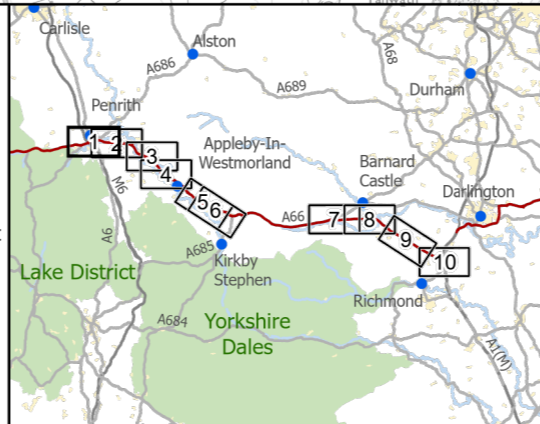


— Route Alignment
 = Existing A66
 [Red Outline] Order Limits
 [Dashed Box] Study Area 1000m

Hydrogeological Features
 [Blue Arrow] GW to SW interaction
 [Black Circle] Non GWSWI
 [Green Arrow] Potential GW to SW interaction
 [Blue Arrow] SW to GW interaction; Watercourse
 [Blue Circle] Spring
 [Yellow Drop] Durham County Council Private Groundwater Abstraction License
 [Orange Drop] Private Water Abstraction
 [Blue Square] Discharge Consents
 [Red Circle] EA Abstraction Licences

[Pink Triangle] Cave
 [Purple Star] Enclosed depression - gypsum karst
 [Black Star] Enclosed depression - non karst
 [Grey Star] Non-enclosed depression
 [Brown Star] Potential enclosed depression
 [Blue Star] Potential enclosed depression - gypsum karst
 [Purple Triangle] Valley
 [Red Box] Source Protection Zone 1
 [Green Box] Source Protection Zone 2
 [Blue Box] Source Protection Zone 3



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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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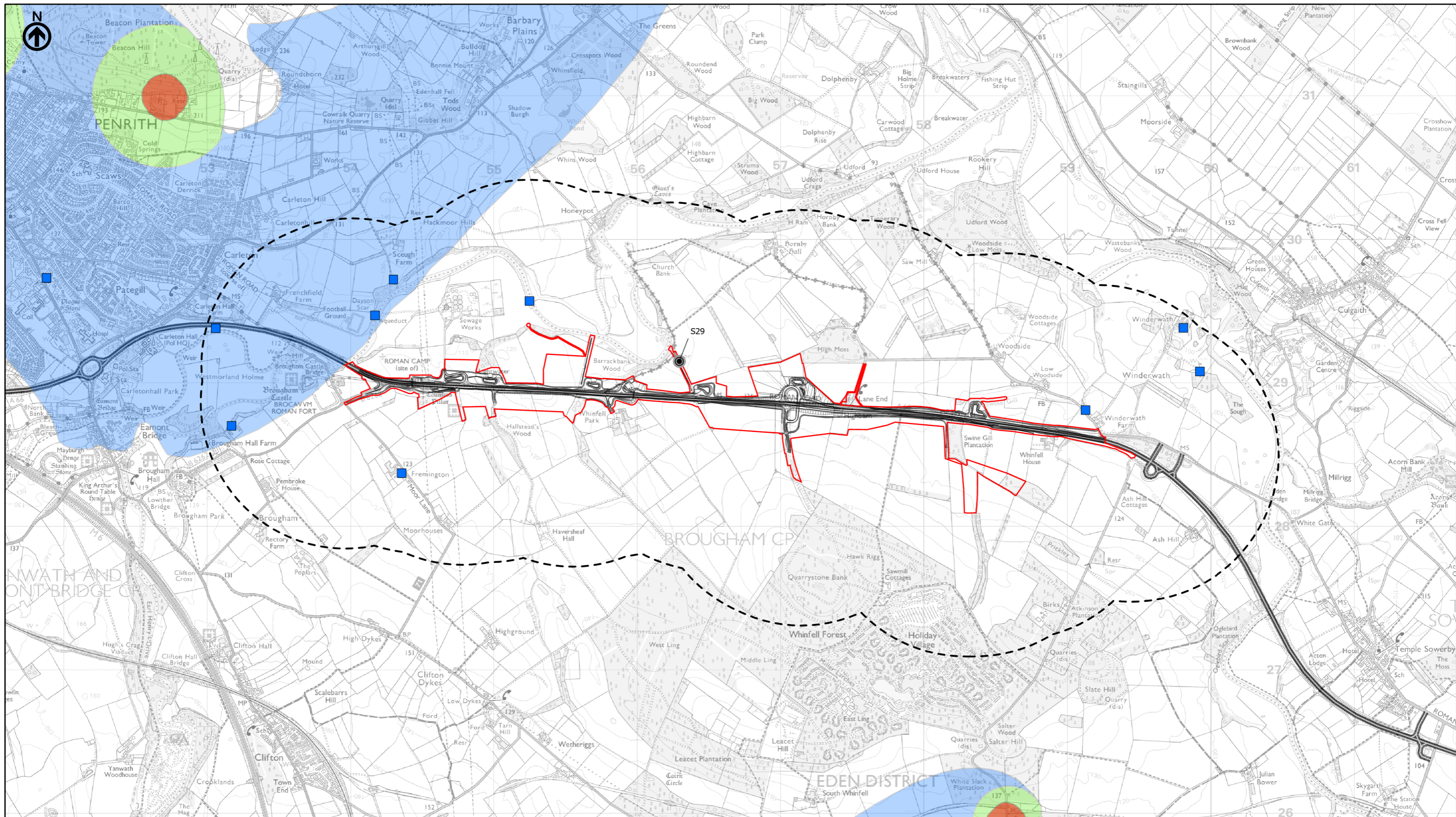
Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 14.6

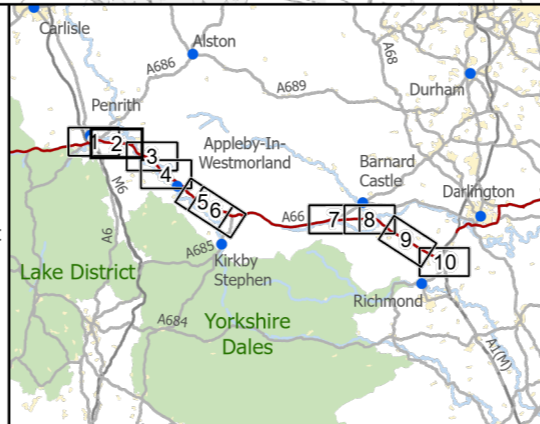
Hydrogeological Study Areas and Features
 Scheme: 0102, M6 Junction 40 to Kemplay Bank
 Sheet 1 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EWE
S00	-	MP - LD	- 011170
Location		Type	Role

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> Route Alignment Existing A66 Order Limits Study Area 1000m 	<p>Hydrogeological Features</p> <ul style="list-style-type: none"> GW to SW interaction Non GWSWI Potential GW to SW interaction SW to GW interaction; Watercourse Spring Durham County Council Private Groundwater Abstraction License Private Water Abstraction Discharge Consents EA Abstraction Licences 	<ul style="list-style-type: none"> Cave Enclosed depression - gypsum karst Enclosed depression - non karst Non-enclosed depression Potential enclosed depression Potential enclosed depression - gypsum karst Valley Source Protection Zone 1 Source Protection Zone 2 Source Protection Zone 3
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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

Kilometres

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Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 14.6

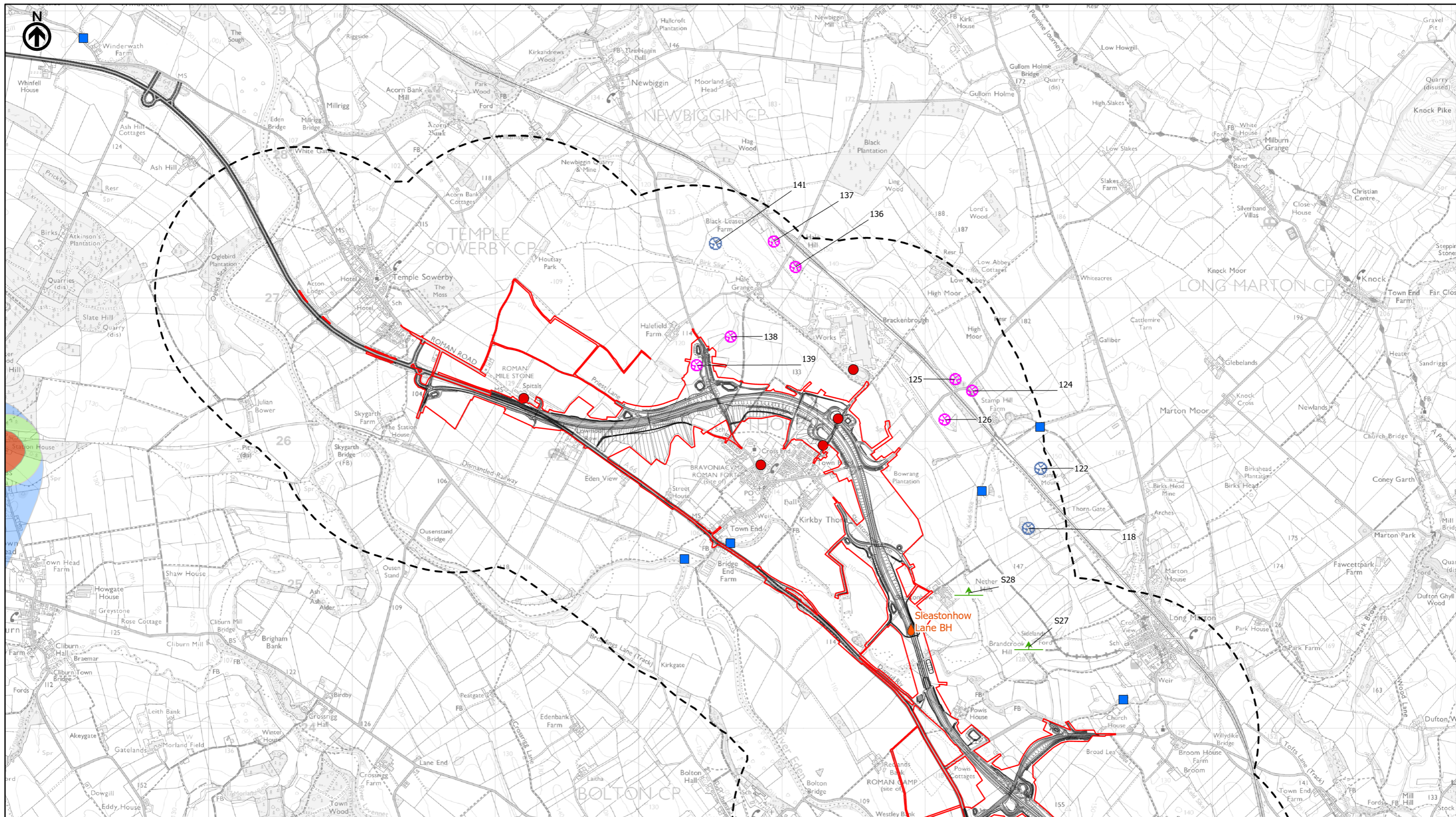
Hydrogeological Study Areas and Features

Scheme: 03, Penrith to Temple Sowerby

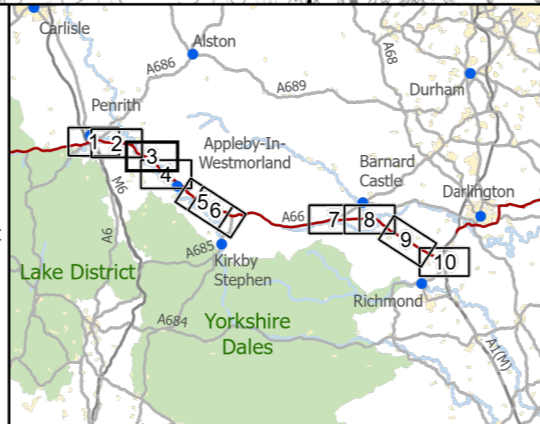
Sheet 2 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EWE
S00	-	MP - LD	- 011171
Location		Type	Role

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> Route Alignment Existing A66 Order Limits Study Area 1000m 	<p>Hydrogeological Features</p> <ul style="list-style-type: none"> GW to SW interaction Non GWSWI Potential GW to SW interaction SW to GW interaction; Watercourse Spring Durham County Council Private Groundwater Abstraction License Private Water Abstraction Discharge Consents EA Abstraction Licences 	<ul style="list-style-type: none"> Cave Enclosed depression - gypsum karst Enclosed depression - non karst Potential enclosed depression Potential enclosed depression - gypsum karst Valley Source Protection Zone 1 Source Protection Zone 2 Source Protection Zone 3
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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

0 1 2 Kilometres

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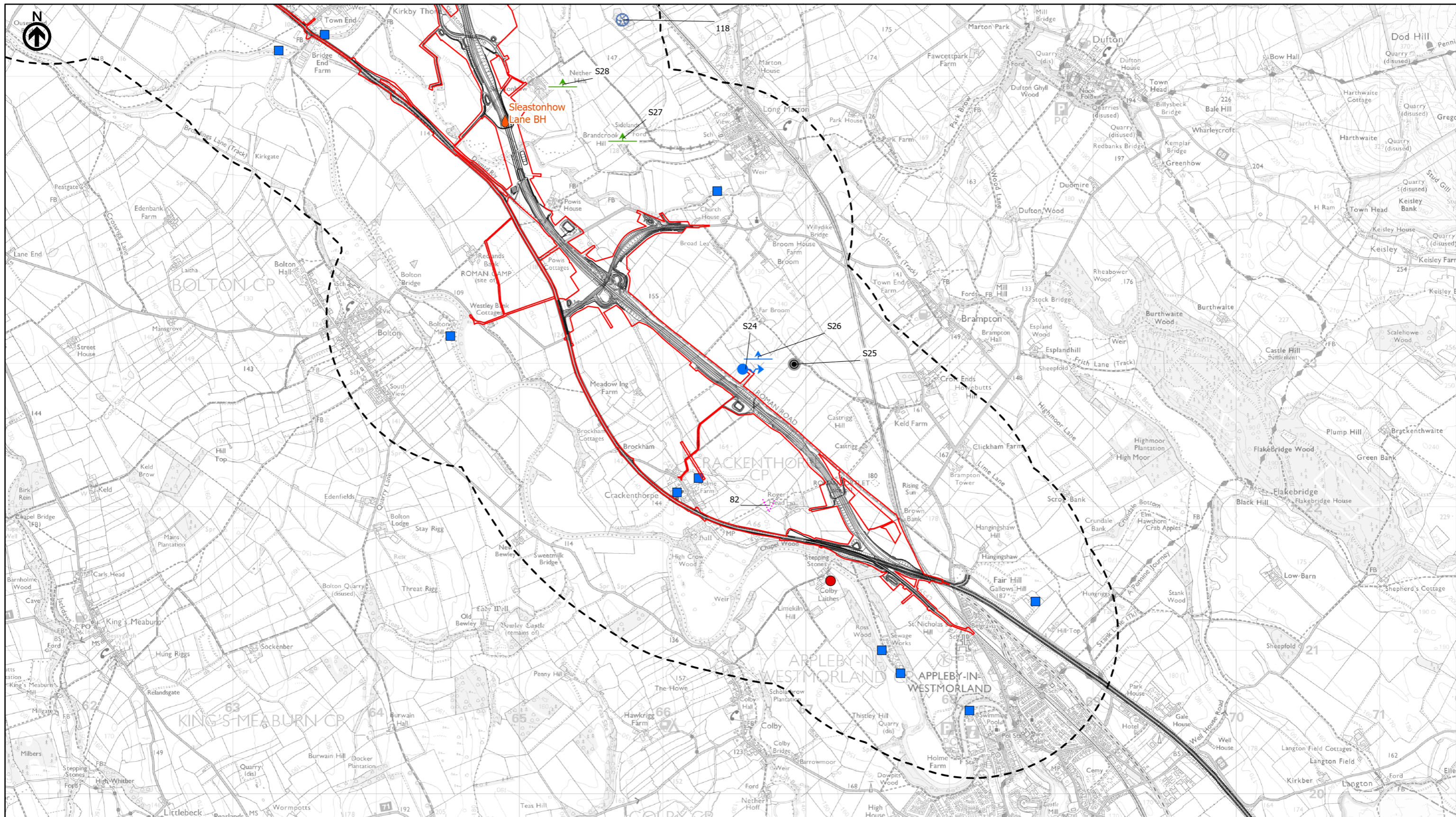
Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 14.6

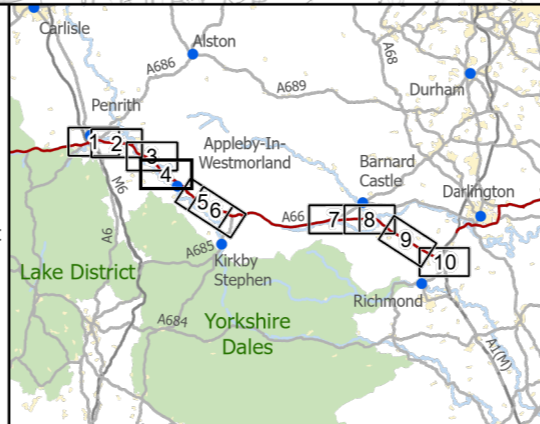
Hydrogeological Study Areas and Features
Scheme: 0405, Temple Sowerby to Appleby
Sheet 3 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EWE
S00	-	MP	- LD - 011172
Location		Type	Role Number

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> Route Alignment Existing A66 Order Limits Study Area 1000m 	<p>Hydrogeological Features</p> <ul style="list-style-type: none"> GW to SW interaction Non GWSWI Potential GW to SW interaction SW to GW interaction; Watercourse Spring Durham County Council Private Groundwater Abstraction License Private Water Abstraction Discharge Consents EA Abstraction Licences 	<ul style="list-style-type: none"> Cave Enclosed depression - gypsum karst Enclosed depression - non karst Non-enclosed depression Potential enclosed depression Potential enclosed depression - gypsum karst Valley Source Protection Zone 1 Source Protection Zone 2 Source Protection Zone 3
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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

Kilometres

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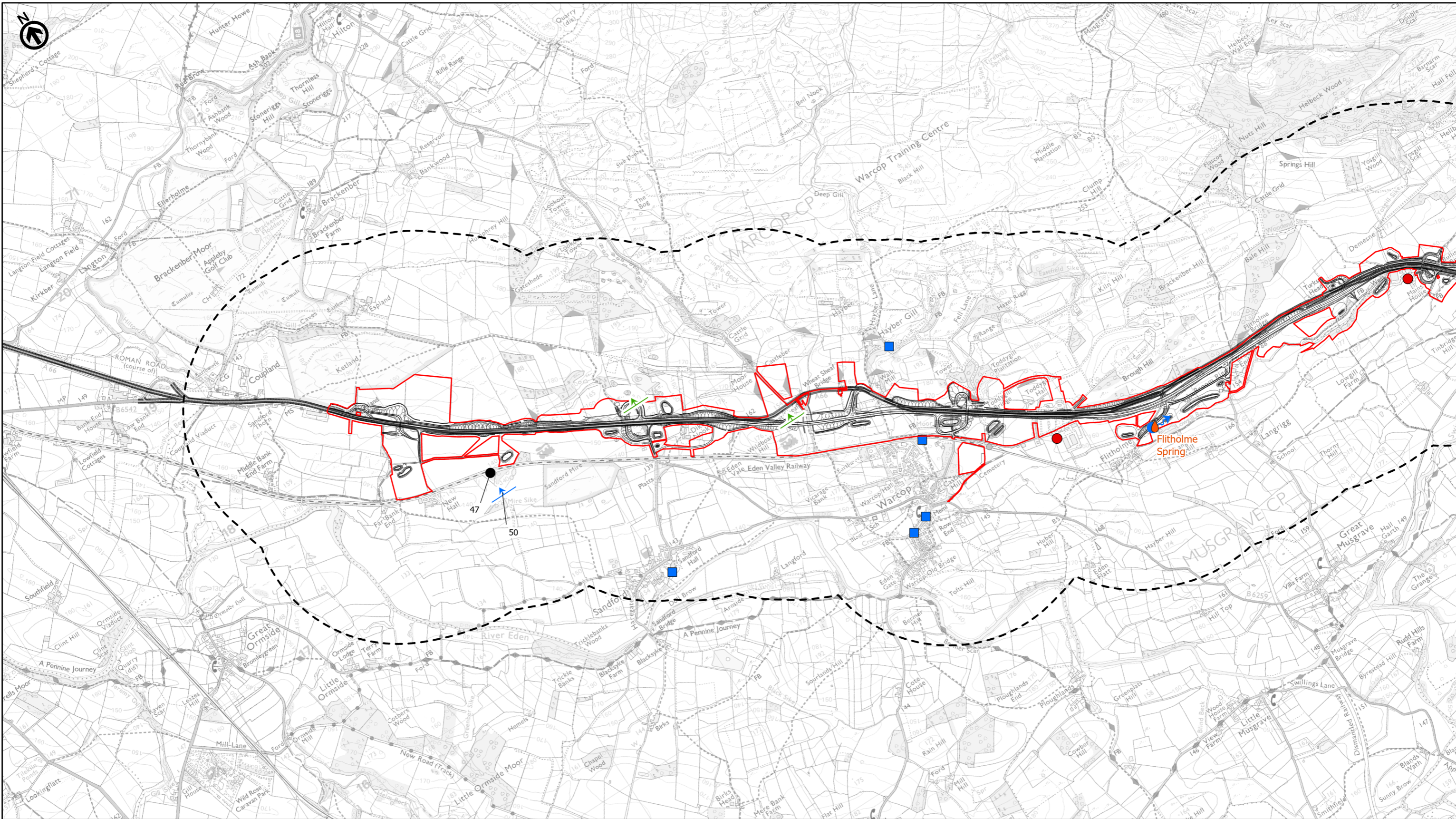
Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 14.6

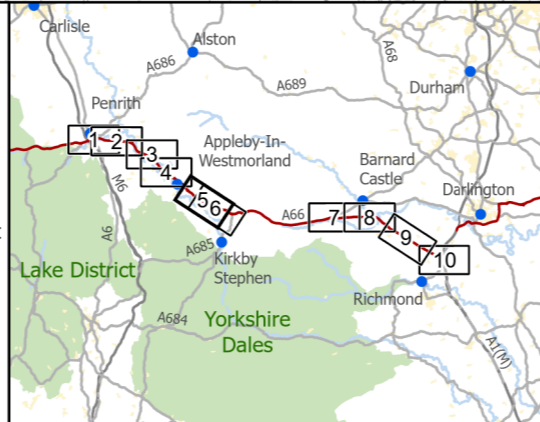
Hydrogeological Study Areas and Features
Scheme: 0405, Temple Sowerby to Appley
Sheet 4 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EWE
S00	-	MP - LD	- 011173
Location		Type	Role

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> Route Alignment Existing A66 Order Limits Study Area 1000m 	<p>Hydrogeological Features</p> <ul style="list-style-type: none"> GW to SW interaction Non GWSWI Potential GW to SW interaction SW to GW interaction; Watercourse Spring Durham County Council Private Groundwater Abstraction License Private Water Abstraction Discharge Consents EA Abstraction Licences 	<ul style="list-style-type: none"> Cave Enclosed depression - gypsum karst Enclosed depression - non karst Non-enclosed depression Potential enclosed depression Potential enclosed depression - gypsum karst Valley Source Protection Zone 1 Source Protection Zone 2 Source Protection Zone 3
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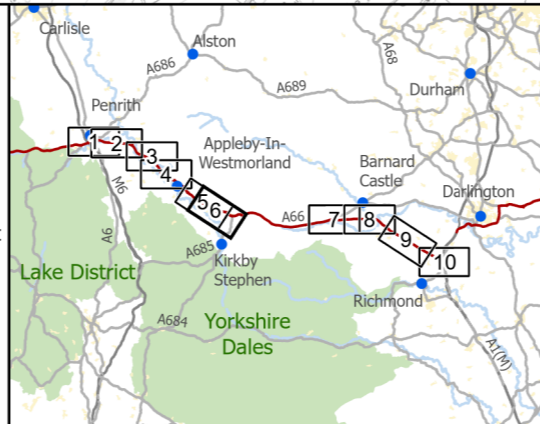
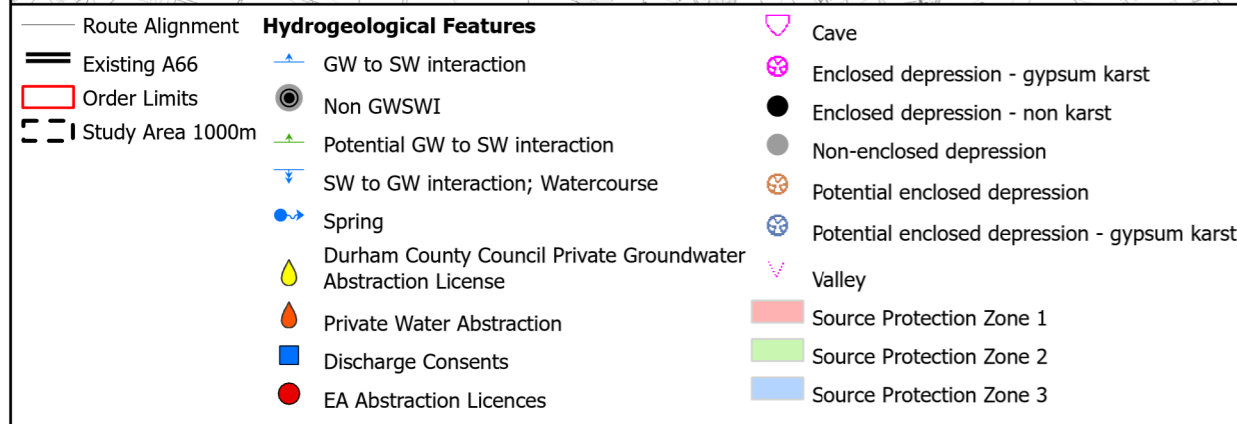
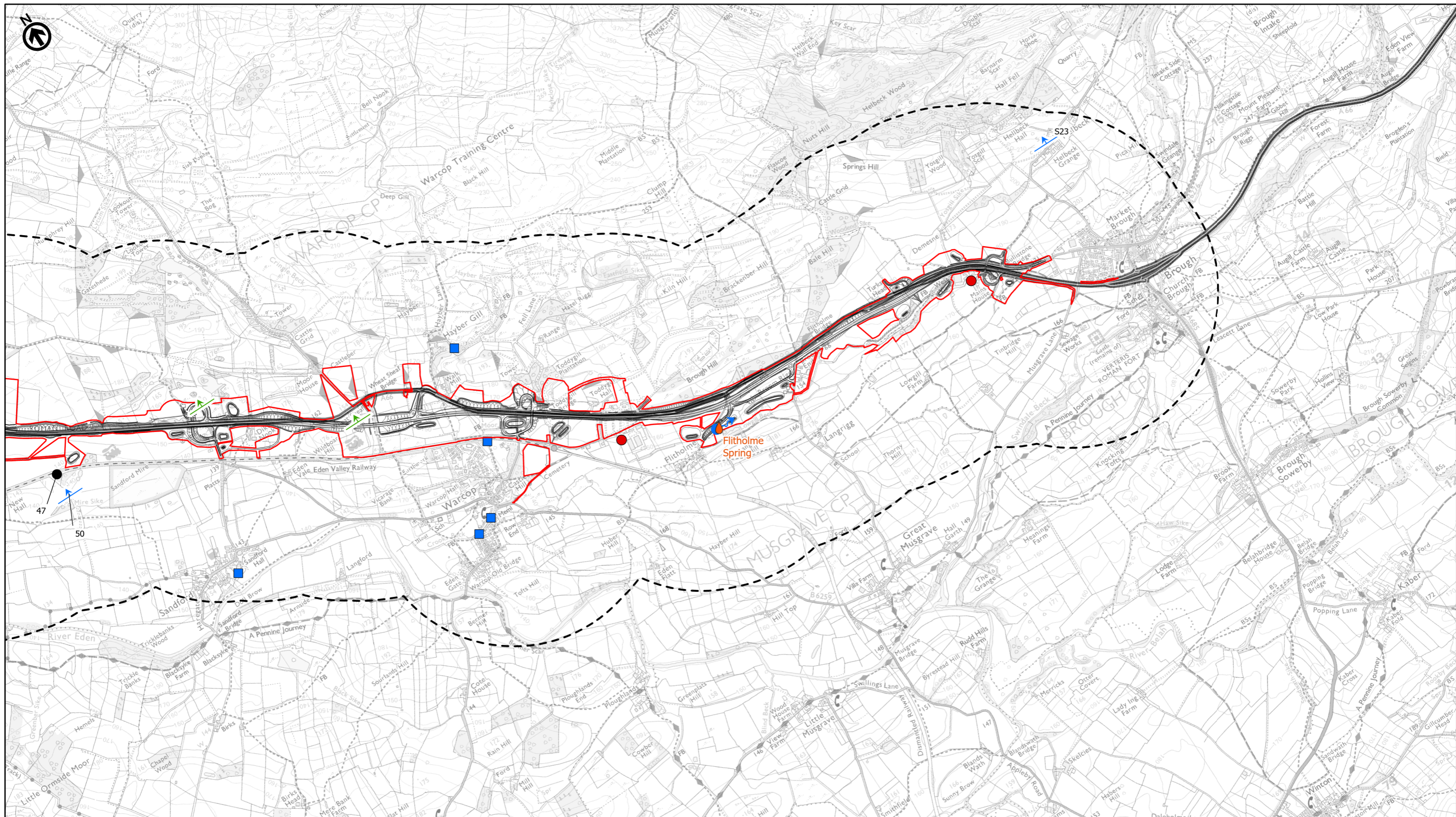
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P03	Second Issue: Revised Order Limits				
	CESL	PKEL	BWIL	AMIT	KWHA
	19/04/23	19/04/23	19/04/23	16/05/23	16/05/23
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 14.6			
Hydrogeological Study Areas and Features			
Scheme: 06, Appley to Brough			
Sheet 5 of 10			
Map Number Project	Originator	Volume	
HE565627	AMY	EWE	
S00	MP	LD	011174
Location	Type	Role	Number
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL		Revision P03

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



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P03	Second Issue: Revised Order Limits				
	CESL	PKEL	BWIL	AMIT	KWHA
	19/04/23	19/04/23	19/04/23	16/05/23	16/05/23
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 14.6

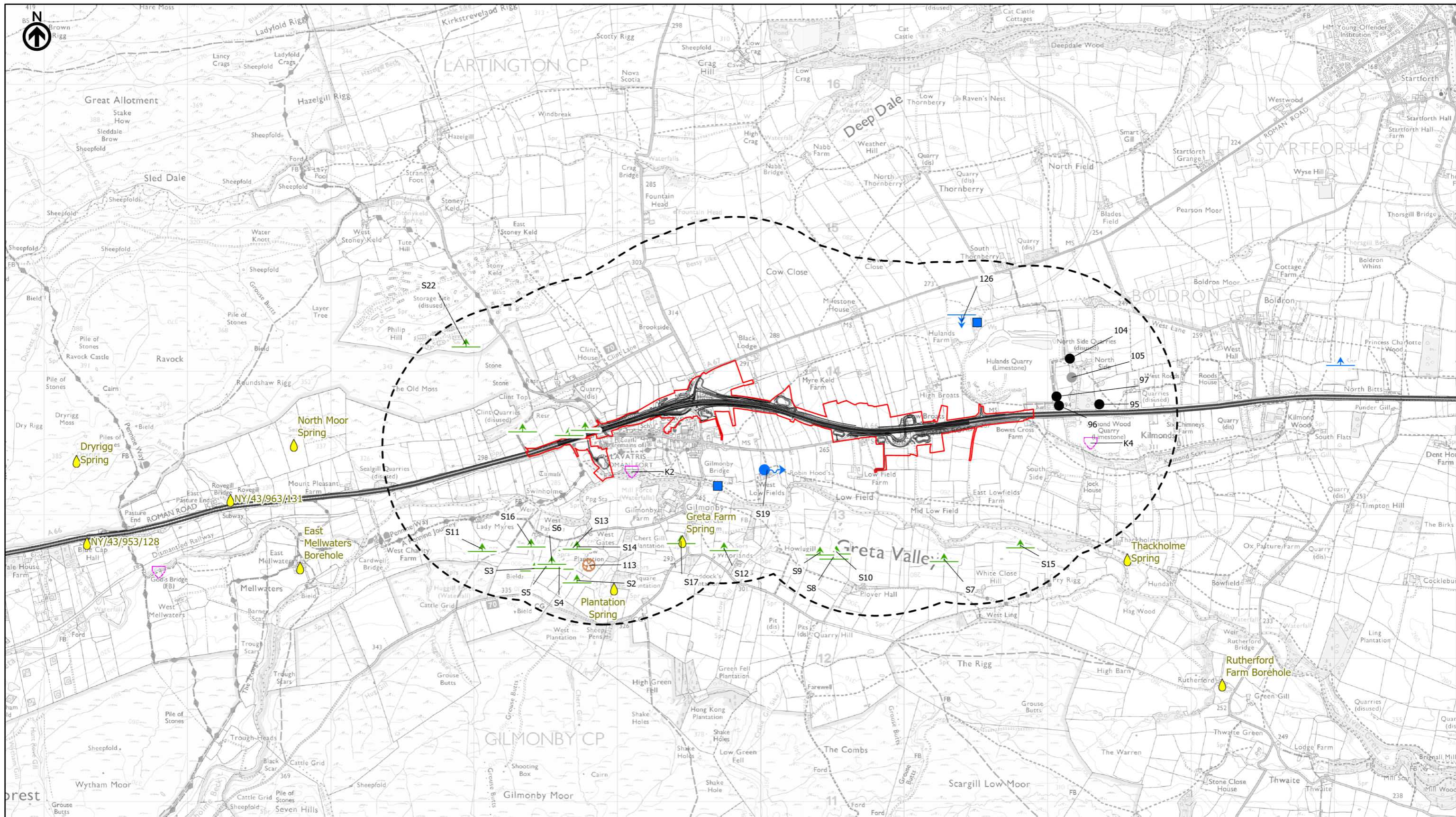
Hydrogeological Study Areas and Features

Scheme: 06, Appleby to Brough

Sheet 6 of 10

Map Number	Project	Originator	Volume
HE565627	S00	AMY	EWE
Location	Type	Role	Number
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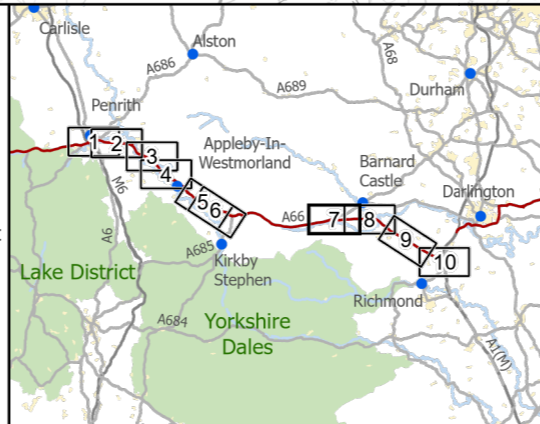
Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P03



— Route Alignment
 — Existing A66
 — Order Limits
 — Study Area 1000m

Hydrogeological Features
 — GW to SW interaction
 — Non GWSWI
 — Potential GW to SW interaction
 — SW to GW interaction; Watercourse
 — Spring
 — Durham County Council Private Groundwater Abstraction License
 — Private Water Abstraction
 — Discharge Consents
 — EA Abstraction Licences

— Cave
 — Enclosed depression - gypsum karst
 — Enclosed depression - non karst
 — Non-enclosed depression
 — Potential enclosed depression
 — Potential enclosed depression - gypsum karst
 — Valley
 — Source Protection Zone 1
 — Source Protection Zone 2
 — Source Protection Zone 3



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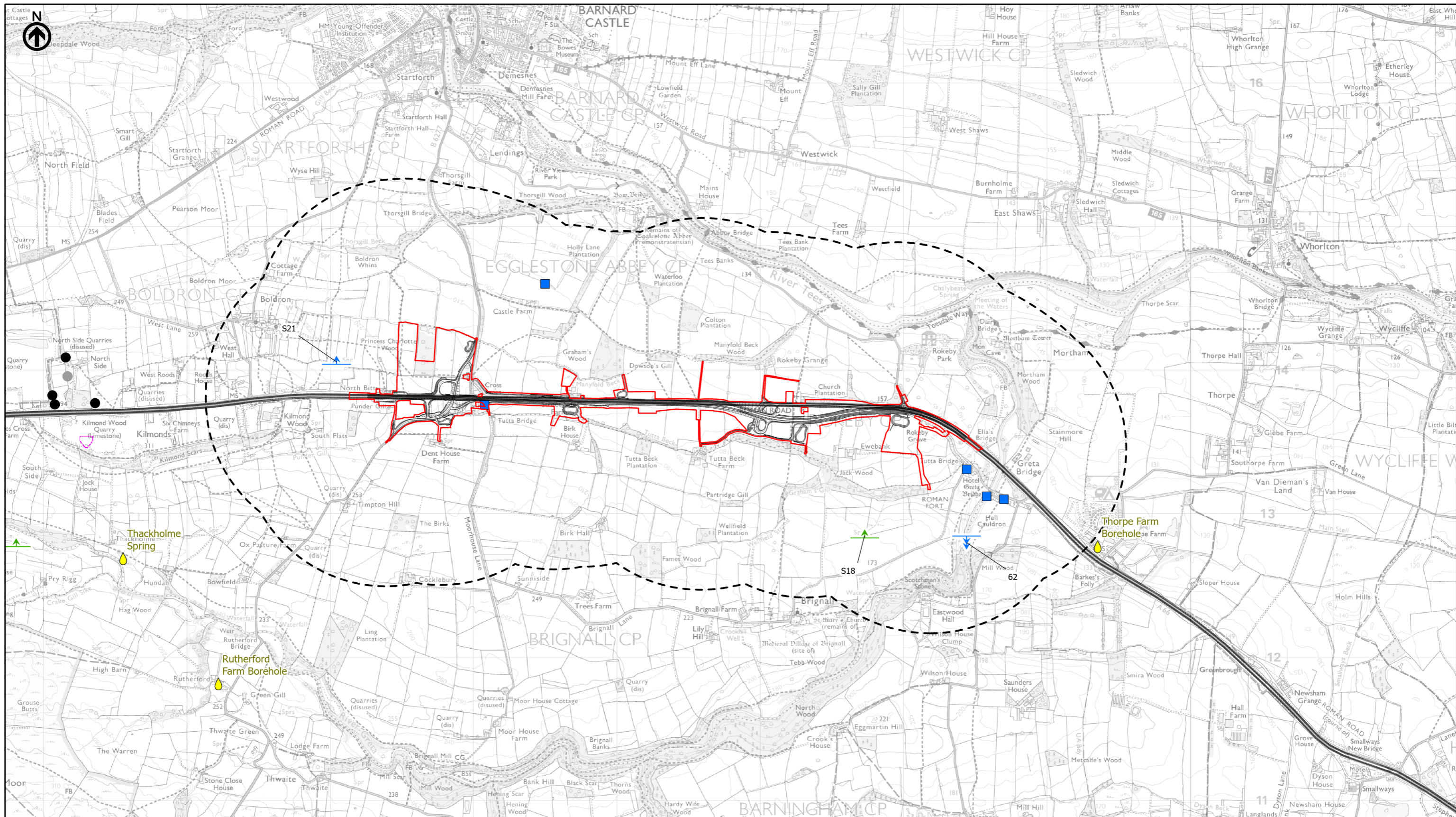
P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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Project Name
A66 Northern Trans-Pennine Project
 Map Title
Figure 14.6
Hydrogeological Study Areas and Features
 Scheme: 07, Bowes Bypass
 Sheet 7 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	011176
Location		Type	Role

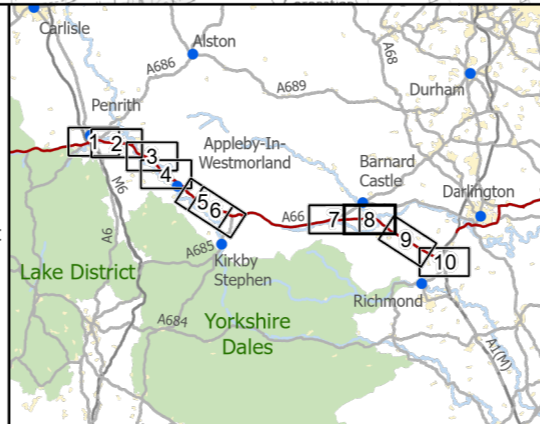
Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



— Route Alignment
 — Existing A66
 [Red Outline] Order Limits
 [Dashed Box] Study Area 1000m

Hydrogeological Features
 [Blue Arrow] GW to SW interaction
 [Black Circle] Non GWSWI
 [Green Arrow] Potential GW to SW interaction
 [Blue Arrow] SW to GW interaction; Watercourse
 [Blue Circle] Spring
 [Yellow Drop] Durham County Council Private Groundwater Abstraction License
 [Orange Drop] Private Water Abstraction
 [Blue Square] Discharge Consents
 [Red Circle] EA Abstraction Licences

[Purple Triangle] Cave
 [Purple Star] Enclosed depression - gypsum karst
 [Black Star] Enclosed depression - non karst
 [Grey Star] Non-enclosed depression
 [Orange Star] Potential enclosed depression
 [Blue Star] Potential enclosed depression - gypsum karst
 [Purple Triangle] Valley
 [Red Box] Source Protection Zone 1
 [Green Box] Source Protection Zone 2
 [Blue Box] Source Protection Zone 3



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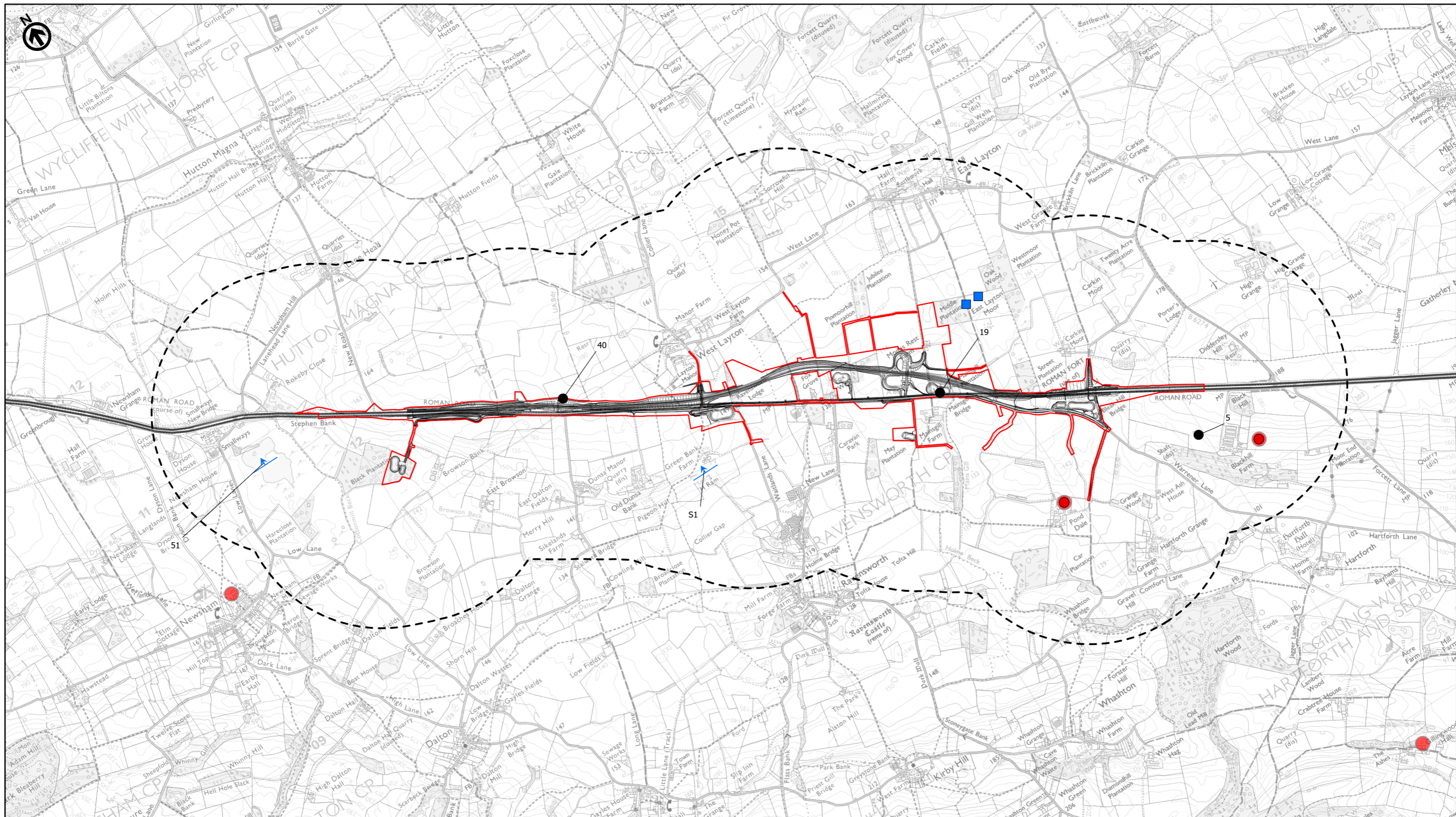
P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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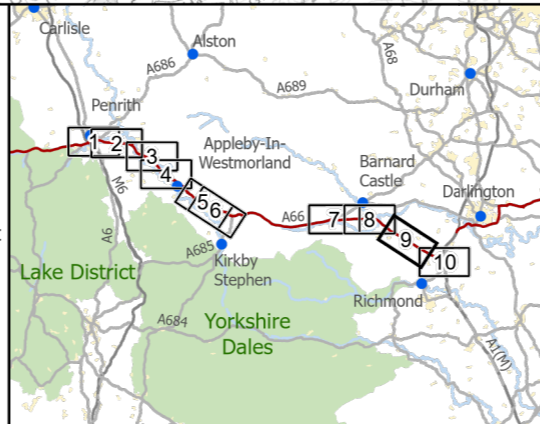
Project Name
A66 Northern Trans-Pennine Project
 Map Title
Figure 14.6
Hydrogeological Study Areas and Features
 Scheme: 08, Cross Lanes to Rokeby
 Sheet 8 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	011177
Location		Type	Role

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> — Route Alignment — Existing A66 □ Order Limits ⊞ Study Area 1000m 	<p>Hydrogeological Features</p> <ul style="list-style-type: none"> ↔ GW to SW interaction ● Non GWSWI ↔ Potential GW to SW interaction ↔ SW to GW interaction; Watercourse ● Spring 🔥 Durham County Council Private Groundwater Abstraction License 🔥 Private Water Abstraction 🔥 Discharge Consents ● EA Abstraction Licences 	<ul style="list-style-type: none"> ⚠ Cave ⊗ Enclosed depression - gypsum karst ● Enclosed depression - non karst ● Non-enclosed depression ⊗ Potential enclosed depression ⊗ Potential enclosed depression - gypsum karst ⚠ Valley 🟠 Source Protection Zone 1 🟢 Source Protection Zone 2 🟡 Source Protection Zone 3
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P02	First Issue	CESL	LHAN	MBRE	AMIT	KWHA
		29/03/22	29/03/22	29/03/22	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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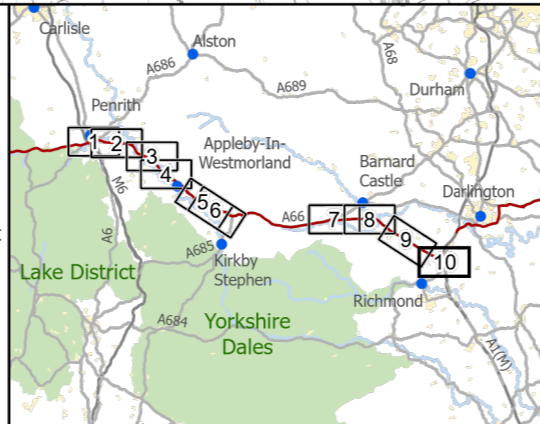
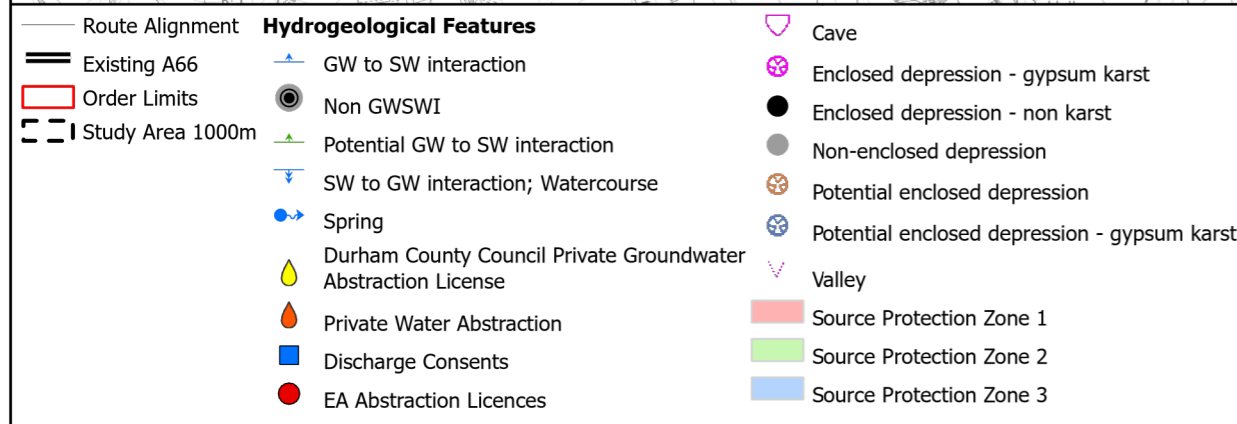
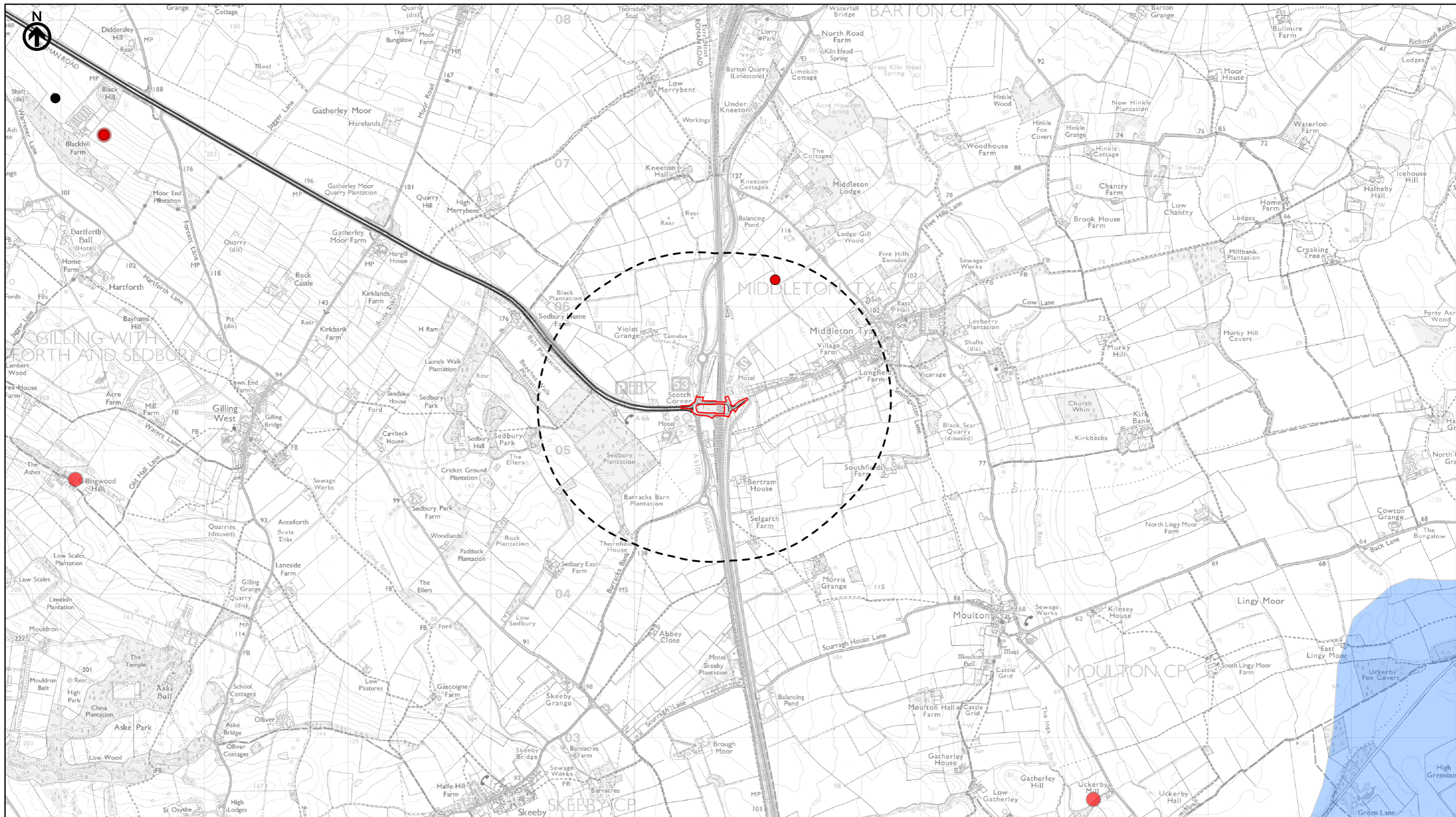
Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 14.6

Hydrogeological Study Areas and Features
Scheme: 09, Stephen Bank to Carkin Moor
Sheet 9 of 10

Map Number	Project	Originator	Volume
HE565627	-	AMY	EWE
S00	-	MP - LD	011178
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	20/04/22	20/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 14.6			
Hydrogeological Study Areas and Features			
Scheme: 11, A1(M) Junction 53 Scotch Corner			
Sheet 10 of 10			
Map Number	Project	Originator	Volume
HE565627	-	AMY	- EWE
S00	-	MP	- LD - 011179
Location		Type	Role
Suitability	Suitability Description		Revision
S4	FIT FOR STAGE APPROVAL		P02