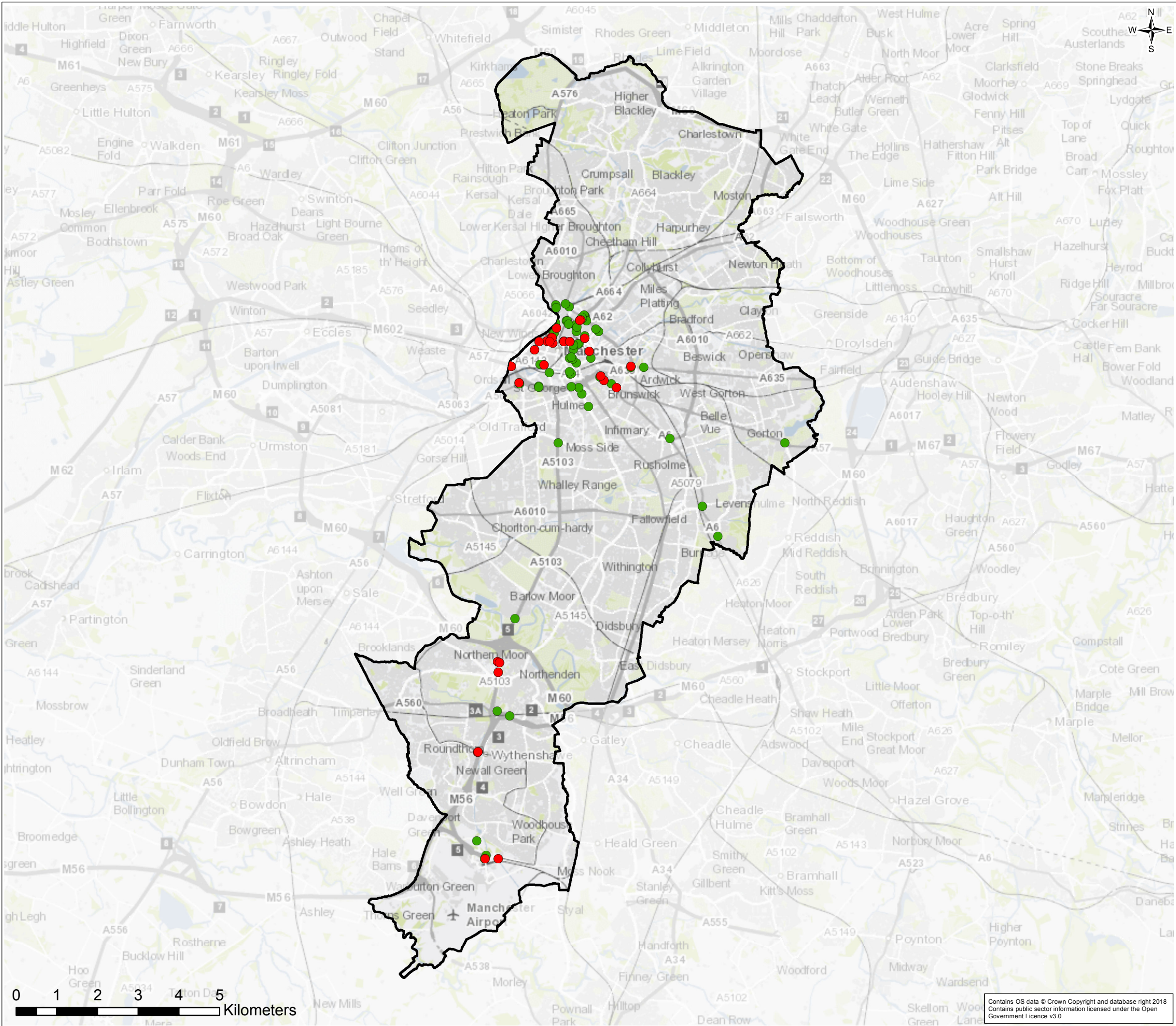


FIGURE 3- Manchester

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue		RW	-	-	-
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Client  Transport for Greater Manchester							
Project Greater Manchester Clean Air Plan							
Drawing Title Option 8: Removed and Remaining Exceedances - 2021 Manchester							
Scale @ A3		1:90,000			DO NOT SCALE		
Jacobs No.		BTGMO002					
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							

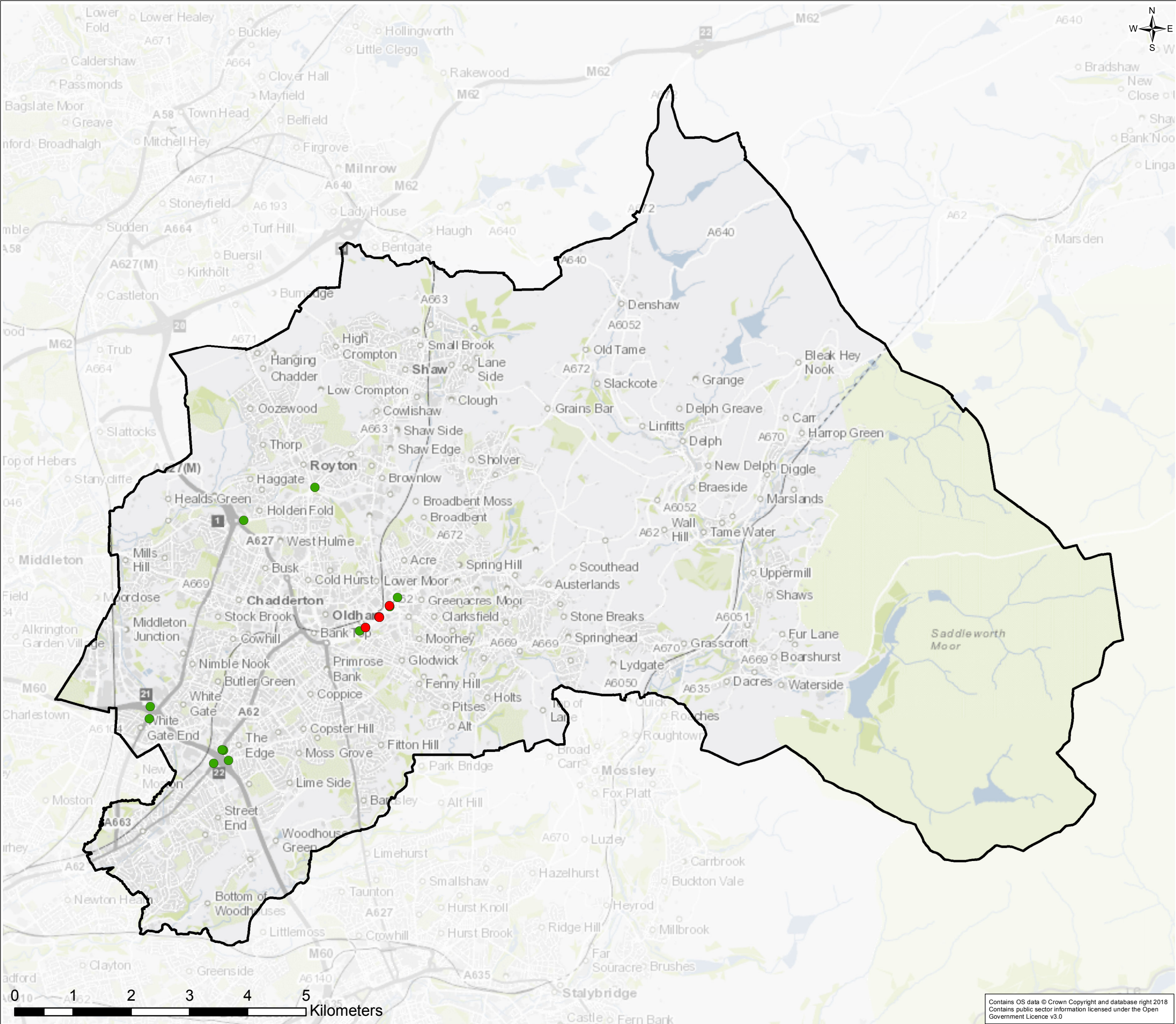


FIGURE 3- Oldham

Greater Manchester District Boundaries

Do Minimum Exceedances 2021

Option 8 Exceedances 2021

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Drawing Title

Option 8: Removed and Remaining Exceedances - 2021
Oldham

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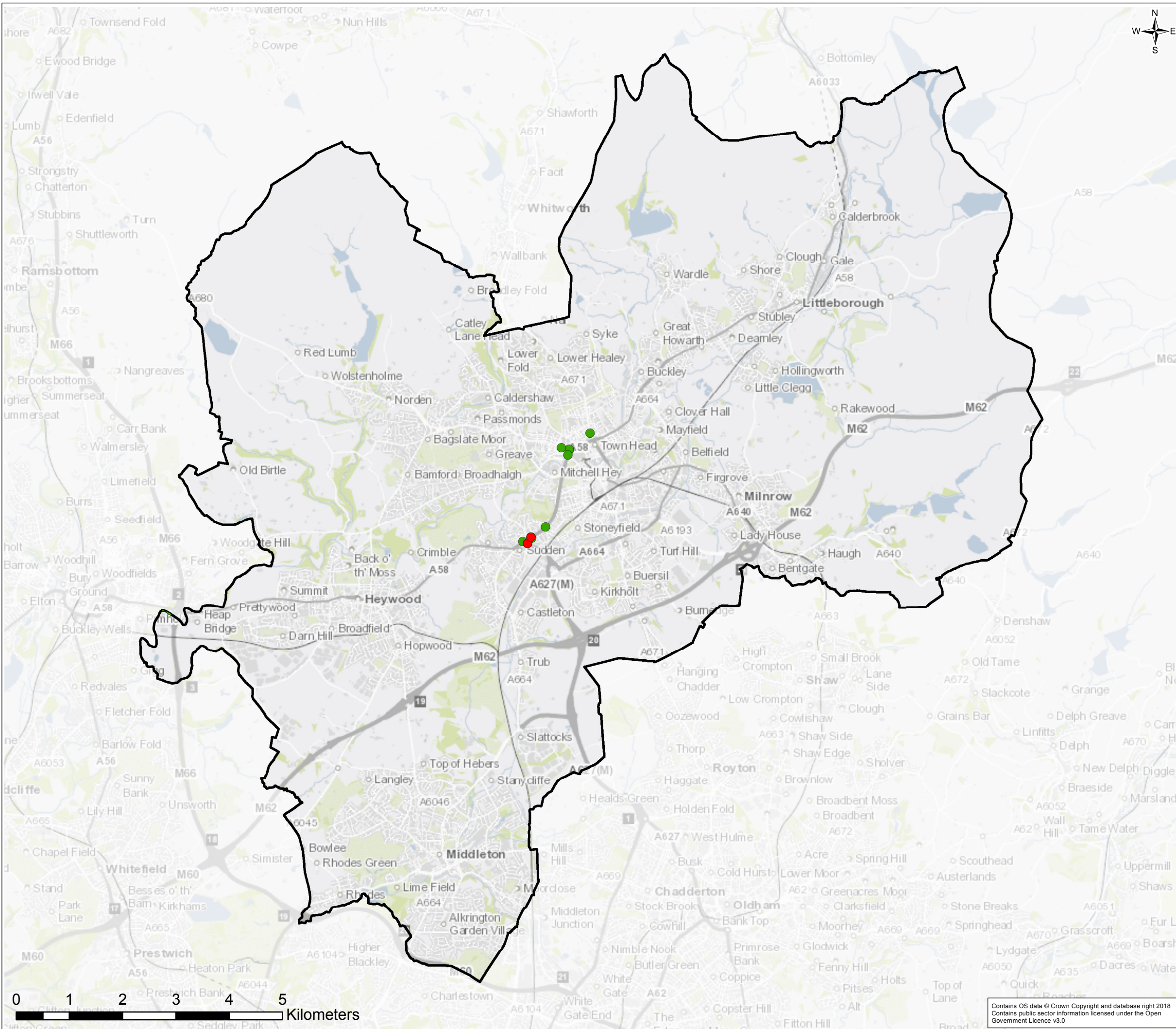


FIGURE 3- Rochdale

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Drawing Title
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Rochdale

Scale @ A3 1:69,000 DO NOT SCALE

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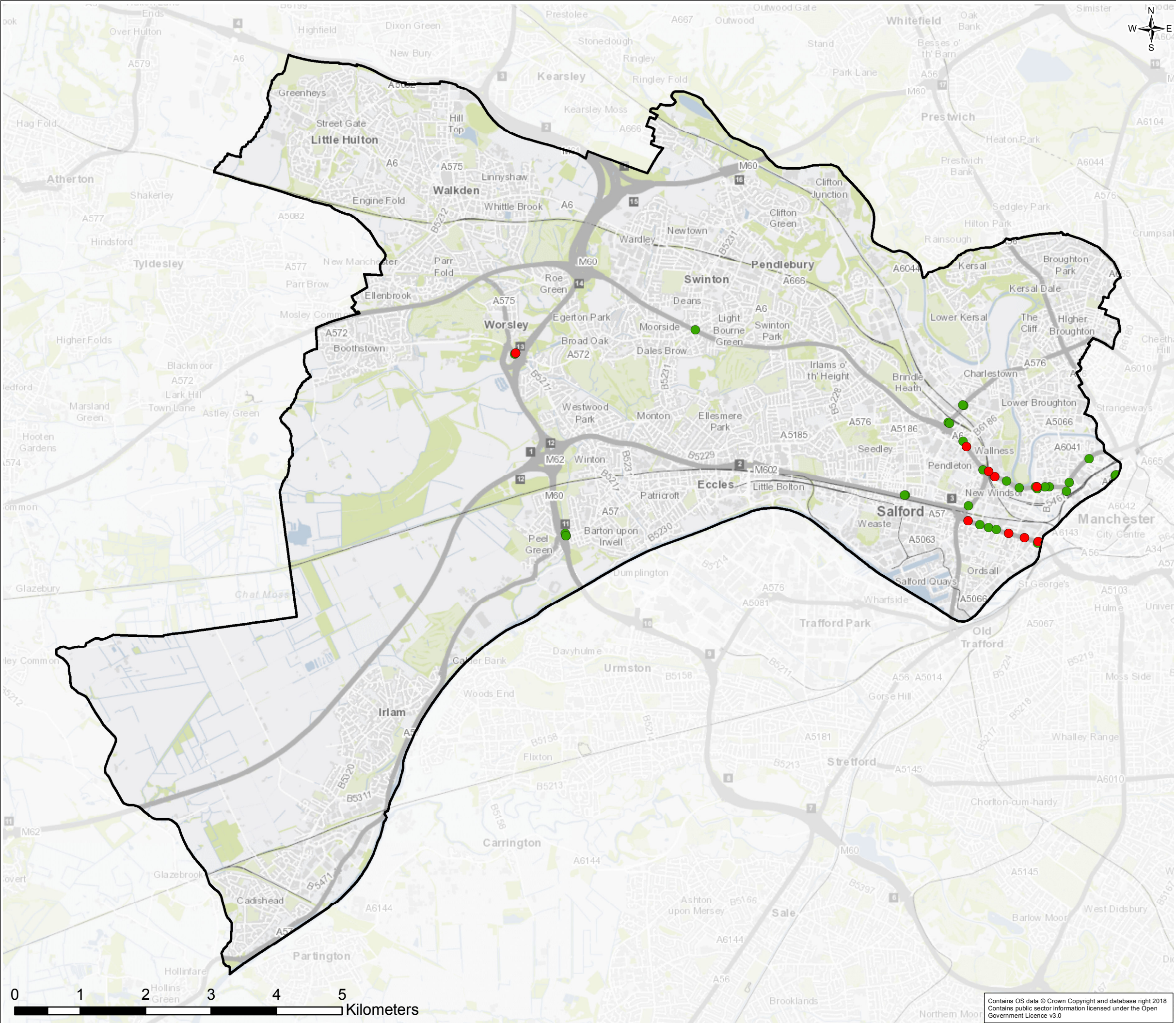


FIGURE 3- Salford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
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Drawing Title Option 8: Removed and Remaining Exceedances - 2021 Salford						
Scale @ A3 1:56,000 DO NOT SCALE						
Jacobs No. BTGMO002						
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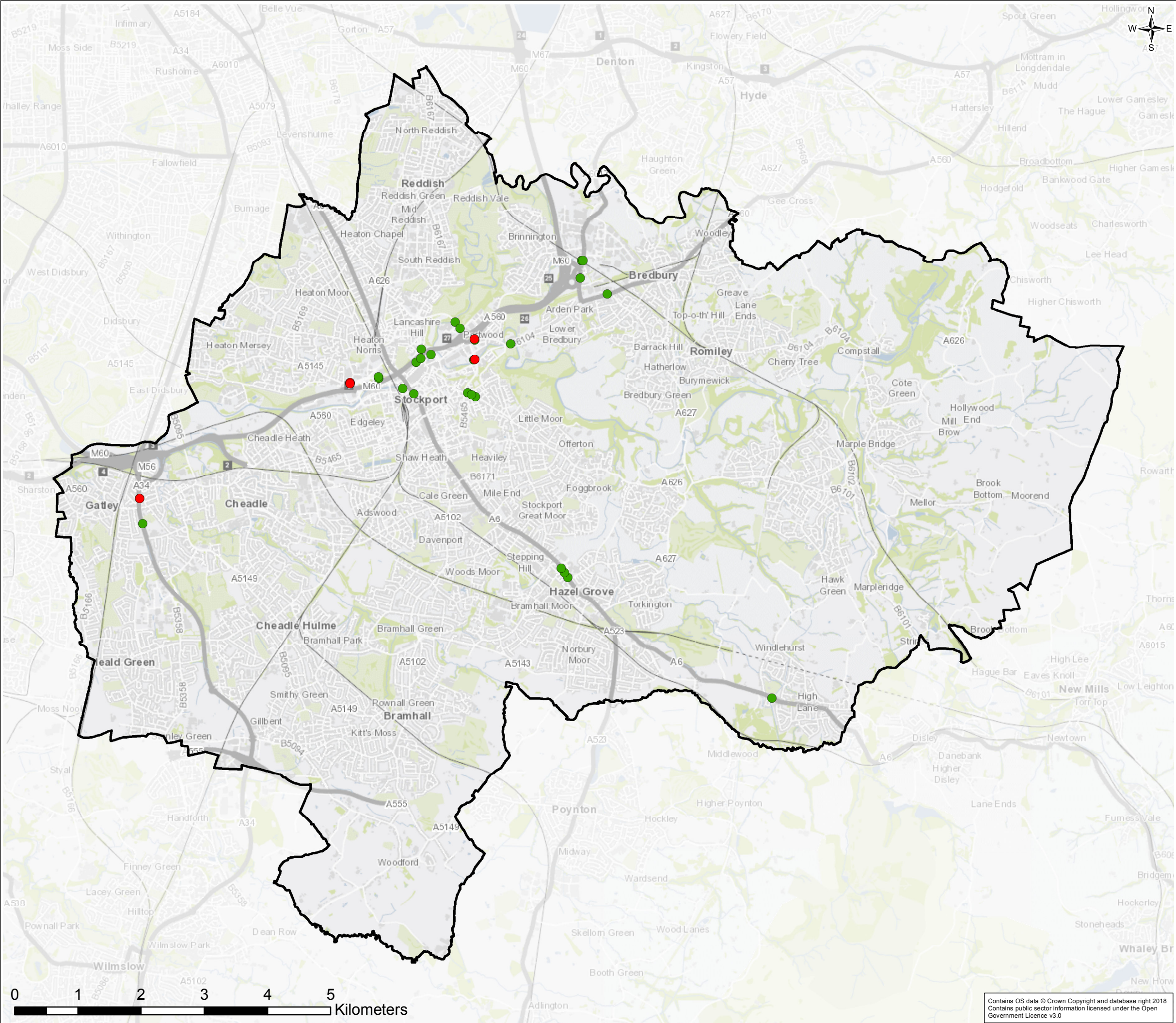


FIGURE 3- Stockport

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue		RW	--	--	--
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Project Greater Manchester Clean Air Plan							
Drawing Title Option 8: Removed and Remaining Exceedances - 2021 Stockport							
Scale @ A3		1:58,000			DO NOT SCALE		
Jacobs No.		BTGMO002					
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							

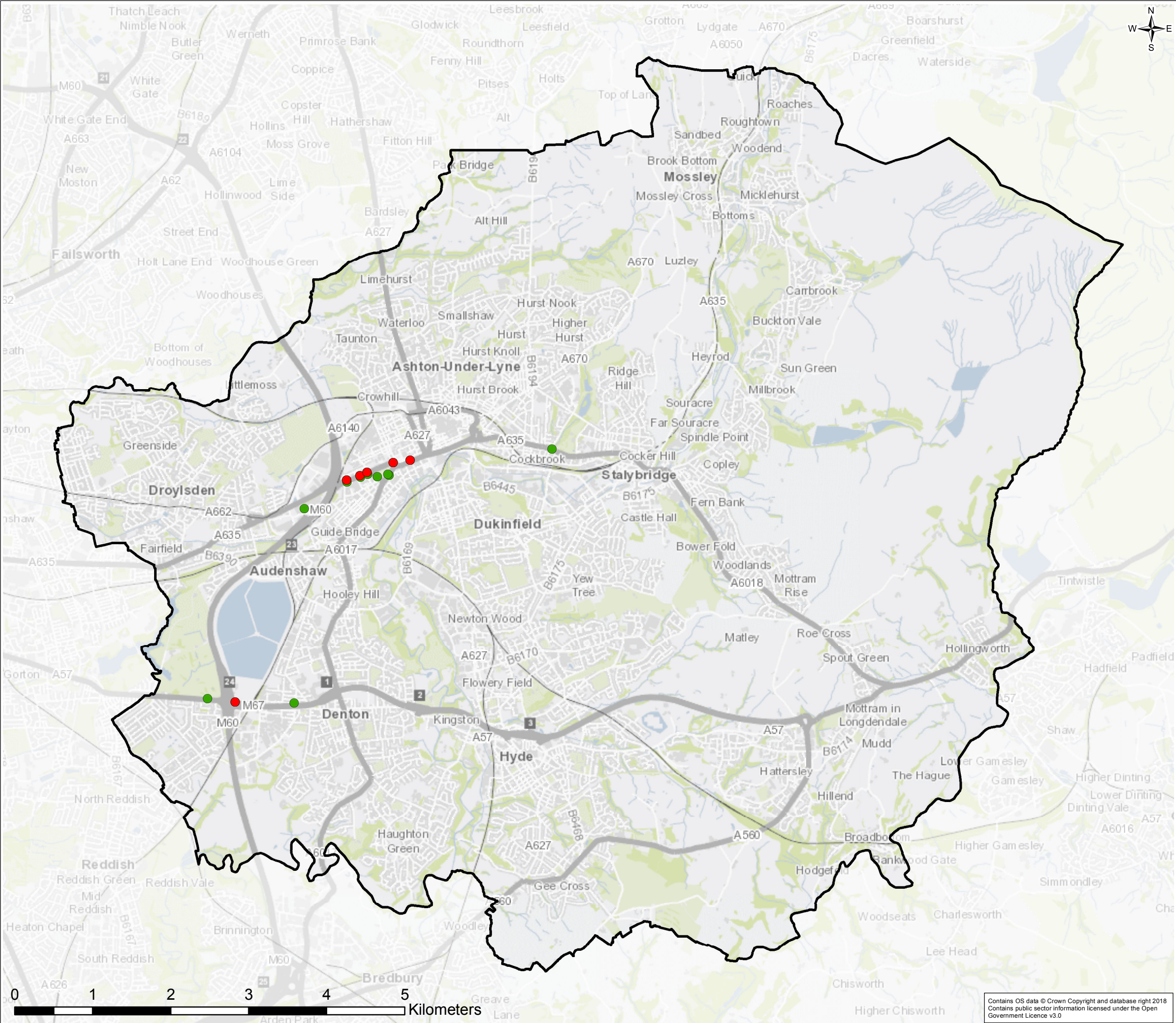


FIGURE 3- Tameside

Greater Manchester District Boundaries

Do Minimum Exceedances 2021

Option 8 Exceedances 2021

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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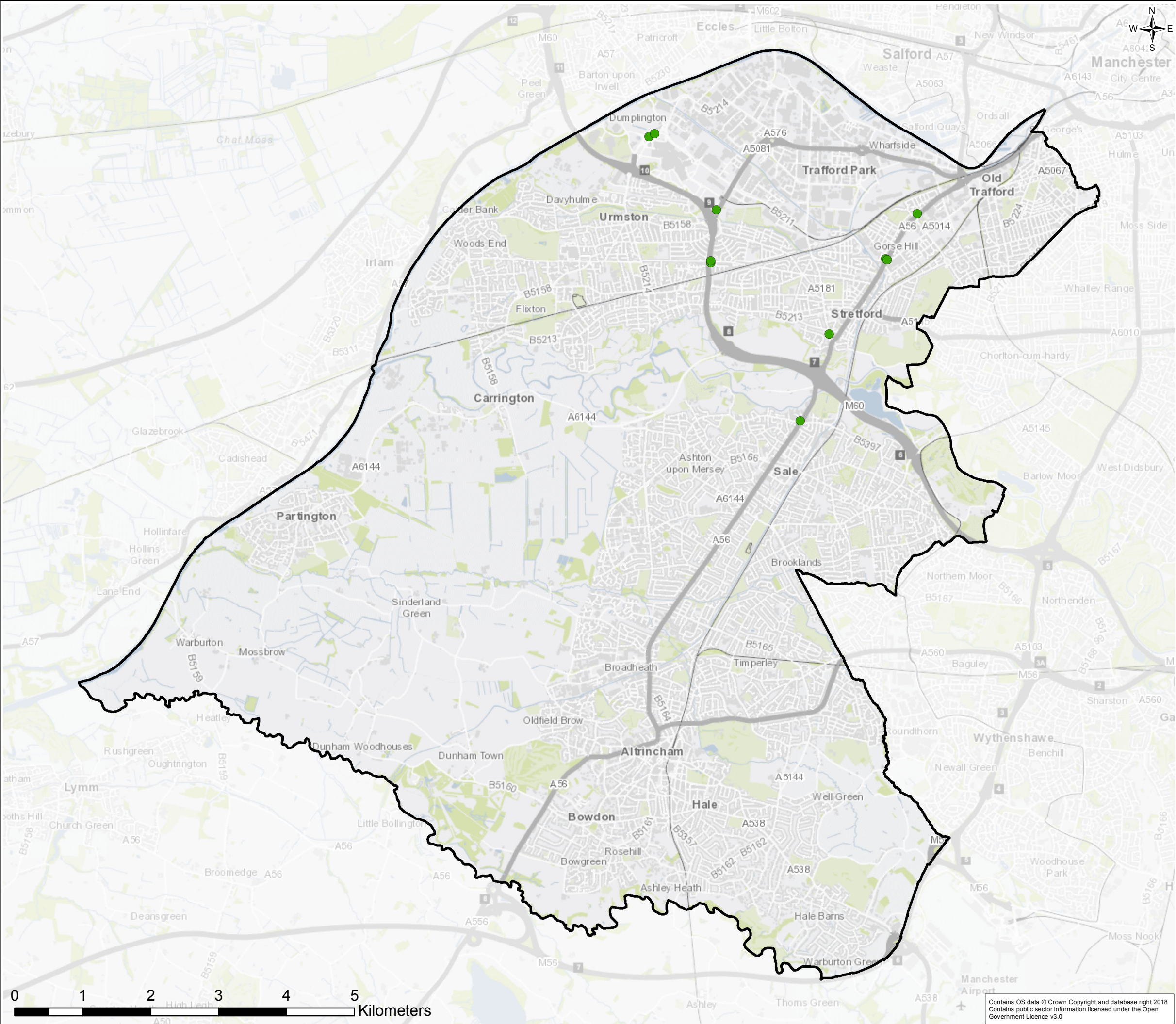
Drawing Title
Option 8: Removed and Remaining Exceedances - 2021
Tameside

Scale @ A31:47,000DO NOT SCALE

Jacobs No.BTGM0002

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FIGURE 3- Trafford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue	RW	-	-	-
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Project Greater Manchester Clean Air Plan						
Drawing Title Option 8: Removed and Remaining Exceedances - 2021 Trafford						
Scale @ A3		1:54,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

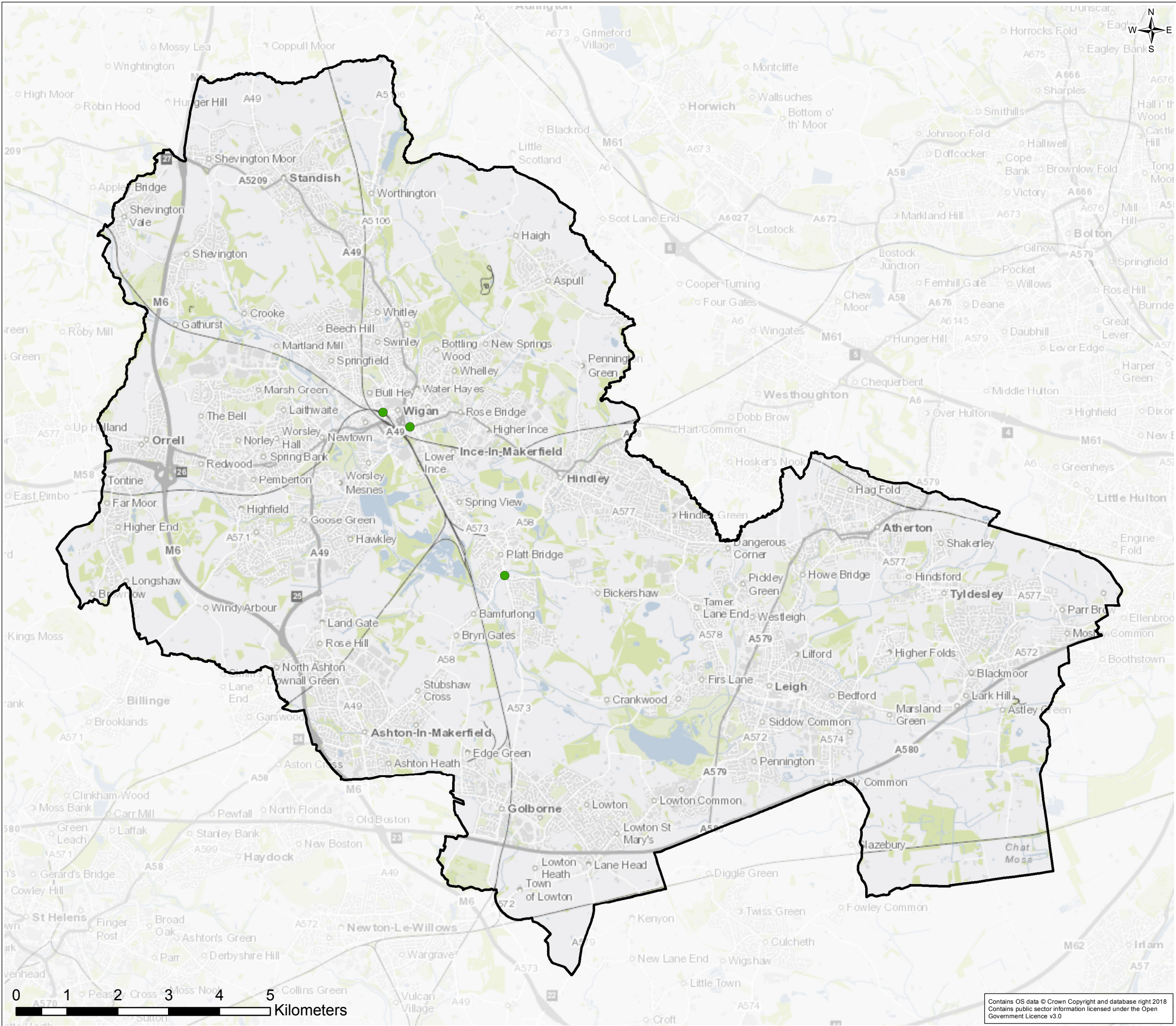


FIGURE 3- Wigan

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2021
 - Option 8 Exceedances 2021



0	08/02/2019	Initial Issue		RW	-	-	-
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	App'd
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Client		 Transport for Greater Manchester					
Project		Greater Manchester Clean Air Plan					
Drawing Title		Option 8: Removed and Remaining Exceedances - 2021 Wigan					
Scale @ A3		1:72,000				DO NOT SCALE	
Jacobs No.		BTGMO002					
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							

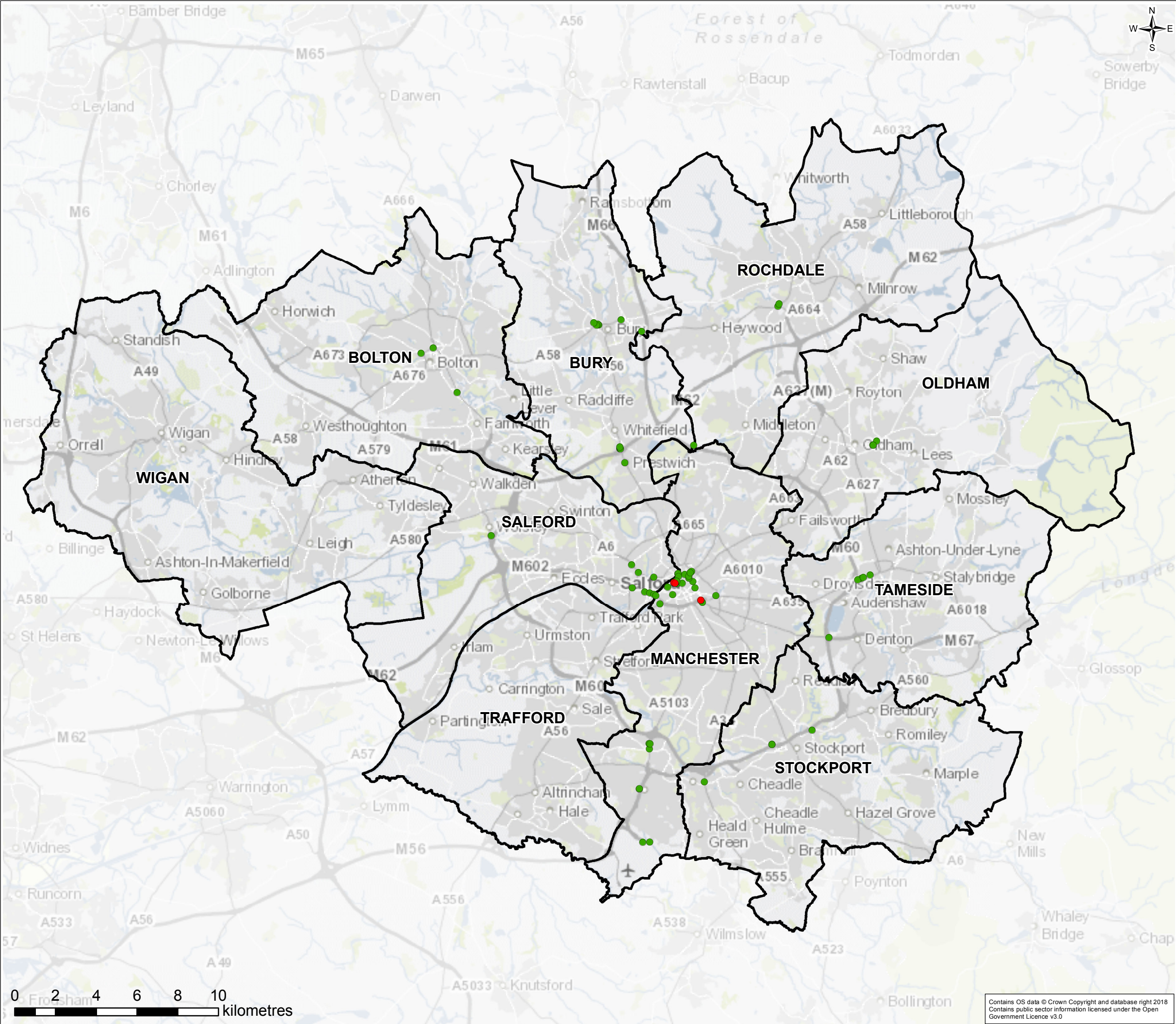
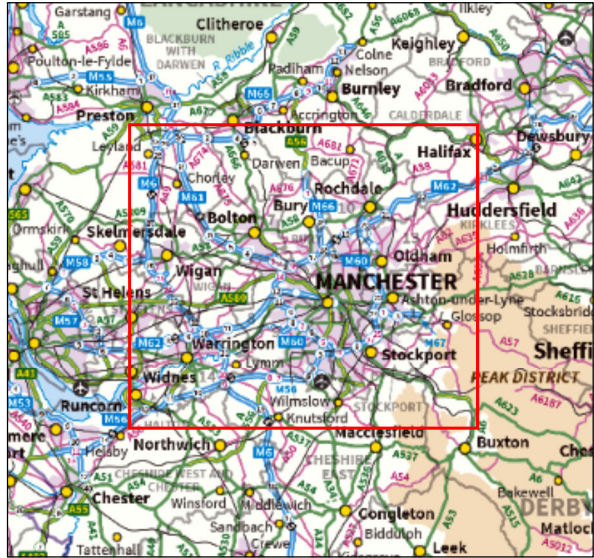


FIGURE 6

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Project

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Drawing Title

Option 8: Removed and Remaining Exceedances - 2023

Scale @ A3	1:180,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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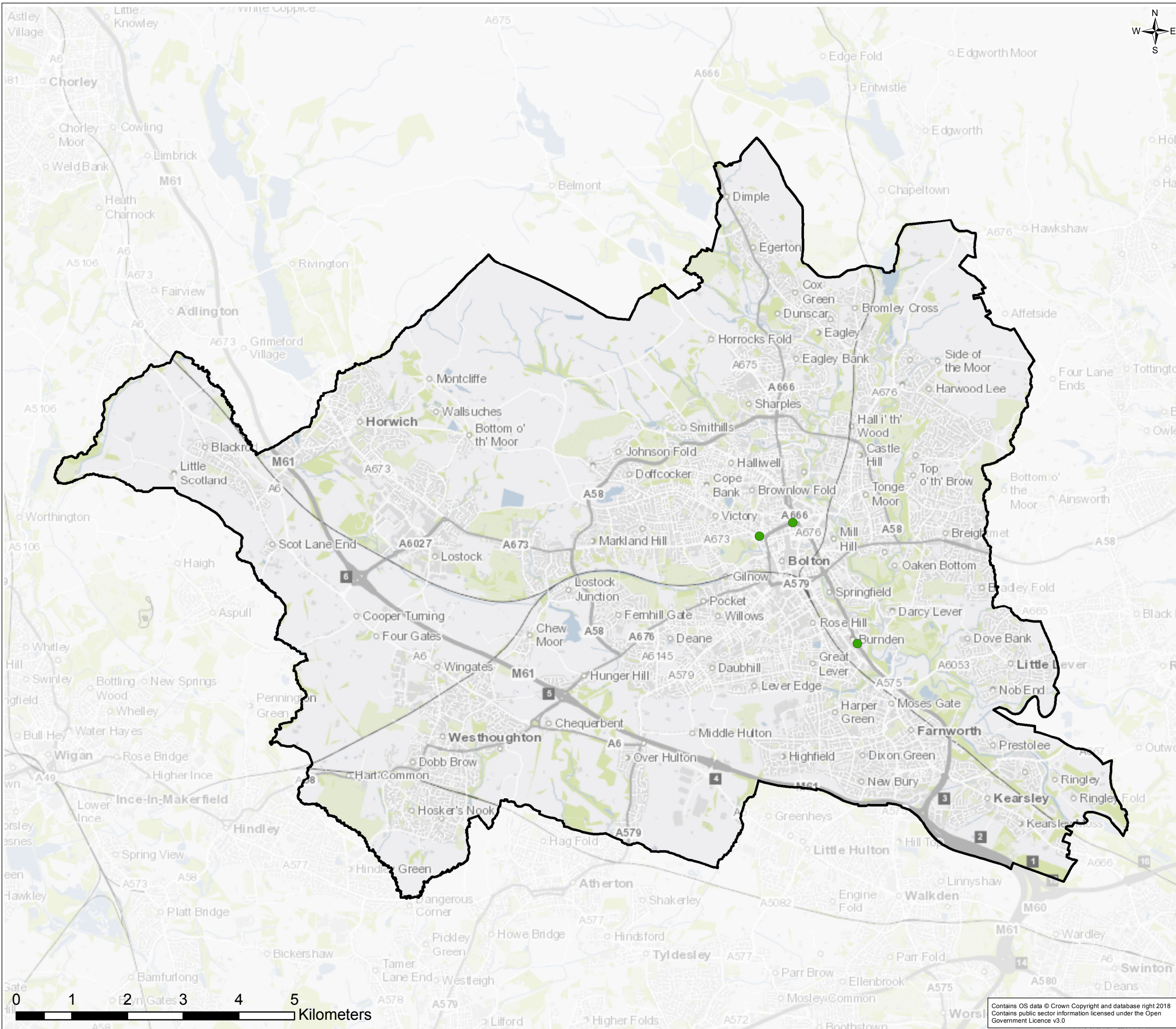


FIGURE 6- Bolton

Greater Manchester District Boundaries

Do Minimum Exceedances 2023

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Client

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Project

Greater Manchester Clean Air Plan

Drawing Title

Option 8: Removed and Remaining Exceedances - 2023
Bolton

Scale @ A3	1:66,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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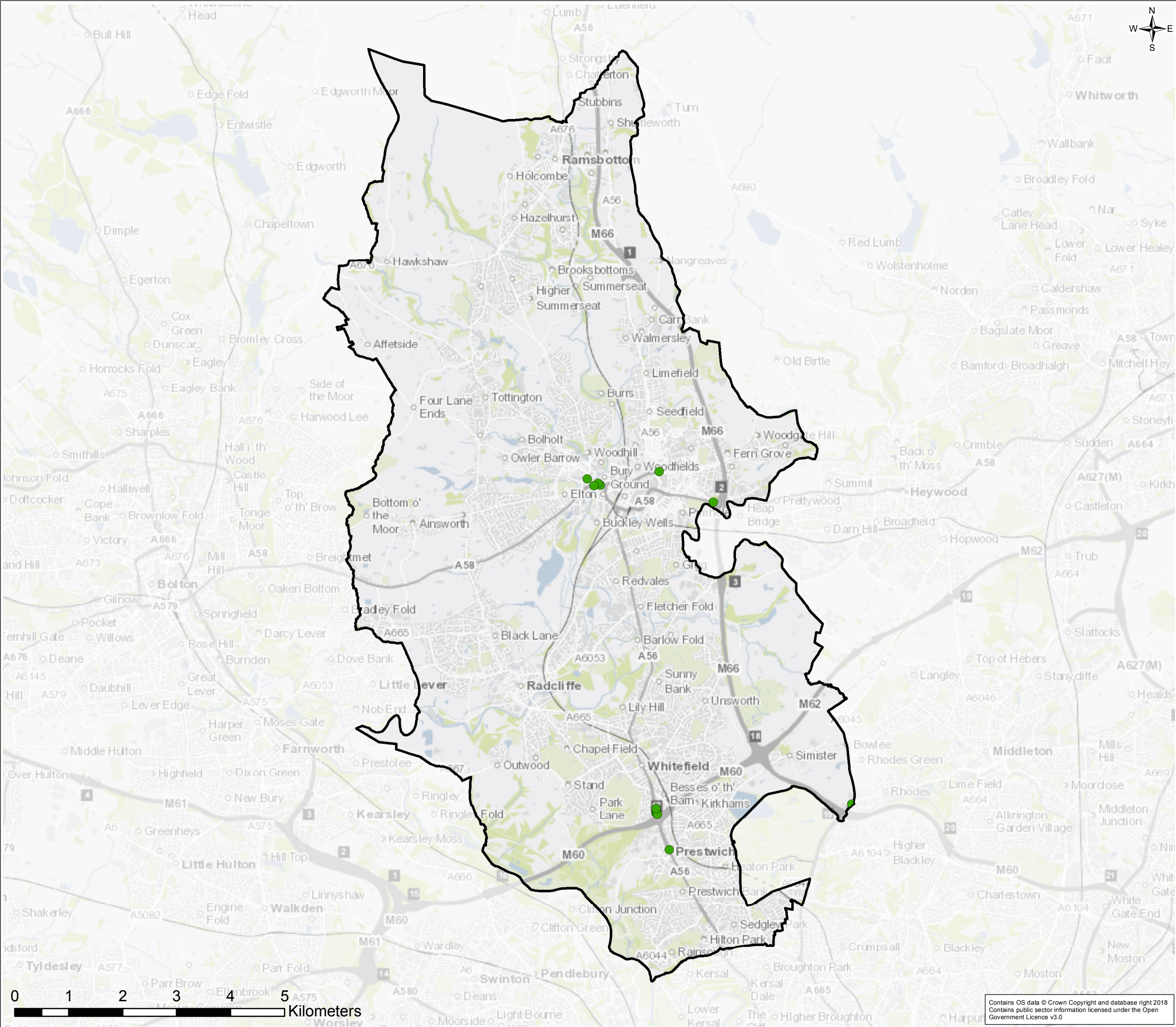


FIGURE 6- Bury

Greater Manchester District Boundaries

Do Minimum Exceedances 2023

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Project

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Drawing Title

Option 8: Removed and Remaining Exceedances - 2023
Bury

Scale @ A3	1:68,000	DO NOT SCALE
Jacobs No.	BTGMO002	

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\\Bmnc0vs01\gis\BTGMO002_TFGM_CAZ\ArcGIS\TFGM_CAZ_RemainingAndRemovedExceedances_2023_Fig6.mxd

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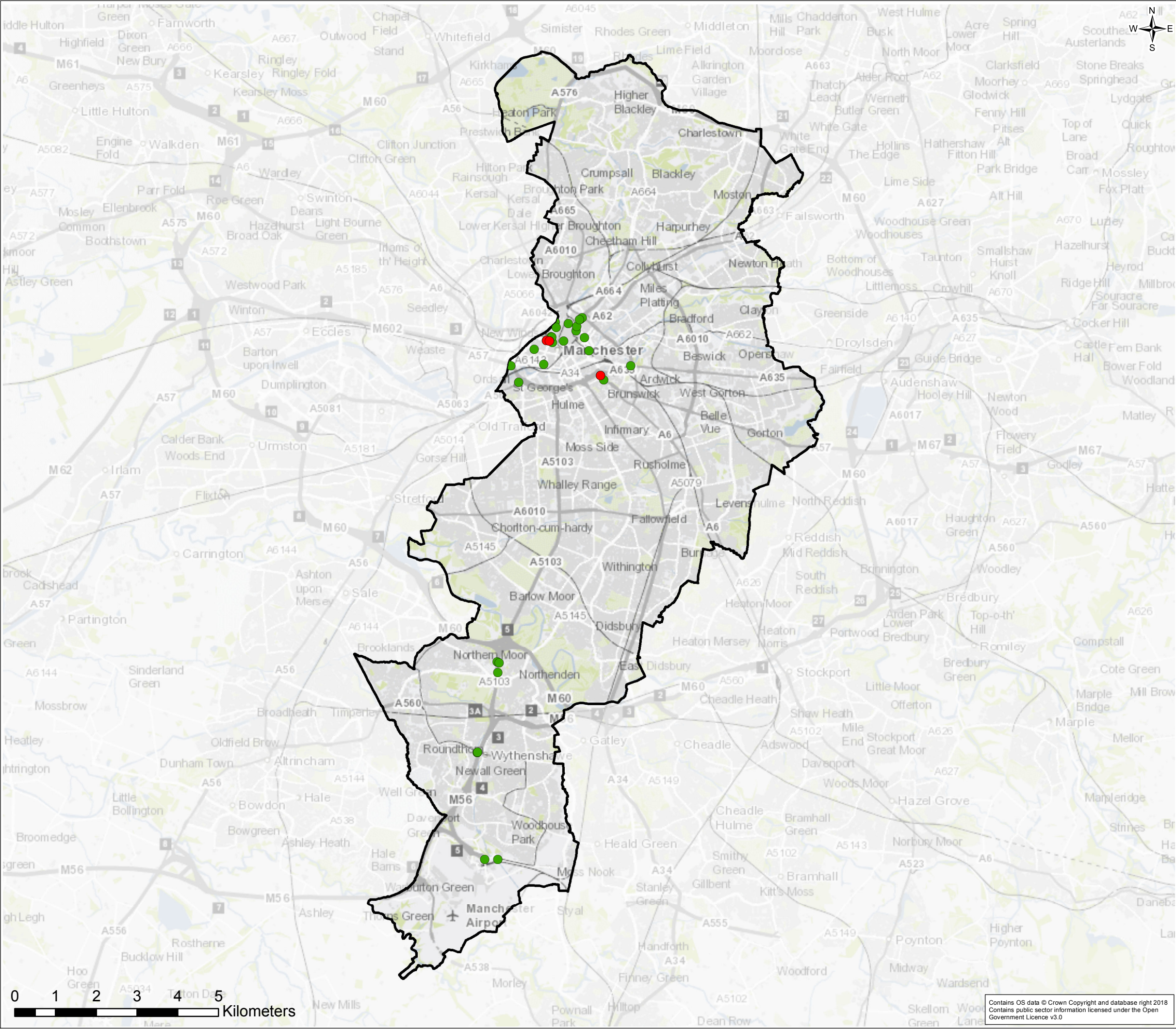


FIGURE 6- Manchester

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
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Client						
 Transport for Greater Manchester						
Project						
Greater Manchester Clean Air Plan						
Drawing Title						
Option 8: Removed and Remaining Exceedances - 2023 Manchester						
Scale @ A3		1:90,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

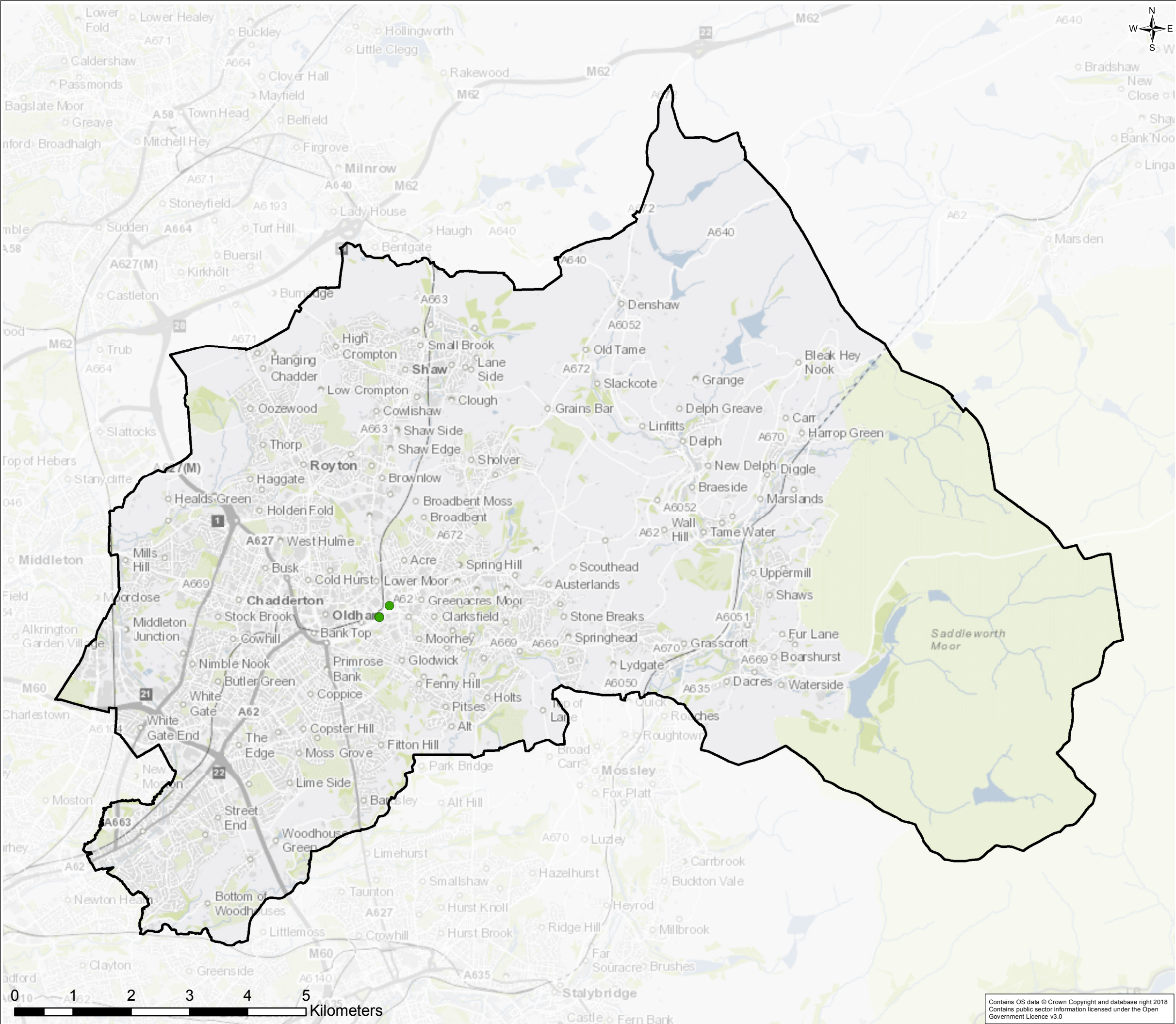


FIGURE 6- Oldham

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
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Client						
 Transport for Greater Manchester						
Project						
Greater Manchester Clean Air Plan						
Drawing Title						
Option 8: Removed and Remaining Exceedances - 2023 Oldham						
Scale @ A3		1:63,000			DO NOT SCALE	
Jacobs No.		BTGMO002				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

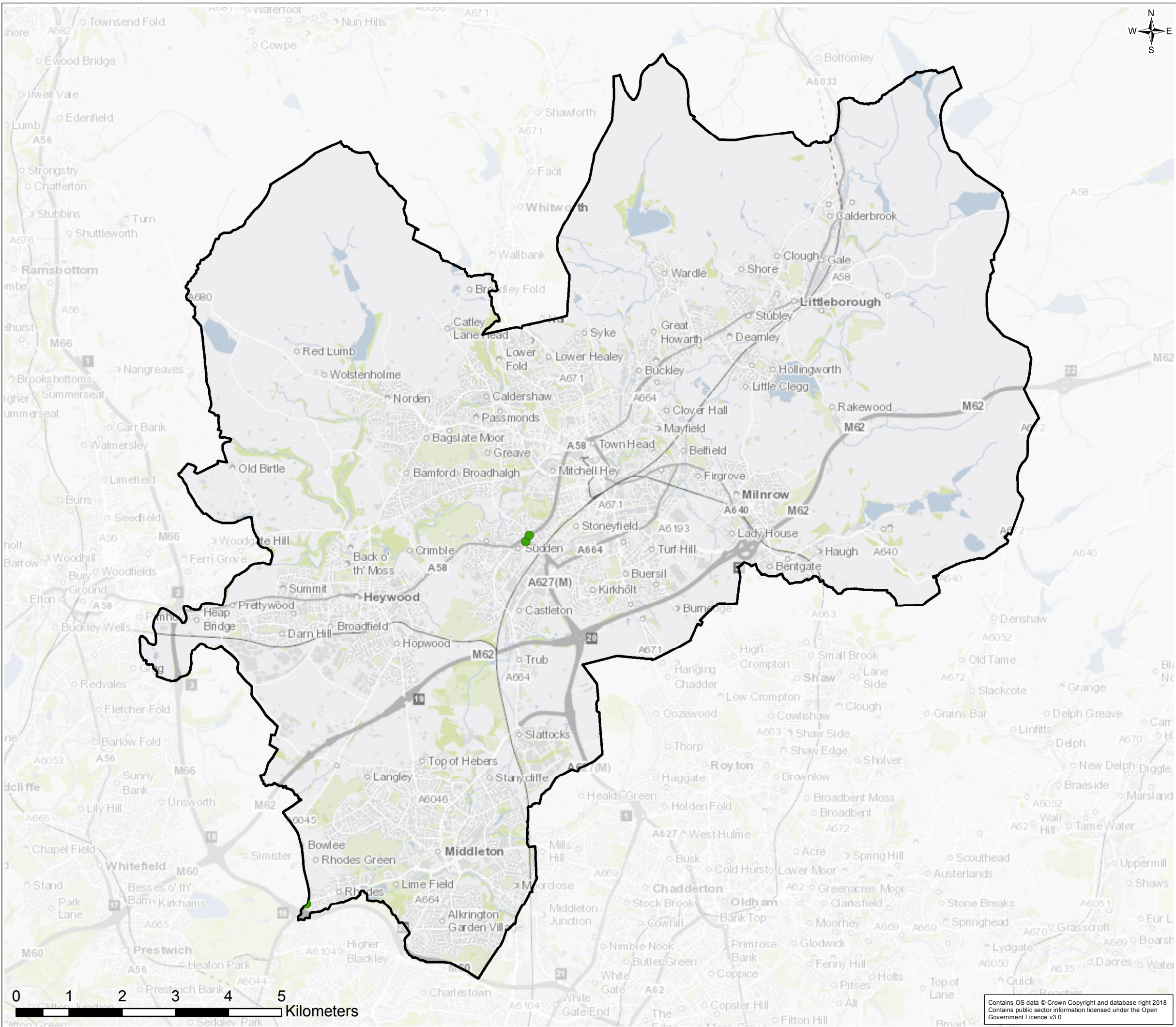


FIGURE 6- Rochdale

Greater Manchester District Boundaries

Do Minimum Exceedances 2023

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
JACOBS 5 First Street, Manchester, M15 4GU. Tel: +44(0)161 235 6000 www.jacobs.com						
Client Transport for Greater Manchester						
Project Greater Manchester Clean Air Plan						
Drawing Title Option 8: Removed and Remaining Exceedances - 2023 Rochdale						
Scale @ A3 1:69,000 DO NOT SCALE						
Jacobs No. BTGMO002						
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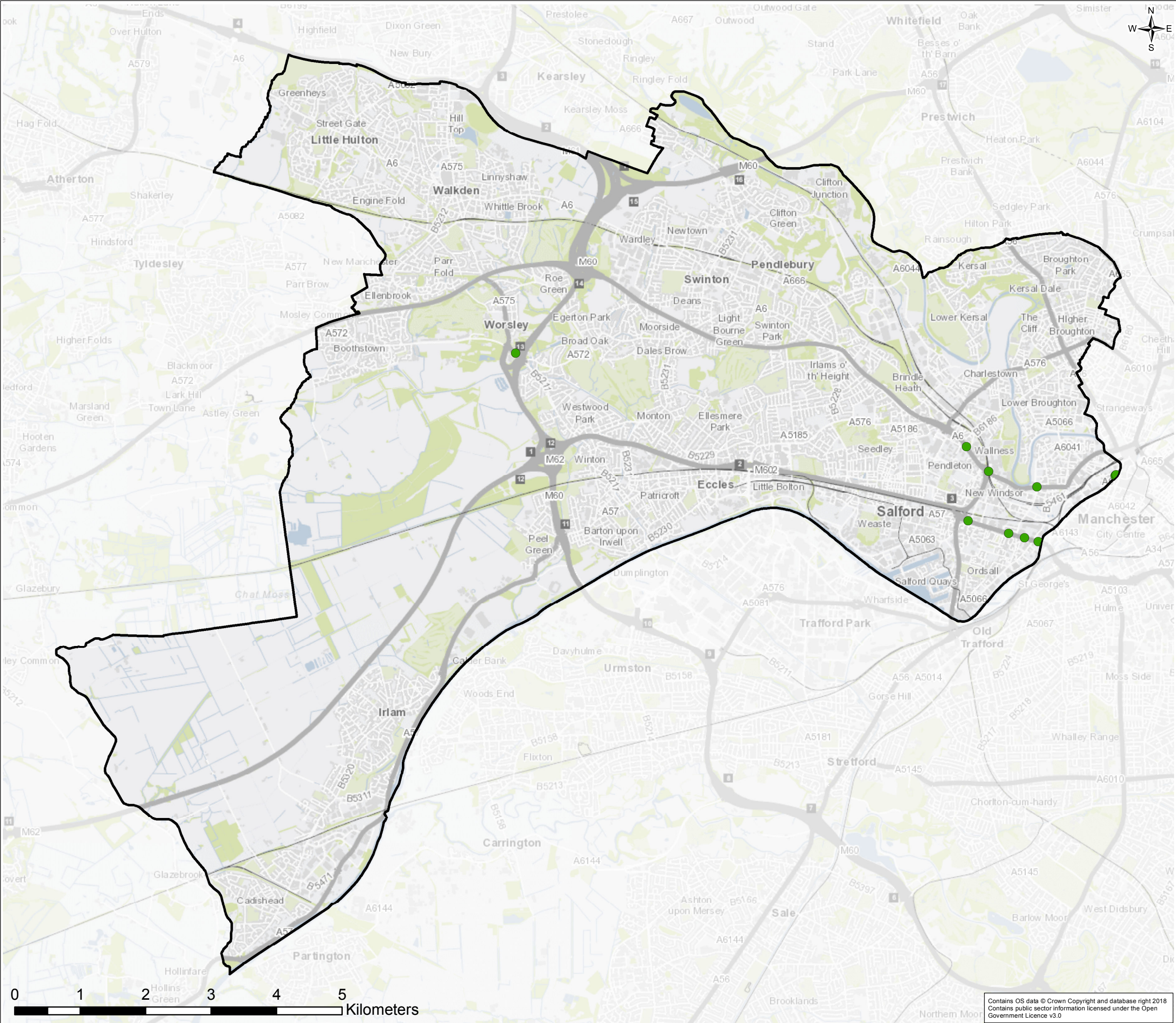


FIGURE 6- Salford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023
 - Option 8 Exceedances 2023



0	08/02/2019	Initial Issue		RW	--	--	--
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	App'd
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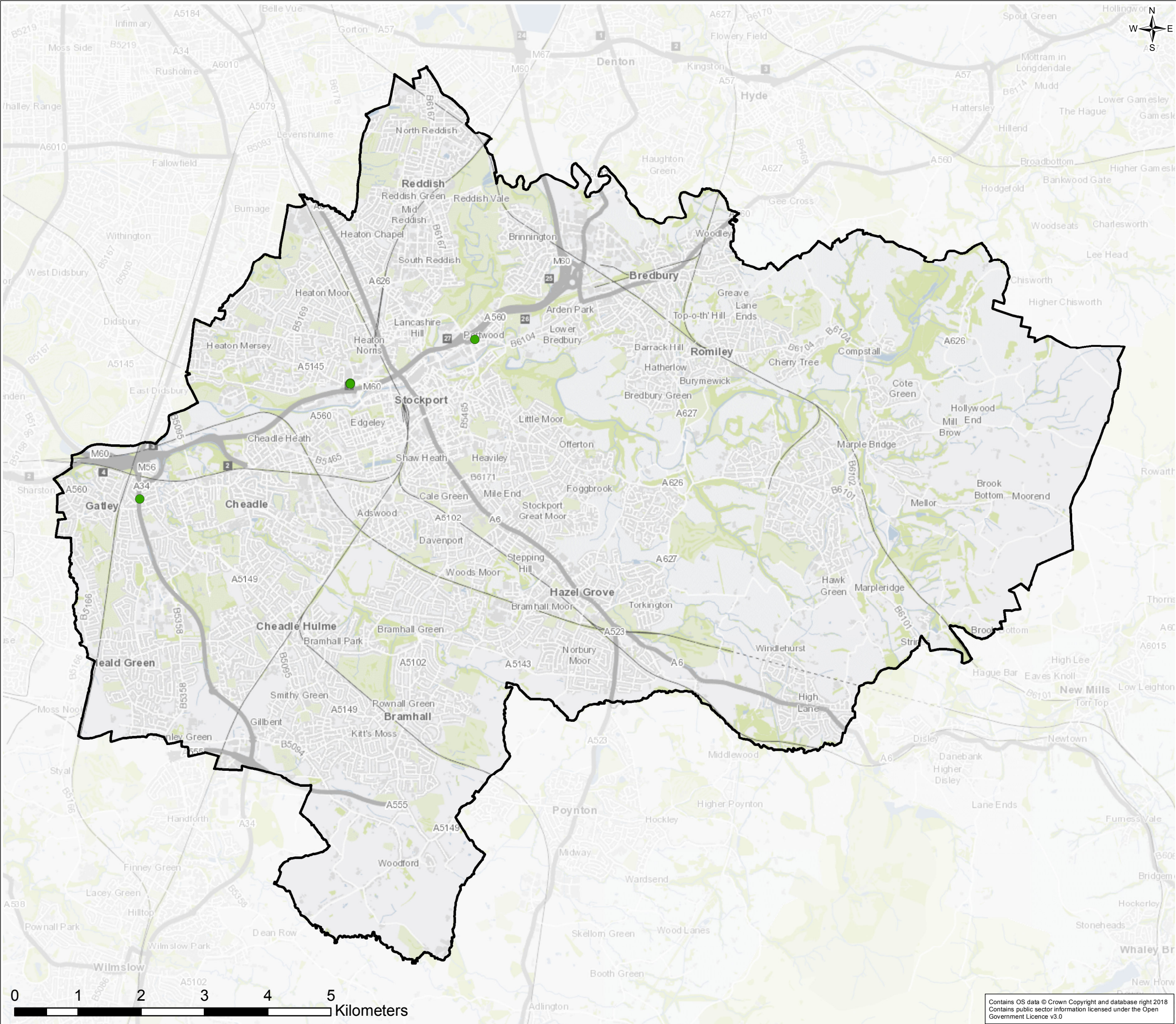


FIGURE 6- Stockport

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023
 - Option 8 Exceedances 2023



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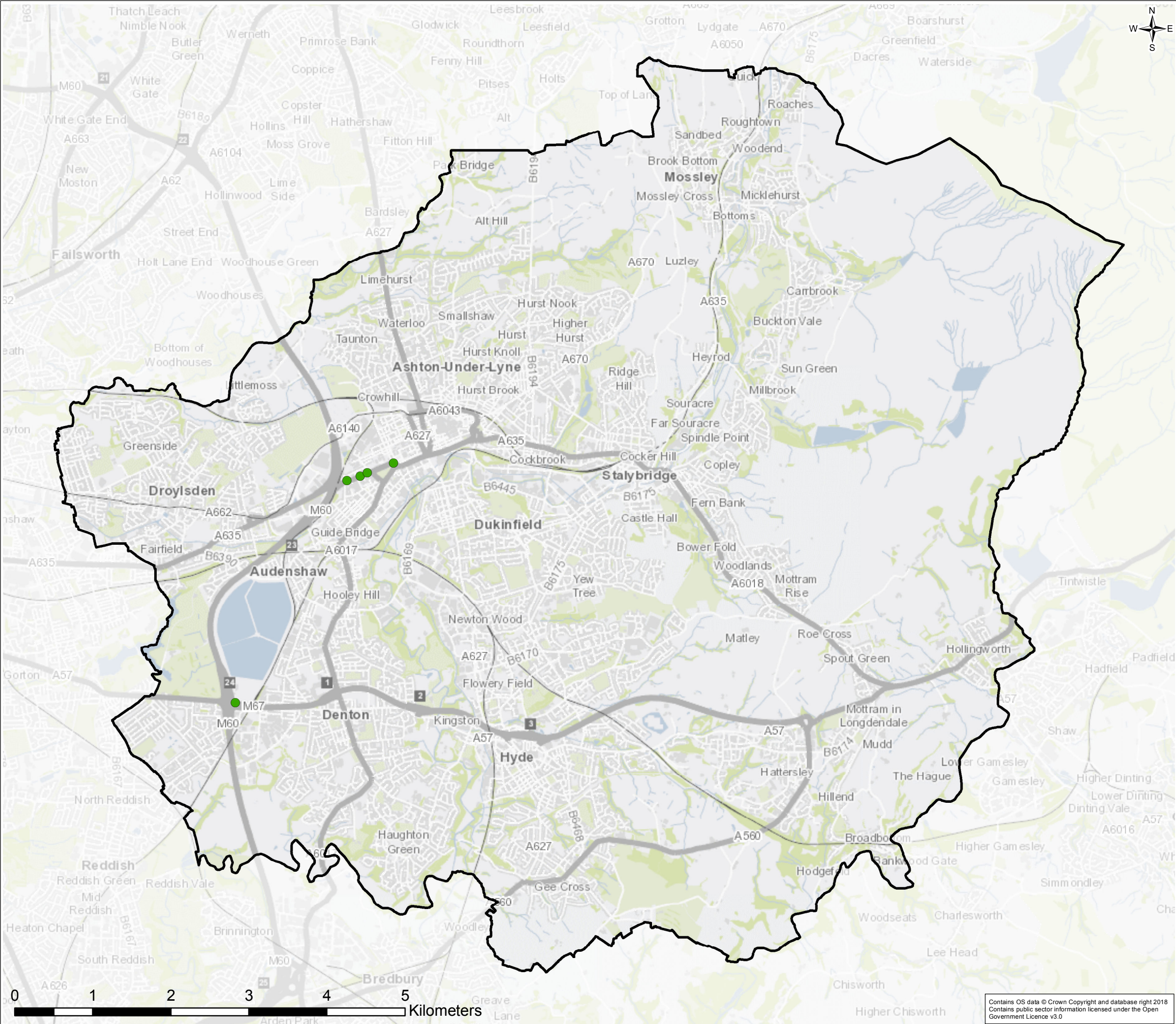


FIGURE 6- Tameside

Greater Manchester District Boundaries

Do Minimum Exceedances 2023

Option 8 Exceedances 2023

0	08/02/2019	Initial Issue	RW	-	-	-
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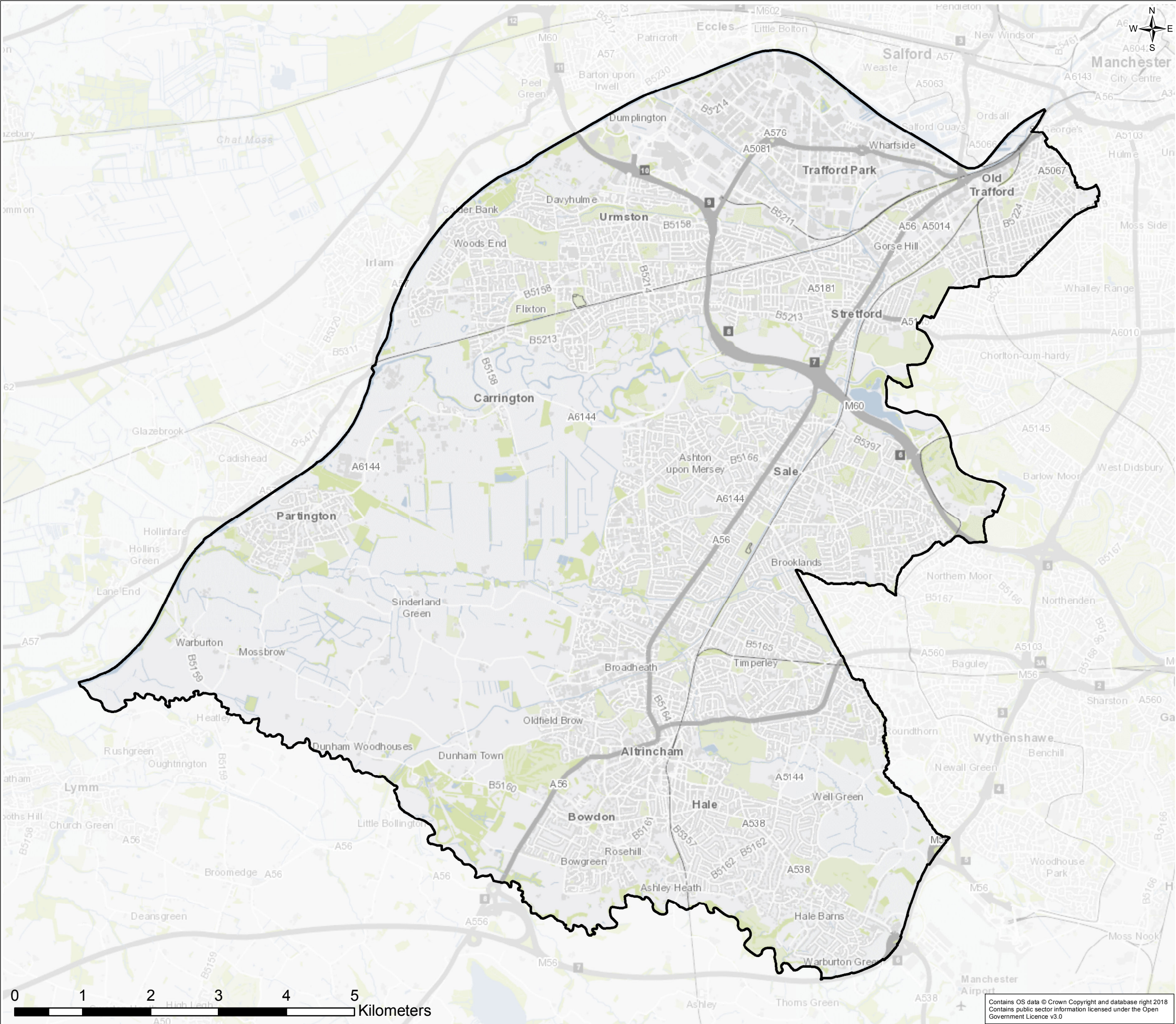
Project
Greater Manchester Clean Air Plan

Drawing Title
Option 8: Removed and Remaining Exceedances - 2023
Tameside

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FIGURE 6- Trafford

- Legend
- Greater Manchester District Boundaries
 - Do Minimum Exceedances 2023
 - Option 8 Exceedances 2023



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Drawing Title Option 8: Removed and Remaining Exceedances - 2023 Trafford						
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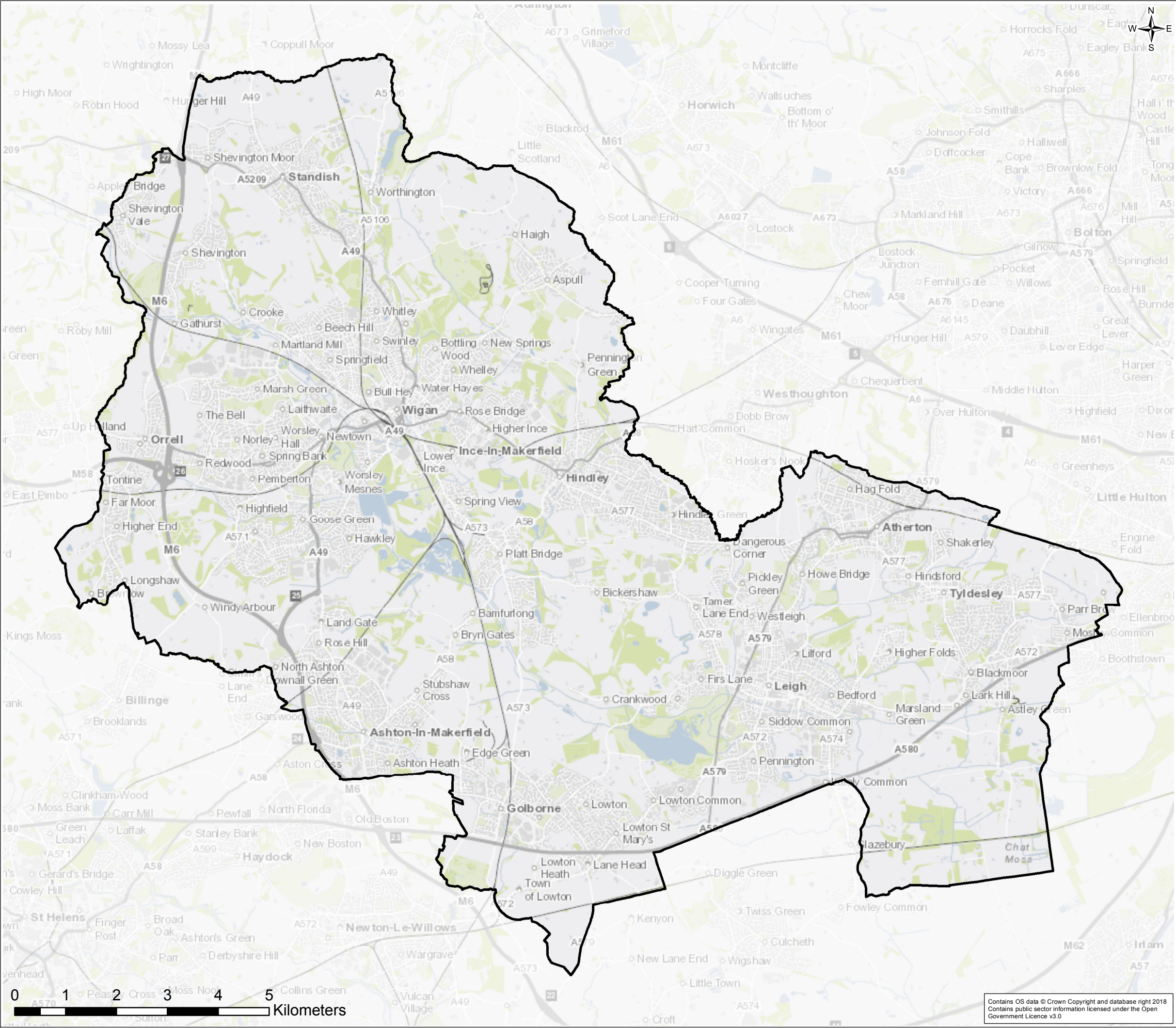


FIGURE 6- Wigan

Legend

- Greater Manchester District Boundaries
- Do Minimum Exceedances 2023
- Option 8 Exceedances 2023

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Project

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Drawing Title

Option 8: Removed and Remaining Exceedances - 2023 Wigan

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