

M5 Junction 10 Improvements Scheme

Environmental Statement Appendix 5.2 Air Quality chapter figures TR010063 - APP 6.15

Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6

December 2023



Gloucestershire
COUNTY COUNCIL

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Infrastructure Planning Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M5 Junction 10 Improvements Scheme Development Consent Order 202[x]

6.15 Environmental Statement:

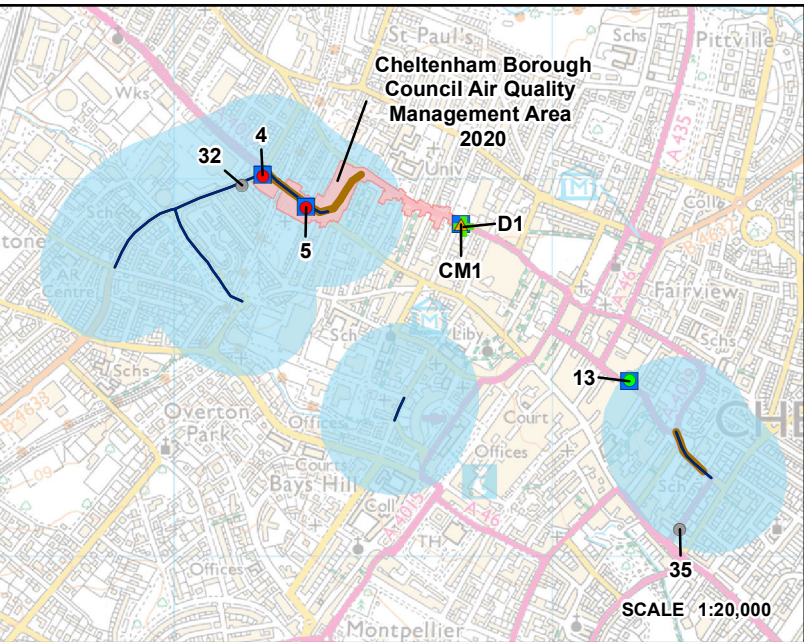
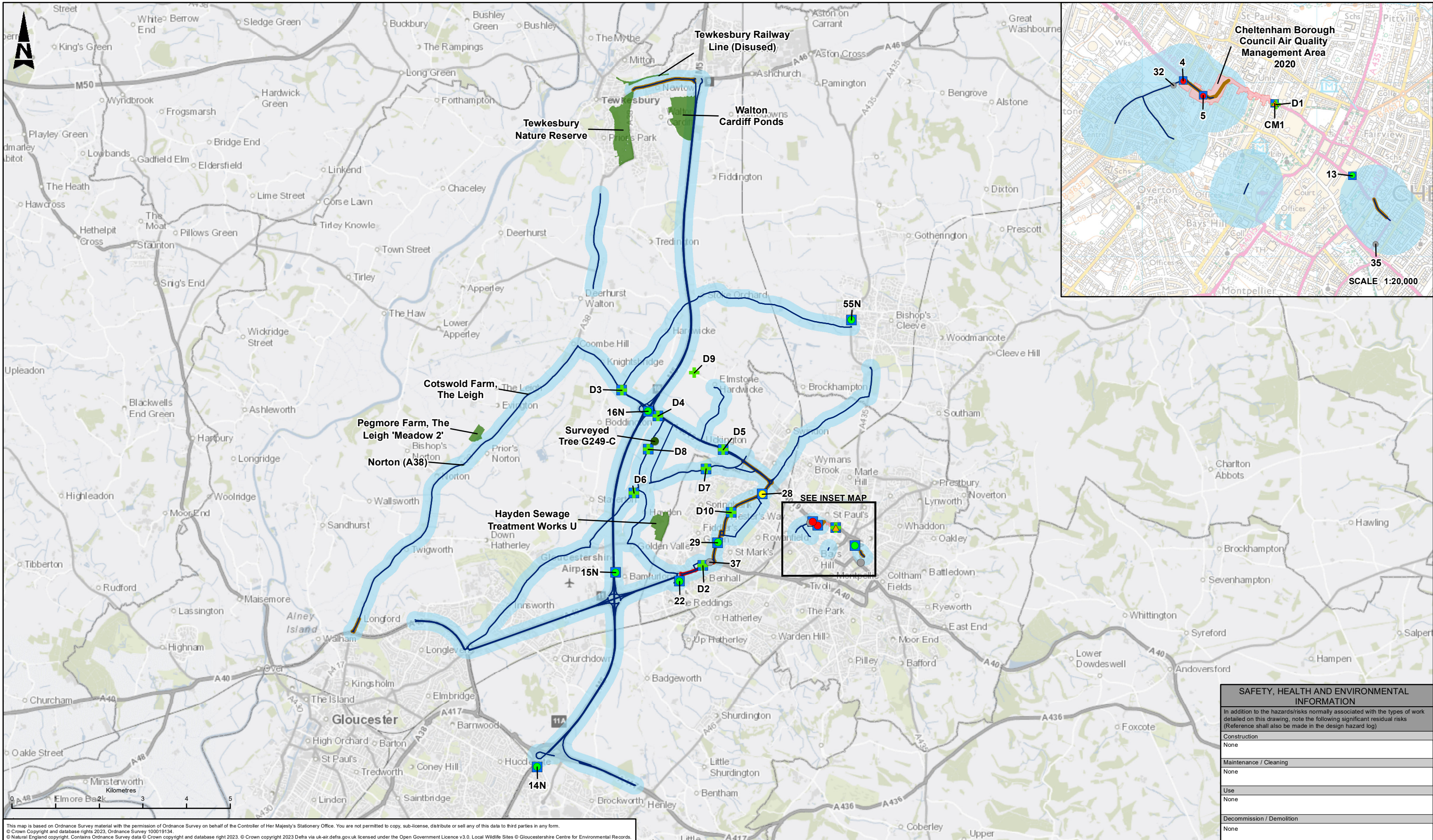
Appendix 5.2 Air Quality chapter figures

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010063
Application Document Reference	TR010063/APP/6.15
Author:	M5 Junction 10 Improvements Scheme Project Team

Version	Date	Status of Version
Rev 0	December 2023	DCO Application

1. Schedule of figures included in this application document

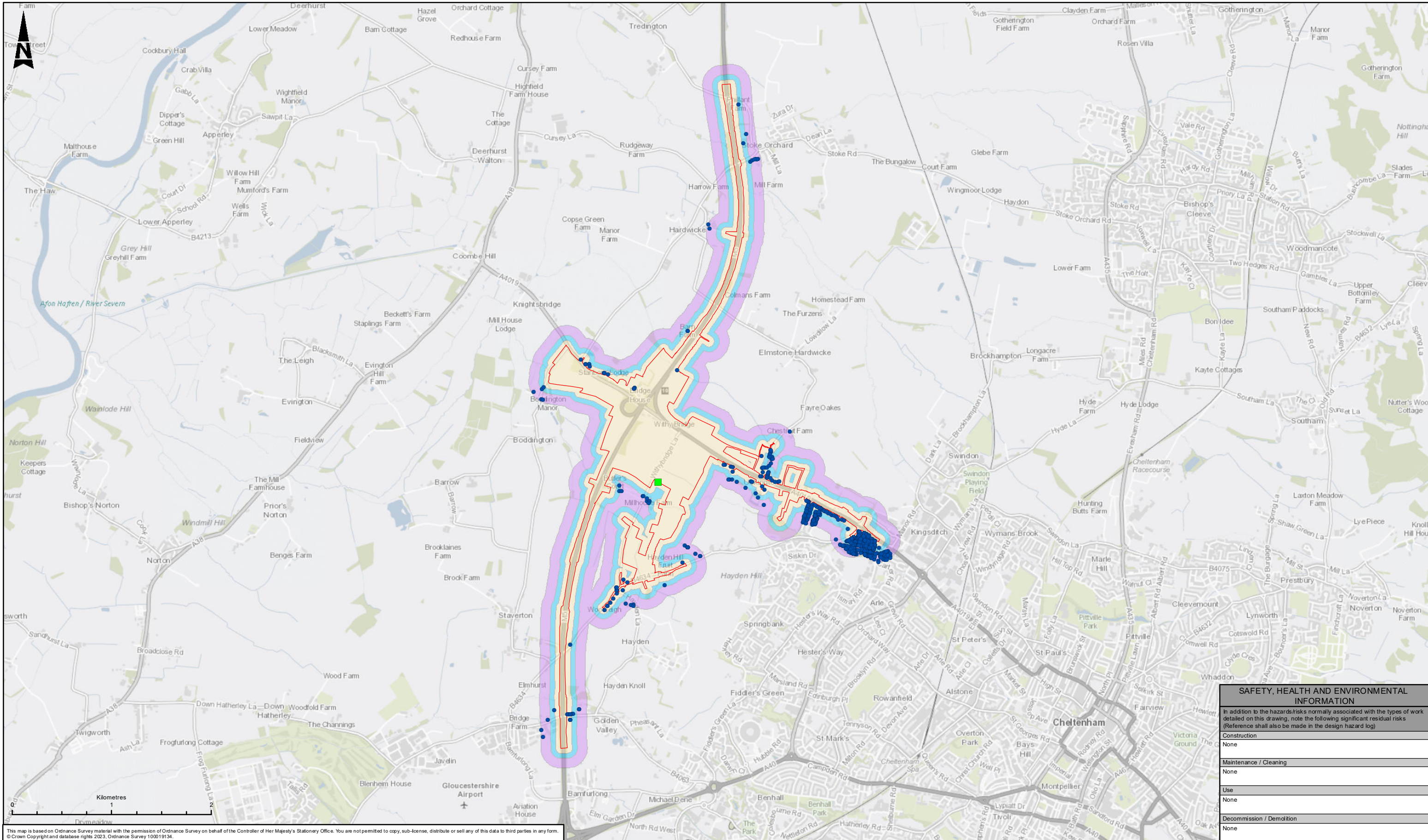
Figure reference	Document title	Sheet	Document number	Revision
5-1	Air quality constraints	1 of 1	GCCM5J10-ATK-EAQ-ZZ-GS-GI-000001	0
5-2	Construction dust assessment	1 of 1	GCCM5J10-ATK-EAQ-ZZ-GS-GI-000002	0
5-3	Air quality modelling results for human health receptors and designated habitats	1 of 1	GCCM5J10-ATK-EAQ-ZZ-GS-GI-000003	0
5-4	Human health and potential future receptors (2042)	1 of 1	GCCM5J10-ATK-EAQ-ZZ-GS-GI-000004	0



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND LOCAL AUTHORITY BOUNDARIES AIR QUALITY STUDY AREA AIR QUALITY MANAGEMENT AREAS (AQMA) WITHIN STUDY AREA LOCAL WILDLIFE SITES WITHIN STUDY AREA ROADS MEETING DMRB LA105 TRAFFIC SCREENING CRITERIA (AFFECTED ROAD NETWORK) SCHEME MODEL VERIFICATION LOCATIONS VETERAN TREES WITHIN STUDY AREA	PROJECT SPECIFIC DIFFUSION TUBES (2019 ANNUAL MEAN NO₂ CONCS) + < 36 µg/m ³ DEFRA PCM ROADSIDE 2018 NO₂ CONCENTRATION ≤ 40 µg/m ³ > 40 µg/m ³ LOCAL AUTHORITY CONTINUOUS MONITORING SITES (2019 ANNUAL MEAN NO₂ CONCS) ▲ 36 to 40 µg/m ³	LOCAL AUTHORITY DIFFUSION TUBES (2019 ANNUAL MEAN NO₂ CONCS) ● NO DATA ● < 36 µg/m ³ ● 36 to 40 µg/m ³ ● > 40 µg/m ³	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED	Drawing Suitability PUBLISHED	Status A1	Project Title M5 Junction 10 Improvements Scheme
			Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED	Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED



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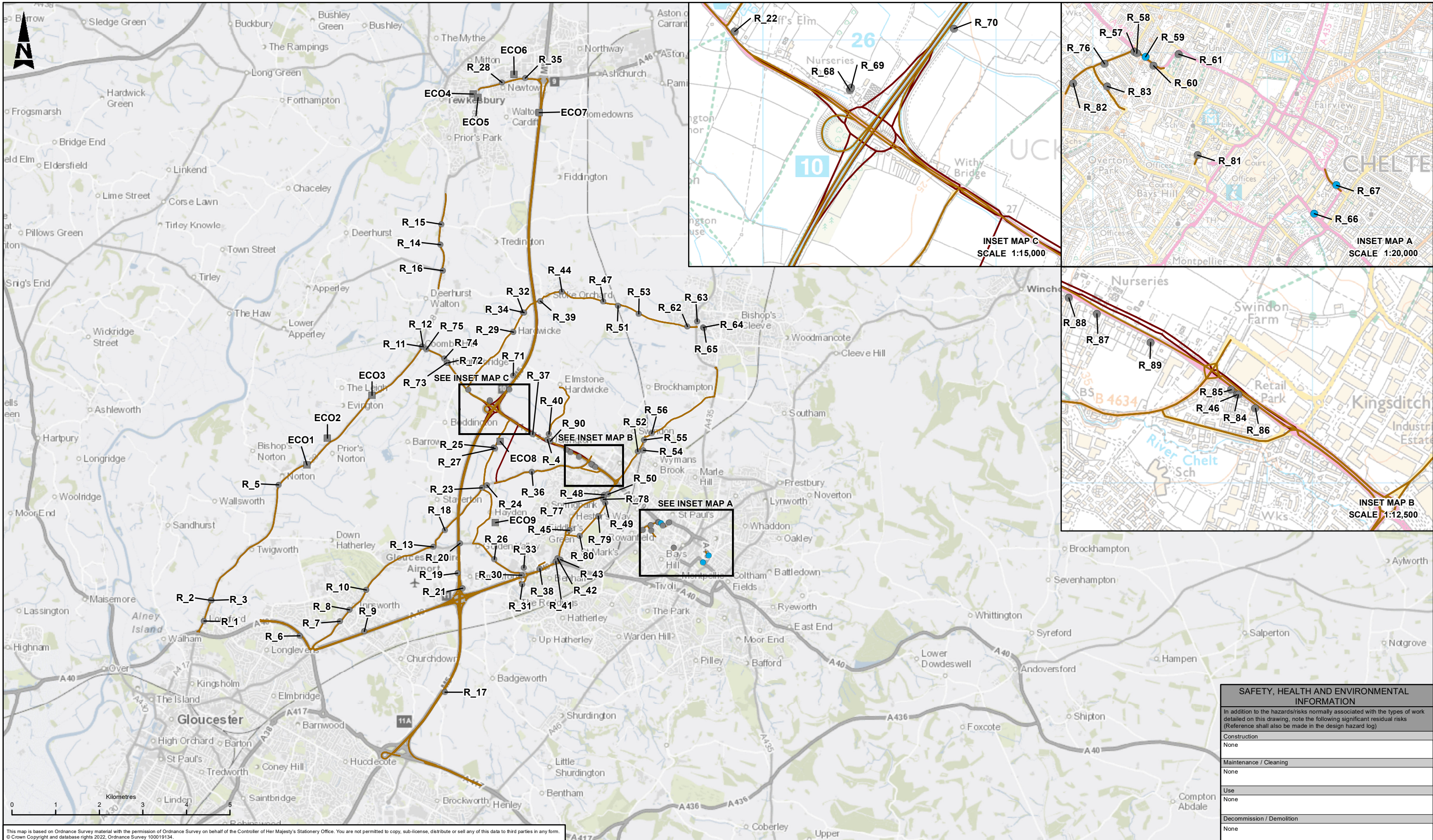
LEGEND	
	ORDER LIMITS
	0-50M FROM ORDER LIMITS
	50-100M FROM ORDER LIMITS
	100-200M FROM ORDER LIMITS
	RECEPTORS SENSITIVE TO CONSTRUCTION DUST (0-200M)
	DESIGNATED HABITATS SENSITIVE TO CONSTRUCTION DUST (0-200M)

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	R02	JM	JG	CC	LJ	22/08/23

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION																										
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Construction	None																									
Maintenance / Cleaning	None																									
Use	None																									
Decommission / Demolition	None																									
<table border="1"> <tr> <td>Project Title</td> <td>M5 Junction 10 Improvements Scheme</td> </tr> <tr> <td>Drawing Title</td> <td>FIGURE 5-2 CONSTRUCTION DUST ASSESSMENT</td> </tr> <tr> <td>Drawing Number</td> <td> <table border="1"> <tr> <td>Project</td> <td>Originator</td> <td>Volume</td> </tr> <tr> <td>GCCM5J10 - ATK - EAQ</td> <td></td> <td></td> </tr> <tr> <td>ZZ - GS - GI - 000002</td> <td></td> <td></td> </tr> </table> </td> </tr> <tr> <td>Original Size</td> <td>A3</td> </tr> <tr> <td>Scale</td> <td>1:35,000</td> </tr> <tr> <td>Project Ref.</td> <td>5214106</td> </tr> <tr> <td>Sheet</td> <td>1 of 1</td> </tr> <tr> <td>Rev.</td> <td>P02</td> </tr> </table>		Project Title	M5 Junction 10 Improvements Scheme	Drawing Title	FIGURE 5-2 CONSTRUCTION DUST ASSESSMENT	Drawing Number	<table border="1"> <tr> <td>Project</td> <td>Originator</td> <td>Volume</td> </tr> <tr> <td>GCCM5J10 - ATK - EAQ</td> <td></td> <td></td> </tr> <tr> <td>ZZ - GS - GI - 000002</td> <td></td> <td></td> </tr> </table>	Project	Originator	Volume	GCCM5J10 - ATK - EAQ			ZZ - GS - GI - 000002			Original Size	A3	Scale	1:35,000	Project Ref.	5214106	Sheet	1 of 1	Rev.	P02
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	MODELLED ROAD NETWORK (DO MINIMUM)
	MODELLED ROAD NETWORK (DO SOMETHING)

CHANGE MAGNITUDE AT HUMAN HEALTH RECEPTORS WHICH EXCEED ANNUAL MEAN AQS OBJECTIVE (NO2) (2027)	
	SMALL DECREASE (>-2 to -0.4 µg/m3)
	NOT EXCEEDING RECEPTORS
CHANGE MAGNITUDE IN NITROGEN DEPOSITION AT DESIGNATED HABITATS (2027)	
	NOT SIGNIFICANT CHANGE

Description		Status	
Status	Revision	Drawn	Checked
Drawn	SD	Checked	JS
Checked	JS	Reviewed	CC
Reviewed	CC	Authorised	LJ
Authorised	LJ	Issue Date	10/08/23

Drawing Suitability: **PUBLISHED**

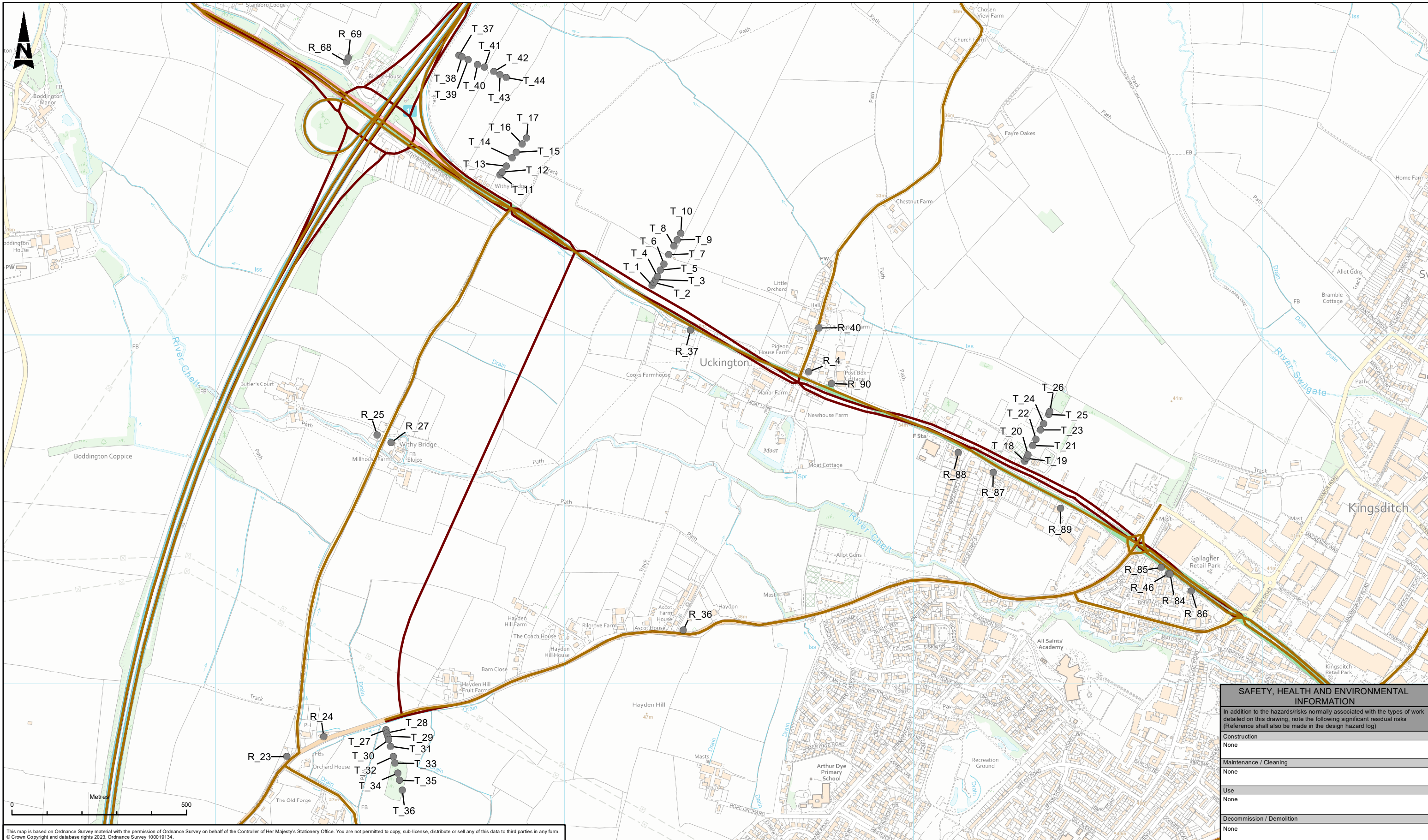
Status: **A1**

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Client: **Gloucestershire COUNTY COUNCIL**

Project Title: M5 Junction 10 Improvements Scheme	
Drawing Title: FIGURE 5-3 AIR QUALITY MODELLING RESULTS FOR HUMAN HEALTH RECEPTORS AND DESIGNATED HABITATS (2027)	
Project: GCCM5J10 - ATK - EAQ	Original: ZZ - GS - GI - 000003
Volume: 1 of 1	Sheet: P02
Location: A3	Scale: 1:80,000
Project Ref: 5214106	Rev: P02



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LEGEND

- MODELLED ROAD NETWORK (DO MINIMUM)
- MODELLED ROAD NETWORK (DO SOMETHING)

ADDITIONAL POTENTIAL FUTURE RECEPTORS WITHIN STRATEGIC DEVELOPMENT SITES COMBINED WITH HUMAN HEALTH RECEPTORS IN THE FUTURE SCENARIO AIR QUALITY MODEL

- NOT EXCEEDING RECEPTORS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 5-4 HUMAN HEALTH AND POTENTIAL FUTURE RECEPTORS (2042)	
Drawing Number			
Project	Originator	Volume	
GCCM5J10 - ATK - EAQ	ZZ - GS - GI - 000004		
Location	Type	Role	Number
A3	1:10,000	Ref: 5214106	1 of 1
Original Size	Scale	Project Ref	Sheet
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			Rev: P01

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