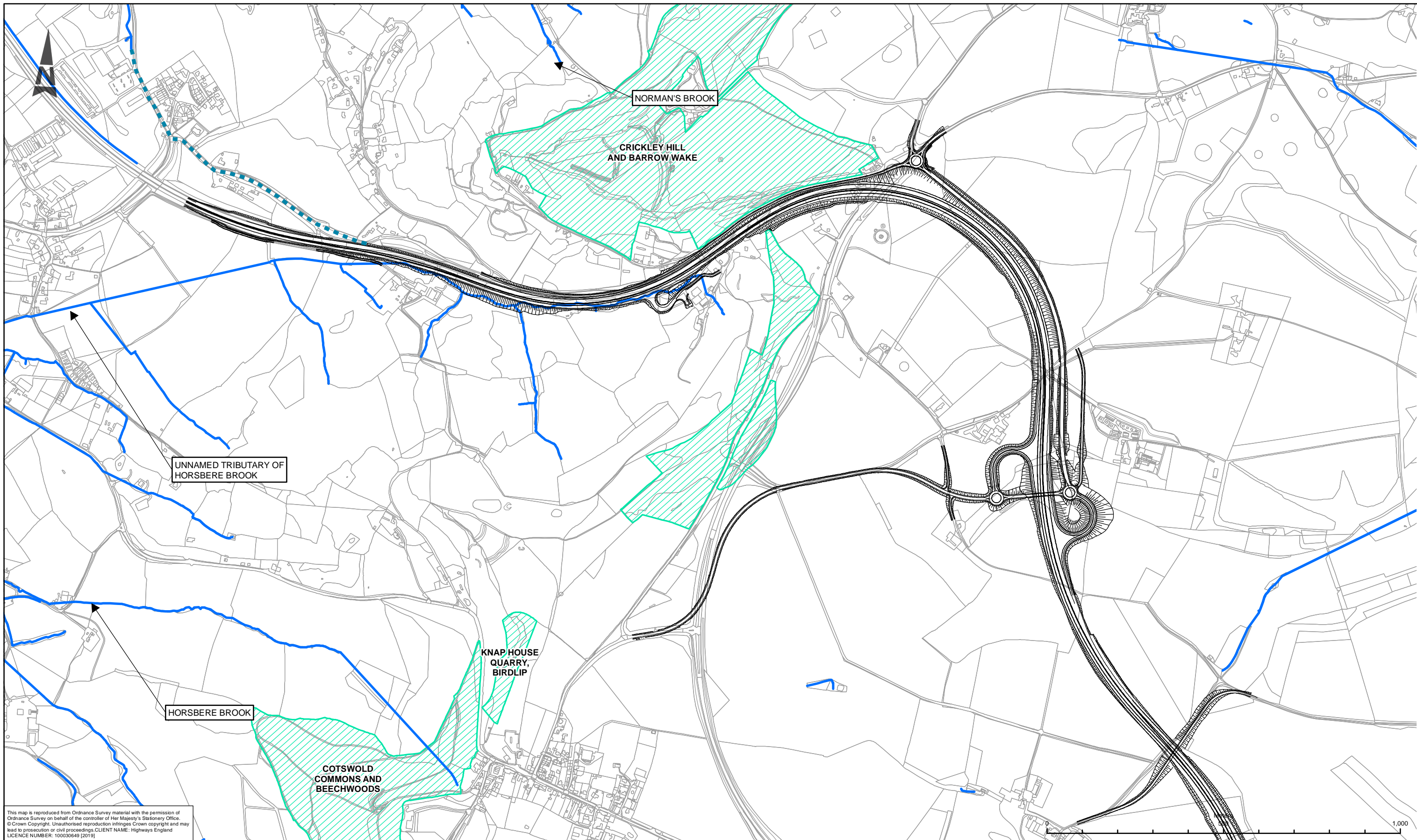


# **A417 Missing Link**

## **PEI Figures - Volume 6**

## Table of Figures

- Figure 13.1 - Surface Water Features - Sheet 1 of 2
- Figure 13.1 - Surface Water Features - Sheet 2 of 2
- Figure 13.2 - Existing Flood Risk - Sheet 1 of 2
- Figure 13.2 - Existing Flood Risk - Sheet 2 of 2
- Figure 13.3 - WFD Surface Waterbodies - Sheet 1 of 2
- Figure 13.3 - WFD Surface Waterbodies - Sheet 2 of 2
- Figure 13.4 - WFD Ground Waterbodies - Sheet 1 of 2
- Figure 13.4 - WFD Ground Waterbodies - Sheet 2 of 2
- Figure 13.5 - Hydrogeological Plan Features Sheet 1 of 2
- Figure 13.5 - Hydrogeological Plan Features Sheet 2 of 2
- Figure 13.6 - Aquifer Designations Sheet 1 of 2
- Figure 13.6 - Aquifer Designations Sheet 2 of 2
- Figure 13.7 - Groundwater Flooding Susceptibility Sheet 1 of 2
- Figure 13.7 - Groundwater Flooding Susceptibility Sheet 2 of 2



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LEGEND	
	WATER NETWORK AS PRESENTED BY THE EA SUPERCEDED BY TRACER TESTING
	APPROXIMATE DIRECTION OF WATERCOURSE FOLLOWING TRACER TESTING
	SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)

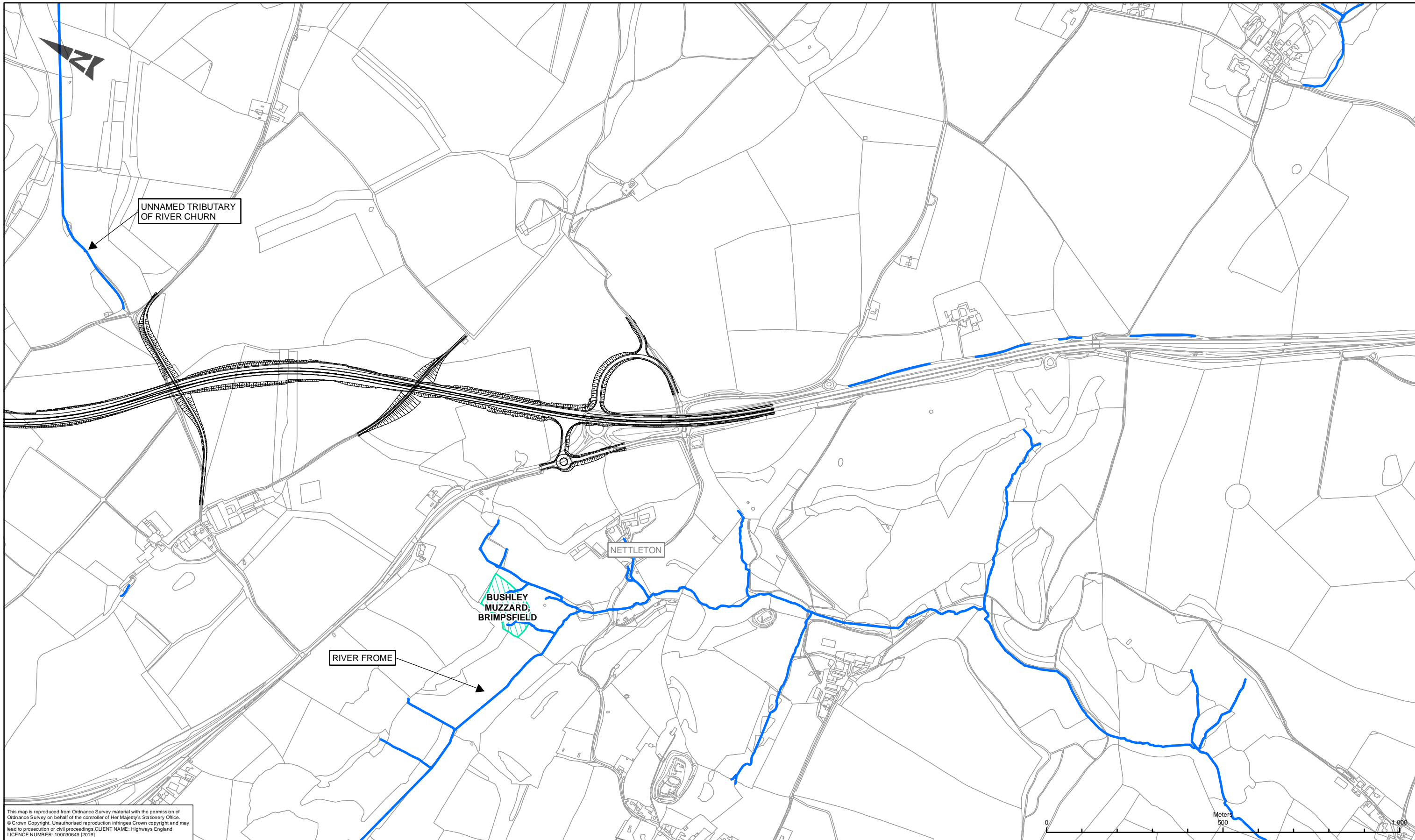
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	NONE
MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	UPDATED FIGURE NUMBER	EB	TS	JP	SW

Subsidiary	S4	Drawing Status	SUITABLE FOR STAGE APPROVAL
		Client	

Project Title		A417 MISSING LINK			
Drawing Title		FIGURE 13.1 SURFACE WATER FEATURES SHEET 1 OF 2			
Scale	1:10,000	By	EB	Checked	TS
Original Size	A3	Date	21/08/19	Date	21/08/19
Approved	JP	Date	21/08/19	Authorised	SW
Date	21/08/19	Date	21/08/19	Date	21/08/19
Drawing Number	HE PIN	Originator	ARP	Volume	EWE
HE PIN	X_XX_XXXX_X	-DR	LE	-000001	
Location		Type	Role	Number	
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**LEGEND**  
 WATER NETWORK  
 SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)

**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
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	19/08/19	UPDATED FIGURE NUMBER	EB	TS	JP	SW

S4	SUITABLE FOR STAGE APPROVAL

Client	highways england
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Project Title	A417 MISSING LINK								
Drawing Title	FIGURE 13.1 SURFACE WATER FEATURES SHEET 2 OF 2								
Scale	1:10,000	By	EB	Checked	TS	Approved	JP	Authorised	SW
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	Location	Type	Role	Number					





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**LEGEND**

- FLOOD ZONE 3
- FLOOD ZONE 2

**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
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd

Suitability: **S4**  
 Drawing Status: **SUITABLE FOR STAGE APPROVAL**  
  


Project Title: <b>A417 MISSING LINK</b>					
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Scale: <b>1:10,000</b>	By: <b>EB</b>	Checked: <b>TS</b>	Approved: <b>JP</b>	Authorised: <b>SW</b>	
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Location: <b>-DR - LE - 000003</b>		Type: <b>-</b>	Role: <b>-</b>	Number: <b>-</b>	





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**LEGEND**

- FLOOD ZONE 3
- FLOOD ZONE 2

**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)

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<b>MAINTENANCE / CLEANING</b>	
NONE	
<b>USE</b>	
NONE	
<b>DECOMMISSIONING / DEMOLITION</b>	
NONE	

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P04	19/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

Suitability	Drawing Status
S4	SUITABLE FOR STAGE APPROVAL

**ARUP**

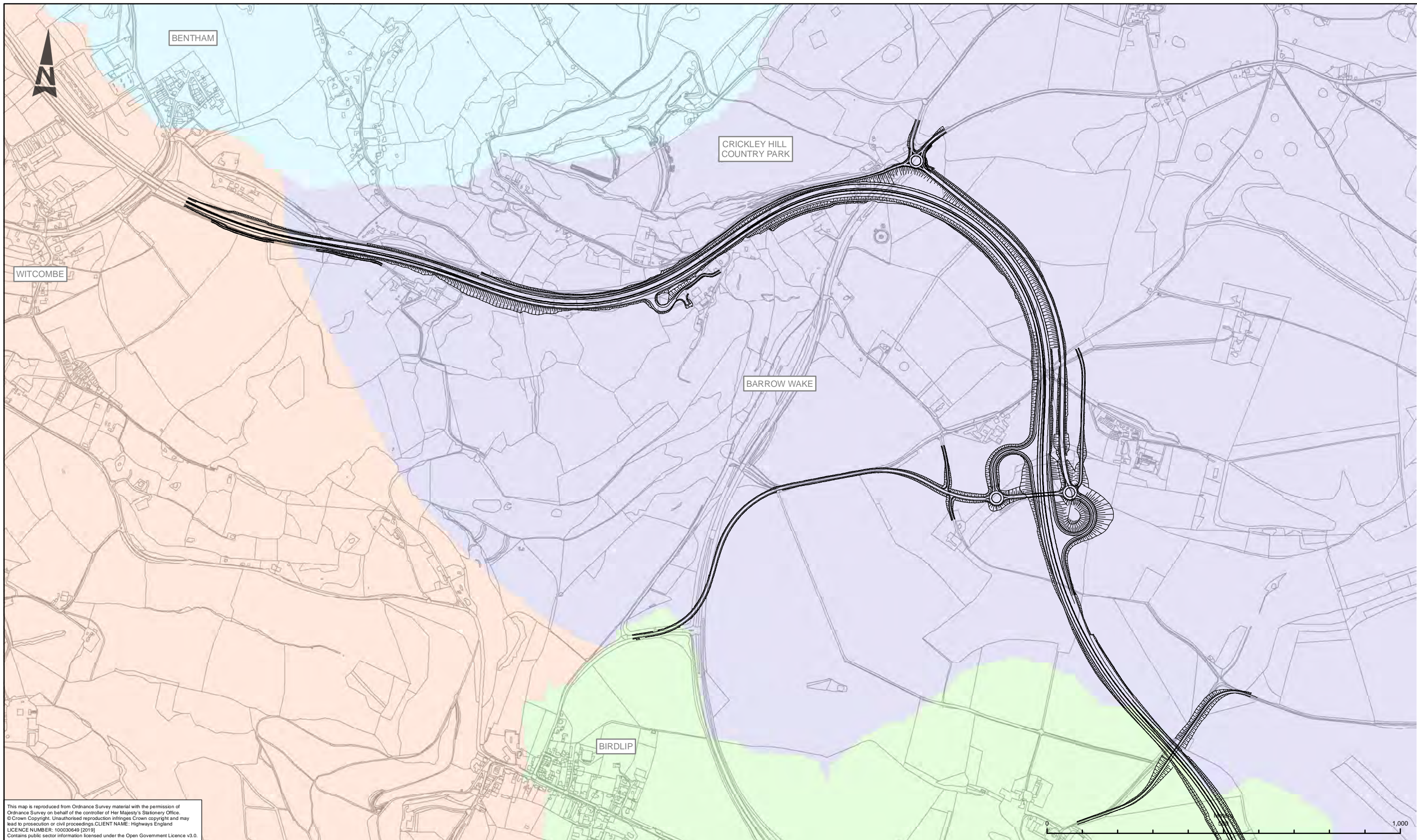


Project Title	A417 MISSING LINK
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Drawing Title	FIGURE 13.2 EXISTING FLOOD RISK SHEET 2 OF 2			
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Scale	1:10,000	By	EB	Checked	TS	Approved	JP	Authorised	SW
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Drawing Number	HE PIN	Originator	ARP	Volume	EWE	Revision			
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**LEGEND**

- RIVER CATCHMENT**
- CHURN
  - FROME
  - HORSEBERE BK
  - NORMAN'S BK

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

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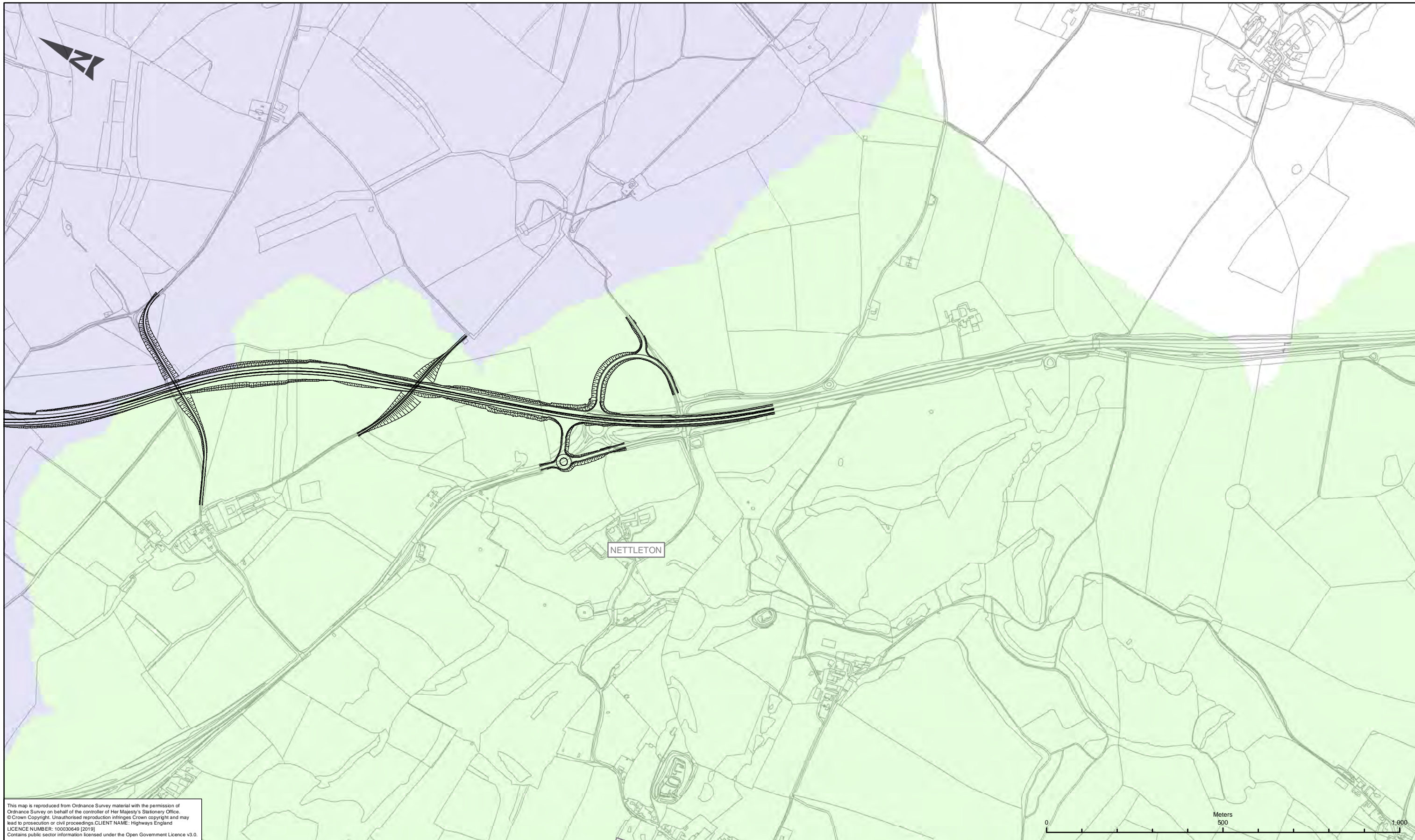
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NONE							

Rev.	Date	Description	By	Chk'd	App'd	Auth'd

Subsidiary	Drawing Status	Project Title
S4	SUITABLE FOR STAGE APPROVAL	A417 MISSING LINK
<b>ARUP</b>		Drawing Title
<b>highways england</b>		FIGURE 13.3 WFD SURFACE WATERBODIES SHEET 1 OF 2
Client	Scale	By
	1:10,000	EB
	Original Size	Checked
	A3	TS
	Date	Approved
	18/07/19	JP
	Date	Authorised
	18/07/19	SW
	Date	Revision
	18/07/19	P04

Drawing Number	HE PIN	Originator	Volume
HE551506 - ARP		- EWE	
X_XX_XXXX_X	-DR	LE - 000005	
Location	Type	Role	Number





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LEGEND	
RIVER CATCHMENT	
	CHURN
	FROME
	HORSEBERE BK
	NORMAN'S BK

**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)			
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NONE			
USE			
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DECOMMISSIONING / DEMOLITION			
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Rev.	Date	Description	

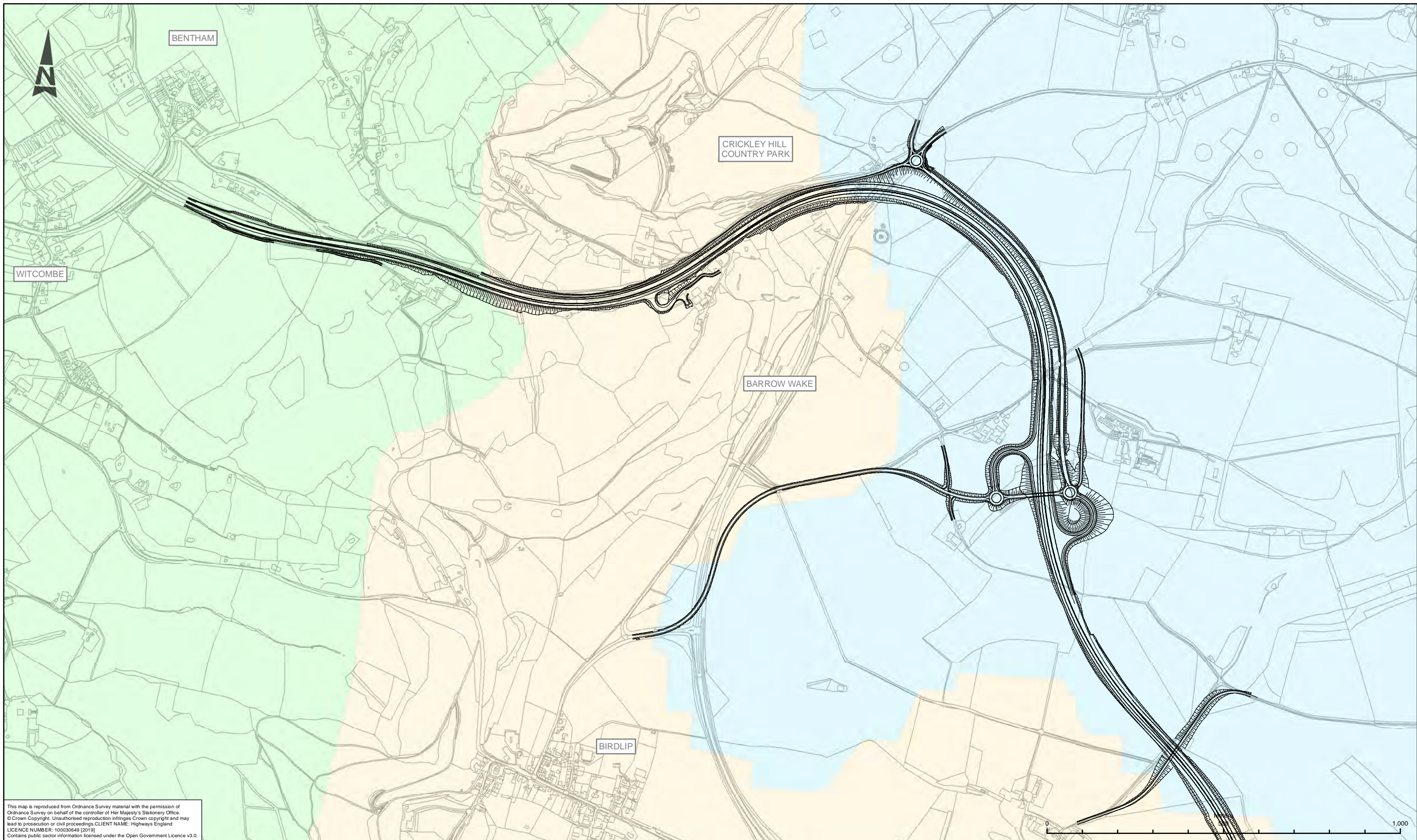

Suitability: S4  
 Drawing Status: SUITABLE FOR STAGE APPROVAL

**ARUP**

highways england

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Drawing Title: FIGURE 13.3 WFD SURFACE WATERBODIES SHEET 2 OF 2				
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**LEGEND**

**WATER BODY NAME**

	BURFORD JURASSIC
	SEVERN VALE - JURASSIC LIMESTONE COTSWOLD EDGE SOUTH
	SEVERN VALE - SECONDARY COMBINED

**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)

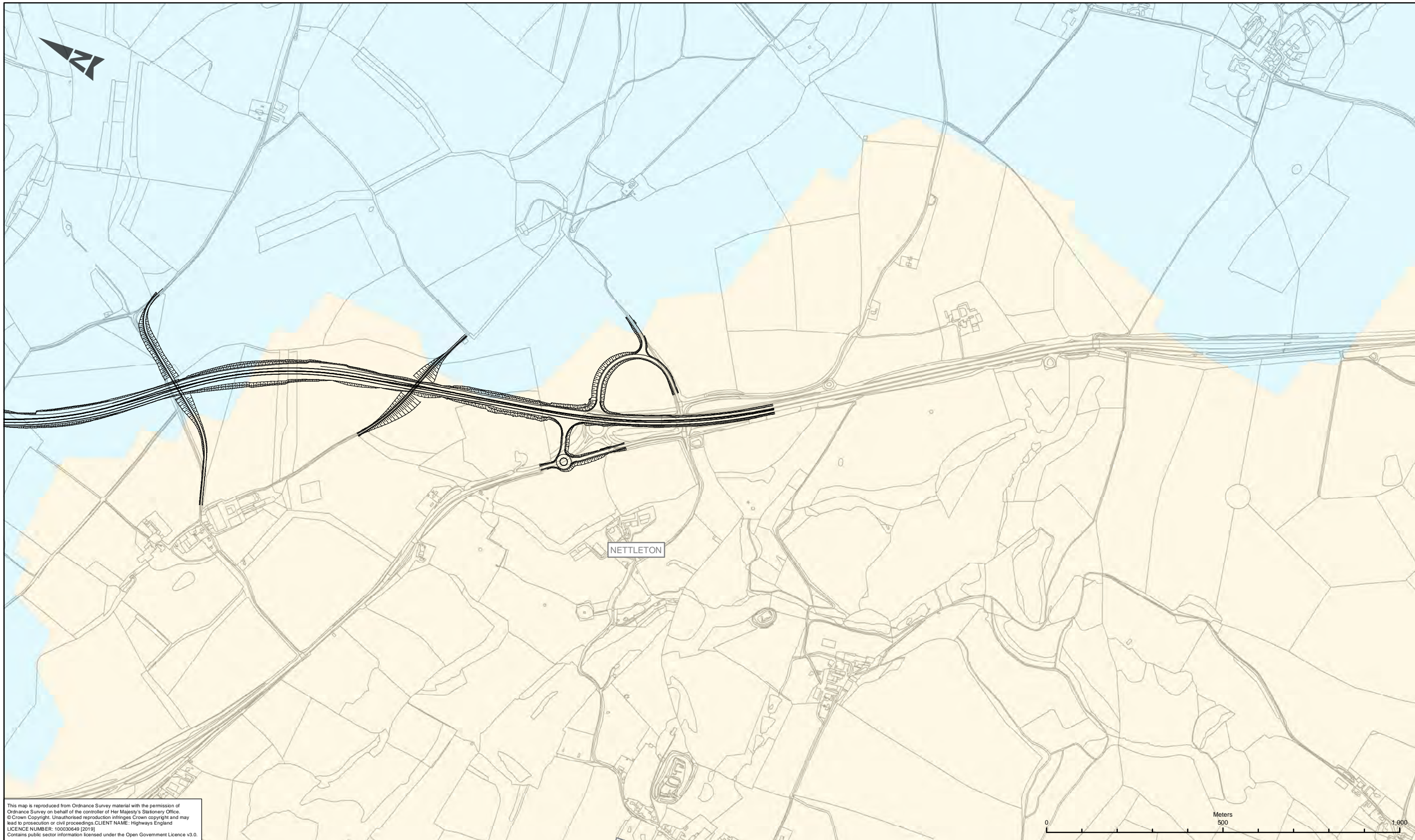
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Rev.	Date	Description	By	Chk'd	App'd	Auth'd

Suitability	Drawing Status
S4	SUITABLE FOR STAGE APPROVAL

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 13.4 WFD GROUNDWATER BODIES SHEET 1 OF 2					
Scale	By	Checked	Approved	Authorised		Original Size	Date	Date	Date	Date	
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HE551506 -		ARP		- EWE		- DR - LE - 000007		P06			
X_XX_XXXX_X		-DR - LE - 000007		Location		Type		Role		Number	





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**LEGEND**

**WATER BODY NAME**

- BURFORD JURASSIC
- SEVERN VALE - JURASSIC LIMESTONE  
COTSWOLD EDGE SOUTH
- SEVERN VALE - SECONDARY COMBINED

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

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<b>CONSTRUCTION</b>			
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<b>MAINTENANCE / CLEANING</b>			
NONE			
<b>USE</b>			
NONE			
<b>DECOMMISSIONING / DEMOLITION</b>			
NONE			

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

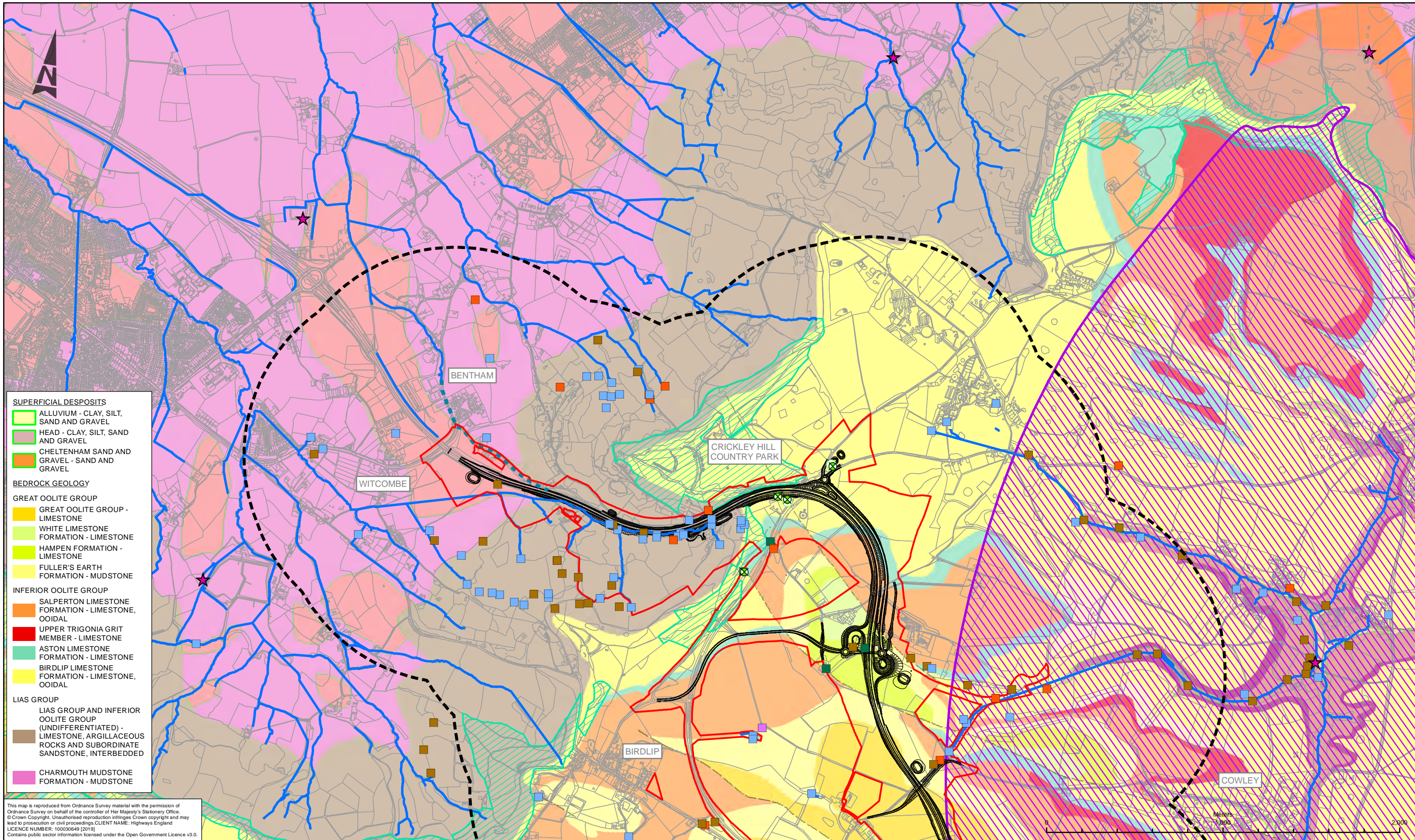
Suitability	Drawing Status	Client
S4	SUITABLE FOR STAGE APPROVAL	highways england

**ARUP**

**highways england**

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 13.4 WFD GROUNDWATER BODIES SHEET 2 OF 2					
Scale	By	Checked	Approved	Authorised		Original Size	Date	Date	Date	Date	
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Drawing Number		HE PIN		Originator		Volume		Revision			
HE551506 -		ARP		- EWE		X_XX_XXXX_X		-DR - LE - 000008		P06	
Location		Type		Role		Number					





- SUPERFICIAL DEPOSIT**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
  - HEAD - CLAY, SILT, SAND AND GRAVEL
  - CHELTHENHAM SAND AND GRAVEL - SAND AND GRAVEL
- BEDROCK GEOLOGY**
- GREAT OOLITE GROUP**
- GREAT OOLITE GROUP - LIMESTONE
  - WHITE LIMESTONE FORMATION - LIMESTONE
  - HAMPEN FORMATION - LIMESTONE
  - FULLER'S EARTH FORMATION - MUDSTONE
- INFERIOR OOLITE GROUP**
- SALPERTON LIMESTONE FORMATION - LIMESTONE, OOIDAL
  - UPPER TRIGONIA GRIT MEMBER - LIMESTONE
  - ASTON LIMESTONE FORMATION - LIMESTONE
  - BIRD LIP LIMESTONE FORMATION - LIMESTONE, OOIDAL
- LIAS GROUP**
- LIAS GROUP AND INFERIOR OOLITE GROUP (UNDIFFERENTIATED) - LIMESTONE, ARGILLACEOUS ROCKS AND SUBORDINATE SANDSTONE, INTERBEDDED
  - CHARMOUTH MUDSTONE FORMATION - MUDSTONE

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- LEGEND**
- PROPOSED SCHEME BOUNDARY
  - PROPOSED SCHEME BOUNDARY - 1KM BUFFER
  - SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)
  - WATER NETWORK AS PRESENTED BY THE EA SUPERCEDED BY TRACER TESTING
  - APPROXIMATE DIRECTION OF WATERCOURSE FOLLOWING TRACER TESTING
  - SOURCE PROTECTION ZONE CURRENT / PROPOSED (SPZ 3)
  - ACTIVE SURFACE WATER ABSTRACTION POINTS
  - GROUNDWATER RELATED FEATURES
  - POTENTIAL UNLICENSED ABSTRACTIONS (STATUS UNKNOWN)
  - SPRING
  - DRY VALLEY
  - FLOODED GROUND
  - SEEPAGE
  - PHASE 1 GROUND INVESTIGATION
  - DS/RC
  - OH

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

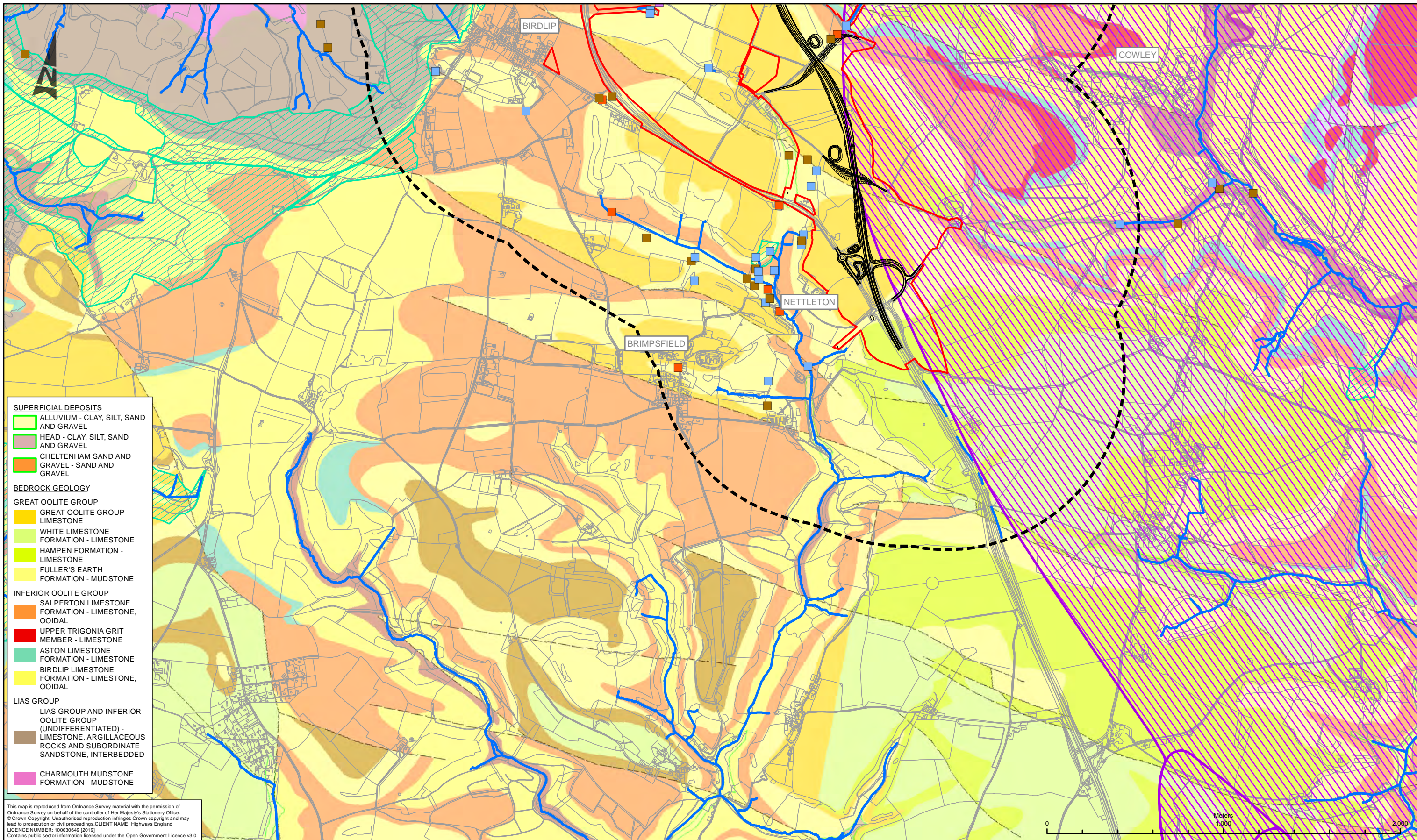
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)

CONSTRUCTION	MAINTENANCE / CLEANING	USE	DECOMMISSIONING / DEMOLITION			
NONE	NONE	NONE	NONE			
Rev.	Date	Description	By	Chk'd	App'd	Auth'd

S4	Drawing Status	SUITABLE FOR STAGE APPROVAL
<b>ARUP</b>		
<b>highways england</b>		
P06	21/08/19	FIGURE NUMBER UPDATE
EB	TS	JP
SW		

Project Title		A417 MISSING LINK			
Drawing Title		FIGURE 13.5 HYDROGEOLOGICAL PLAN FEATURES SHEET 1 OF 2			
Scale	By	Checked	Approved	Authorised	
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Drawing Number	HE PIN	Originator	Volume	Revision	
HE551506 -	ARP	- EWE		P06	
X_XX_XXXX_X	-DR	LE - 000013			
Location	Type	Role	Number		





- SUPERFICIAL DEPOSITS**
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
  - HEAD - CLAY, SILT, SAND AND GRAVEL
  - CHELTENHAM SAND AND GRAVEL - SAND AND GRAVEL
- BEDROCK GEOLOGY**
- GREAT OOLITE GROUP**
- GREAT OOLITE GROUP - LIMESTONE
  - WHITE LIMESTONE FORMATION - LIMESTONE
  - HAMPEN FORMATION - LIMESTONE
  - FULLER'S EARTH FORMATION - MUDSTONE
- INFERIOR OOLITE GROUP**
- SALPERTON LIMESTONE FORMATION - LIMESTONE, OOIDAL
  - UPPER TRIGONIA GRIT MEMBER - LIMESTONE
  - ASTON LIMESTONE FORMATION - LIMESTONE
  - BIRD LIP LIMESTONE FORMATION - LIMESTONE, OOIDAL
- LIAS GROUP**
- LIAS GROUP AND INFERIOR OOLITE GROUP (UNDIFFERENTIATED) - LIMESTONE, ARGILLACEOUS ROCKS AND SUBORDINATE SANDSTONE, INTERBEDDED
  - CHARMOUTH MUDSTONE FORMATION - MUDSTONE

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- LEGEND**
- PROPOSED SCHEME BOUNDARY
  - PROPOSED SCHEME BOUNDARY - 1KM BUFFER
  - SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)
  - WATER NETWORK AS PRESENTED BY THE EA SUPERCEDED BY TRACER TESTING
  - APPROXIMATE DIRECTION OF WATERCOURSE FOLLOWING TRACER TESTING
  - SOURCE PROTECTION ZONE CURRENT / PROPOSED (SPZ 3)
  - ACTIVE SURFACE WATER ABSTRACTION POINTS
  - GROUNDWATER RELATED FEATURES
  - POTENTIAL UNLICENSED ABSTRACTIONS (STATUS UNKNOWN)
  - SPRING
  - DRY VALLEY
  - FLOODED GROUND
  - SEEPAGE
  - PHASE 1 GROUND INVESTIGATION
  - DS/RC
  - OH

**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)

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MAINTENANCE / CLEANING	NONE
USE	NONE
DECOMMISSIONING / DEMOLITION	NONE

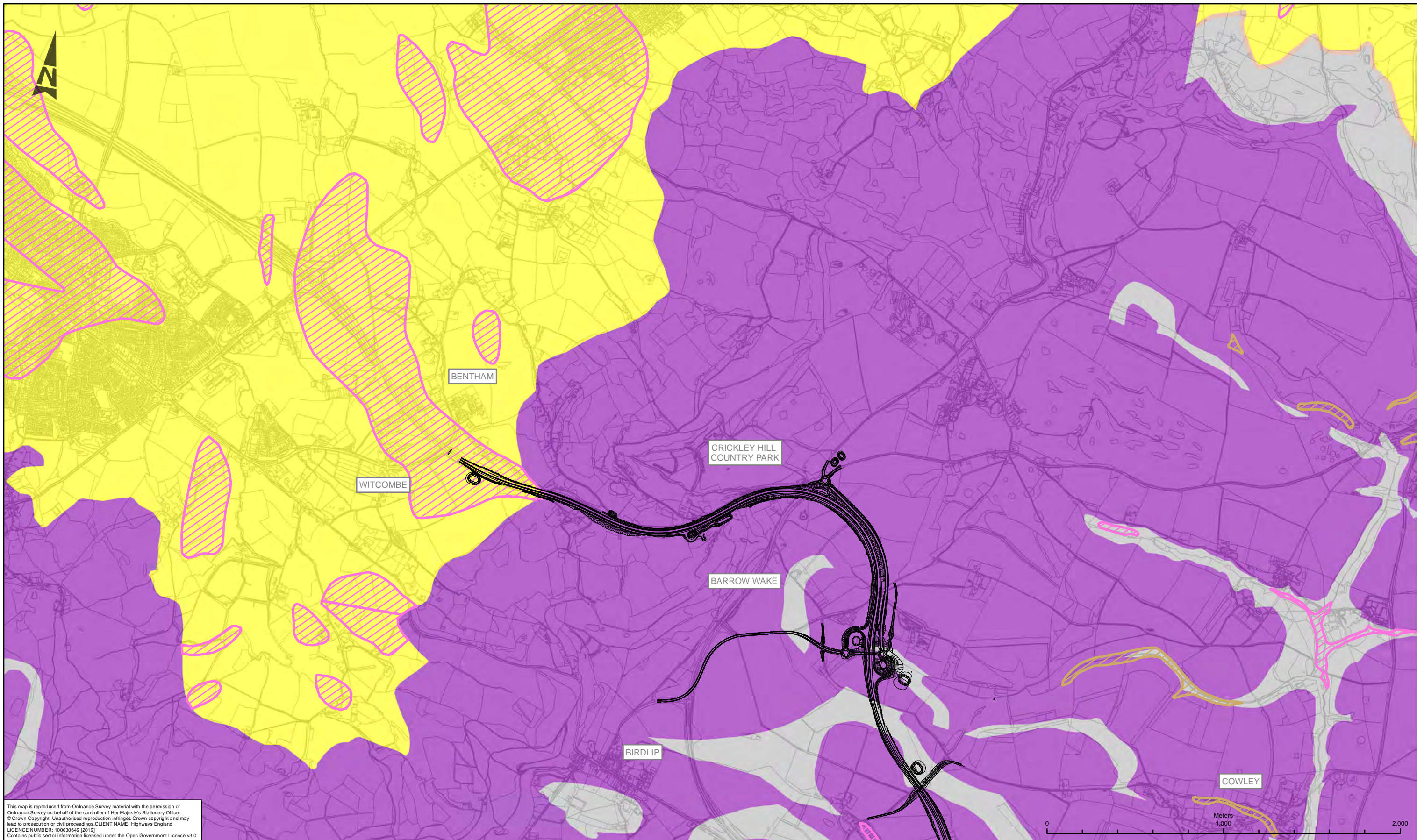
Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

Client: **ARUP**

highways england

Project Title		A417 MISSING LINK			
Drawing Title		FIGURE 13.5 HYDROGEOLOGICAL PLAN FEATURES SHEET 2 OF 2			
Scale	By	Checked	Approved	Authorised	
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Location	Type	Role	Number		





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LEGEND	
<b>AQUIFER DESIGNATION - SUPERFICIAL DEPOSITS</b>	<b>AQUIFER DESIGNATION - BEDROCK</b>
SECONDARY (UNDIFFERENTIATED)	PRINCIPAL
SECONDARY A	SECONDARY (UNDIFFERENTIATED)
SECONDARY B	SECONDARY A
UNPRODUCTIVE	SECONDARY B
	UNPRODUCTIVE

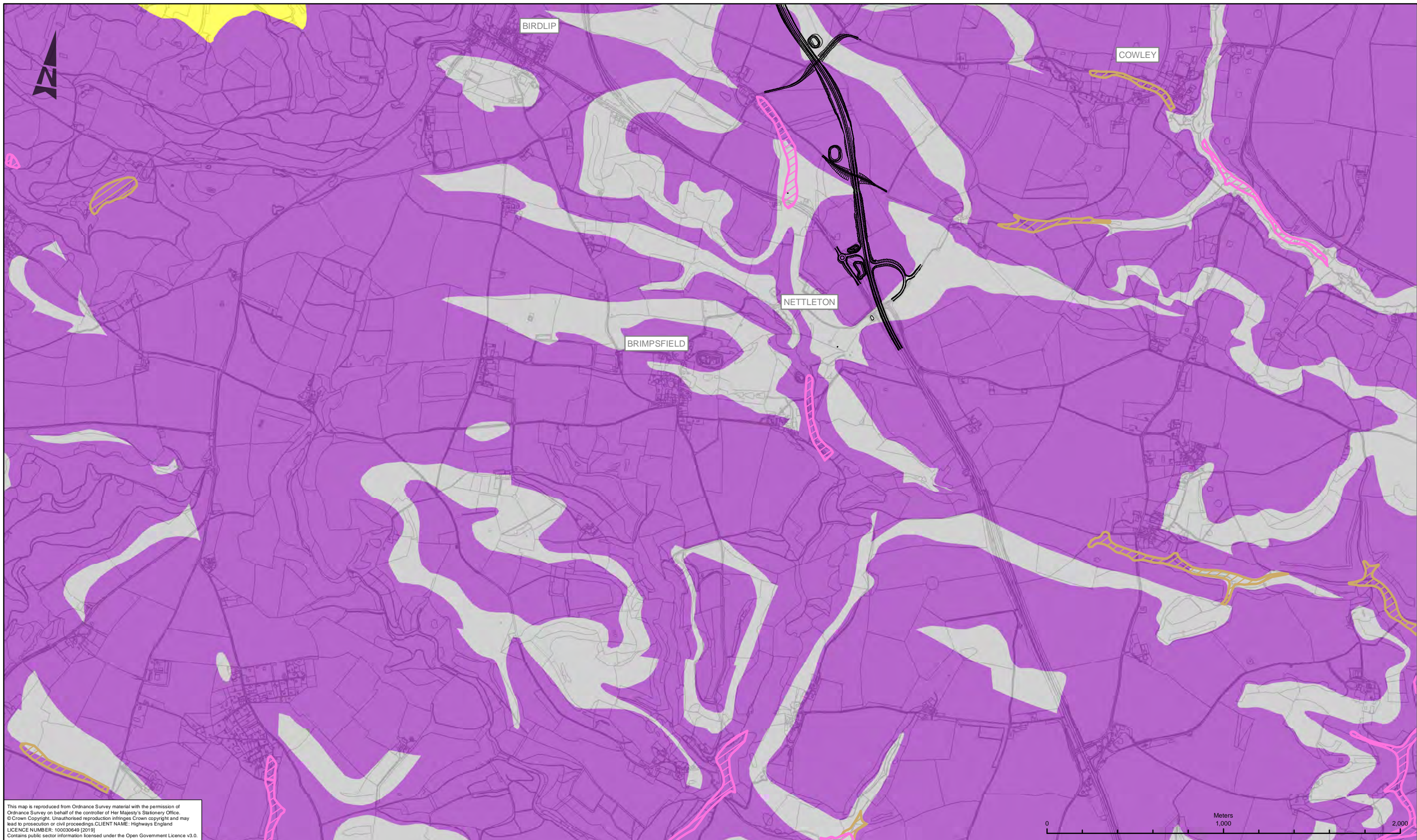
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
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NONE	
MAINTENANCE / CLEANING	
NONE	
USE	
NONE	
DECOMMISSIONING / DEMOLITION	
NONE	

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

Suitability	S4	Drawing Status	SUITABLE FOR STAGE APPROVAL
		Client	

Project Title						A417 MISSING LINK					
Drawing Title						FIGURE 13.6 AQUIFER DESIGNATIONS SHEET 1 OF 2					
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Location		Type	Role	Number							





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LEGEND	
<b>AQUIFER DESIGNATION - SUPERFICIAL DEPOSITS</b>	<b>AQUIFER DESIGNATION - BEDROCK</b>
SECONDARY (UNDIFFERENTIATED)	PRINCIPAL
SECONDARY A	SECONDARY (UNDIFFERENTIATED)
SECONDARY B	SECONDARY A
UNPRODUCTIVE	SECONDARY B
	UNPRODUCTIVE

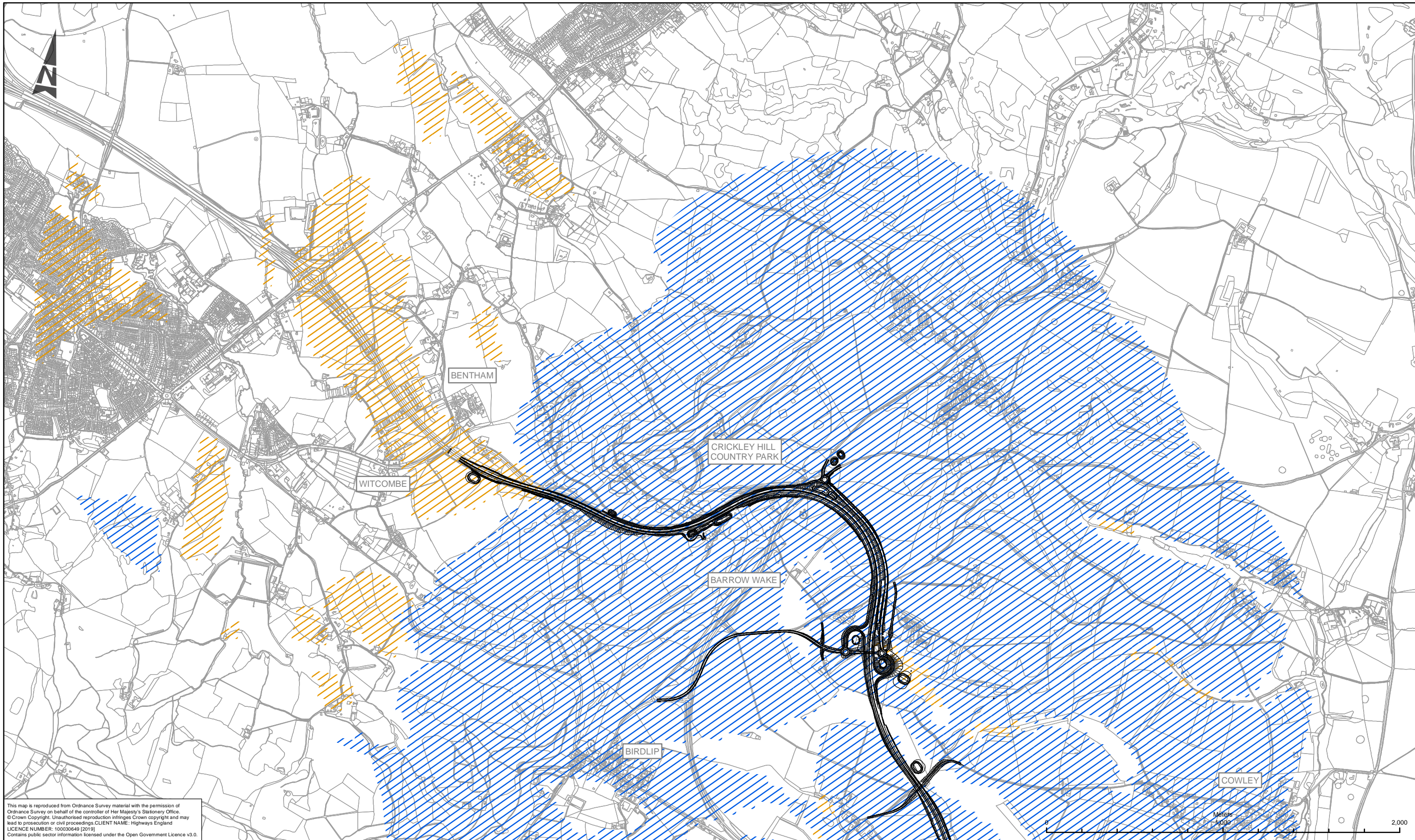
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS (REFERENCE SHALL ALSO BE MADE IN THE DESIGN HAZARD LOG)	
CONSTRUCTION	
NONE	
MAINTENANCE / CLEANING	
NONE	
USE	
NONE	
DECOMMISSIONING / DEMOLITION	
NONE	

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

Suitability	Drawing Status	Project Title
S4	SUITABLE FOR STAGE APPROVAL	A417 MISSING LINK

Drawing Title					
FIGURE 13.6 AQUIFER DESIGNATIONS SHEET 2 OF 2					
Scale	By	Checked	Approved	Authorised	
1:20,000	EB	TS	JP	SW	
Original Size	Date	Date	Date	Date	Date
A3	21/08/19	21/08/19	21/08/19	21/08/19	21/08/19
Drawing Number					
HE PIN	Originator	Volume	Revision		
HE551506 -	ARP	EWE	P06		
X_XX_XXXX_X	-DR	LE - 000012			
Location	Type	Role	Number		





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**LEGEND**

GROUNDWATER FLOODING SUSCEPTIBILITY

- CLEARWATER FLOODING
- SUPERFICIAL DEPOSITS FLOODING

**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
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

Suitability	Drawing Status
S4	SUITABLE FOR STAGE APPROVAL

**ARUP**

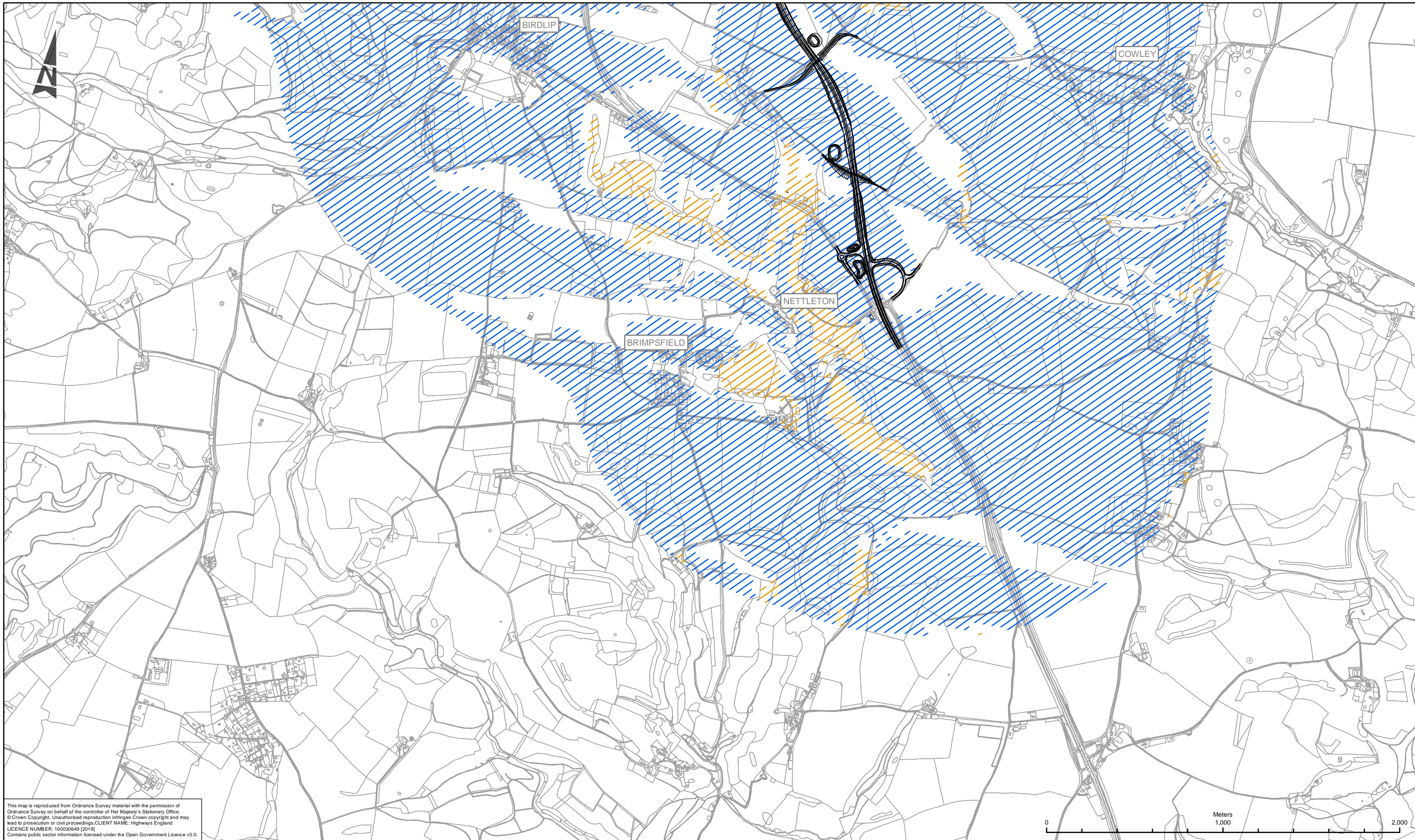
highways england

Project Title	A417 MISSING LINK
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Drawing Title	FIGURE 13.7 GROUNDWATER FLOODING SUSCEPTIBILITY SHEET 1 OF 2
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Scale	1:20,000	By	EB	Checked	TS	Approved	JP	Authorised	SW
Original Size	A3	Date	21/08/19	Date	21/08/19	Date	21/08/19	Date	21/08/19
Drawing Number	HE PIN	Originator	ARP	Volume	EWE	P06			
HE PIN	X_XX_XXXX_X	-DR	LE	-000009					





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**LEGEND**  
 GROUNDWATER FLOODING SUSCEPTIBILITY  
 CLEARWATER FLOODING  
 SUPERFICIAL DEPOSITS FLOODING

**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
DECOMMISSIONING / DEMOLITION	NONE

Rev.	Date	Description	By	Chk'd	App'd	Auth'd
P06	21/08/19	FIGURE NUMBER UPDATE	EB	TS	JP	SW

Suitability Drawing Status  
 S4 SUITABLE FOR STAGE APPROVAL

**ARUP**

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Project Title  
 A417 MISSING LINK

Drawing Title  
 FIGURE 13.7  
 GROUNDWATER FLOODING SUSCEPTIBILITY  
 SHEET 2 OF 2

Scale	1:20,000	By	EB	Checked	TS	Approved	JP	Authorised	SW
Original Size	A3	Date	21/08/19	Date	21/08/19	Date	21/08/19	Date	21/08/19
Drawing Number	HE PIN	Originator	ARP	Volume	EWE				
	HE551506 -		DR - LE - 000010						P06
	X_XX_XXXX_X								
	Location		Type		Role				Number