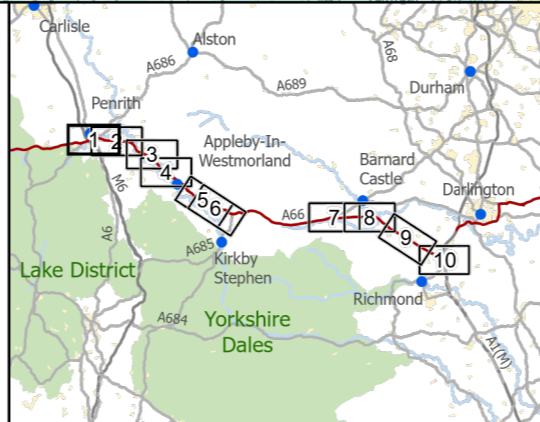


<ul style="list-style-type: none"> <li>— Route Alignment</li> <li>== Existing A66</li> <li>▭ Order Limits</li> <li>▭ Study Area 1000m</li> <li>Groundwater Survey Results</li> <li>▲ GW to SW Interaction</li> <li>● Non GWSWI</li> <li>▲ Potential GW to SW Interaction</li> <li>▼ SW to GW Interaction</li> <li>● Spring</li> <li>Depression Site Survey Results</li> <li>▽ Cave</li> </ul>	<ul style="list-style-type: none"> <li>⊗ Enclosed depression - gypsum karst</li> <li>⊗ Enclosed depression - non karst</li> <li>● Non-enclosed depression</li> <li>⊗ Potential enclosed depression</li> <li>⊗ Potential enclosed depression - gypsum karst</li> <li>▽ Valley</li> <li>BGS 1:50k Bedrock</li> <li>Alston Formation - Mudstone Sandstone and Siltstone</li> <li>Alston Formation - Sandstone</li> </ul>	<ul style="list-style-type: none"> <li>Belah Dolomite</li> <li>Brockram Breccia</li> <li>Crag Limestone</li> <li>Eden Shales</li> <li>Evaporite - Gypsum</li> <li>Four Fathom Limestone</li> <li>Great Limestone Member</li> <li>Little Limestone</li> <li>Penrith Sandstone</li> <li>St Bees Sandstone Member</li> <li>Stainmore Formation - Mudstone, Siltstone and Sandstone</li> <li>Three Yard Limestone</li> </ul>
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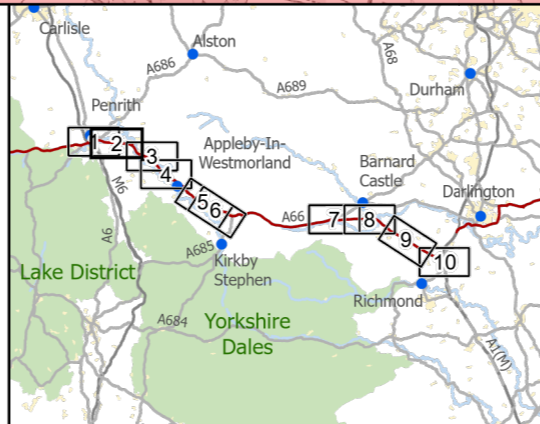
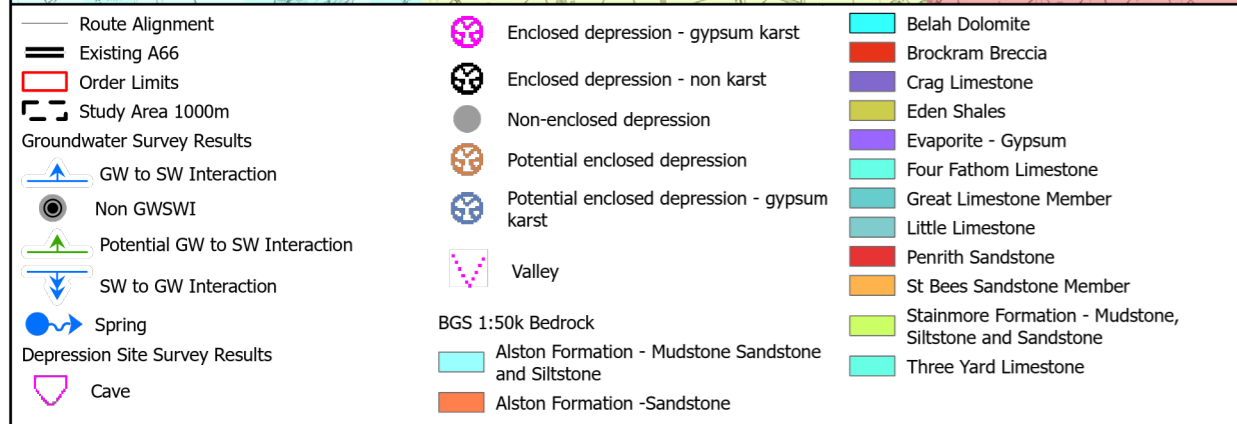
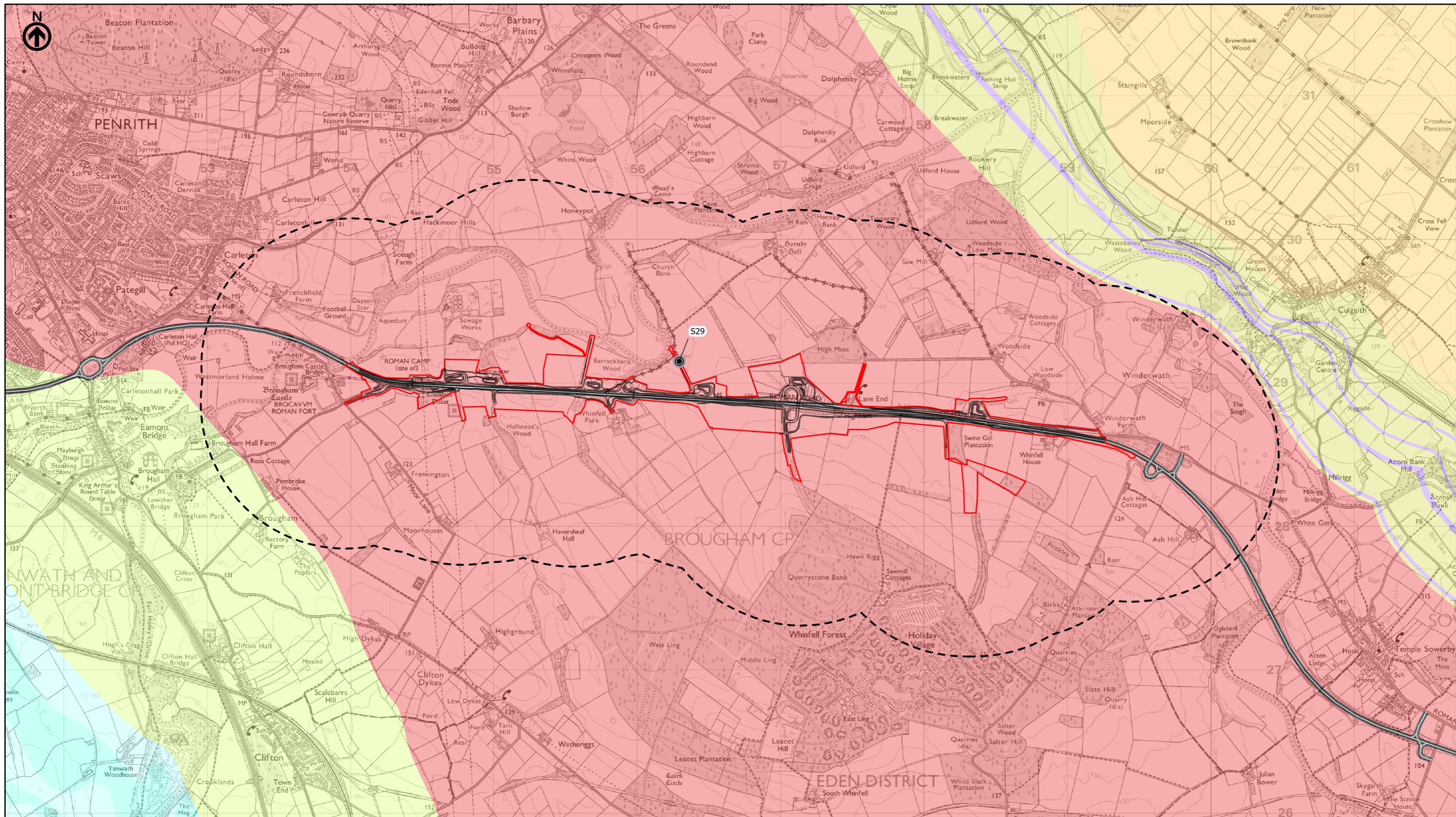
**national highways** 3 Piccadilly Place  
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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title <b>Figure 14.8.3</b>			
Karst Survey Results			
Scheme: 0102, M6 Junction 40 to Kemplay Bank			
Sheet 1 of 10			
Map Number Project	Originator	Volume	
HE565627	AMY	EWE	
S00	MP	LD	011270
Location	Type	Role	Number
Suitability S4	Suitability Description <b>FIT FOR STAGE APPROVAL</b>		Revision P02





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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

Kilometres

Scale @ A3: 1:25,000 | Project Ref No HE565627 | Stage: Stage 3

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Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
**Figure 14.8.3**

**Karst Survey Results**

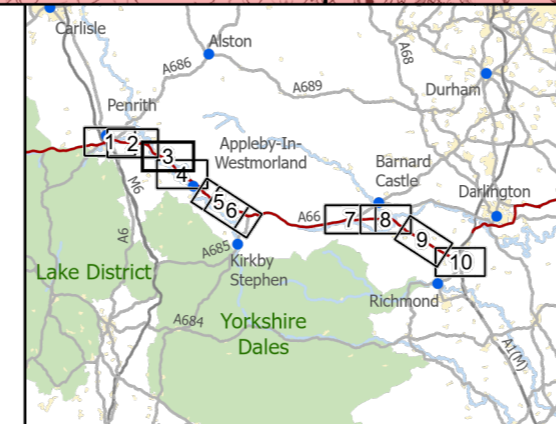
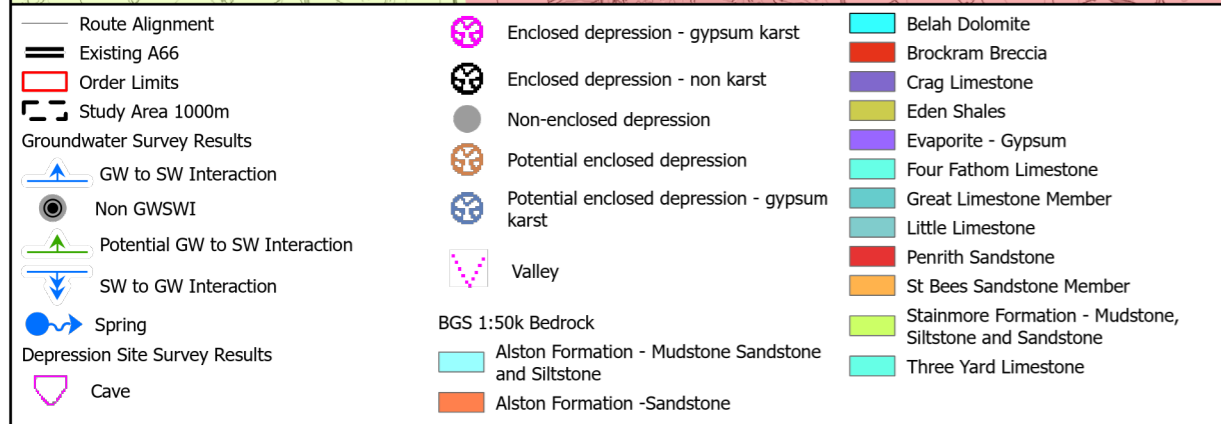
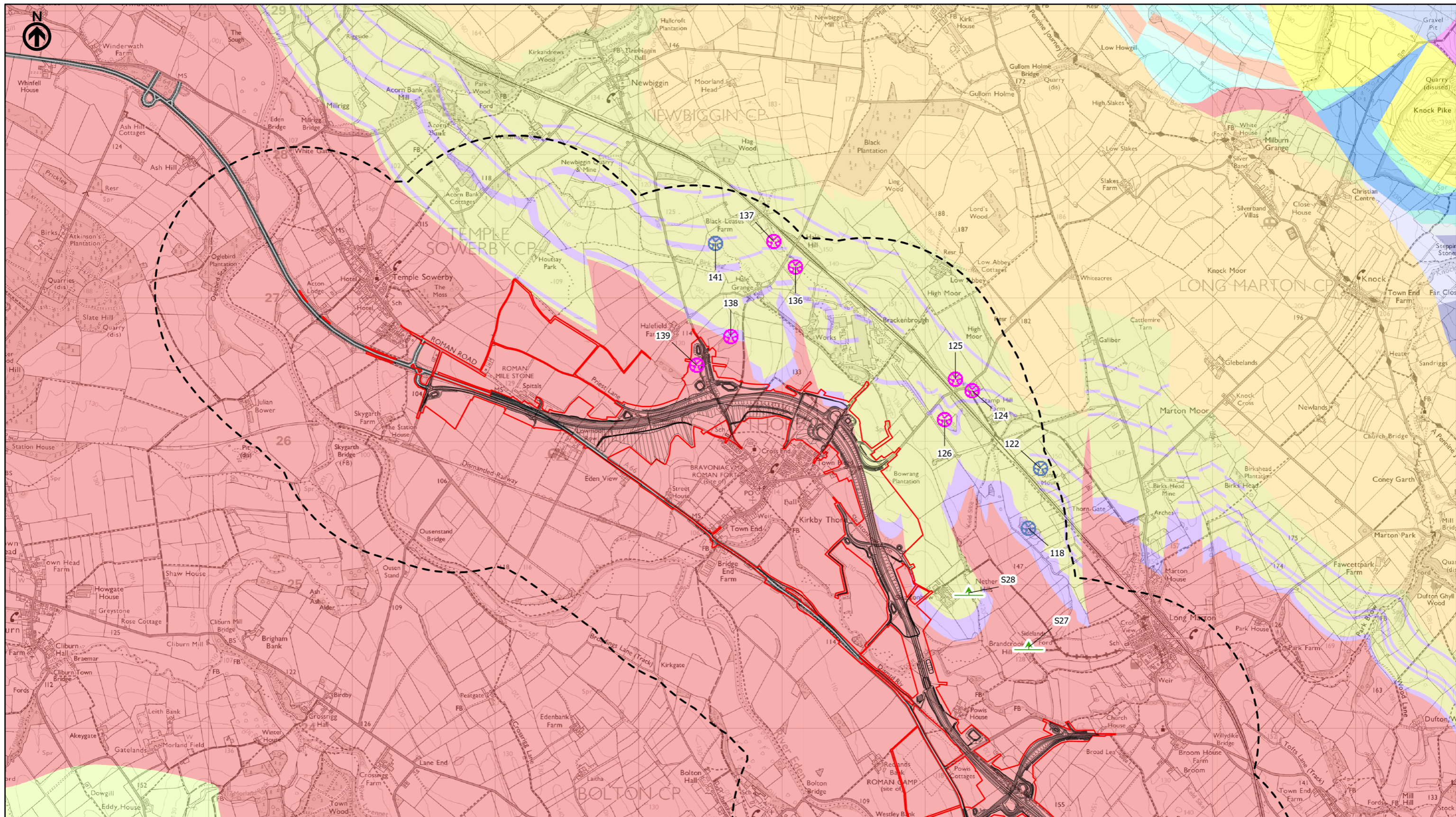
Scheme: 03, Penrith to Temple Sowerby

Sheet 2 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	011271
Location		Type	Role

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02





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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

Kilometres

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Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
**Figure 14.8.3**

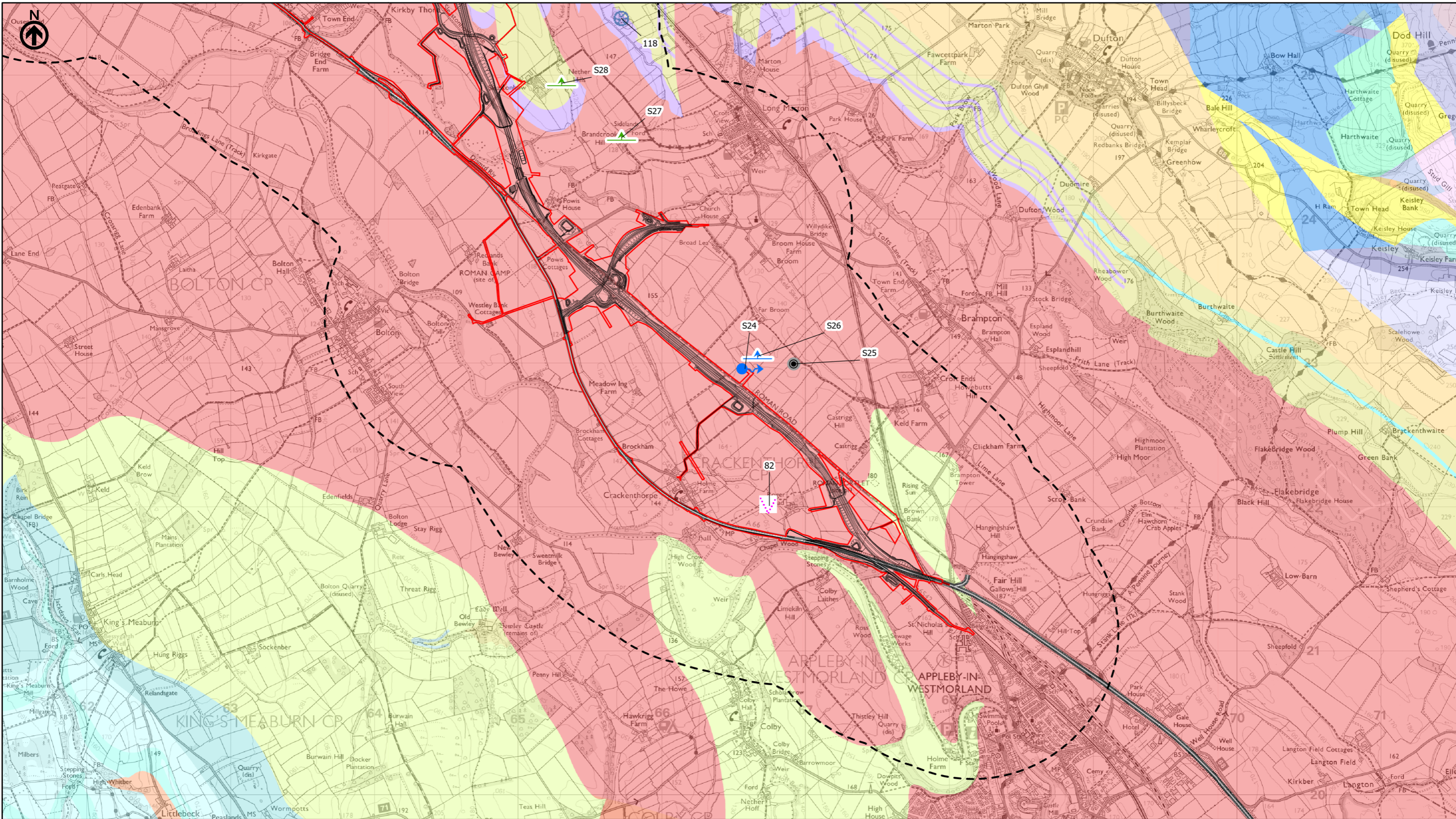
**Karst Survey Results**

Scheme: 0405, Temple Sowerby to Appleby  
Sheet 3 of 10

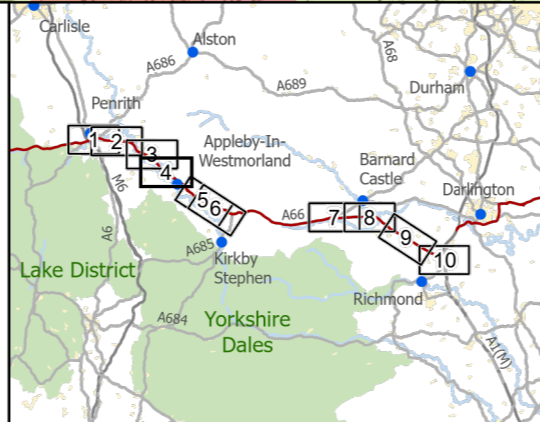
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HE565627	-	AMY	EWE
S00	-	MP	LD
Location		Type	Role
			Number

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02





<ul style="list-style-type: none"> <li>— Route Alignment</li> <li>== Existing A66</li> <li>▭ Order Limits</li> <li>▭ Study Area 1000m</li> <li>Groundwater Survey Results</li> <li>↕ GW to SW Interaction</li> <li>● Non GWSWI</li> <li>↕ Potential GW to SW Interaction</li> <li>↕ SW to GW Interaction</li> <li>● Spring</li> <li>Depression Site Survey Results</li> <li>○ Cave</li> </ul>	<ul style="list-style-type: none"> <li>⊗ Enclosed depression - gypsum karst</li> <li>⊗ Enclosed depression - non karst</li> <li>● Non-enclosed depression</li> <li>⊗ Potential enclosed depression</li> <li>⊗ Potential enclosed depression - gypsum karst</li> <li>▽ Valley</li> <li>BGS 1:50k Bedrock</li> <li>Alston Formation - Mudstone Sandstone and Siltstone</li> <li>Alston Formation - Sandstone</li> </ul>	<ul style="list-style-type: none"> <li>Belah Dolomite</li> <li>Brockram Breccia</li> <li>Crag Limestone</li> <li>Eden Shales</li> <li>Evaporite - Gypsum</li> <li>Four Fathom Limestone</li> <li>Great Limestone Member</li> <li>Little Limestone</li> <li>Penrith Sandstone</li> <li>St Bees Sandstone Member</li> <li>Stainmore Formation - Mudstone, Siltstone and Sandstone</li> <li>Three Yard Limestone</li> </ul>
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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

Kilometres

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Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
**Figure 14.8.3**

**Karst Survey Results**

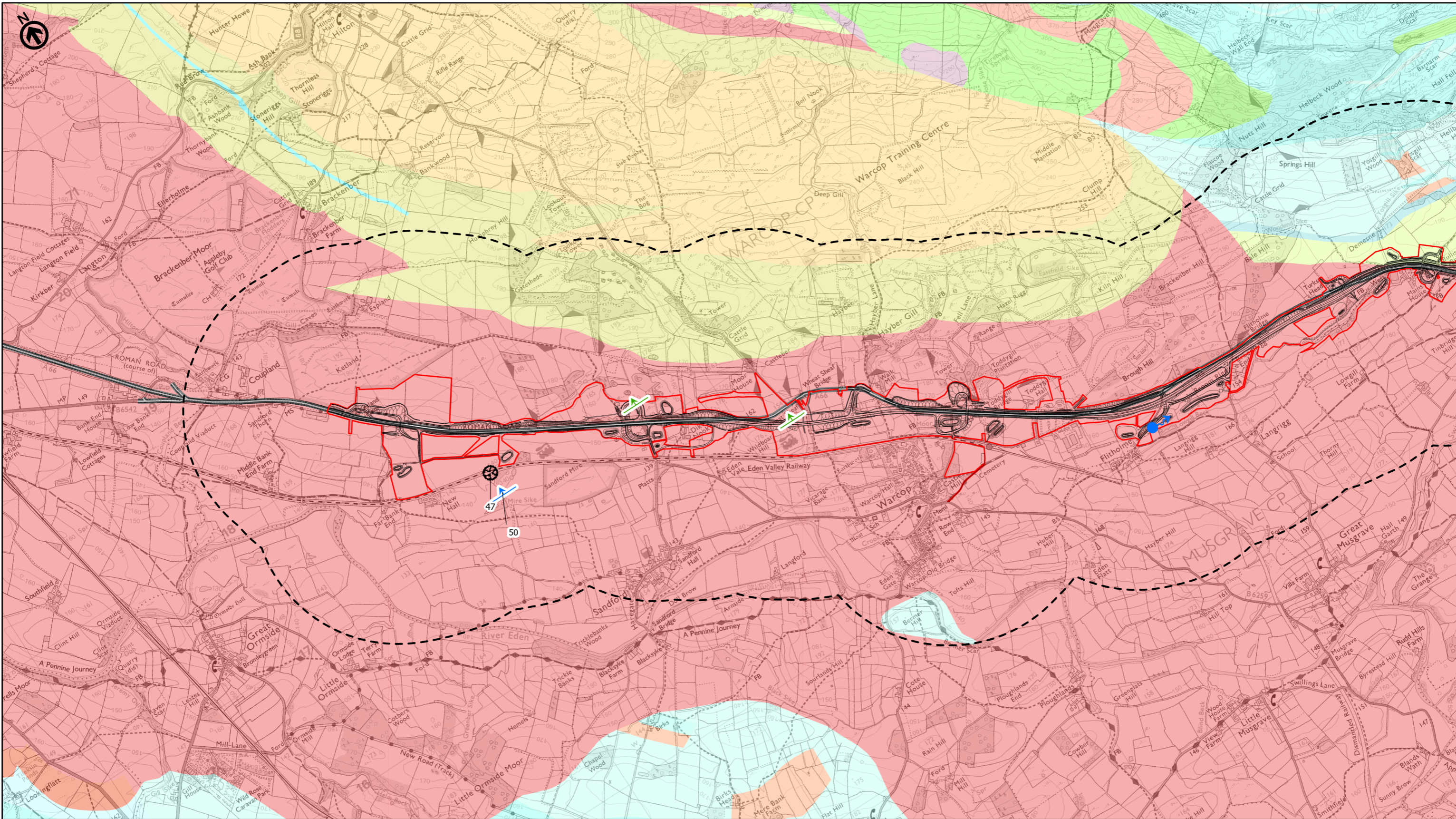
Scheme: 0405, Temple Sowerby to Appley

Sheet 4 of 10

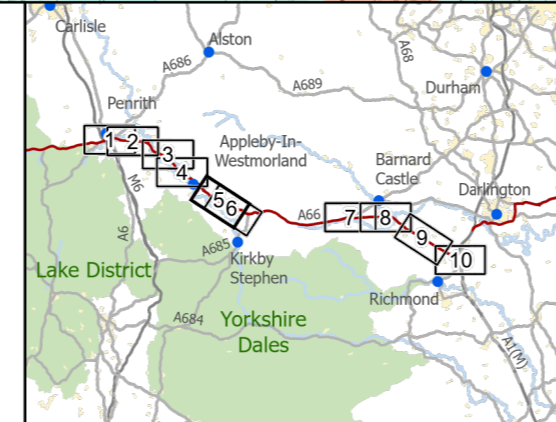
Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	011273
Location		Type	Role

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02





- Route Alignment
- Existing A66
- Order Limits
- Study Area 1000m
- Groundwater Survey Results
- ▲ GW to SW Interaction
- Non GWSWI
- ▲ Potential GW to SW Interaction
- ▼ SW to GW Interaction
- Spring
- Depression Site Survey Results
- Cave
- ⊗ Enclosed depression - gypsum karst
- ⊗ Enclosed depression - non karst
- Non-enclosed depression
- ⊗ Potential enclosed depression
- ⊗ Potential enclosed depression - gypsum karst
- ▽ Valley
- BGS 1:50k Bedrock
- Alston Formation - Mudstone Sandstone and Siltstone
- Alston Formation - Sandstone
- Belah Dolomite
- Brockram Breccia
- Crag Limestone
- Eden Shales
- Evaporite - Gypsum
- Four Fathom Limestone
- Great Limestone Member
- Little Limestone
- Penrith Sandstone
- St Bees Sandstone Member
- Stainmore Formation - Mudstone, Siltstone and Sandstone
- Three Yard Limestone



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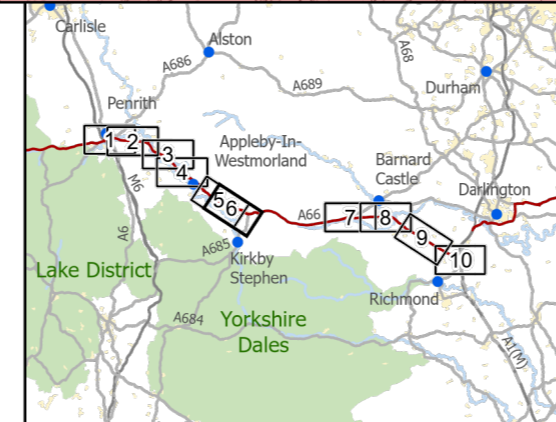
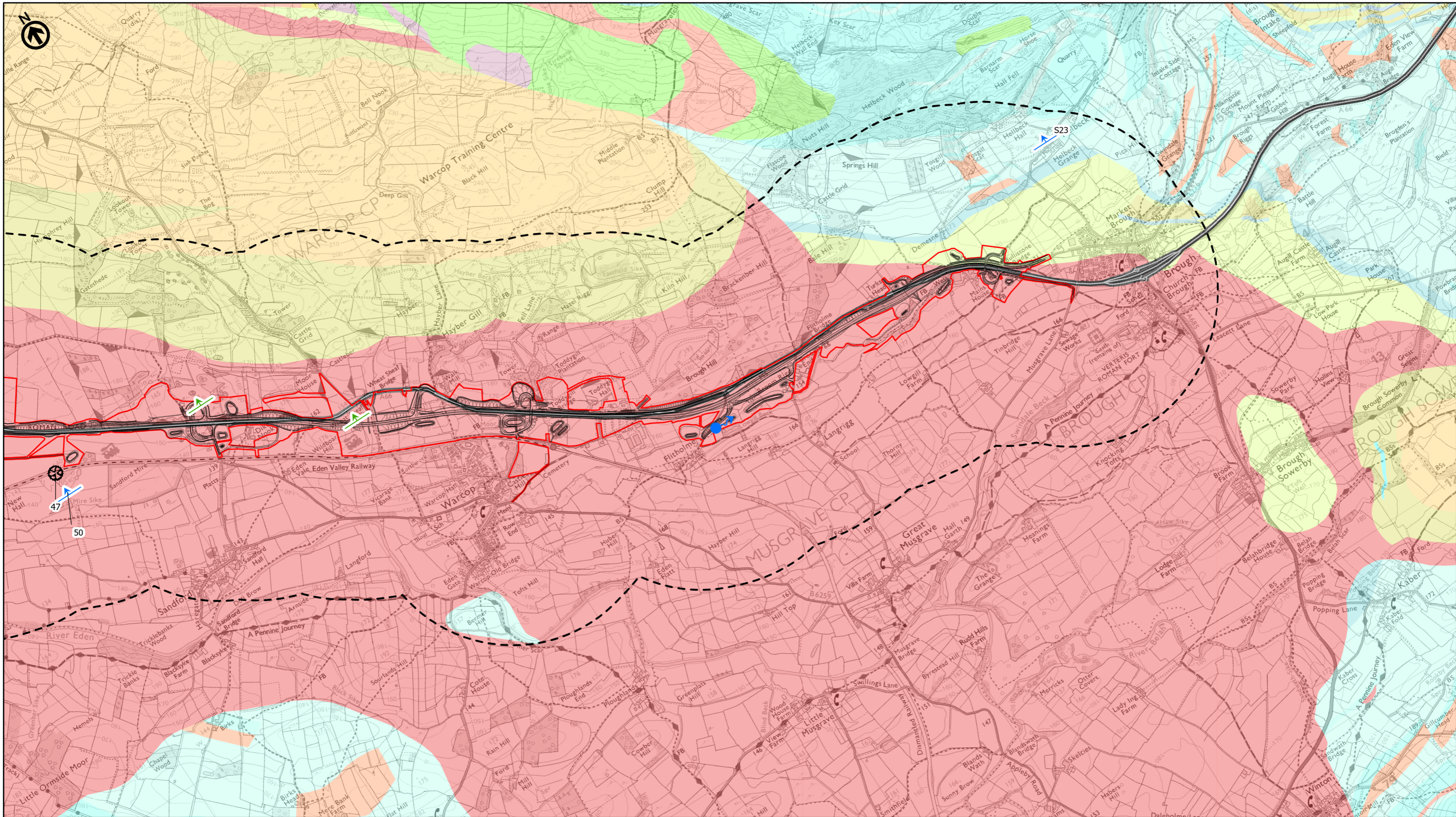
P02	First Issue				
	CESL	LHAN	MBRE	AMIT	KWHA
	29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title <b>Figure 14.8.3</b>			
Scheme: 06, Appleby to Brough			
Sheet 5 of 10			
Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	011274
Location		Type	Role
Suitability	Suitability Description		Revision
S4	FIT FOR STAGE APPROVAL		P02

This Environmental Statement Figure meets the requirements of Regulation 5(2)(1)(iii) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure Regulations) 2009.





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P02	First Issue				
	CESL	LHAN	MBRE	AMIT	KWHA
	29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
**Figure 14.8.3**

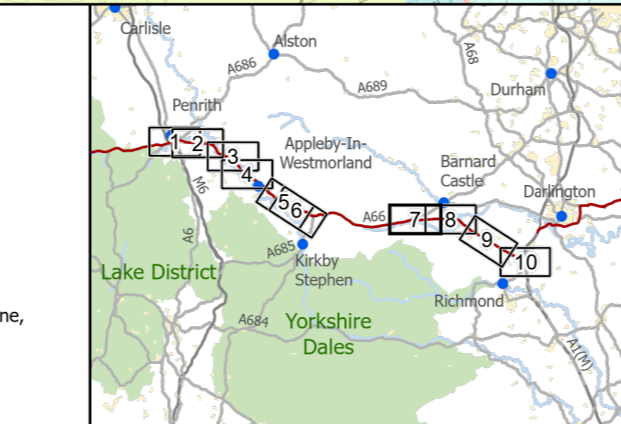
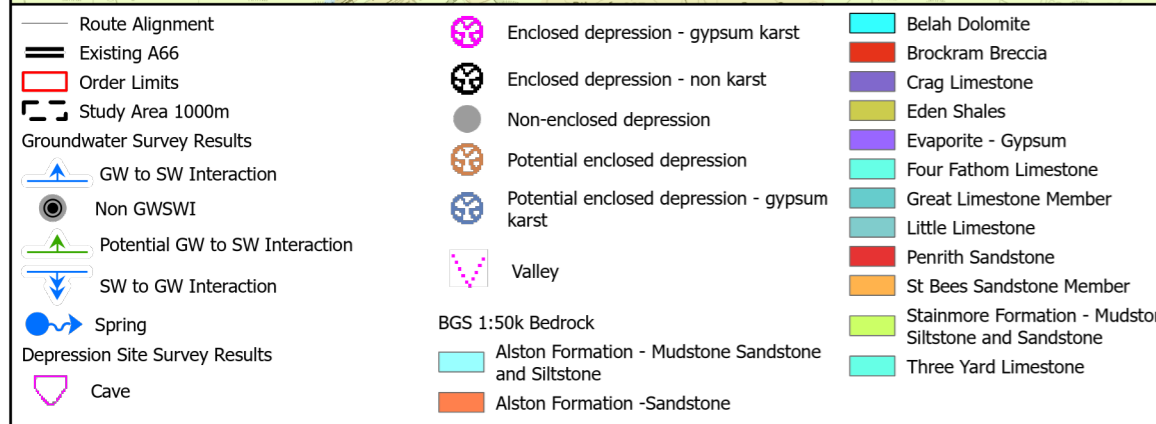
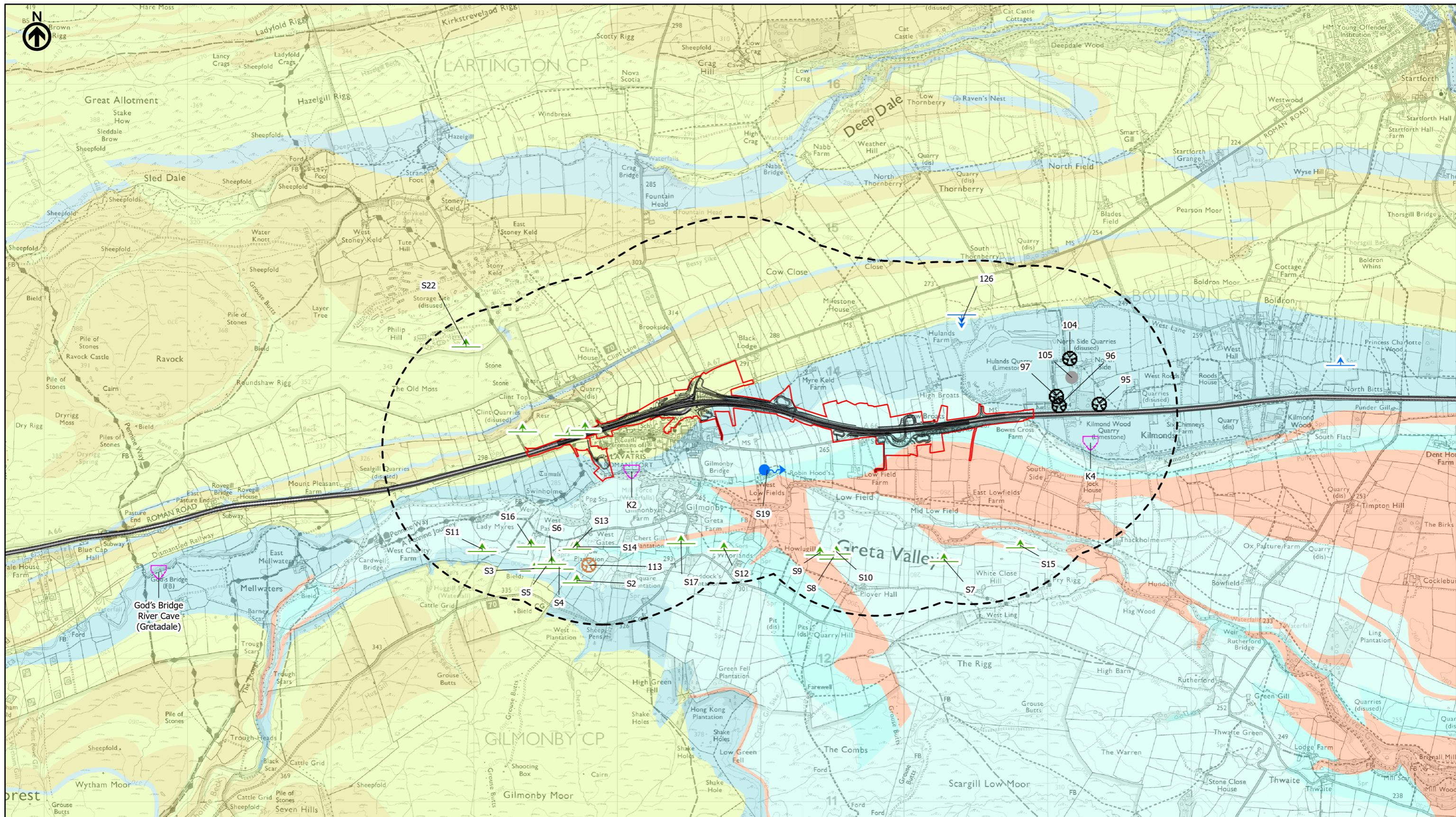
**Karst Survey Results**

Scheme: 06, Appleby to Brough  
Sheet 6 of 10

Map Number	Project	Originator	Volume
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S00	-	MP - LD	- 011275
Location		Type	Role   Number

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02





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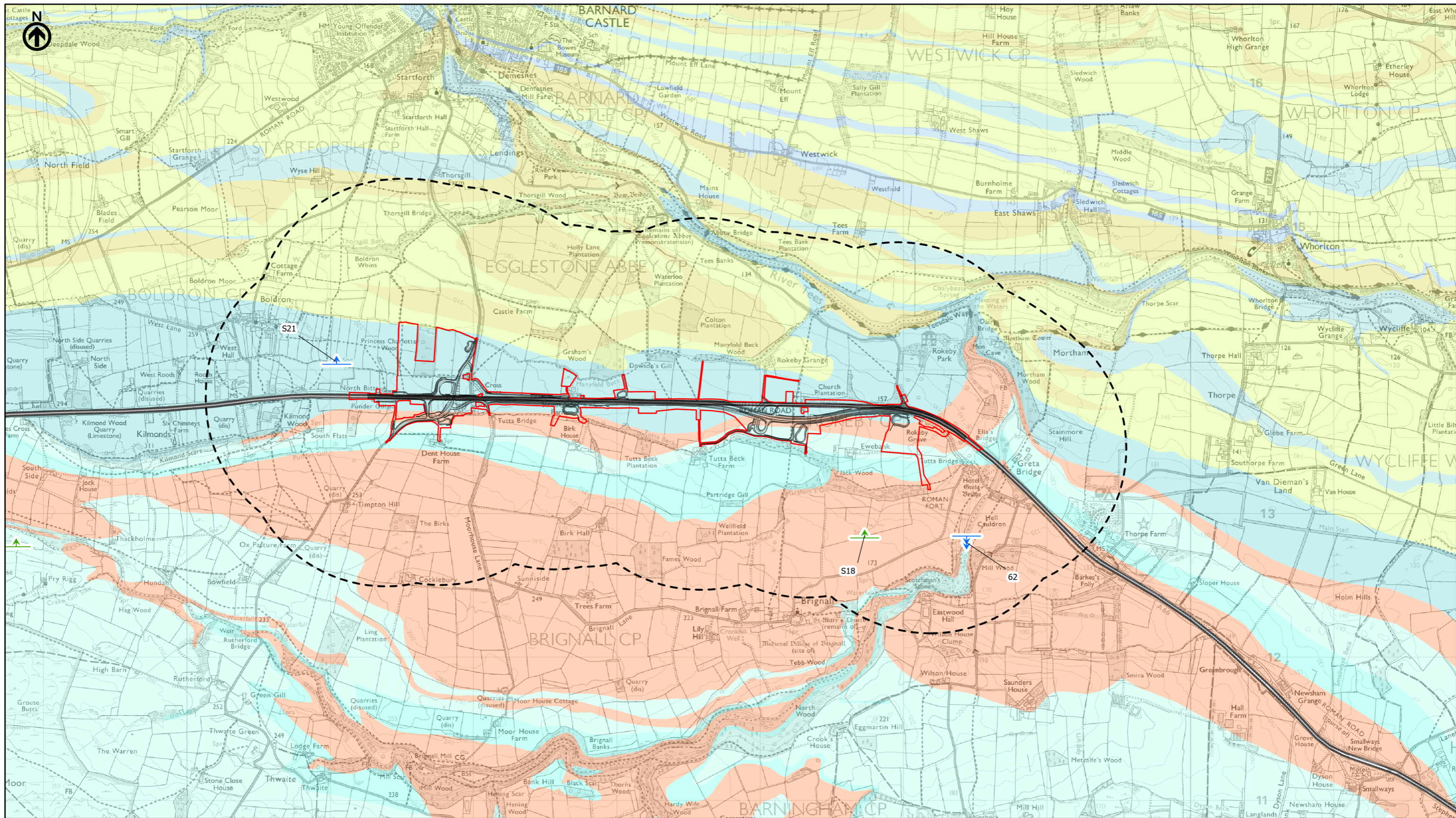
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	29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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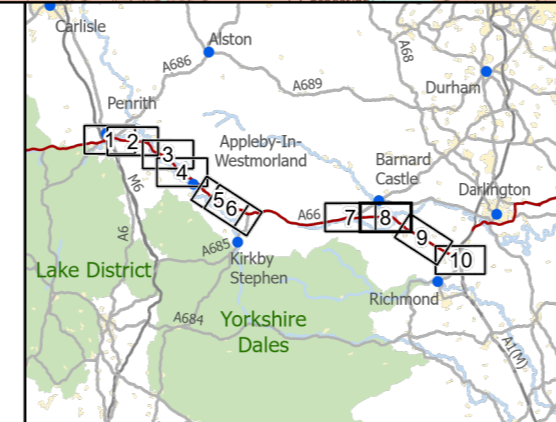
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Map Title <b>Figure 14.8.3</b>			
Karst Survey Results <b>Scheme: 07, Bowes Bypass</b>			
Sheet 7 of 10			
Map Number Project	Originator	Volume	
HE565627	AMY	EWE	
S00	-	MP - LD - 011276	
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

This Environmental Statement Figure meets the requirements of Regulation 5(2)(1)(iii) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure Regulations) 2009.





<ul style="list-style-type: none"> <li>— Route Alignment</li> <li>== Existing A66</li> <li>▭ Order Limits</li> <li>▭ Study Area 1000m</li> <li>Groundwater Survey Results</li> <li>▲ GW to SW Interaction</li> <li>● Non GWSWI</li> <li>▲ Potential GW to SW Interaction</li> <li>▼ SW to GW Interaction</li> <li>● Spring</li> <li>Depression Site Survey Results</li> <li>▽ Cave</li> </ul>	<ul style="list-style-type: none"> <li>⊗ Enclosed depression - gypsum karst</li> <li>⊗ Enclosed depression - non karst</li> <li>● Non-enclosed depression</li> <li>⊗ Potential enclosed depression</li> <li>⊗ Potential enclosed depression - gypsum karst</li> <li>▽ Valley</li> <li>BGS 1:50k Bedrock</li> <li>Alston Formation - Mudstone Sandstone and Siltstone</li> <li>Alston Formation - Sandstone</li> </ul>	<ul style="list-style-type: none"> <li>Belah Dolomite</li> <li>Brockram Breccia</li> <li>Crag Limestone</li> <li>Eden Shales</li> <li>Evaporite - Gypsum</li> <li>Four Fathom Limestone</li> <li>Great Limestone Member</li> <li>Little Limestone</li> <li>Penrith Sandstone</li> <li>St Bees Sandstone Member</li> <li>Stainmore Formation - Mudstone, Siltstone and Sandstone</li> <li>Three Yard Limestone</li> </ul>
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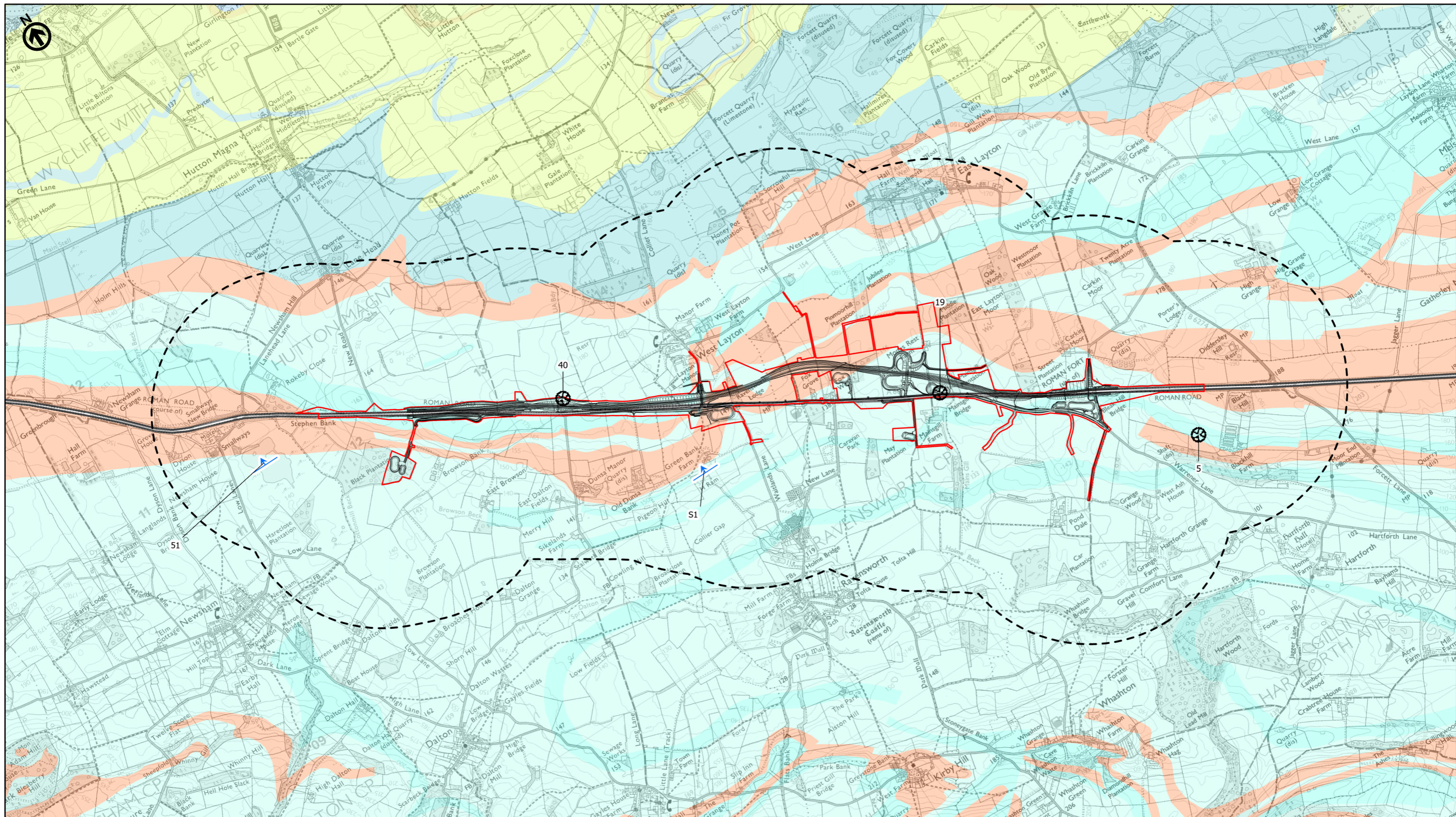
P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
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Revision	Created	Checked	Reviewed	Approved	Authorised	

0 1 2 Kilometres

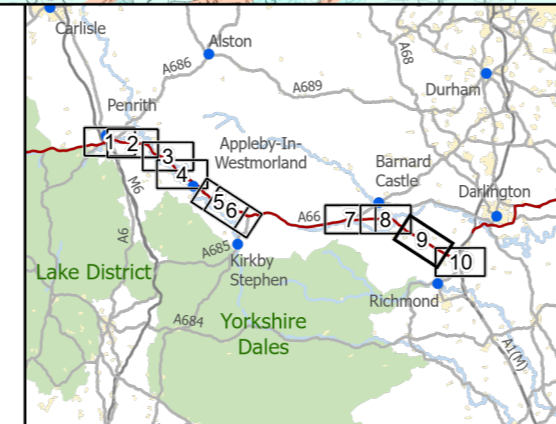
Scale @ A3: 1:25,000 | Project Ref No HE565627 | Stage: Stage 3  
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title <b>Figure 14.8.3</b>			
Karst Survey Results			
Scheme: 08, Cross Lanes to Rokeby			
Sheet 8 of 10			
Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	- 011277
Location		Type	Role
Suitability	Suitability Description		Revision
S4	FIT FOR STAGE APPROVAL		P02





<ul style="list-style-type: none"> <li>— Route Alignment</li> <li>— Existing A66</li> <li>— Order Limits</li> <li>— Study Area 1000m</li> <li>Groundwater Survey Results</li> <li>▲ GW to SW Interaction</li> <li>● Non GWSWI</li> <li>▲ Potential GW to SW Interaction</li> <li>▼ SW to GW Interaction</li> <li>● Spring</li> <li>Depression Site Survey Results</li> <li>○ Cave</li> </ul>	<ul style="list-style-type: none"> <li>⊗ Enclosed depression - gypsum karst</li> <li>⊗ Enclosed depression - non karst</li> <li>● Non-enclosed depression</li> <li>⊗ Potential enclosed depression</li> <li>⊗ Potential enclosed depression - gypsum karst</li> <li>▽ Valley</li> <li>BGS 1:50k Bedrock</li> <li>Alston Formation - Mudstone Sandstone and Siltstone</li> <li>Alston Formation - Sandstone</li> </ul>	<ul style="list-style-type: none"> <li>Belah Dolomite</li> <li>Brockram Breccia</li> <li>Crag Limestone</li> <li>Eden Shales</li> <li>Evaporite - Gypsum</li> <li>Four Fathom Limestone</li> <li>Great Limestone Member</li> <li>Little Limestone</li> <li>Penrith Sandstone</li> <li>St Bees Sandstone Member</li> <li>Stainmore Formation - Mudstone, Siltstone and Sandstone</li> <li>Three Yard Limestone</li> </ul>
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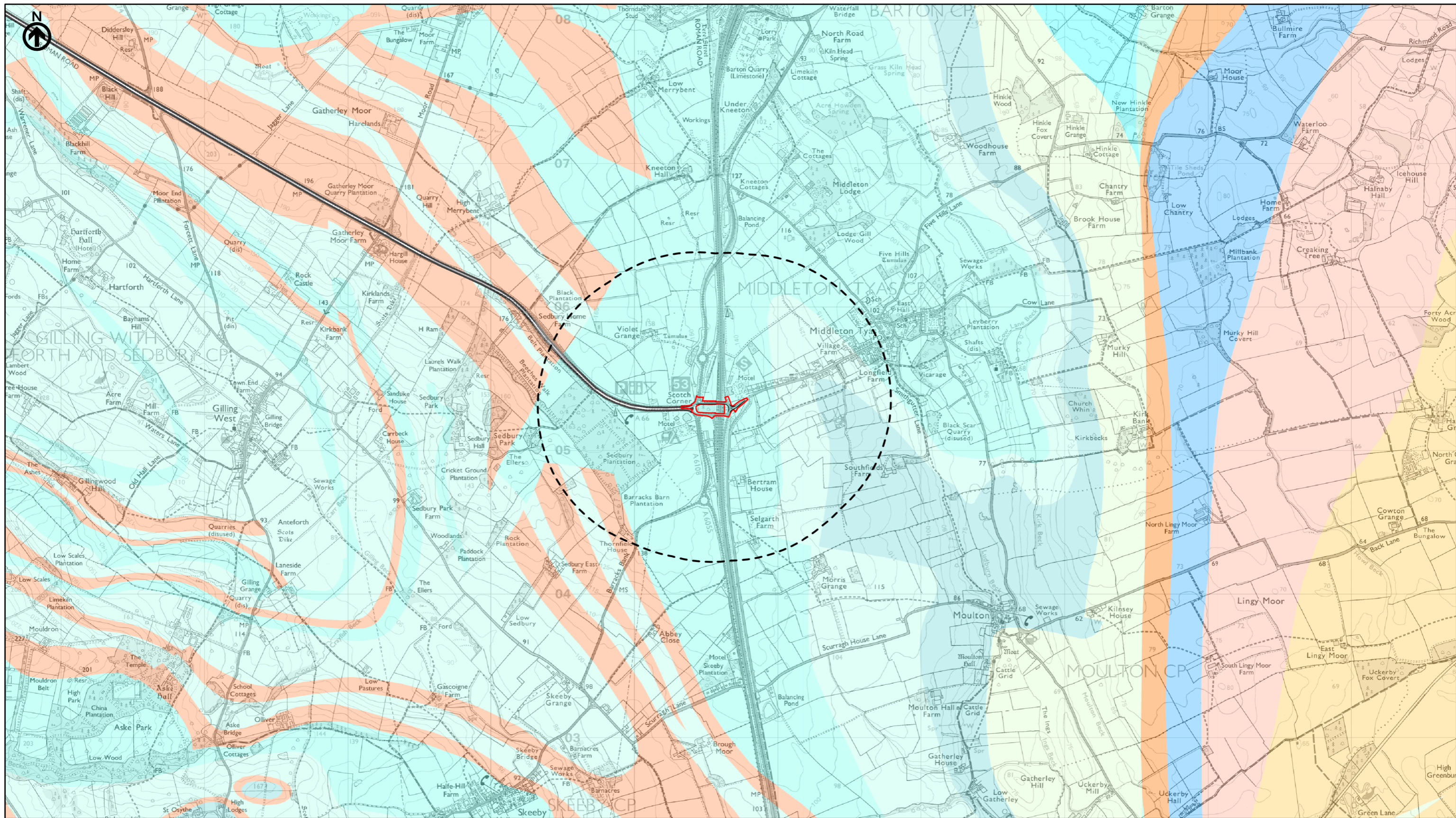
P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
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Revision	Created	Checked	Reviewed	Approved	Authorised	

0 1 2 Kilometres

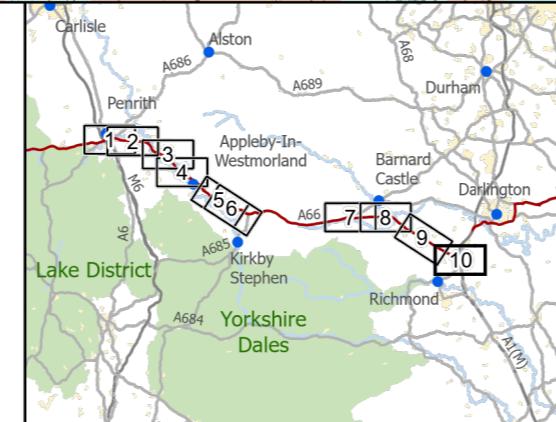
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title <b>Figure 14.8.3</b>			
Karst Survey Results			
Scheme: 09, Stephen Bank to Carkin Moor			
Sheet 9 of 10			
Map Number Project	Originator	Volume	
HE565627	AMY	EWE	
S00	-	MP - LD -	011278
Location	Type	Role	Number
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL	Revision P02	





<ul style="list-style-type: none"> <li>— Route Alignment</li> <li>== Existing A66</li> <li>▭ Order Limits</li> <li>▭ Study Area 1000m</li> <li>Groundwater Survey Results</li> <li>▲ GW to SW Interaction</li> <li>● Non GWSWI</li> <li>▲ Potential GW to SW Interaction</li> <li>▼ SW to GW Interaction</li> <li>● Spring</li> <li>Depression Site Survey Results</li> <li>▽ Cave</li> </ul>	<ul style="list-style-type: none"> <li>⊗ Enclosed depression - gypsum karst</li> <li>⊗ Enclosed depression - non karst</li> <li>● Non-enclosed depression</li> <li>⊗ Potential enclosed depression</li> <li>⊗ Potential enclosed depression - gypsum karst</li> <li>▽ Valley</li> <li>BGS 1:50k Bedrock</li> <li>Alston Formation - Mudstone Sandstone and Siltstone</li> <li>Alston Formation - Sandstone</li> </ul>	<ul style="list-style-type: none"> <li>Belah Dolomite</li> <li>Brockram Breccia</li> <li>Crag Limestone</li> <li>Eden Shales</li> <li>Evaporite - Gypsum</li> <li>Four Fathom Limestone</li> <li>Great Limestone Member</li> <li>Little Limestone</li> <li>Penrith Sandstone</li> <li>St Bees Sandstone Member</li> <li>Stainmore Formation - Mudstone, Siltstone and Sandstone</li> <li>Three Yard Limestone</li> </ul>
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P02	First Issue				
	CESL	LHAN	MBRE	AMIT	KWHA
	29/03/22	29/03/22	29/03/22	26/04/22	26/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

Scale @ A3: 1:25,000 | Project Ref No HE565627 | Stage: Stage 3

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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title <b>Figure 14.8.3</b>			
Karst Survey Results <b>Scheme: 11, A1(M) Junction 53 Scotch Corner</b>			
Sheet 10 of 10			
Map Number Project	Originator	Volume	
HE565627	AMY	EWE	
S00	-	MP - LD - 011279	
Location	Type	Role	Number
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL	Revision P02	