

M5 Junction 10 Improvements Scheme

Environmental Statement

Appendix 10.8

Geology and Soils chapter figures

TR010063 - APP 6.15

Regulation 5 (2) (a)

Planning Act 2008

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

Volume 6
October 2024

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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 10.8

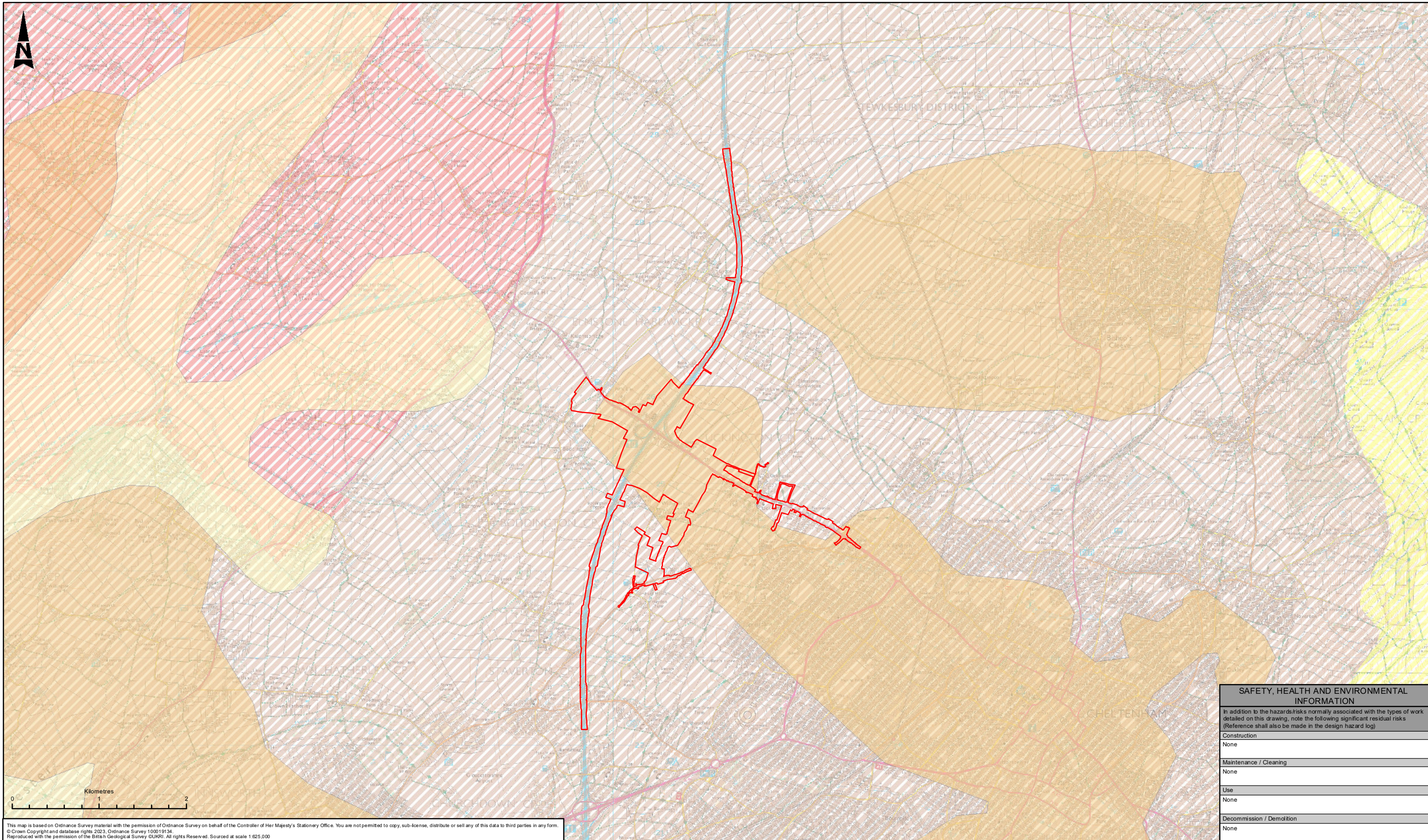
Geology and Soils chapter figures (Tracked)

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
Rev 1	October 2024	Deadline 5

1. Schedule of figures included in this application document

Figure reference	Document title	Sheet	Document number	Revision
10-1	Geology of the study area	1 of 1	GCCM5J10-ATK-EGT-ZZ-GS-GI-000002	0
10-2	Ground investigation location plan	1 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	2 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	3 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	4 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	5 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	6 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	7 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-2	Ground investigation location plan	8 of 8	GCCM5J10-ATK-EGT-ZZ-GS-GI-000003	0
10-3	Agricultural land classification	1 of 1	GCCM5J10-ATK-EGT-ZZ-GS-GI-000001	0
10-3a	Agricultural land classification in the surrounding area	1 of 1	GCCM5J10-ATK-EGT-ZZ-DR-LM-GI-000001	0



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	ORDER LIMITS
BEDROCK GEOLOGY	
	INFERIOR OOLITE GROUP - LIMESTONE, SANDSTONE, SILTSTONE AND MUDSTONE
	LIAS GROUP - MUDSTONE, SILTSTONE, LIMESTONE AND SANDSTONE
	TRIASSIC ROCKS (UNDIFFERENTIATED) - MUDSTONE, SILTSTONE AND SANDSTONE
SUPERFICIAL DEPOSITS	
	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) - SAND AND GRAVEL
	ALLUVIUM - CLAY, SILT AND SAND

NOTE: This map is based on the 1:625,000 scale British Geological Survey (BGS) dataset which is a larger scale than that used in the baseline assessment. It should be noted that the geology has been generalised and does not reflect the geological sub-divisions which have been mapped at a more local scale. Further detail is available at the BGS reference provided within the baseline section of the report and the BGS link below.
<https://www.bgs.ac.uk/map-viewers/geoidex-onshore/>

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PUBLISHED	A1		JM	MB	CC	LJ	22/08/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 10-1 GEOLOGY OF THE STUDY AREA	
Drawing Number		GCCM5J10 - ATK - EGT ZZ - GS - GI - 000002	
Original Size: A3	Scale: 1:40,000	Project Ref: 5214106	Sheet: 1 of 1 Rev: P01



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Construction	None
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Use	None
Decommission / Demolition	None

LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
	SURFACE WATER SAMPLE
	WINDOW SAMPLE

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 10-2 GROUND INVESTIGATION LOCATION PLAN	
Drawing Number		GCCM5J10 - ATK - EGT ZZ - GS - GI - 000003	
Original Size: A3	Scale: 1:5,000	Project Ref: 5214106	Sheet: 1 of 8 Rev: P01



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
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Drawing Number		GCCM5J10 - ATK - EGT ZZ - GS - GI - 000003	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
	SURFACE WATER SAMPLE
	WINDOW SAMPLE

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LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
	SURFACE WATER SAMPLE
	WINDOW SAMPLE

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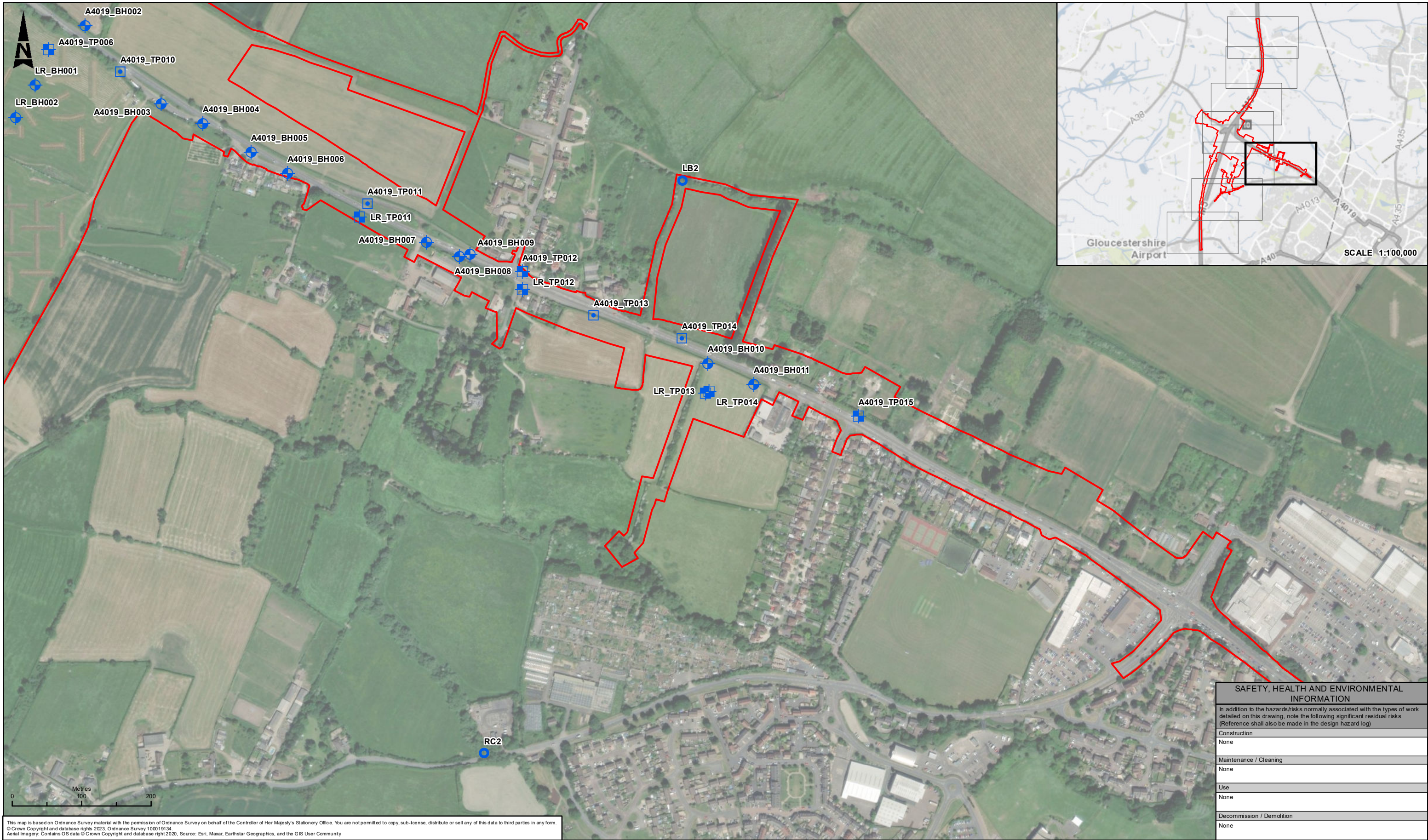
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Construction	None
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Use	None
Decommission / Demolition	None
Project Title M5 Junction 10 Improvements Scheme	
Drawing Title FIGURE 10-2 GROUND INVESTIGATION LOCATION PLAN	
Drawing Number Project: GCCM5J10 - ATK - EGT Originator: ZZ - GS - GI - 000003 Volume: 4 of 8	
Original Size: A3	Scale: 1:5,000
Project Ref: 5214106	Sheet: 4 of 8
Issue Date: 22/08/23	Rev: P01



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

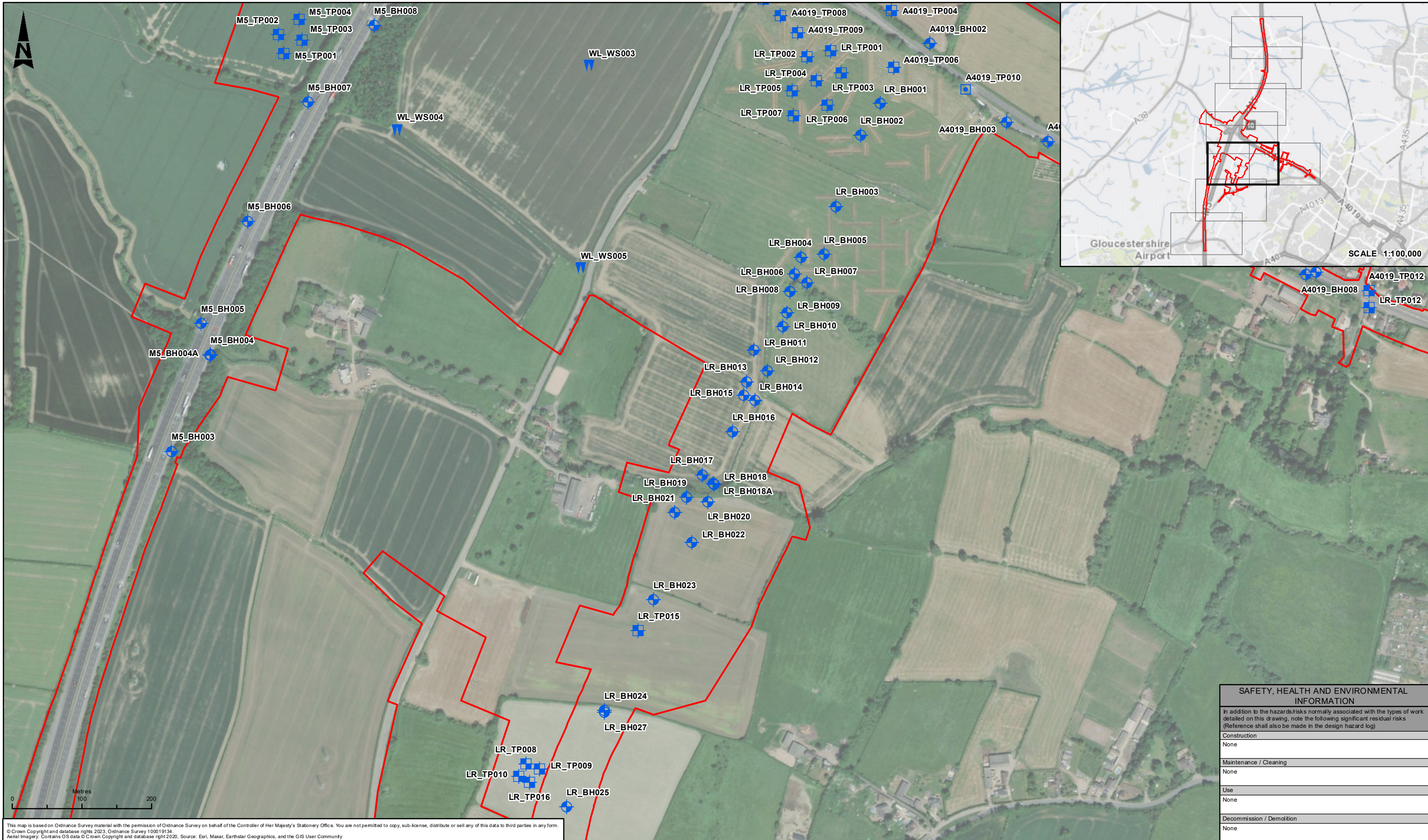
LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
	SURFACE WATER SAMPLE
	WINDOW SAMPLE

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Drawing Title		FIGURE 10-2 GROUND INVESTIGATION LOCATION PLAN	
Drawing Number		Project: GCCM5J10 - ATK - EGT ZZ - GS - GI - 000003	
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Maintenance / Cleaning	None
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LEGEND	
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GI LOCATIONS	
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	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
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Drawing Title		FIGURE 10-2 GROUND INVESTIGATION LOCATION PLAN	
Drawing Number		Project: GCCM5J10 - ATK - EGT Originator: ZZ - GS - GI - 000003 Volume: 6 of 8	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
	SURFACE WATER SAMPLE
	WINDOW SAMPLE

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Drawing Title		FIGURE 10-2 GROUND INVESTIGATION LOCATION PLAN	
Drawing Number		GCCM5J10 - ATK - EGT ZZ - GS - GI - 000003	
Original Size: A3	Scale: 1:5,000	Project Ref: 5214106	Sheet: 7 of 8 Rev: P01



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	ORDER LIMITS
GI LOCATIONS	
	BOREHOLE (DYNAMIC SAMPLE / ROTARY CORE)
	BOREHOLE (DYNAMIC SAMPLE)
	TRIAL PIT
	INSPECTION PIT
	SURFACE WATER SAMPLE
	WINDOW SAMPLE

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
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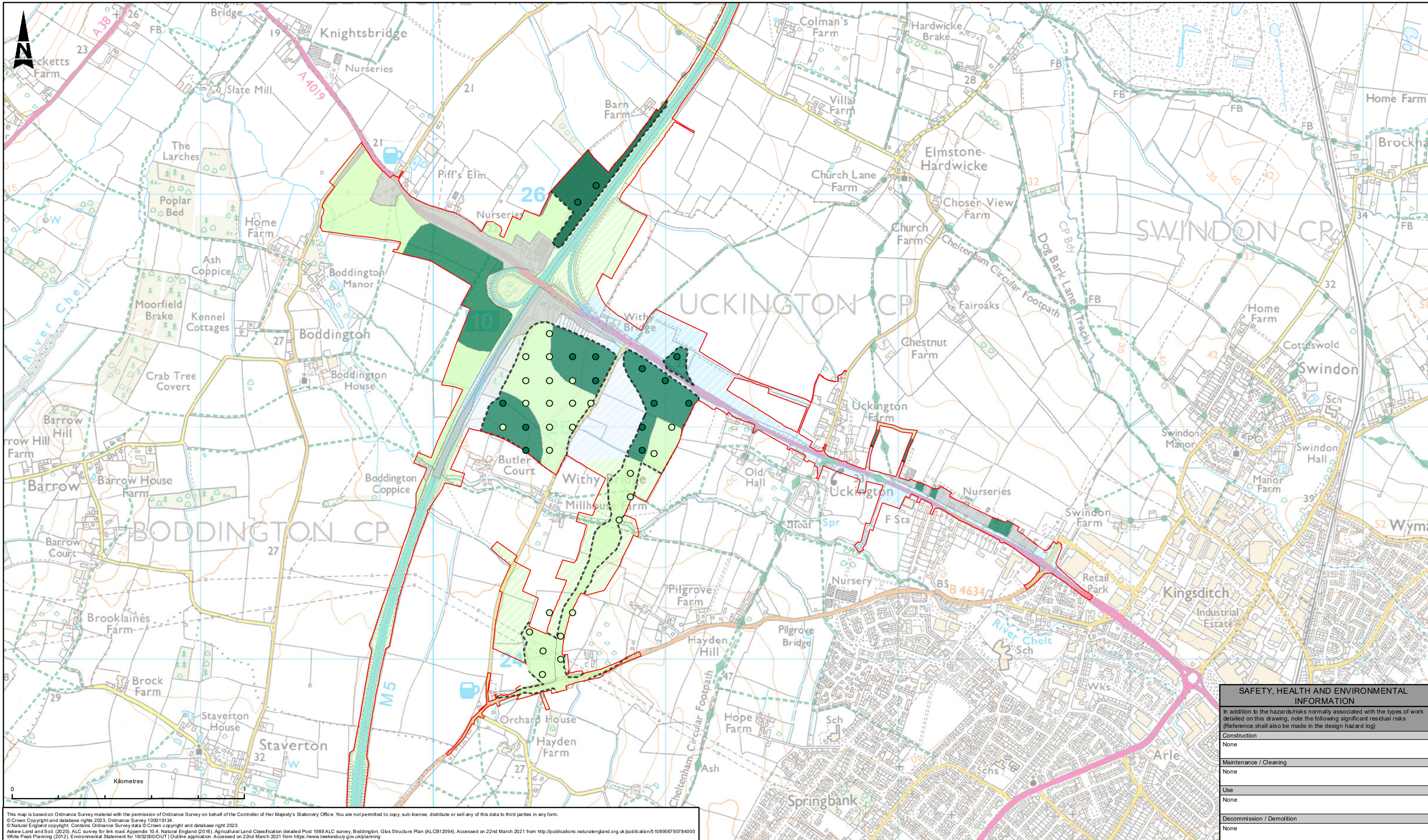
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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 10-2 GROUND INVESTIGATION LOCATION PLAN	
Drawing Number		Project: GCCM5J10 - ATK - EGT Originator: ZZ - GS - GI - 000003 Volume: 8 of 8	
Original Size: A3	Scale: 1:5,000	Project Ref: 5214106	Sheet: 8 of 8 Rev: P01



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 White Peak Planning (2012). Environmental Statement for 16/02/000/OUT | Outline application. Accessed on 22nd March 2021 from <https://www.tewkesbury.gov.uk/planning>

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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND

- ORDER LIMITS
- ALC SURVEY UNDERTAKEN AS PART OF THE SCHEME INCLUDED IN APPENDIX 10.4
- ALC SURVEY UNDERTAKEN DURING ELM LAKE DEVELOPMENT FROM WHITE PEAK PLANNING LTD ENVIRONMENTAL STATEMENT

* WHERE NEITHER DOTTED OR DASHED LINES ARE SHOWN, LAND CLASSIFICATION GRADES ARE BASED ON THE NATURAL ENGLAND PROVISIONAL AND POST 1988 AGRICULTURAL LAND CLASSIFICATION

SITE SURVEY HAND AUGER SAMPLE POINTS		AGRICULTURAL LAND CLASSIFICATION	
●	GRADE 3A	■	GRADE 1 - EXCELLENT QUALITY
○	GRADE 3B	■	GRADE 2 - VERY GOOD QUALITY
■	GRADE 3A - GOOD QUALITY	■	GRADE 3B - MODERATE QUALITY
■	GRADE 3B - MODERATE QUALITY	■	GRADE 4 - POOR QUALITY
■	GRADE 4 - POOR QUALITY	■	GRADE 5 - VERY POOR QUALITY
■	GRADE 5 - VERY POOR QUALITY	■	NOT SURVEYED
■	NOT SURVEYED	■	OTHER

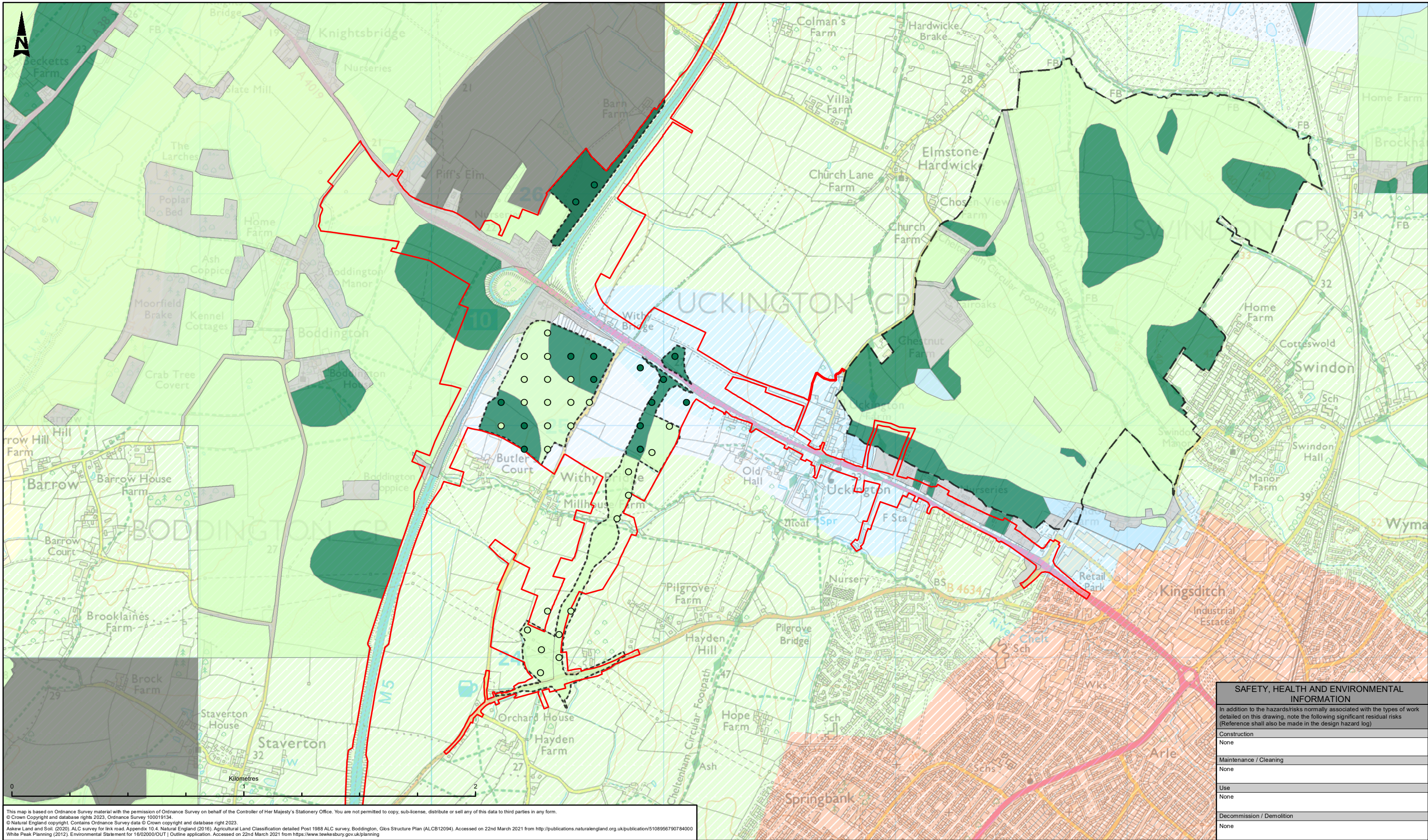
AGRICULTURAL LAND CLASSIFICATION GRADES 1, 2 AND 3A ARE BEST AND MOST VERSATILE

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 10-3 AGRICULTURAL LAND CLASSIFICATION	
Drawing Number		GCCM5J10 - ATK - EGT ZZ - GS - GI - 000001	
Original Size: A3	Scale: 1:15,000	Project Ref: 5214106	Sheet: 1 of 1 Rev: P02



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

LEGEND

- ORDER LIMITS
- ALC SURVEY UNDERTAKEN AS PART OF THE SCHEME INCLUDED IN APPENDIX 10.4
- ALC SURVEY UNDERTAKEN DURING ELM'S PARK DEVELOPMENT FROM WHITE PEAK PLANNING LTD ENVIRONMENTAL STATEMENT
- * WHERE NEITHER DOTTED OR DASHED LINES ARE RECORDED REFERS TO PUBLISHED ALC INFORMATION FROM NATURAL ENGLAND /MAGIC: POST 1988 AGRICULTURAL LAND CLASSIFICATION

SITE SURVEY HAND AUGER SAMPLE POINTS

- GRADE 3A
- GRADE 3B

AGRICULTURAL LAND CLASSIFICATION

- GRADE 1
- GRADE 2

AGRICULTURAL LAND CLASSIFICATION (PROVISIONAL)

- GRADE 3A
- GRADE 3B
- GRADE 4
- GRADE 5
- NOT SURVEYED
- OTHER

AGRICULTURAL LAND CLASSIFICATION (PROVISIONAL)

- GRADE 1 - EXCELLENT
- GRADE 2 - VERY GOOD
- GRADE 3 - GOOD TO MODERATE
- GRADE 4 - POOR
- LAND PREDOMINANTLY IN URBAN USE

AGRICULTURAL LAND CLASSIFICATION GRADES 1, 2 AND 3A ARE BEST AND MOST VERSATILE

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	Figure 10-3a - Agricultural Land Classification in the surrounding area
Drawing Number	Project: GCCM5J10 - ATK - EGT ZZ - DR- LM - 400001
Original Size	A3
Scale	1:15,000
Project Ref	5214106
Sheet	1 of 1
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