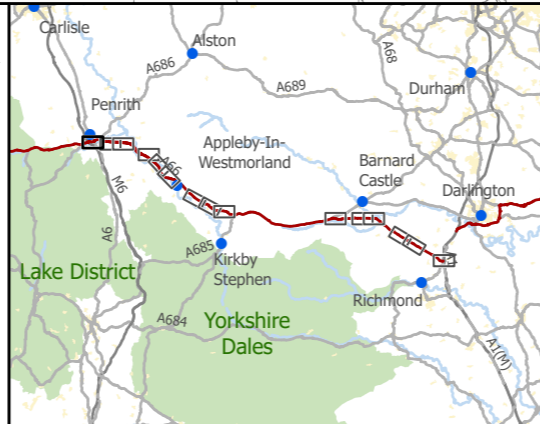


<ul style="list-style-type: none"> <li>— Route Alignment</li> <li>□ Order Limits</li> <li>— Named Watercourses (within 250m of Order Limits)</li> <li>● Fish Survey - eDNA</li> <li>● Fish Survey - Electric Fishing</li> <li>● River Condition (MoRPh) Survey</li> <li>⊙ Upstream Summary</li> <li>⊙ Downstream Summary</li> <li>⊙ Obstructions - Natural</li> <li>⊙ Obstructions - Culvert/Ford</li> <li>⊙ Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Obstructions - Weir</li> <li>● Exposed Substrate/Bars - Point</li> <li>● Macrophyte - Point Feature</li> <li>— Large Woody Debris (Natural)</li> <li>— Bank Erosion</li> <li>— Modified Channel (non-obstacle) or Banks</li> <li>— Invasive Species - Linear Feature</li> <li>⊙ Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>■ Chute/torrent/bedrock</li> <li>■ Fry</li> <li>■ Glide - shallow</li> <li>■ Glide - deep</li> <li>■ Lamprey (juvenile)</li> <li>■ Mixed juvenile</li> <li>■ Parr</li> <li>■ Pool - shallow</li> <li>■ Pool - deep</li> <li>■ Run</li> <li>■ Spawning</li> <li>■ No fish habitat</li> </ul>
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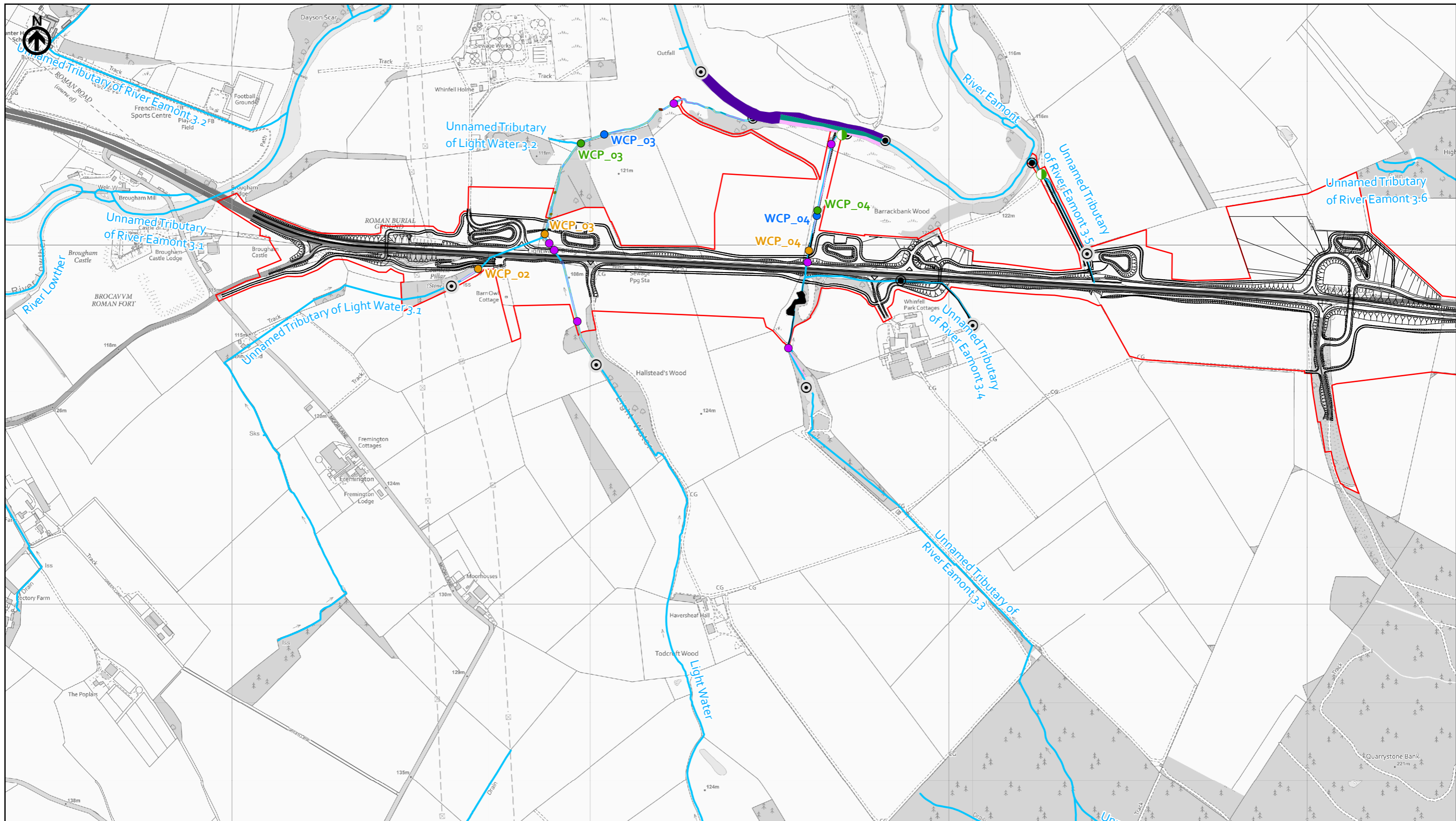
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		12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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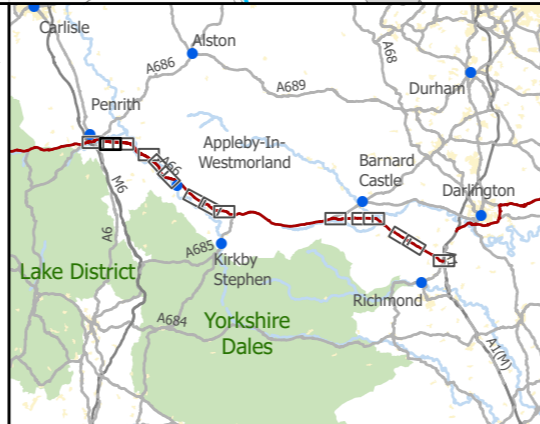
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 0102, M6 Junction 40 to Kemplay Bank Sheet 1 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00	MP	LB	003313
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02





<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

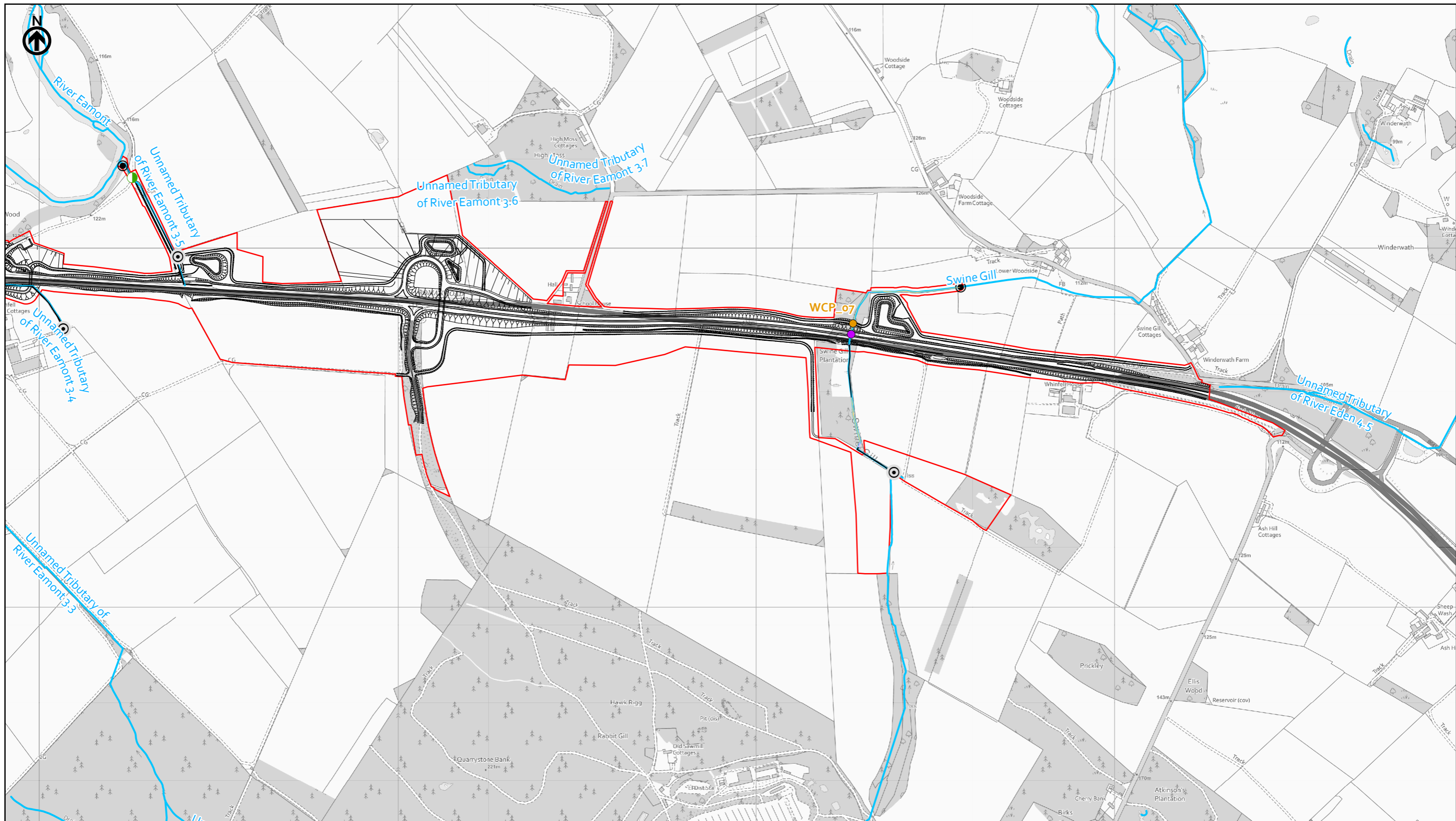
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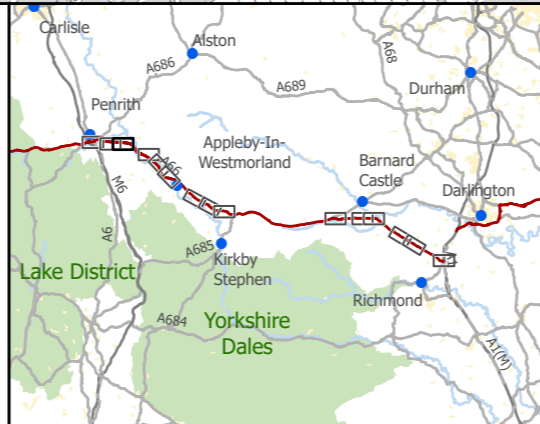
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 03, Temple Sowerby Sheet 2 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00 Location	MP - LB	003314	
	Type	Role	Number
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL		Revision P02





— Route Alignment	Obstructions - Weir	Salmonid Fish Habitat - Area
Order Limits	Exposed Substrate/Bars - Point	Chute/torrent/bedrock
Named Watercourses (within 250m of Order Limits)	Macrophyte - Point Feature	Fry
Fish Survey - eDNA	Large Woody Debris (Natural)	Glide - shallow
Fish Survey - Electric Fishing	Bank Erosion	Glide - deep
River Condition (MoRPh) Survey	Modified Channel (non-obstacle) or Banks	Lamprey (juvenile)
Upstream Summary	Invasive Species - Linear Feature	Mixed juvenile
Downstream Summary	Exposed Substrate/Bars - Area	Parr
Obstructions - Natural		Pool - shallow
Obstructions - Culvert/Ford		Pool - deep
Obstructions - Sluice/Dam/Flap Gate		Run
		Spawning
		No fish habitat



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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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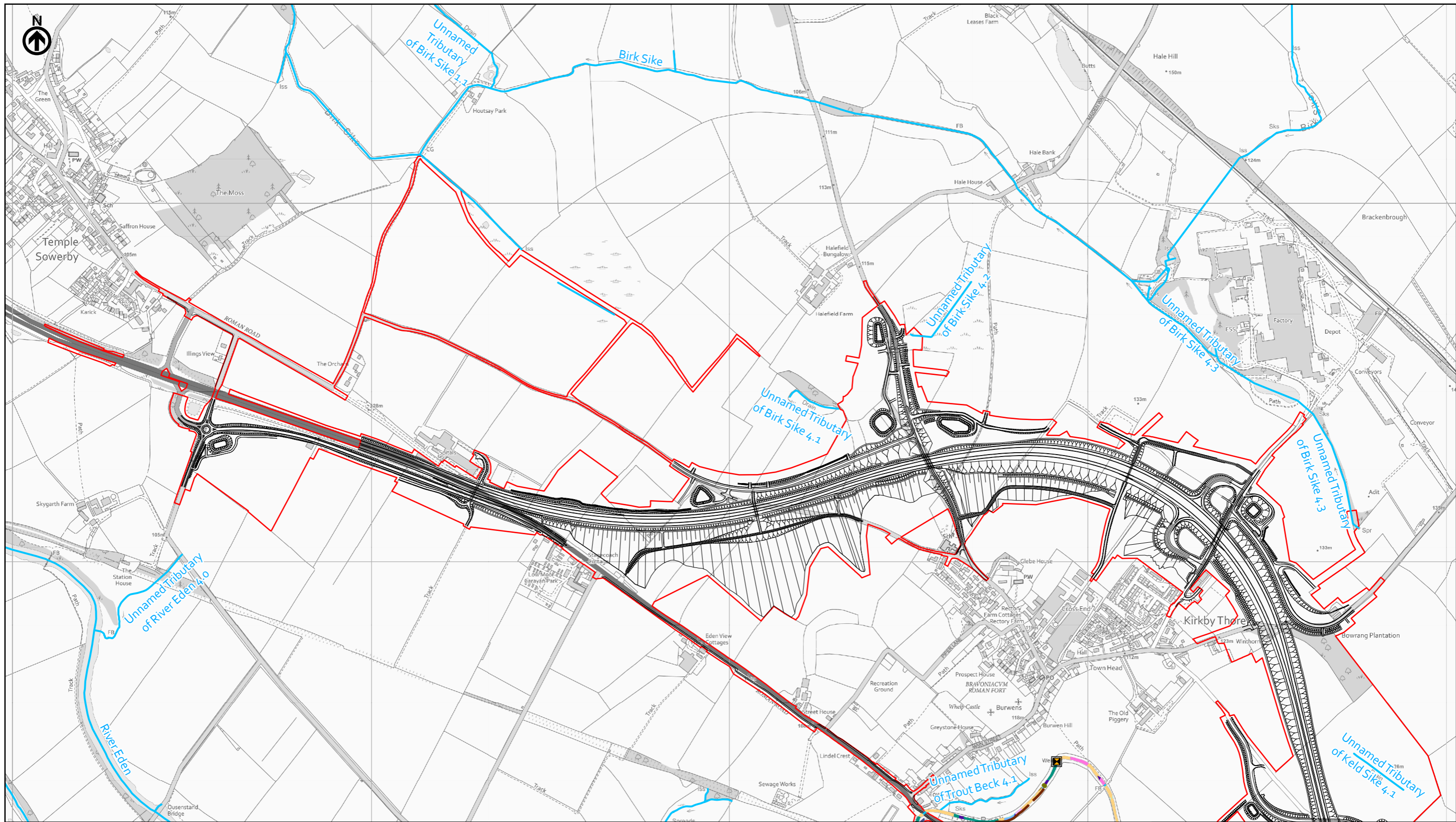
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Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and  
River Condition Survey (MoRPh)  
Scheme: 03, Temple Sowerby  
Sheet 3 of 15

Map Number	Project	Originator	Volume
HE565627	S00	AMY	EBD
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL	MP - LB	003315
Suitability	Suitability Description	Revision	
S4	FIT FOR STAGE APPROVAL	P02	





— Route Alignment	☒ Obstructions - Weir	Salmonid Fish Habitat - Area
☐ Order Limits	● Exposed Substrate/Bars - Point	■ Chute/torrent/bedrock
— Named Watercourses (within 250m of Order Limits)	● Macrophyte - Point Feature	■ Fry
● Fish Survey - eDNA	— Large Woody Debris (Natural)	■ Glide - shallow
● Fish Survey - Electric Fishing	— Bank Erosion	■ Glide - deep
● River Condition (MoRPh) Survey	— Modified Channel (non-obstacle) or Banks	■ Lamprey (juvenile)
⊙ Upstream Summary	— Invasive Species - Linear Feature	■ Mixed juvenile
⊙ Downstream Summary	☐ Exposed Substrate/Bars - Area	■ Parr
⊙ Obstructions - Natural		■ Pool - shallow
⊙ Obstructions - Culvert/Ford		■ Pool - deep
⊙ Obstructions - Sluice/Dam/Flap Gate		■ Run
		■ Spawning
		■ No fish habitat



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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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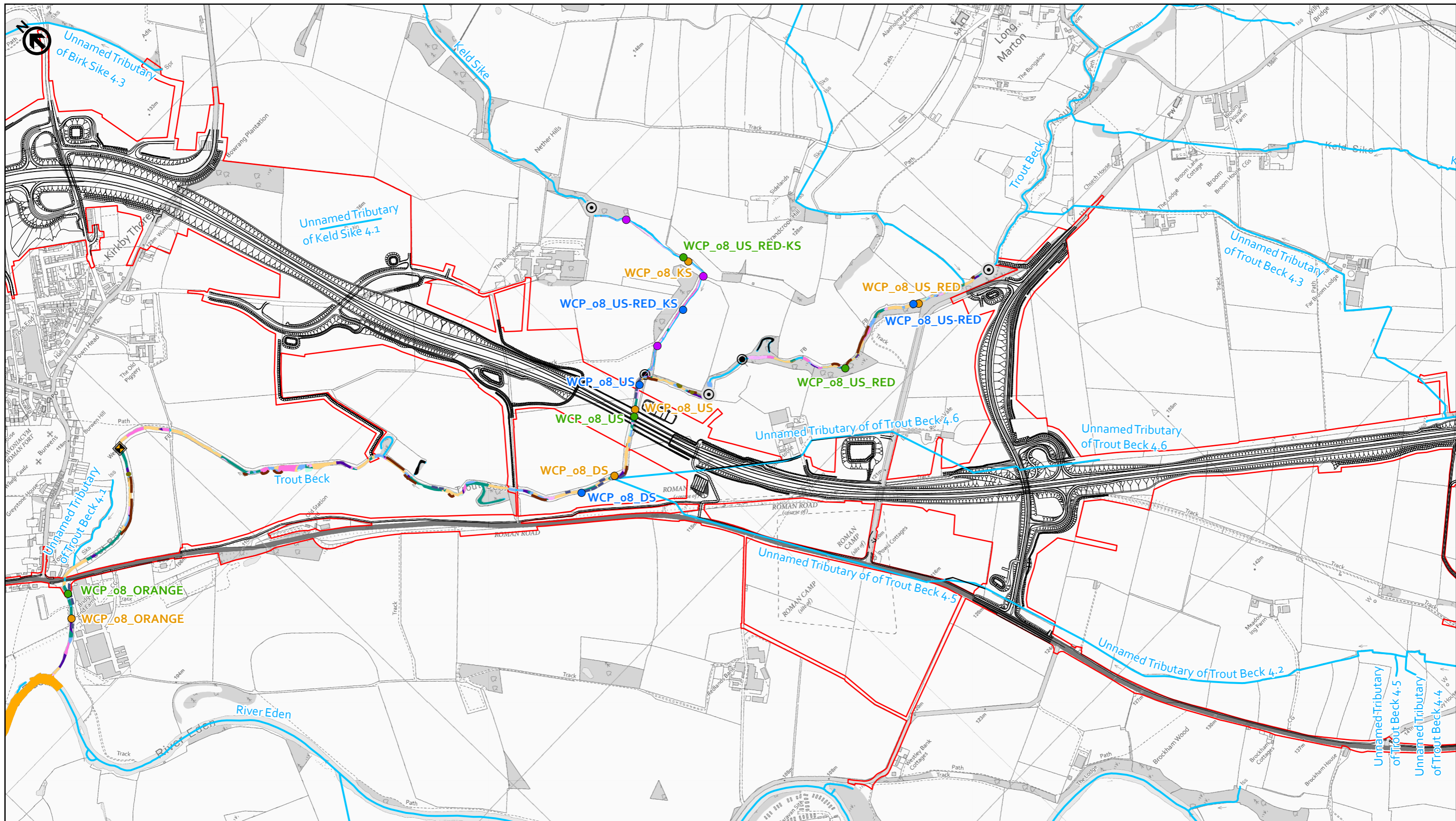
Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)  
Scheme: 0405, Temple Sowerby to Appleby  
Sheet 4 of 15

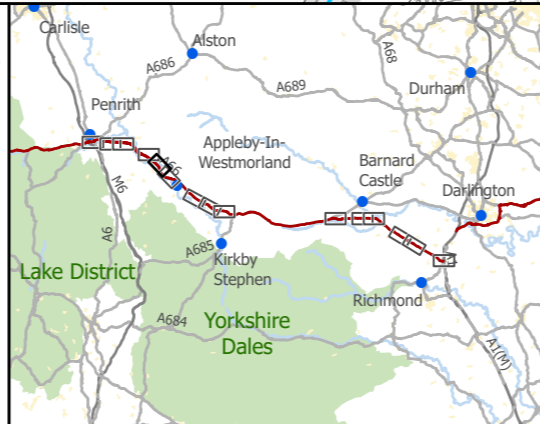
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HE565627	S00	AMY	EBD
Location	Type	Role	Number
	MP	LB	003316

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02





<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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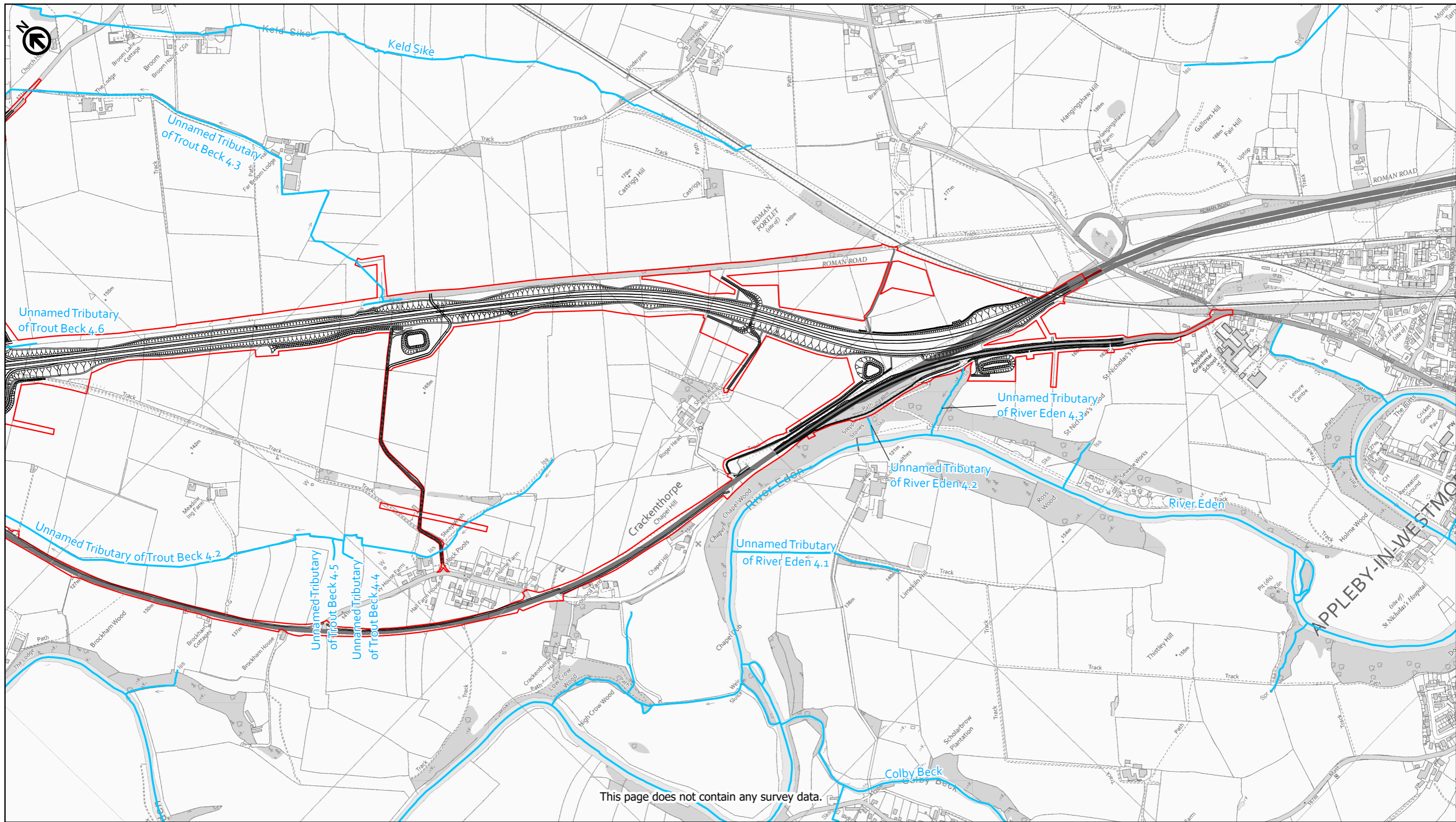
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	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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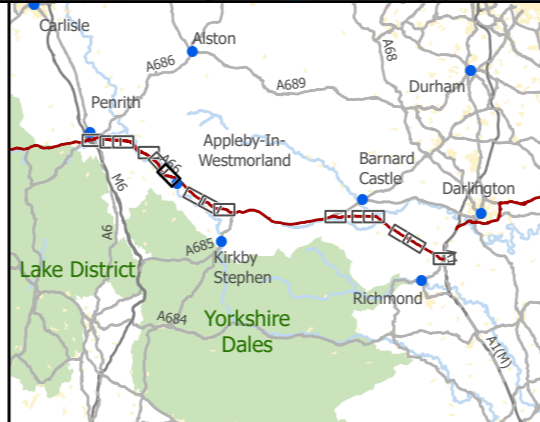
Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 0405, Temple Sowerby to Appleby Sheet 5 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00	-	MP	LB - 003317
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02





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<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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P02	First Issue	ZKOV	LHAN	THOU	AWAR	KWHA
		12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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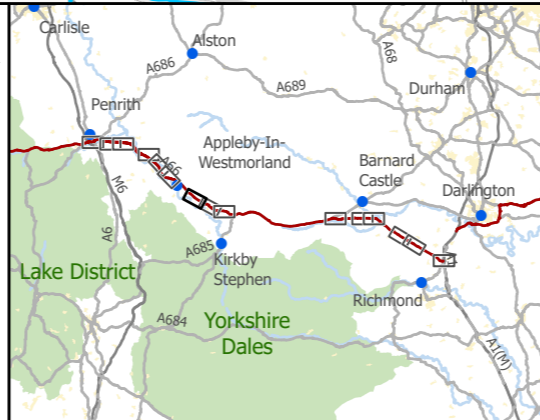
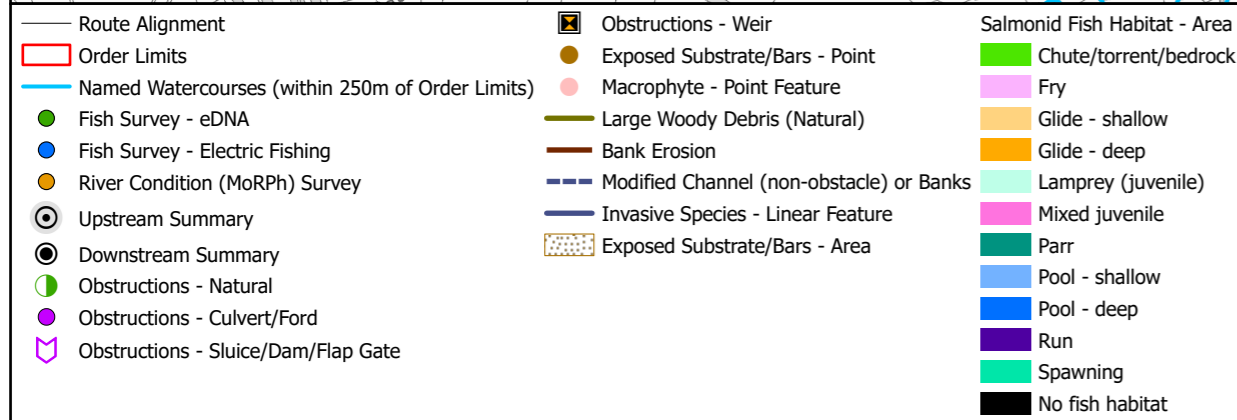
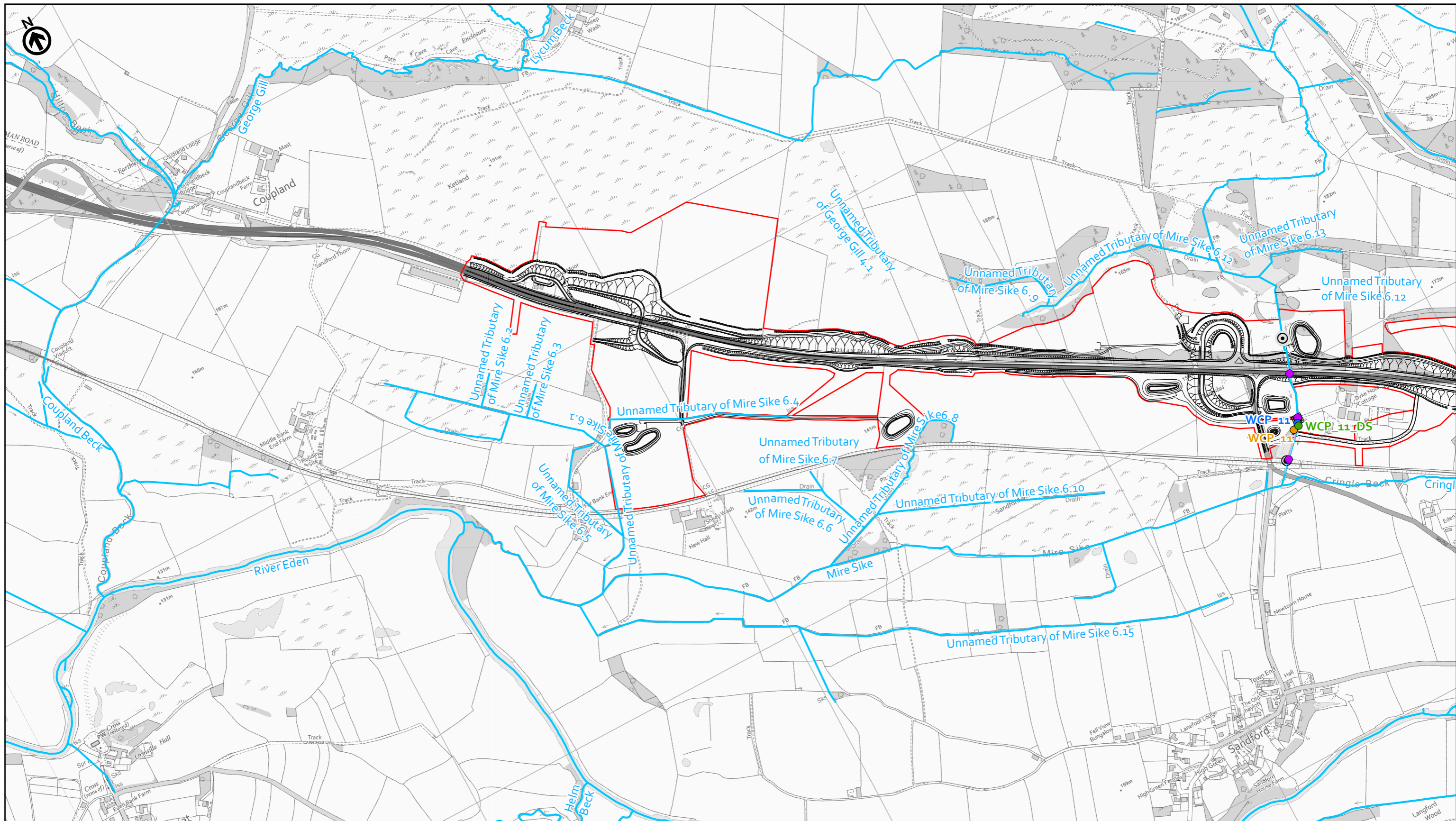
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**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)  
Scheme: 0405, Temple Sowerby to Appley  
Sheet 6 of 15

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EBD
S00	-	MP - LB	- 003318
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability S4 | Suitability Description FIT FOR STAGE APPROVAL | Revision P02





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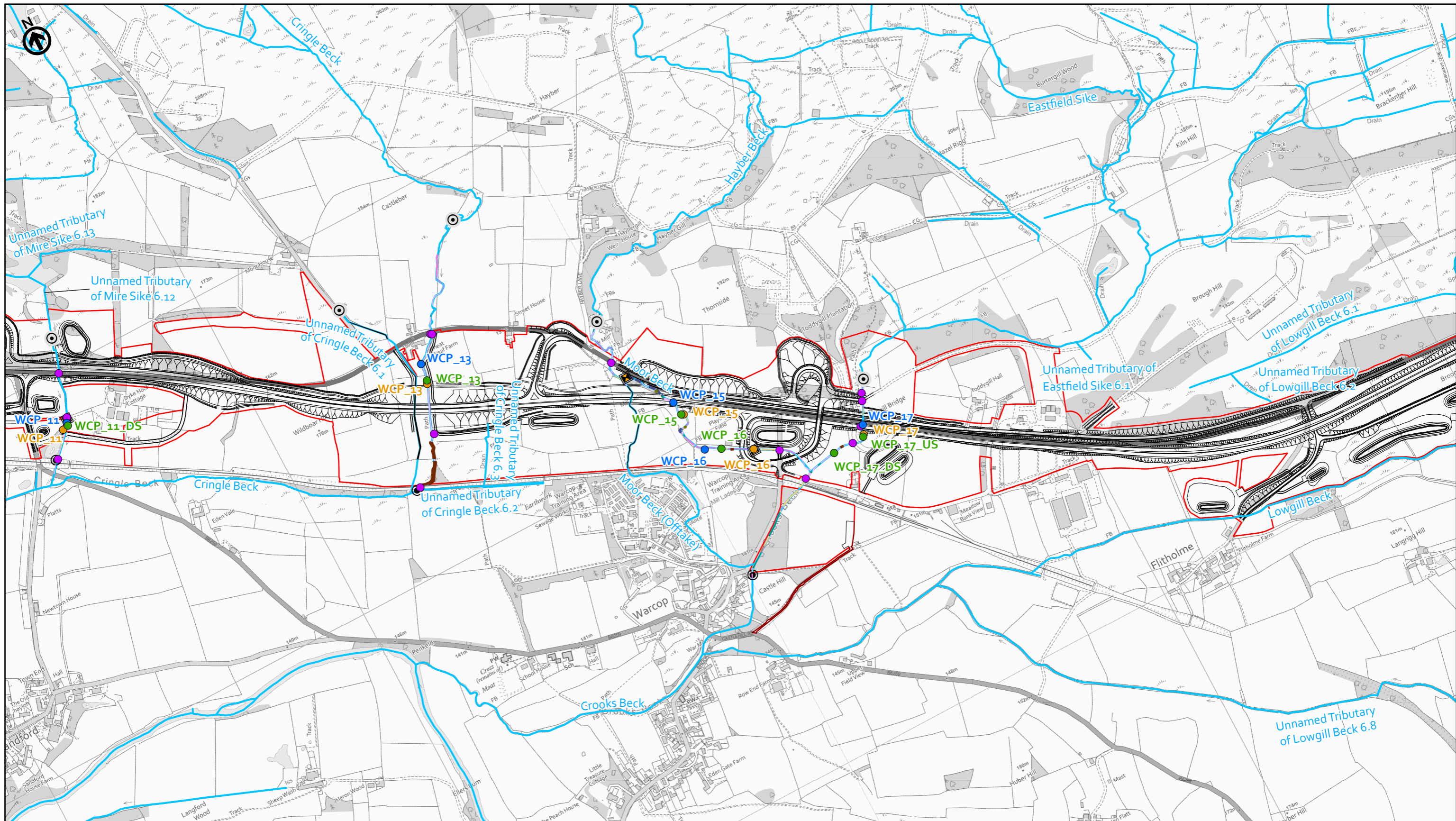
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	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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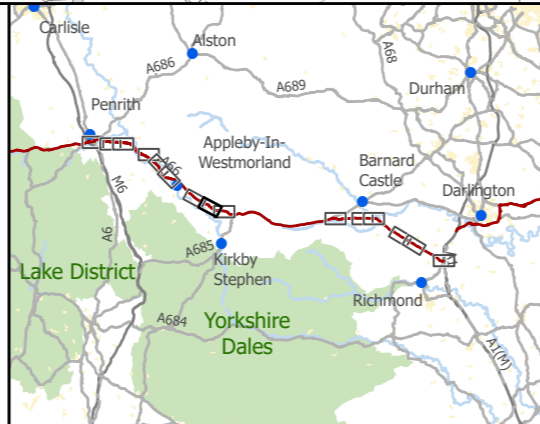
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 06, Appleby to Brough Sheet 7 of 15			
Map Number Project HE565627	Originator AMY	Volume EBD	
S00 Location	MP - LB - 003319 Type   Role   Number		
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL	Revision P02	





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P02	First Issue	ZKOV	LHAN	THOU	AWAR	KWHA
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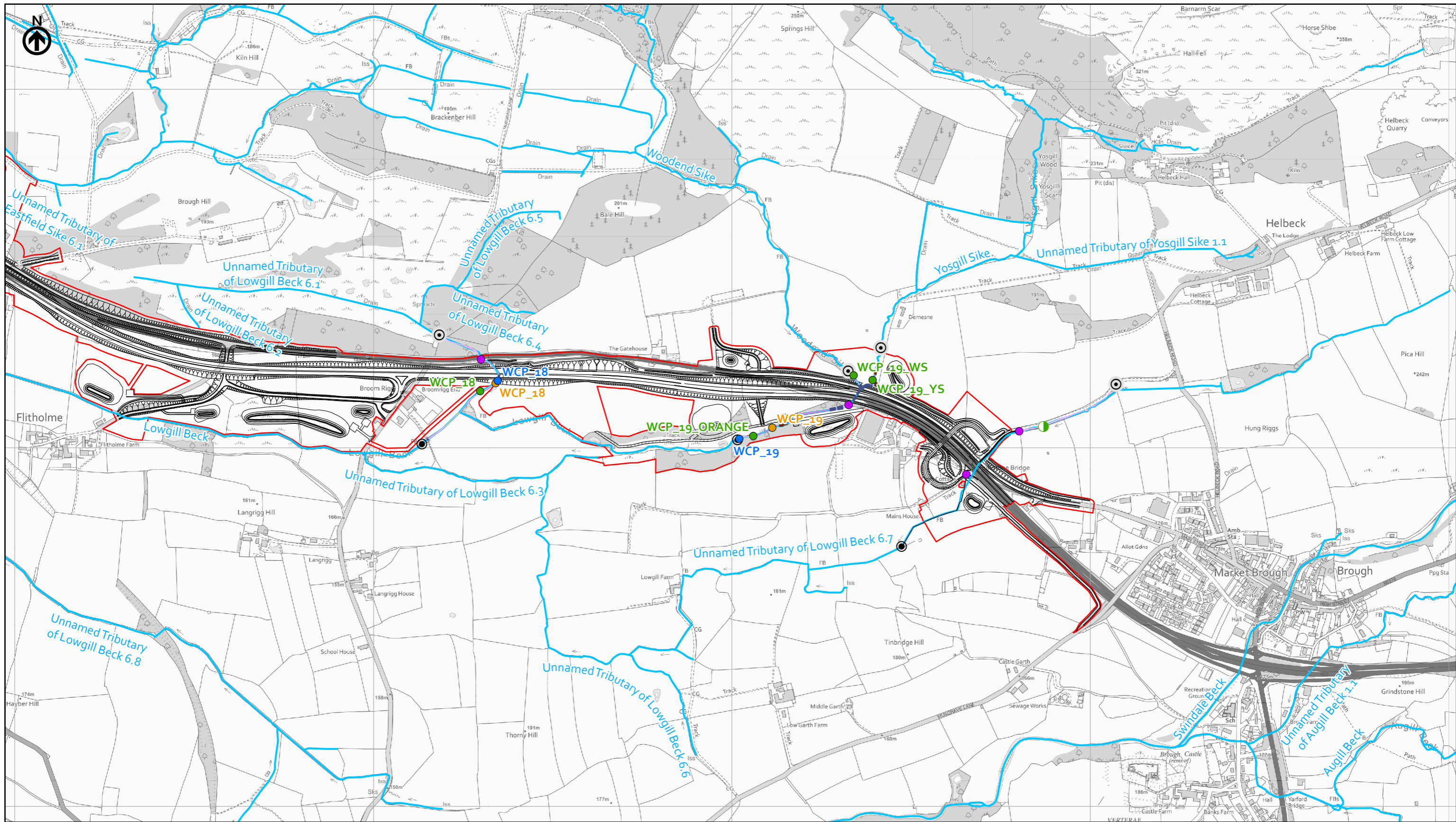
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 06, Appleby to Brough Sheet 8 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00 Location	MP - LB	003320	
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL	Type	Revision P02





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P02	First Issue	ZKOV	LHAN	THOU	AWAR	KWHA
		12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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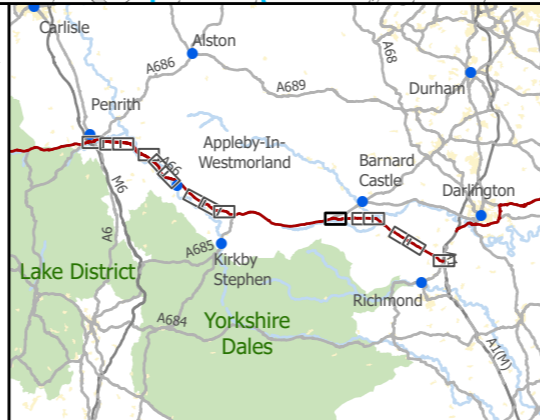
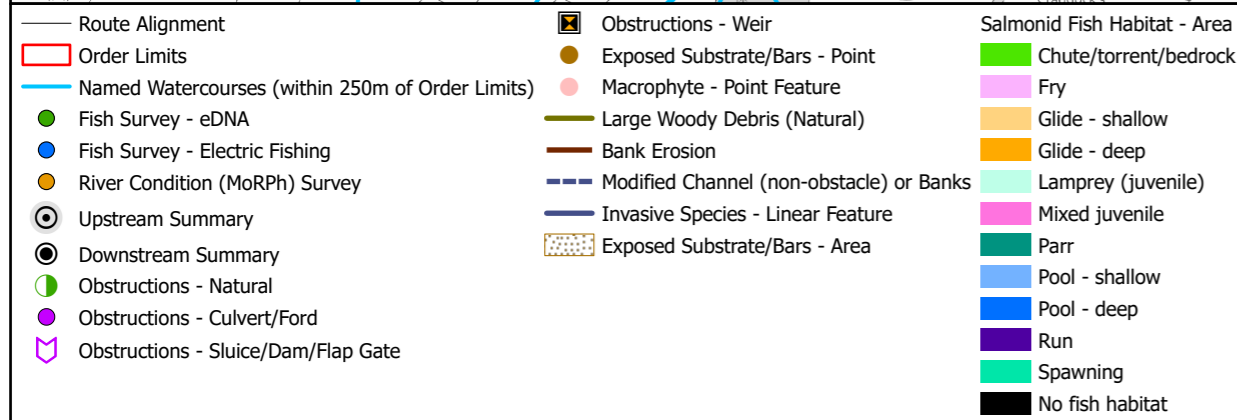
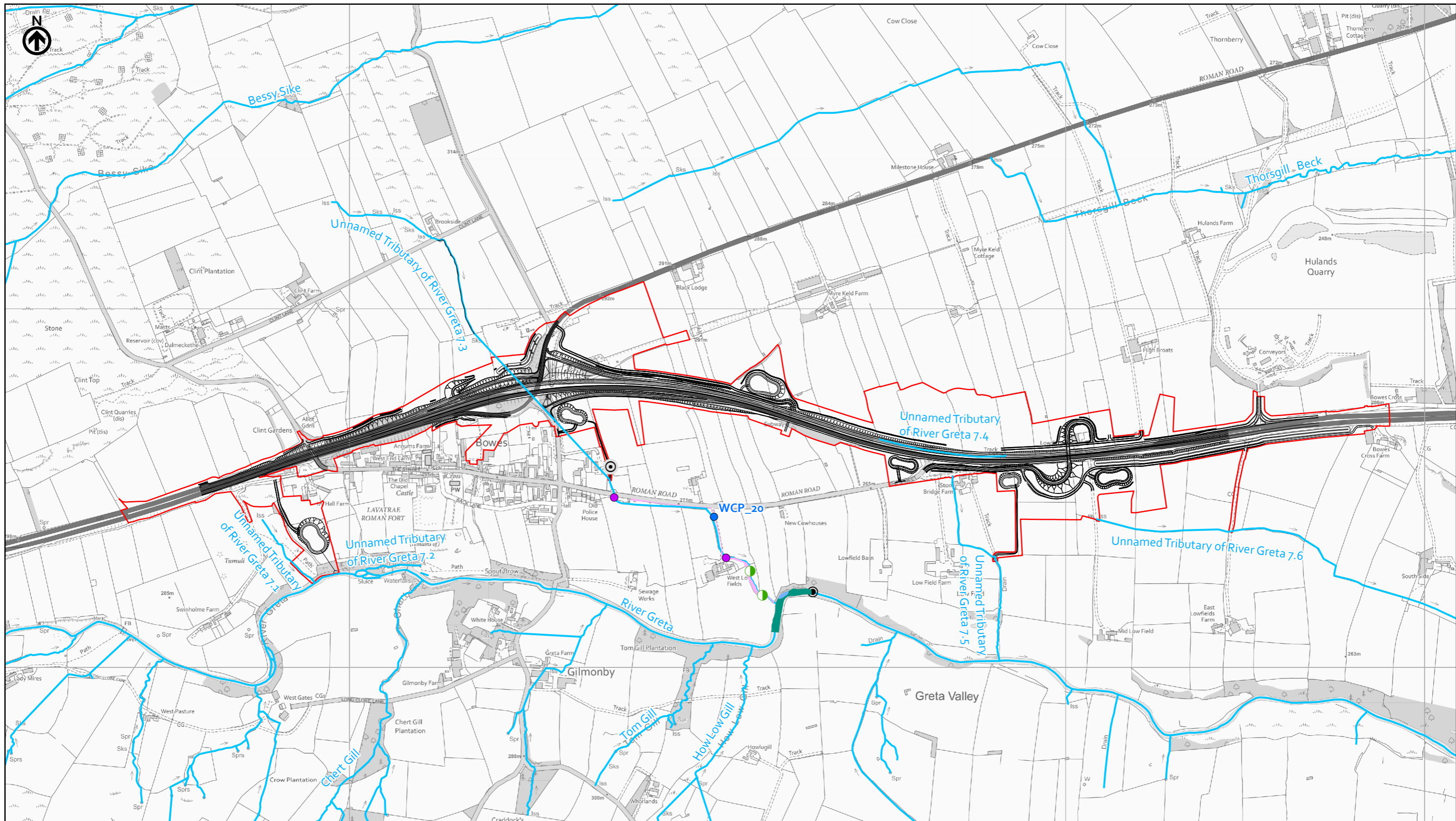
Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)  
Scheme: 06, Appleby to Brough  
Sheet 9 of 15

Map Number	Project	Originator	Volume
HE565627	-	AMY	EBD
S00	-	MP - LB	003321
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability S4 | Suitability Description FIT FOR STAGE APPROVAL | Revision P02





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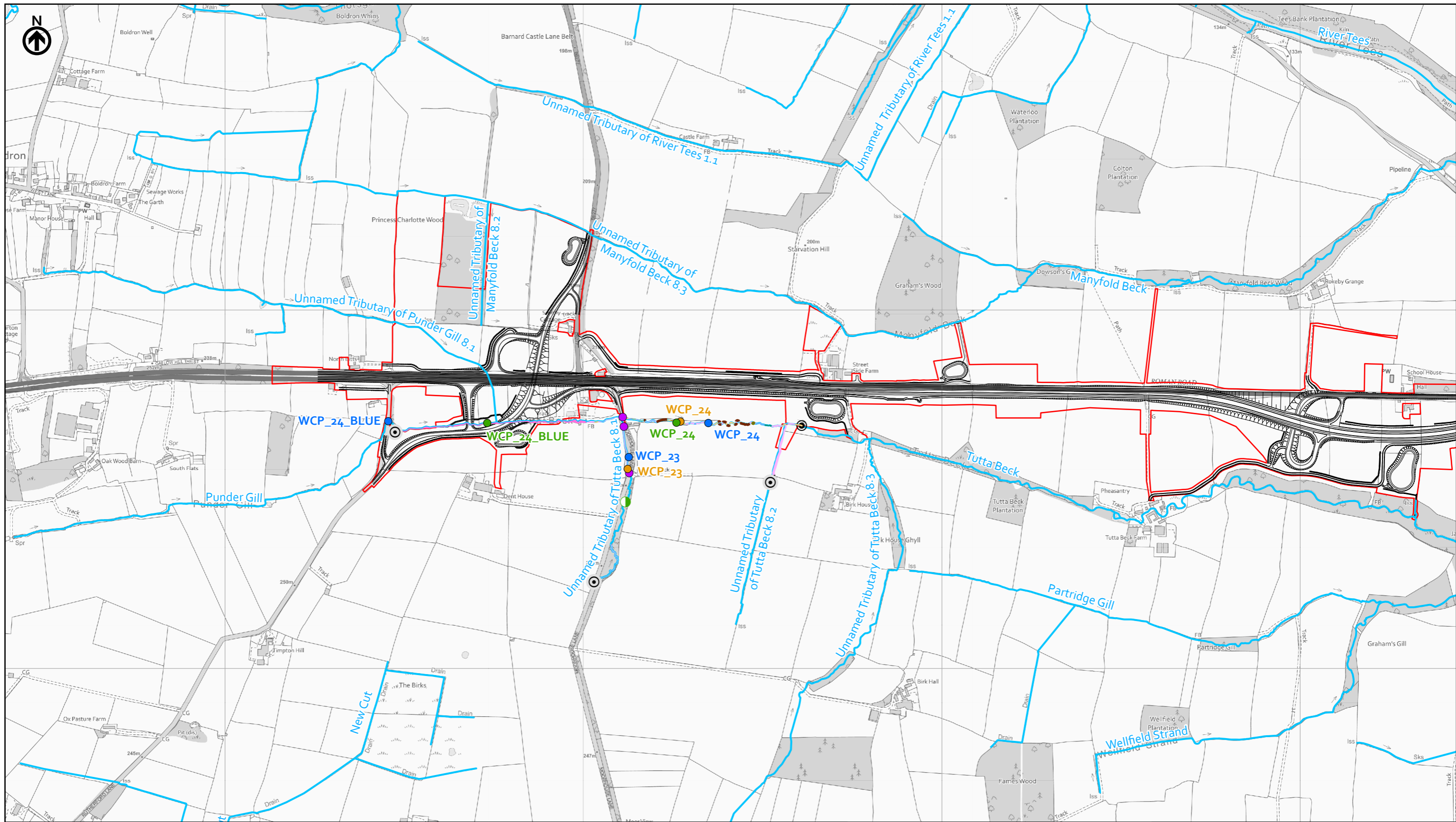
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Revision	Created	Checked	Reviewed	Approved	Authorised	

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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 07, Bowes Bypass Sheet 10 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00	MP	LB	003322
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02





<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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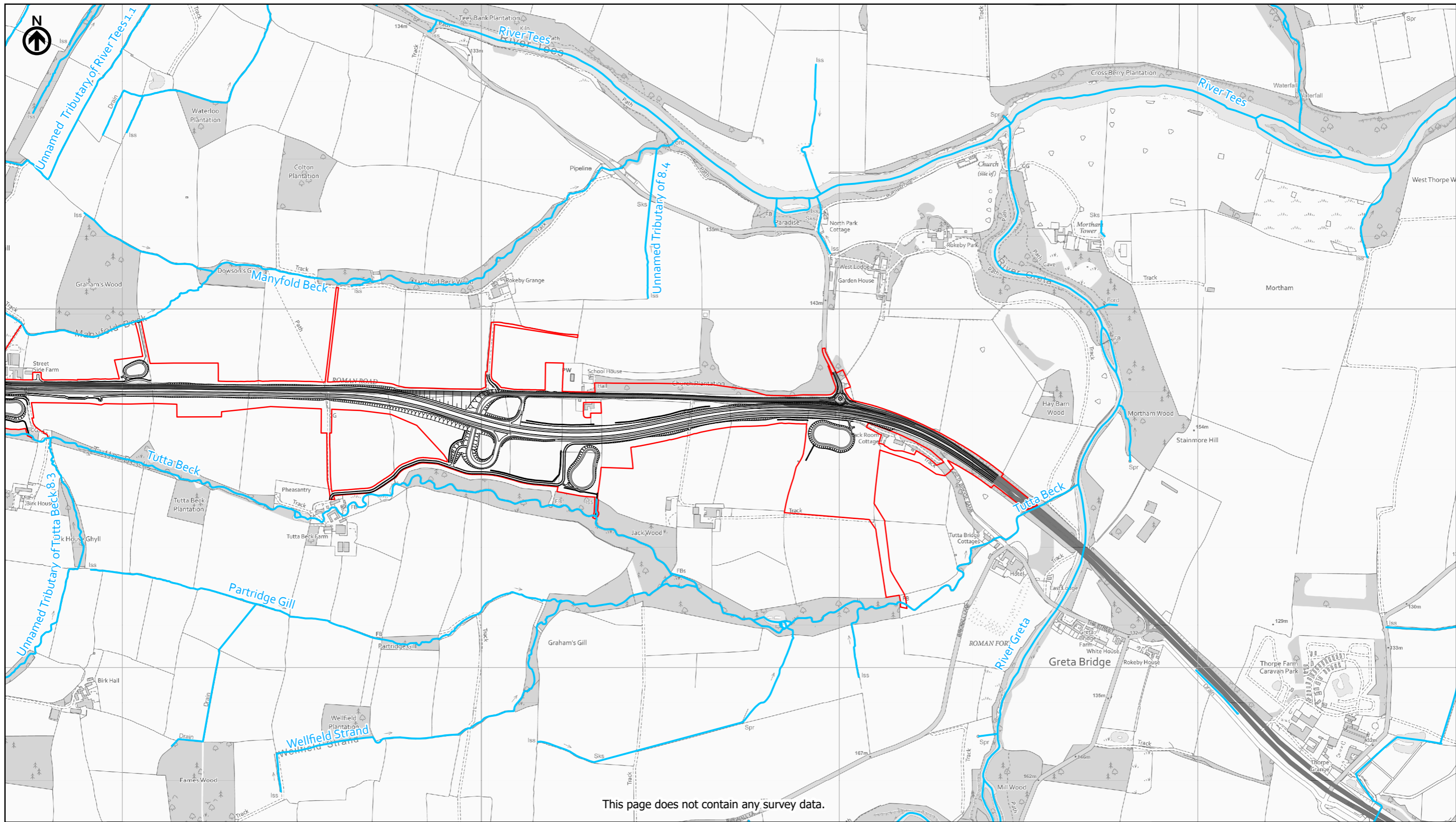
Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and  
River Condition Survey (MoRPh)  
Scheme: 08, Cross Lanes to Rokeby  
Sheet 11 of 15

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EBD
S00	-	MP - LB	- 003323
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability S4 | Suitability Description FIT FOR STAGE APPROVAL | Revision P02





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<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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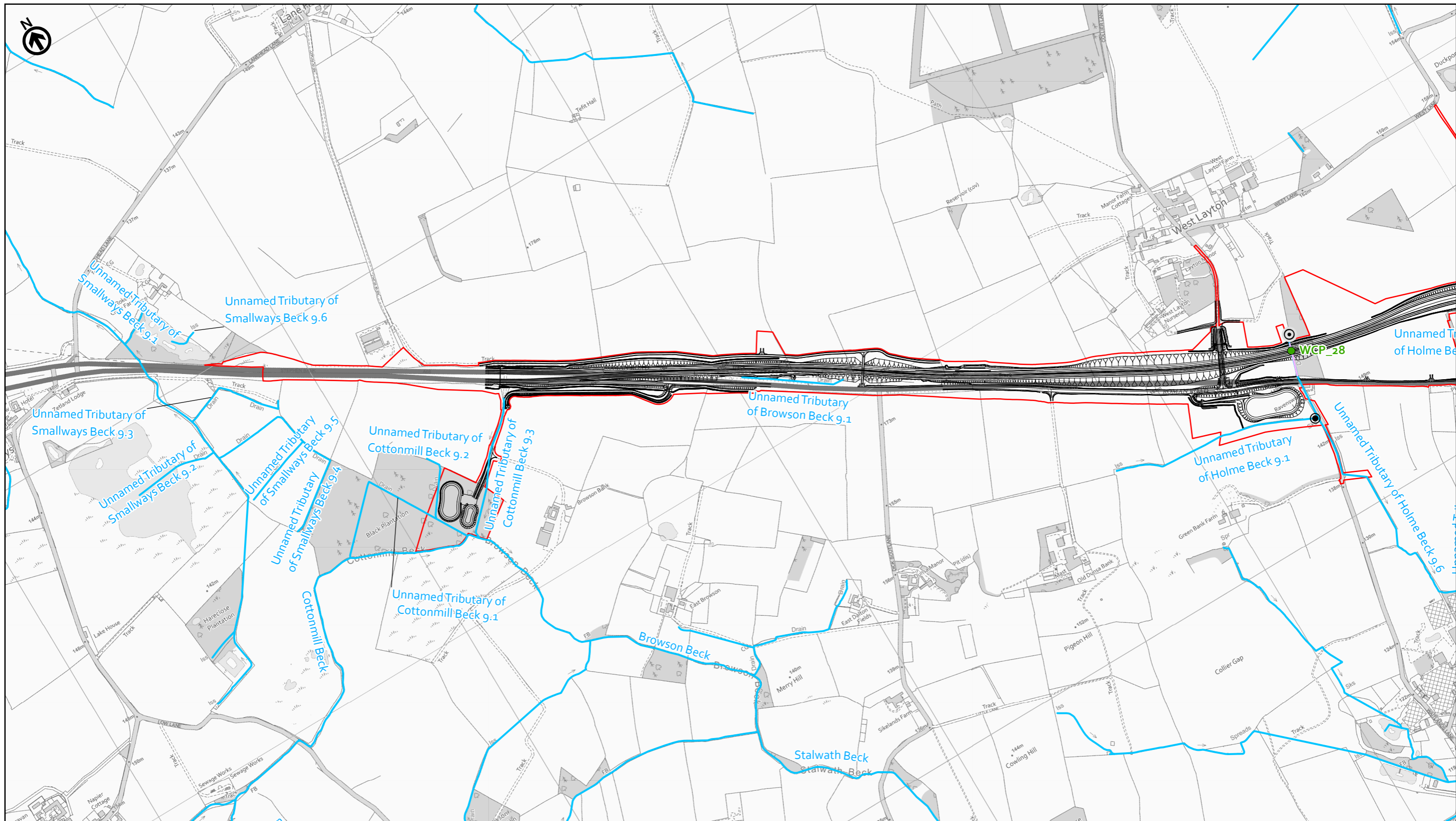
Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)  
Scheme: 08, Cross Lanes to Rokeby  
Sheet 12 of 15

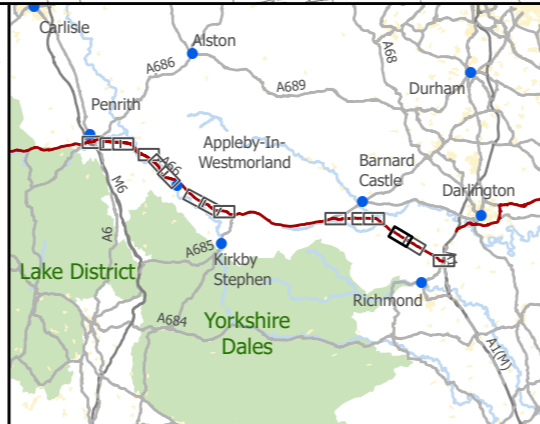
Map Number	Project	Originator	Volume
HE565627	-	AMY	EBD
S00	-	MP	LB
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability Description  
S4





<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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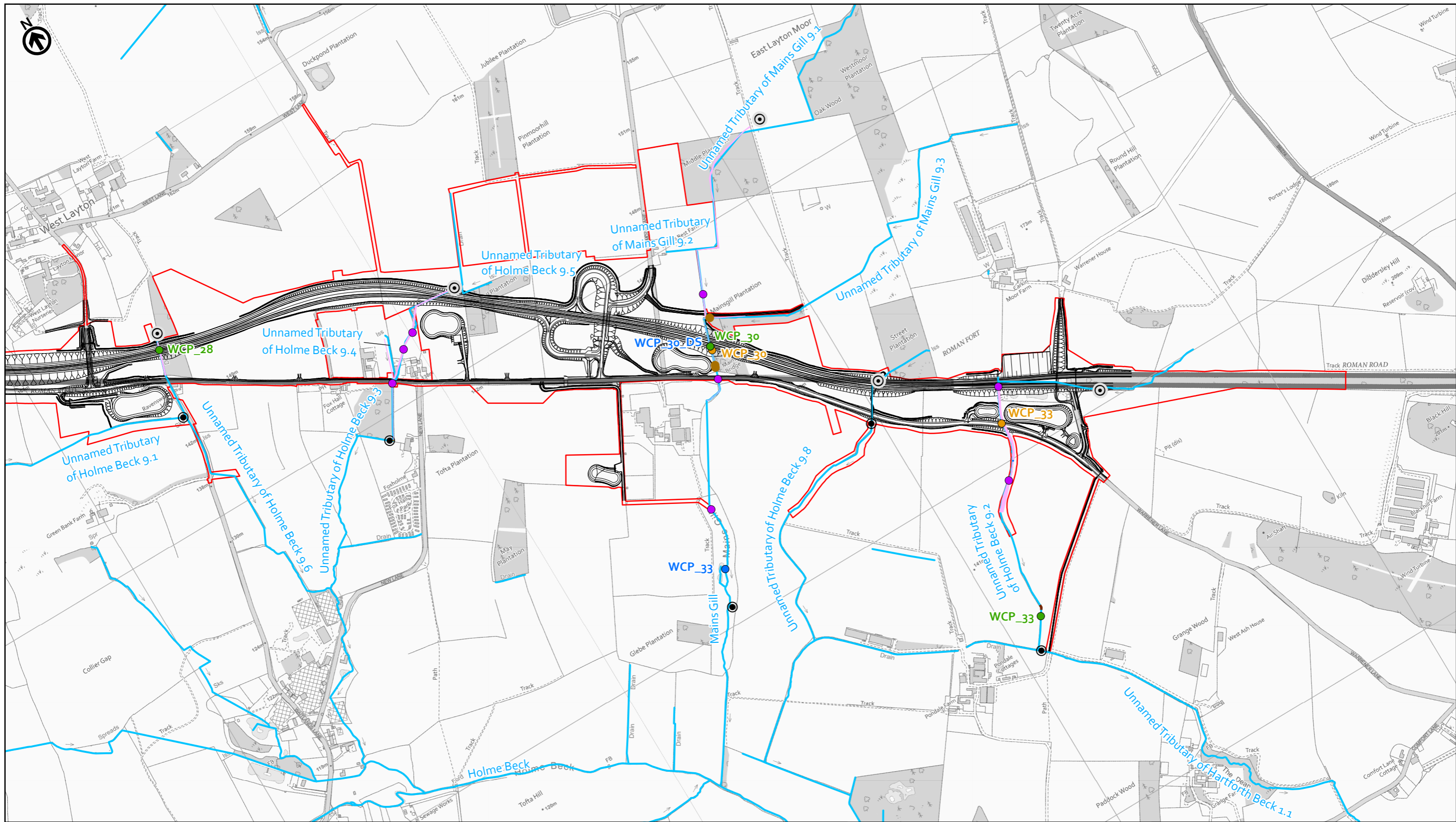
P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17			
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)			
Scheme: 09, Stephen Bank to Carkin Moor			
Sheet 13 of 15			
Map Number	Project	Originator	Volume
HE565627	-	AMY	EBD
S00	-	MP - LB	003325
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02





— Route Alignment	■ Obstructions - Weir	■ Salmonid Fish Habitat - Area
□ Order Limits	● Exposed Substrate/Bars - Point	■ Fry
— Named Watercourses (within 250m of Order Limits)	● Macrophyte - Point Feature	■ Glide - shallow
● Fish Survey - eDNA	— Large Woody Debris (Natural)	■ Glide - deep
● Fish Survey - Electric Fishing	— Bank Erosion	■ Lamprey (juvenile)
● River Condition (MoRPh) Survey	— Modified Channel (non-obstacle) or Banks	■ Mixed juvenile
⊙ Upstream Summary	— Invasive Species - Linear Feature	■ Parr
⊙ Downstream Summary	■ Exposed Substrate/Bars - Area	■ Pool - shallow
● Obstructions - Natural		■ Pool - deep
● Obstructions - Culvert/Ford		■ Run
■ Obstructions - Sluice/Dam/Flap Gate		■ Spawning
		■ No fish habitat



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P02	First Issue				
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	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
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Kilometres  
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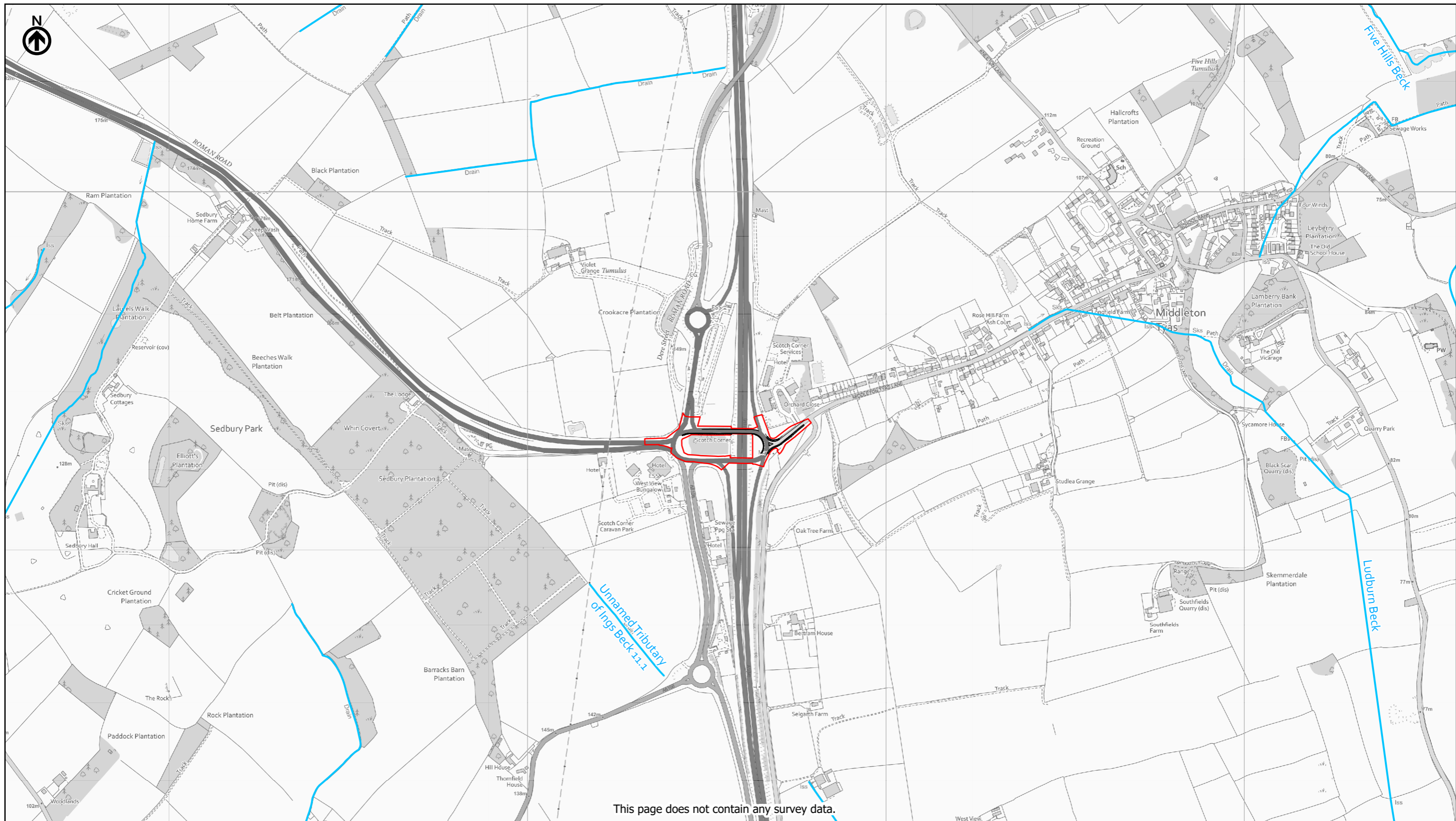
Project Name  
**A66 Northern Trans-Pennine Project**

Map Title  
Figure 6.17  
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)  
Scheme: 09, Stephen Bank to Carkin Moor  
Sheet 14 of 15

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EBD
S00	-	MP	- LB - 003326
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability S4 | Suitability Description FIT FOR STAGE APPROVAL | Revision P02





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<ul style="list-style-type: none"> <li>Route Alignment</li> <li>Order Limits</li> <li>Named Watercourses (within 250m of Order Limits)</li> <li>Fish Survey - eDNA</li> <li>Fish Survey - Electric Fishing</li> <li>River Condition (MoRPh) Survey</li> <li>Upstream Summary</li> <li>Downstream Summary</li> <li>Obstructions - Natural</li> <li>Obstructions - Culvert/Ford</li> <li>Obstructions - Sluice/Dam/Flap Gate</li> </ul>	<ul style="list-style-type: none"> <li>Obstructions - Weir</li> <li>Exposed Substrate/Bars - Point</li> <li>Macrophyte - Point Feature</li> <li>Large Woody Debris (Natural)</li> <li>Bank Erosion</li> <li>Modified Channel (non-obstacle) or Banks</li> <li>Invasive Species - Linear Feature</li> <li>Exposed Substrate/Bars - Area</li> </ul>	<ul style="list-style-type: none"> <li>Salmonid Fish Habitat - Area</li> <li>Chute/torrent/bedrock</li> <li>Fry</li> <li>Glide - shallow</li> <li>Glide - deep</li> <li>Lamprey (juvenile)</li> <li>Mixed juvenile</li> <li>Parr</li> <li>Pool - shallow</li> <li>Pool - deep</li> <li>Run</li> <li>Spawning</li> <li>No fish habitat</li> </ul>
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Project Name <b>A66 Northern Trans-Pennine Project</b>			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 11, A1(M) Junction 53 Scotch Corner Sheet 15 of 15			
Map Number HE565627	Project S00	Originator - AMY -	Volume - EBD -
Suitability S4	Location FIT FOR STAGE APPROVAL		Revision P02