

Lower Thames Crossing

6.3 Environmental Statement Appendices

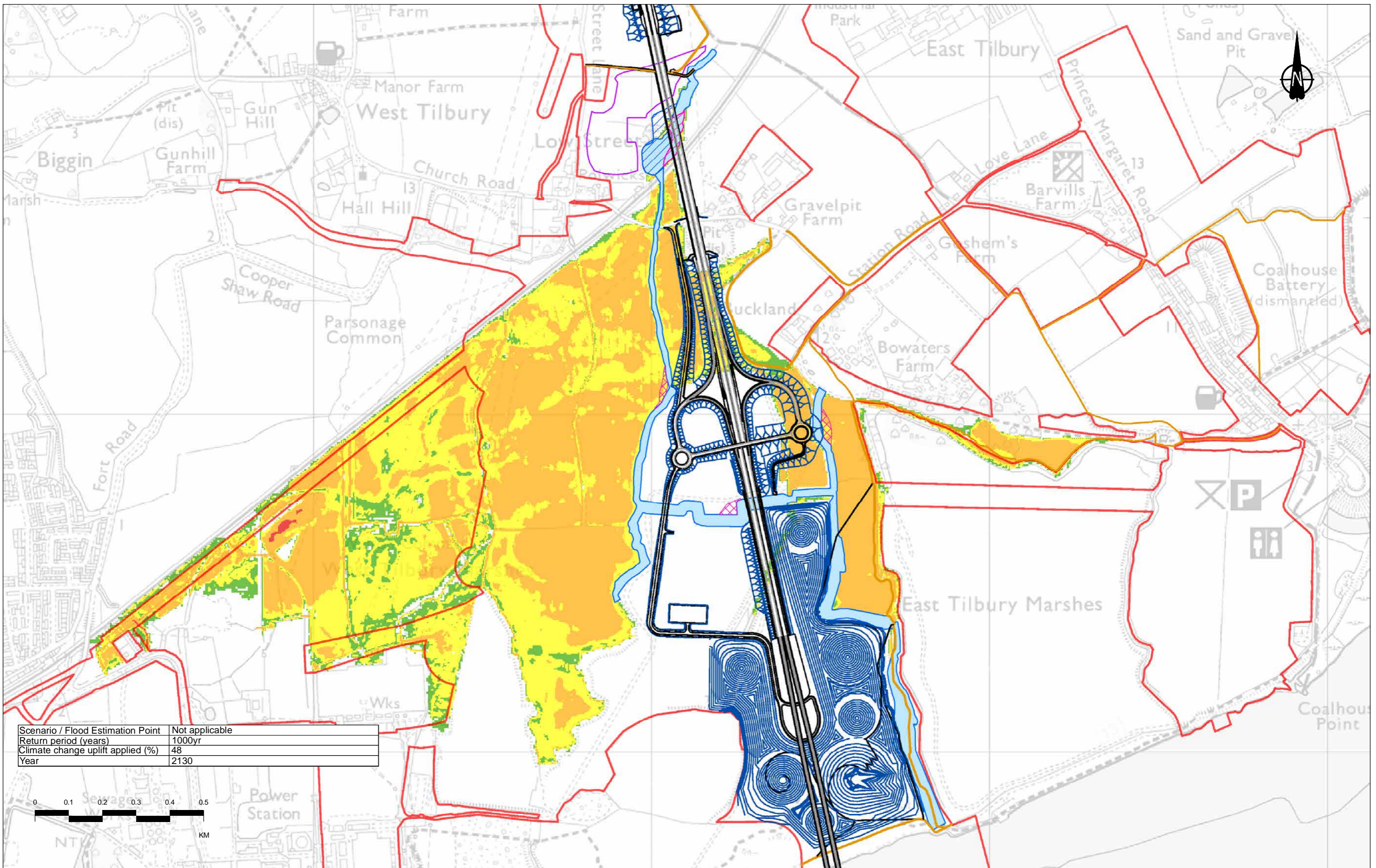
Appendix 14.6 - Flood Risk Assessment - Part 9 Annex H

APFP Regulation 5(2)(a)
Infrastructure Planning
(Applications: Prescribed Forms and Procedure)
Regulations 2009
Volume 6

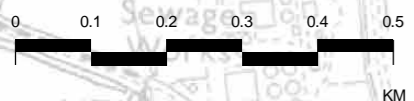
DATE: October 2022

Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/6.3

VERSION: 1.0



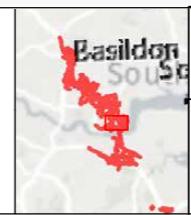
Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	48
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

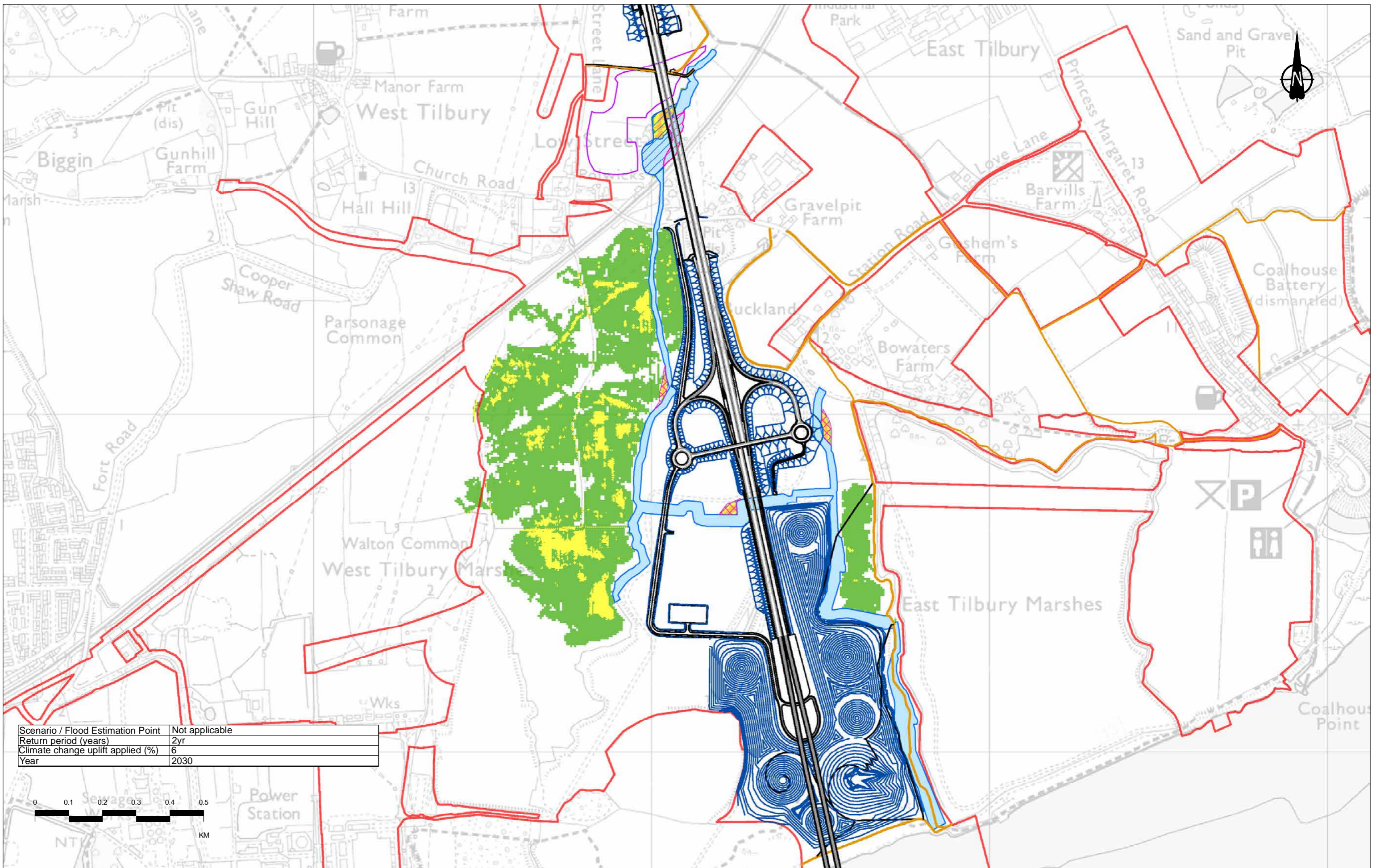
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 15 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01064				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	6
Year	2030

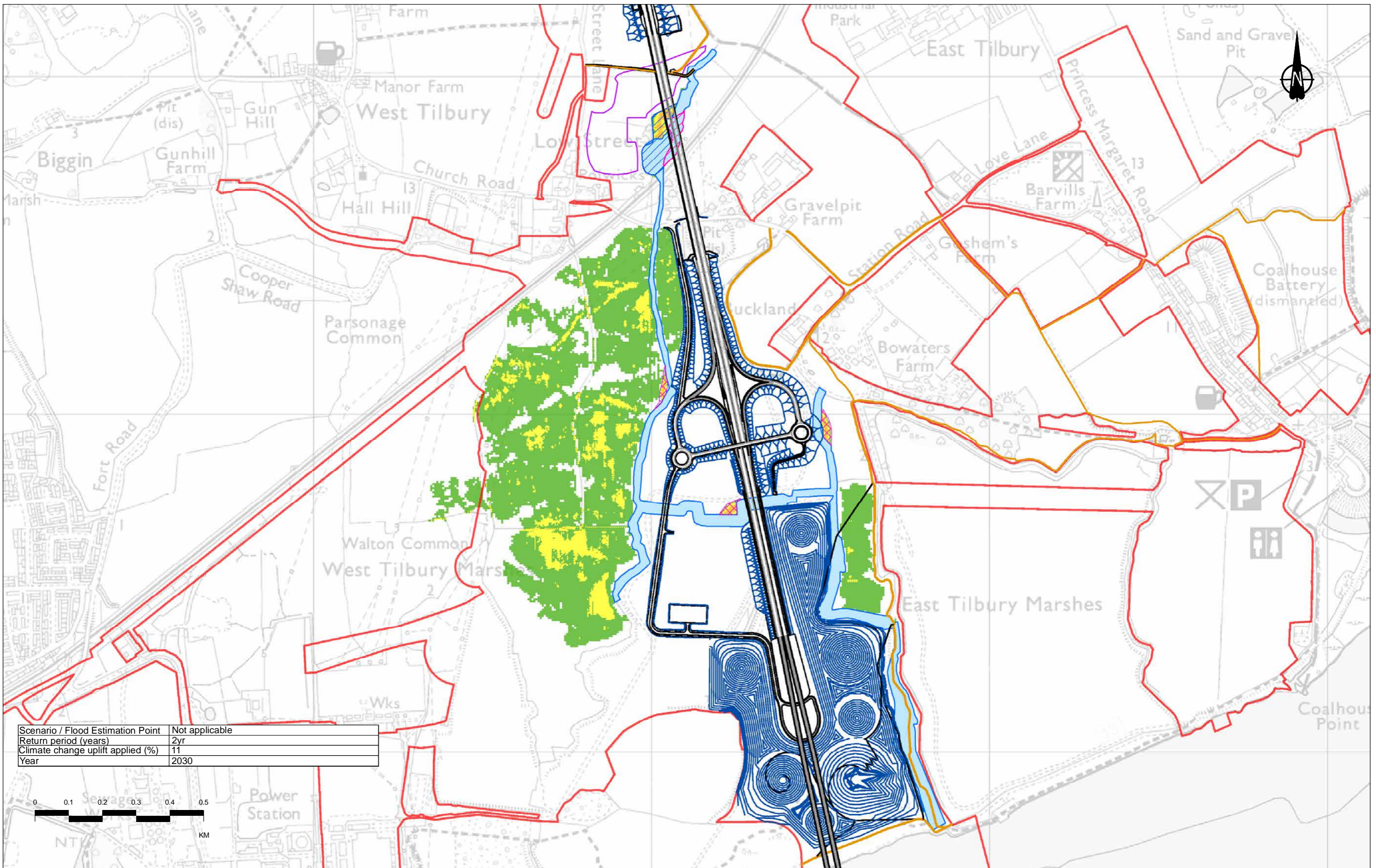


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 1 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01065				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	11
Year	2030

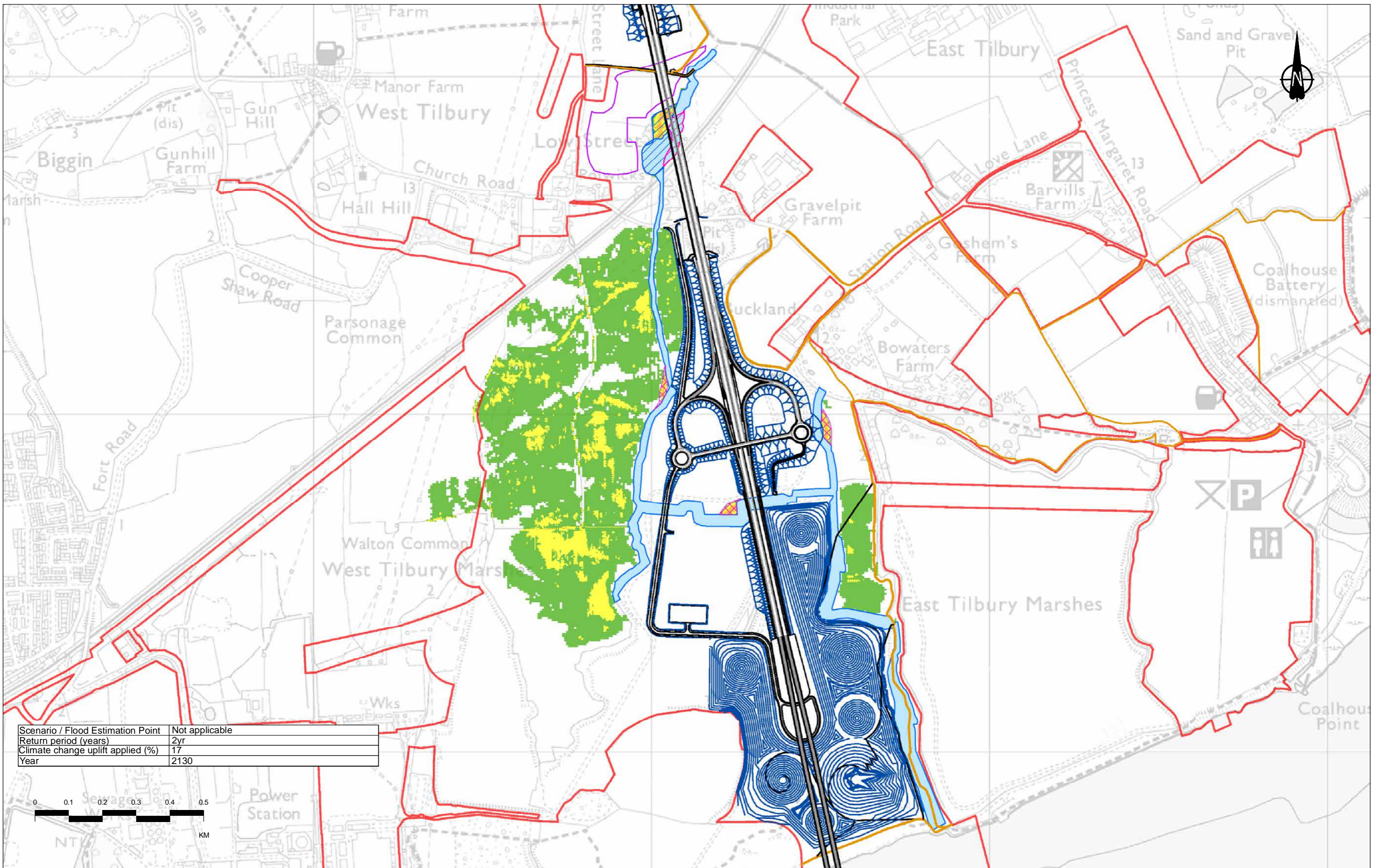


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category: Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Project		LOWER THAMES CROSSING		Drawing title			
				FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 2 of 15			
				Drawing number			
				HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01066			



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	17
Year	2130

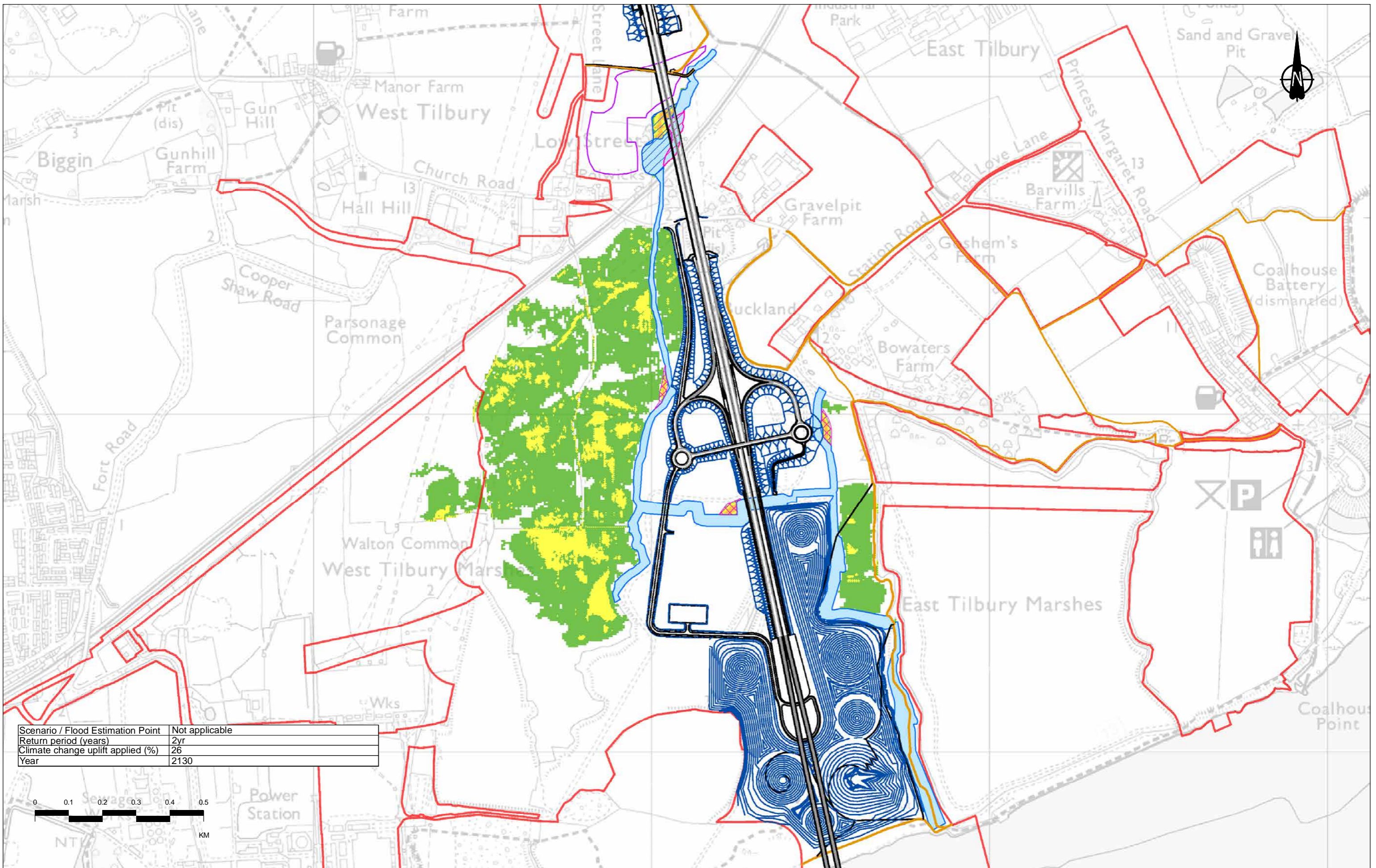


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category: Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01067				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	26
Year	2130

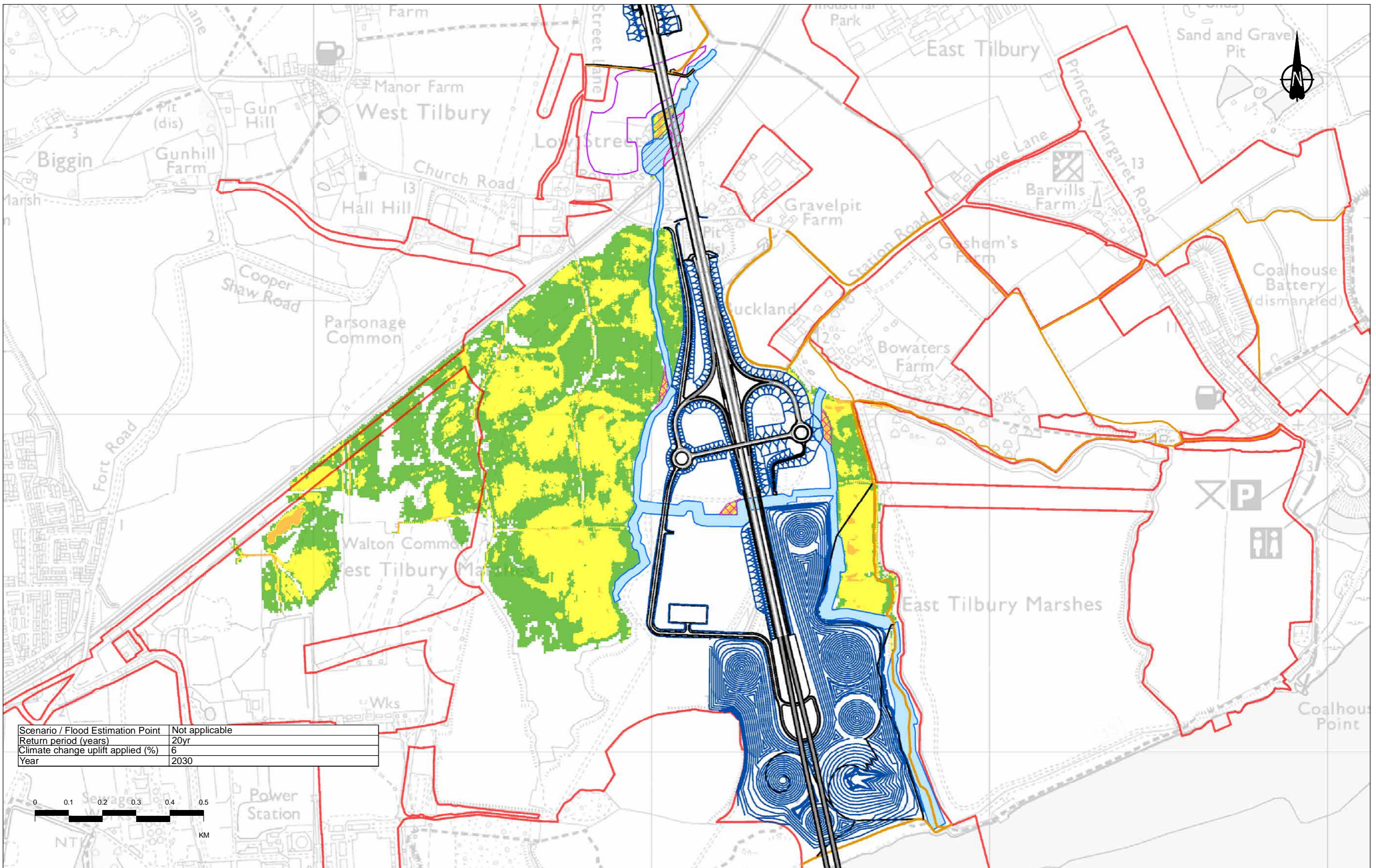


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

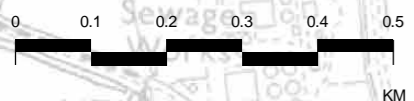
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1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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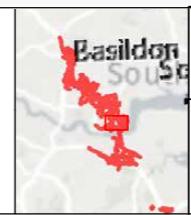
Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

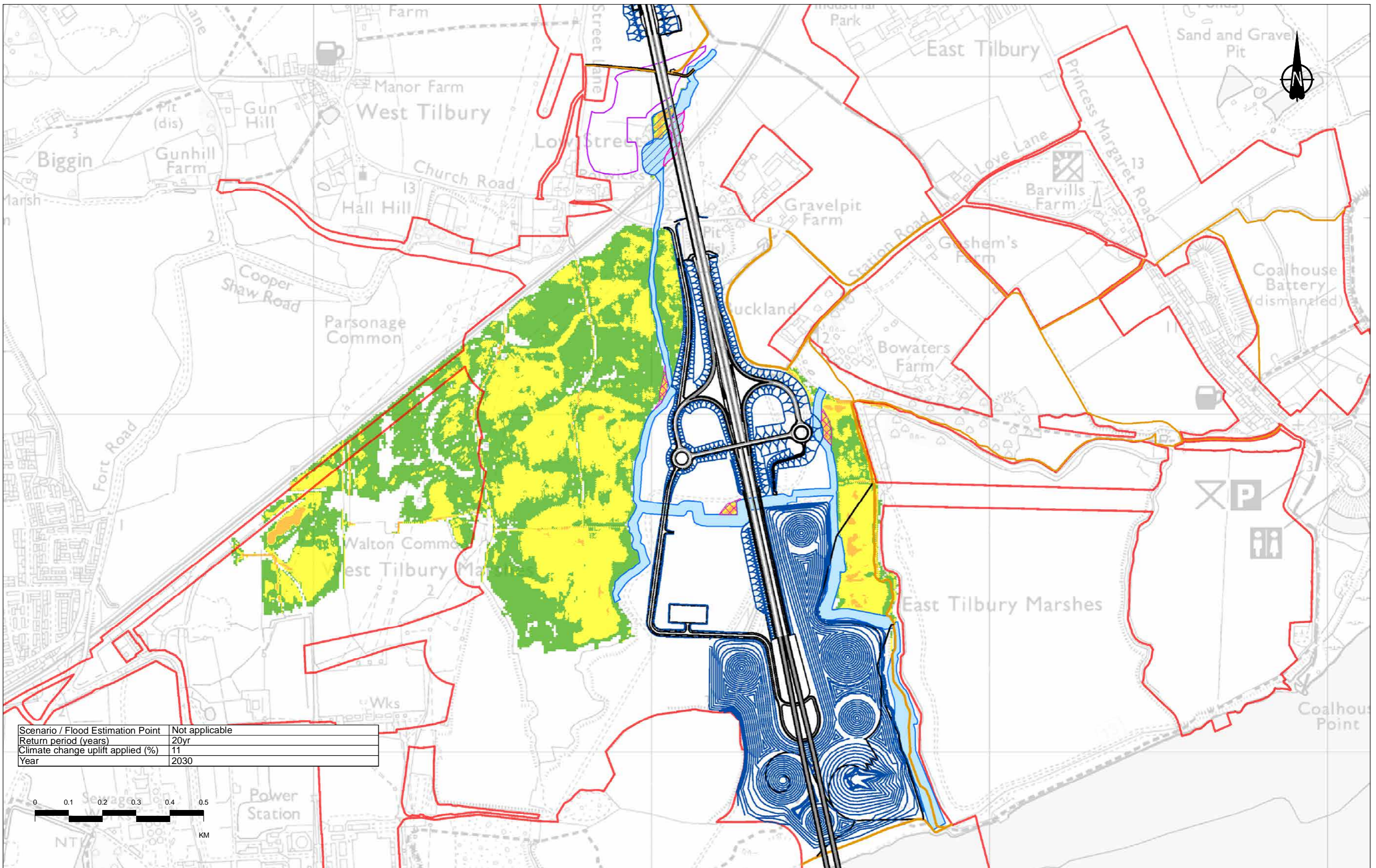
1D Channel	Alignment	Proposed LTC alignment	Very low hazard
1D Channel diversions	Earthworks		Danger for some
Compensation area	NMU Routes		Danger for most
Existing reservoir infilled	Revised reservoir footprint		Danger for all
Revised reservoir footprint	Order Limits		



Client:

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 5 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01069				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	11
Year	2030

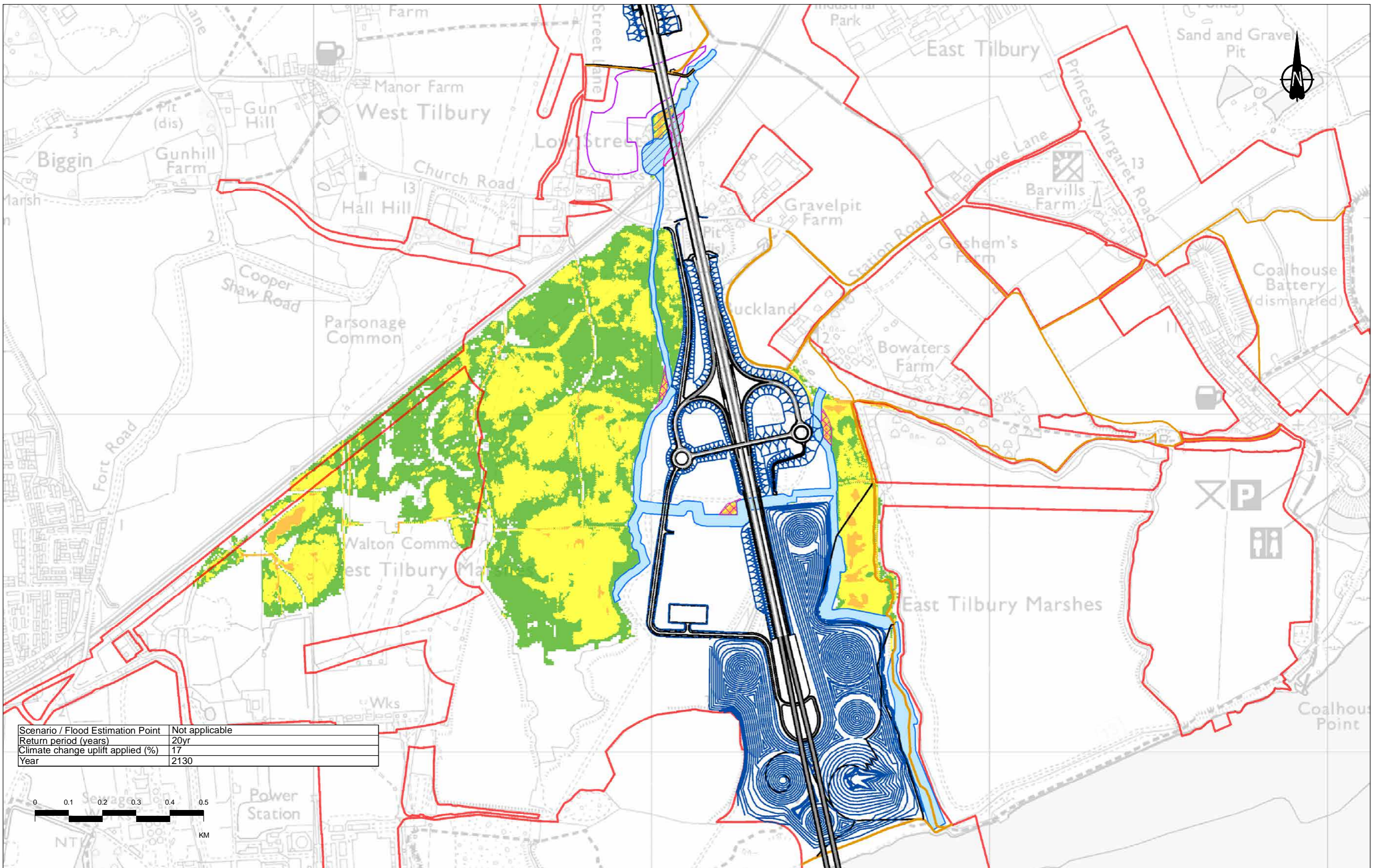


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Proposed LTC alignment	Maximum flood hazard category
1D Channel diversions	Earthworks		
Compensation area	NMU Routes		
Existing reservoir infilled			
Revised reservoir footprint			
Order Limits			Very low hazard
			Danger for some
			Danger for most
			Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	17
Year	2130

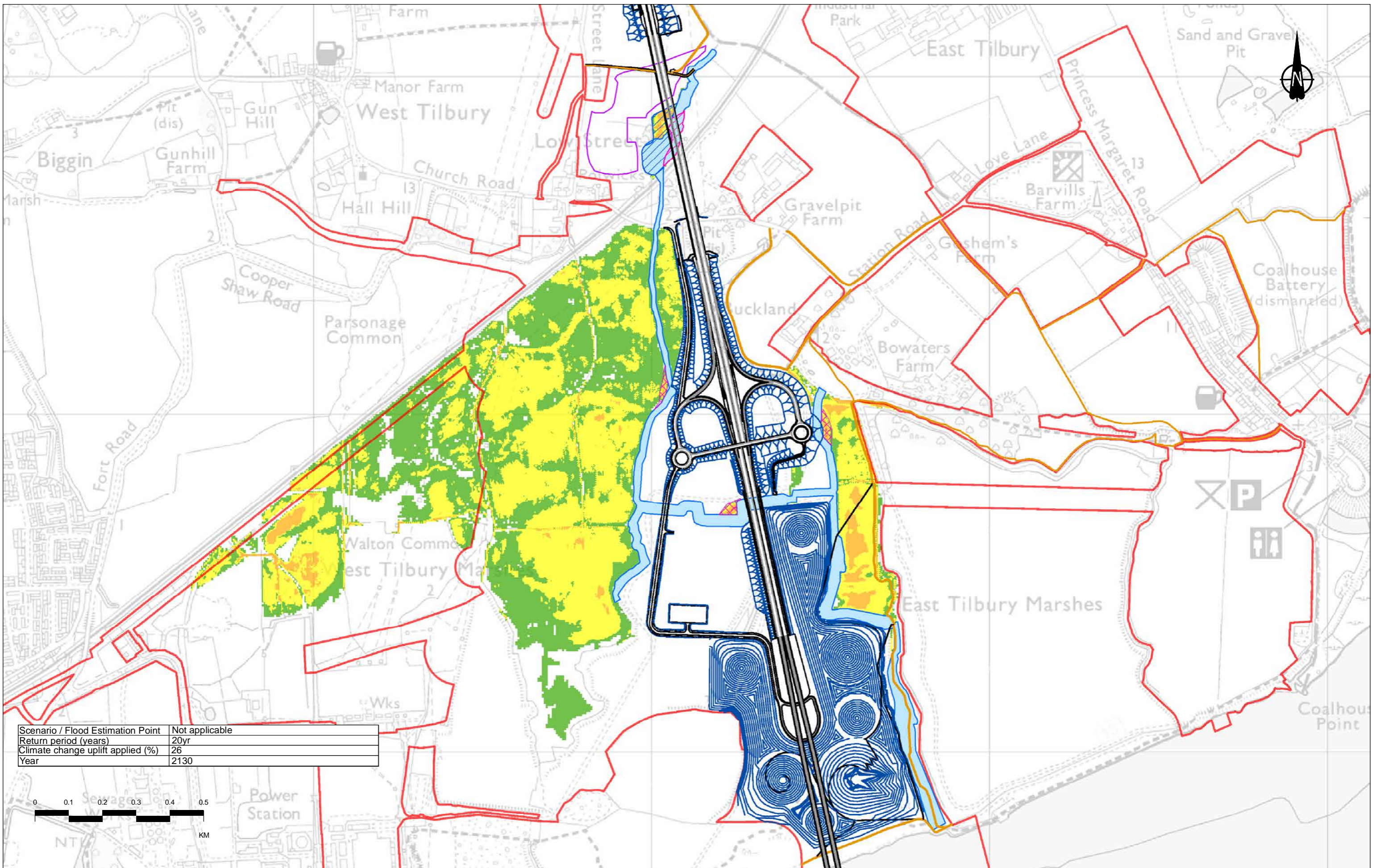


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Proposed LTC alignment	Very low hazard
1D Channel diversions	Earthworks		Danger for some
Compensation area	NMU Routes		Danger for most
Existing reservoir infilled			Danger for all
Revised reservoir footprint			
Order Limits			

		Client	DCO Application	Original Size	A3	Revision	P01
		Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Project	LOWER THAMES CROSSING		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 7 of 15			
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01071				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	26
Year	2130

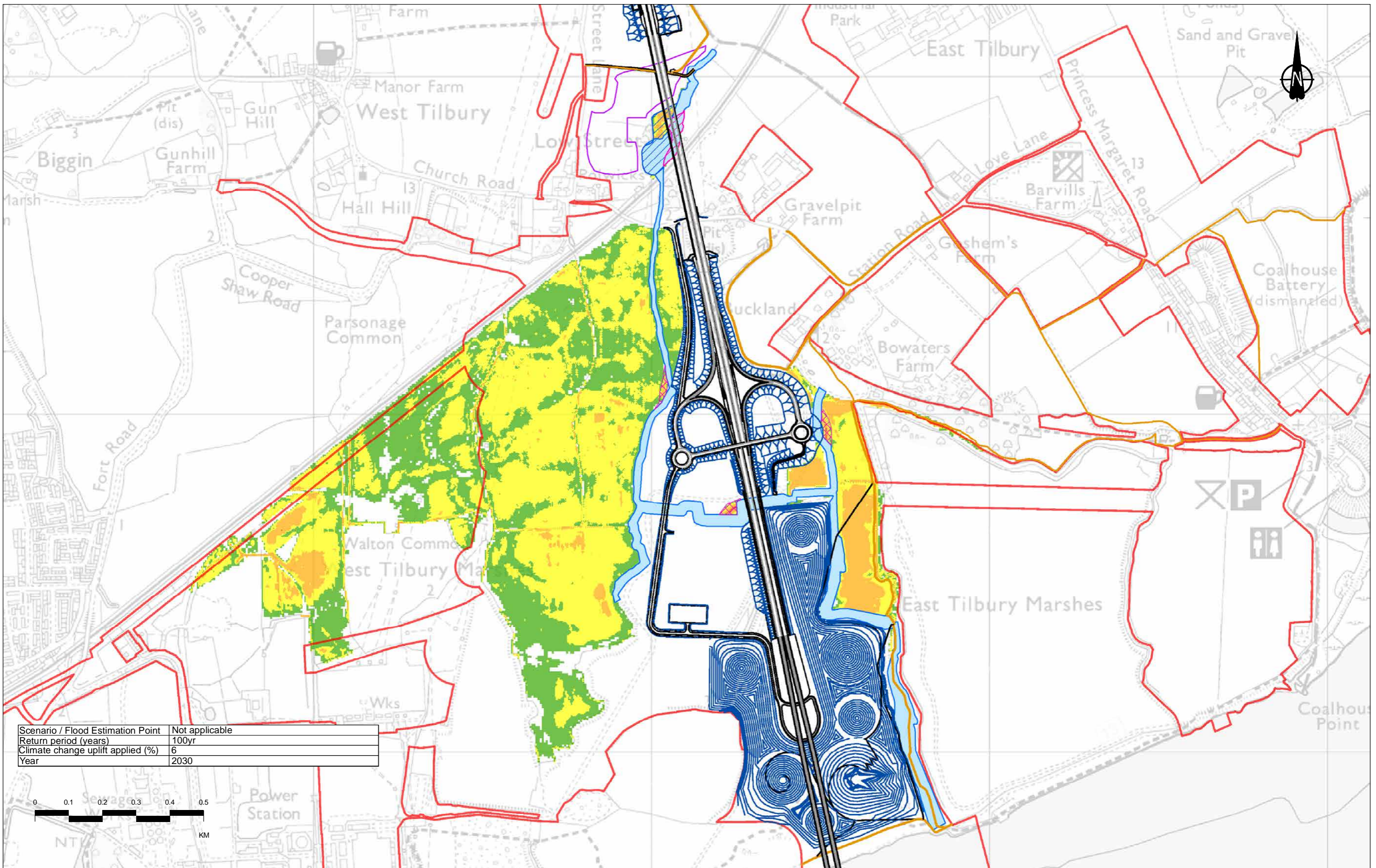


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

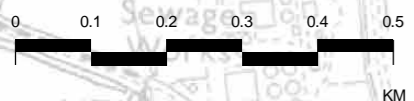
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1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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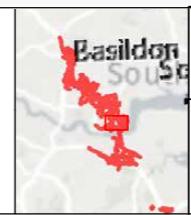
Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

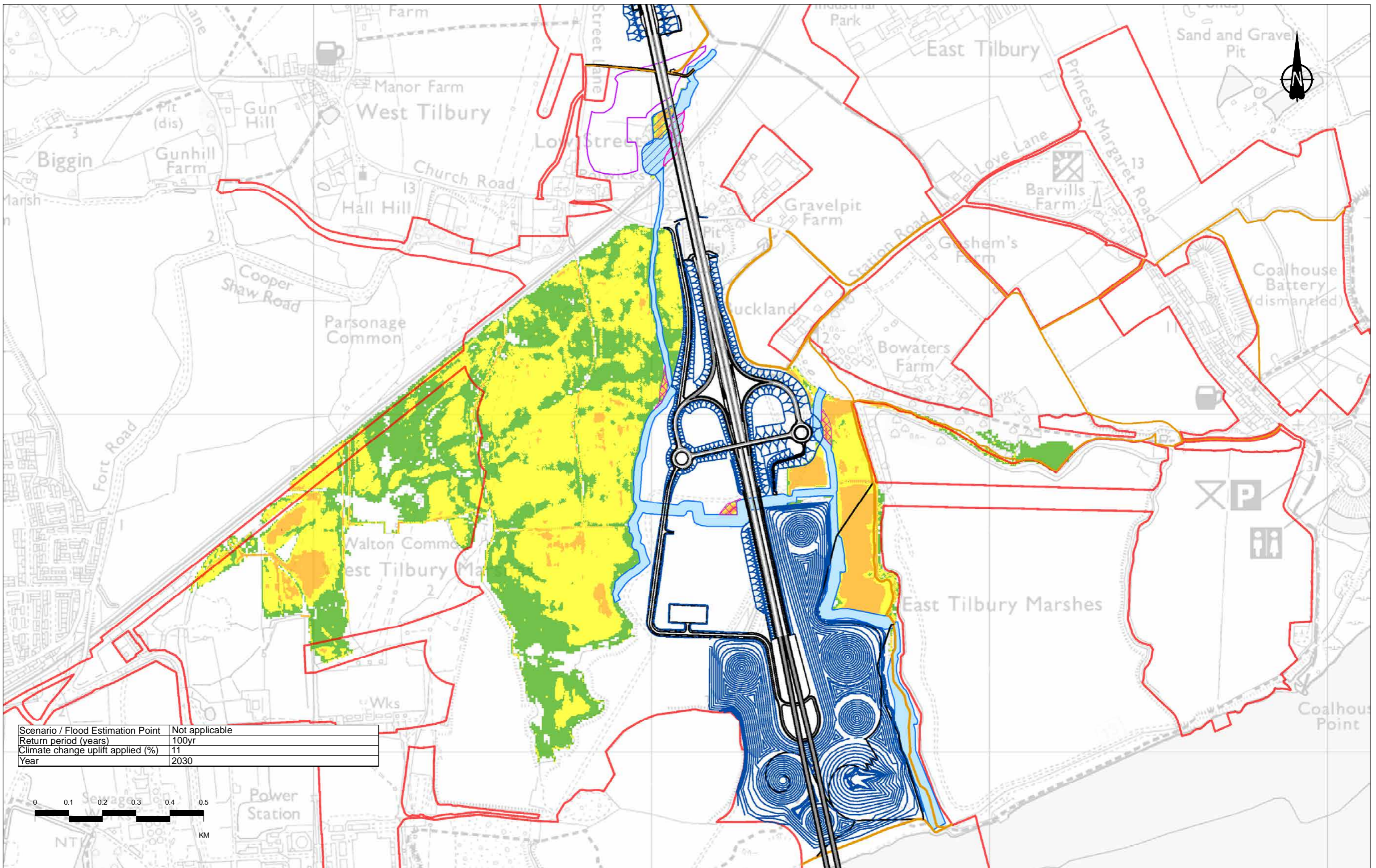
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all



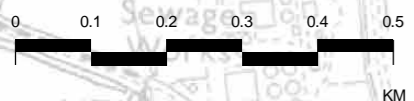
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
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Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 9 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01073				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	11
Year	2030

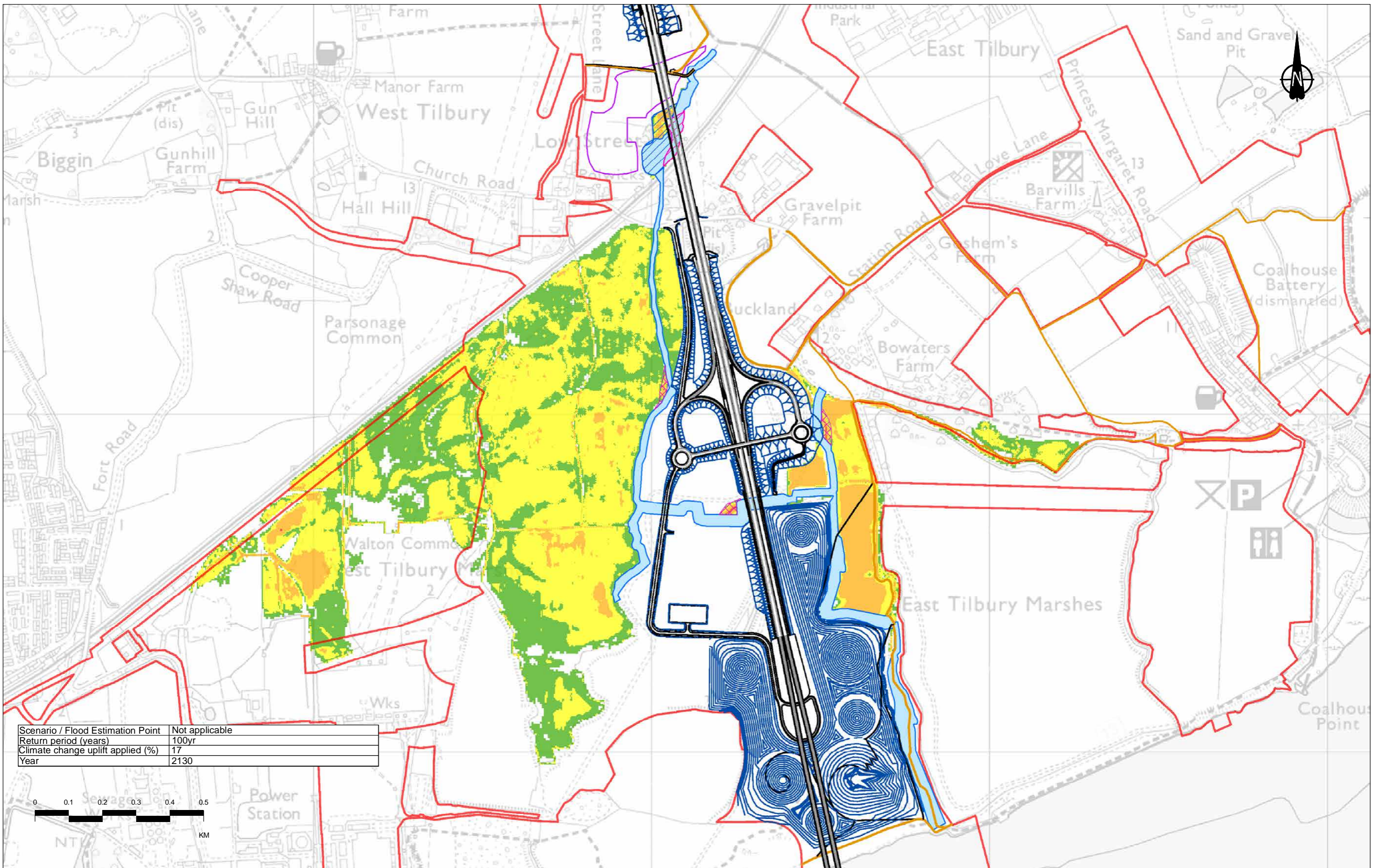


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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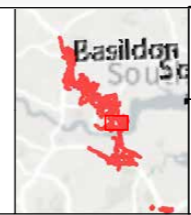
Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd

Legend

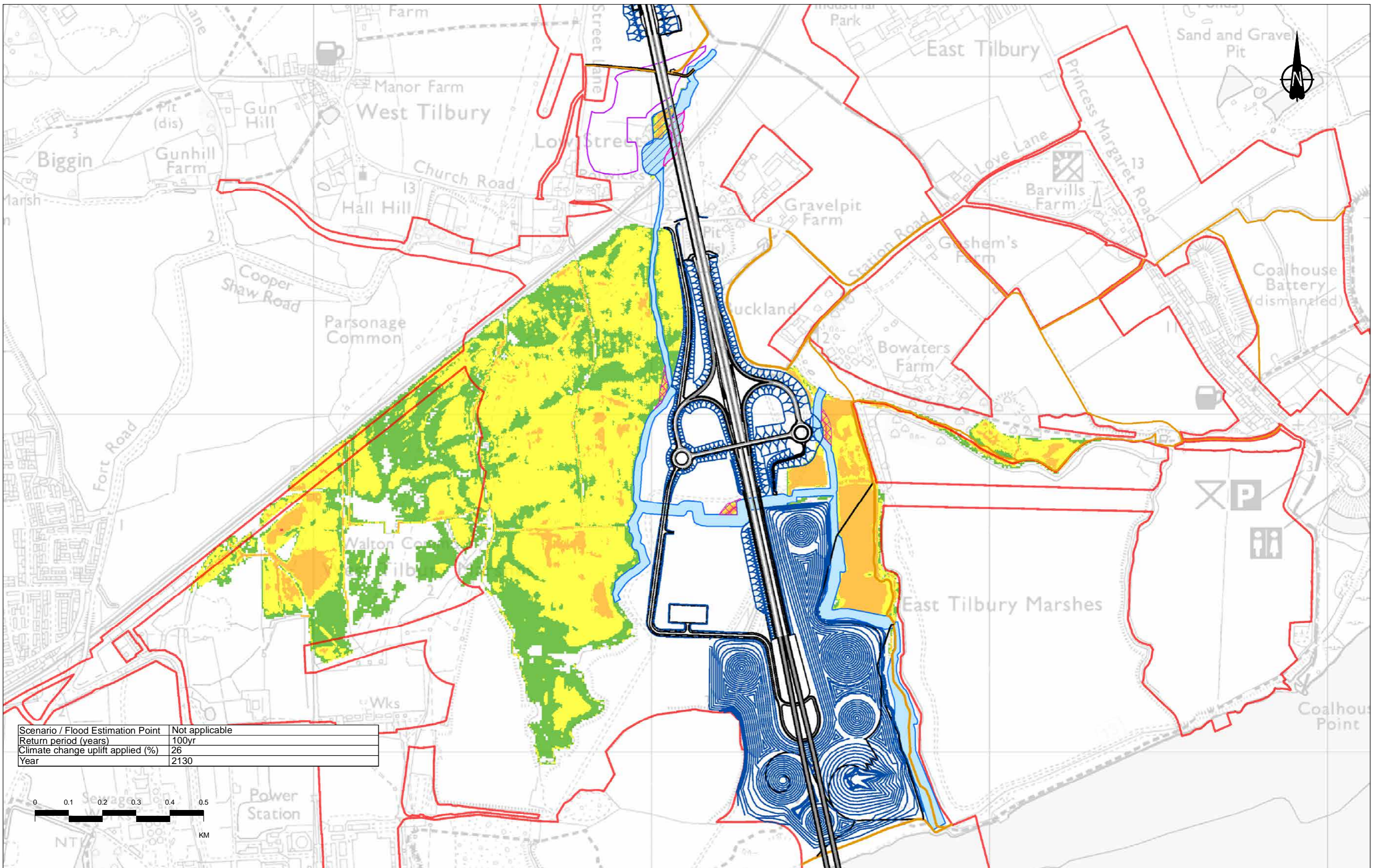
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 11 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01075				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	26
Year	2130

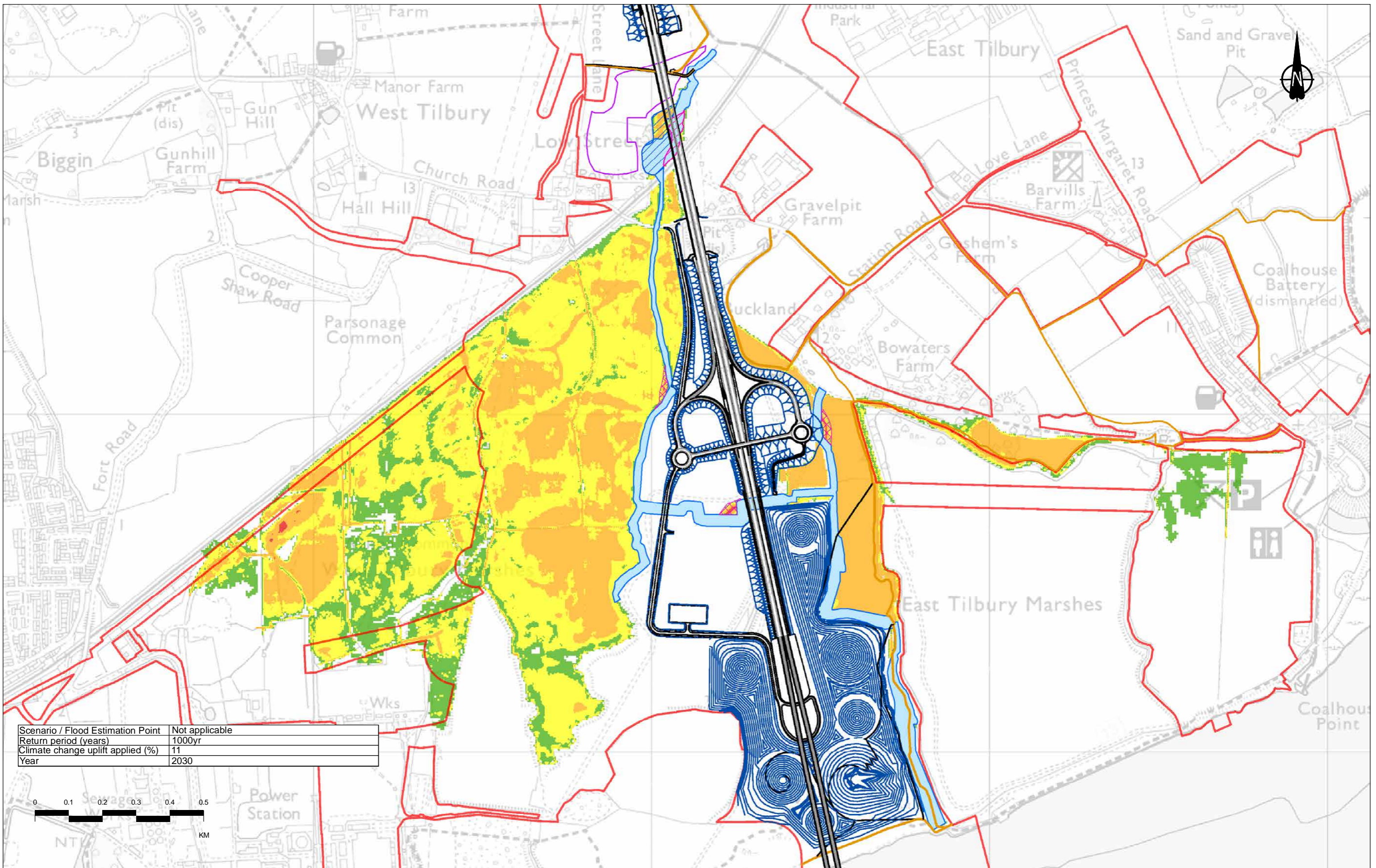


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	11
Year	2030

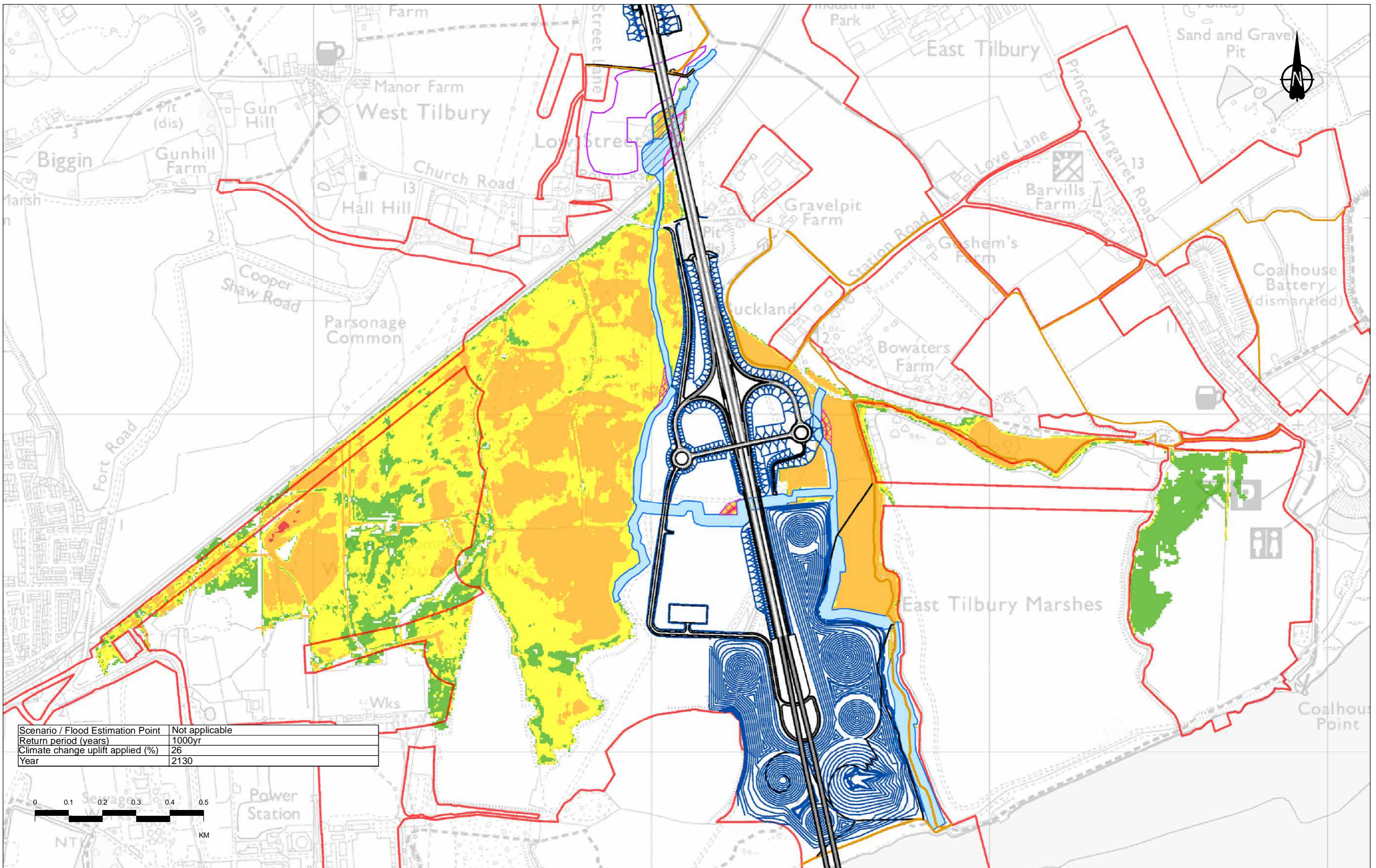


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	26
Year	2130

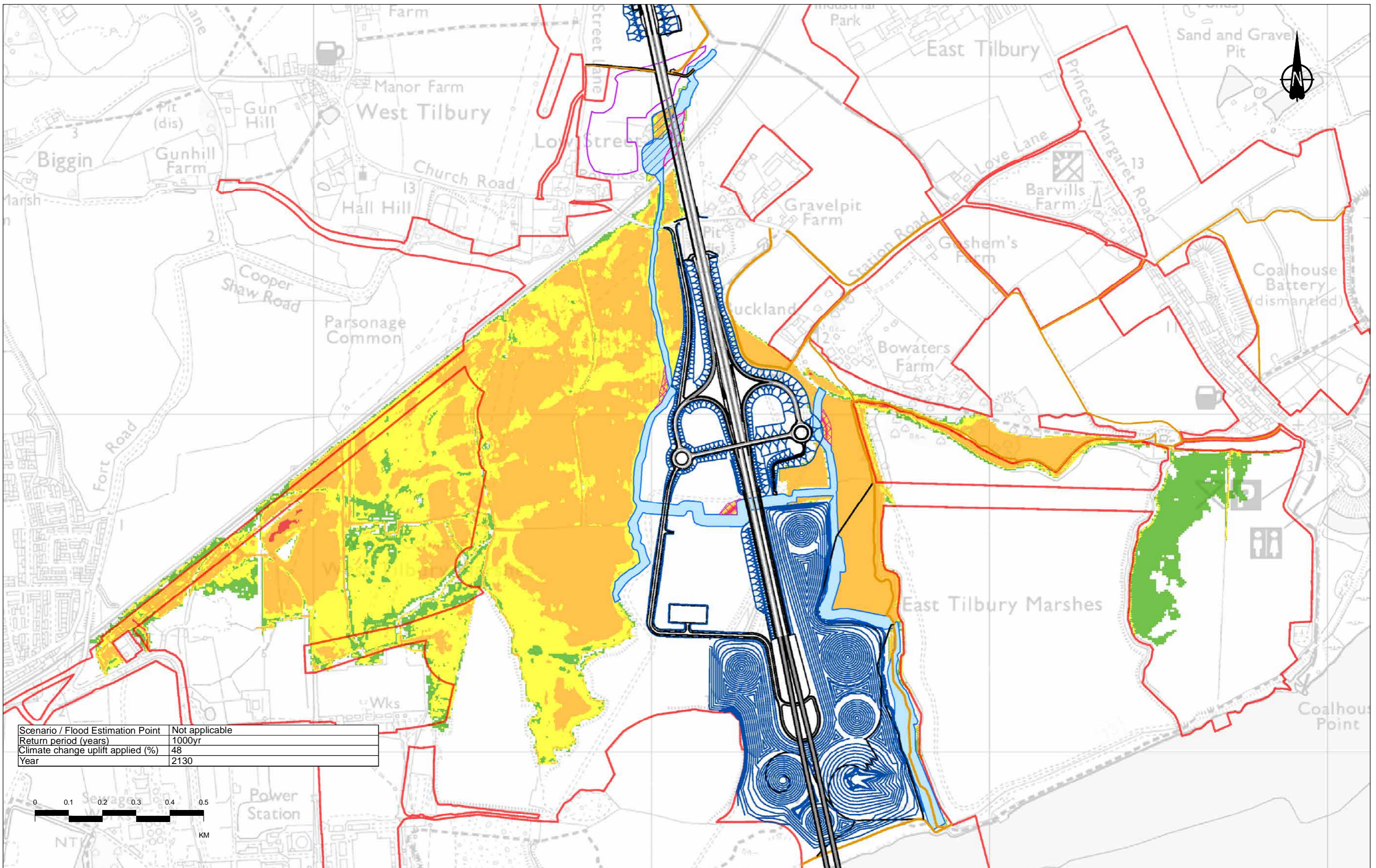


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

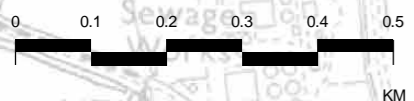
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1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
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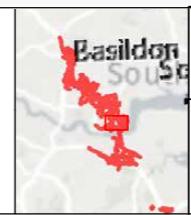
Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	48
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

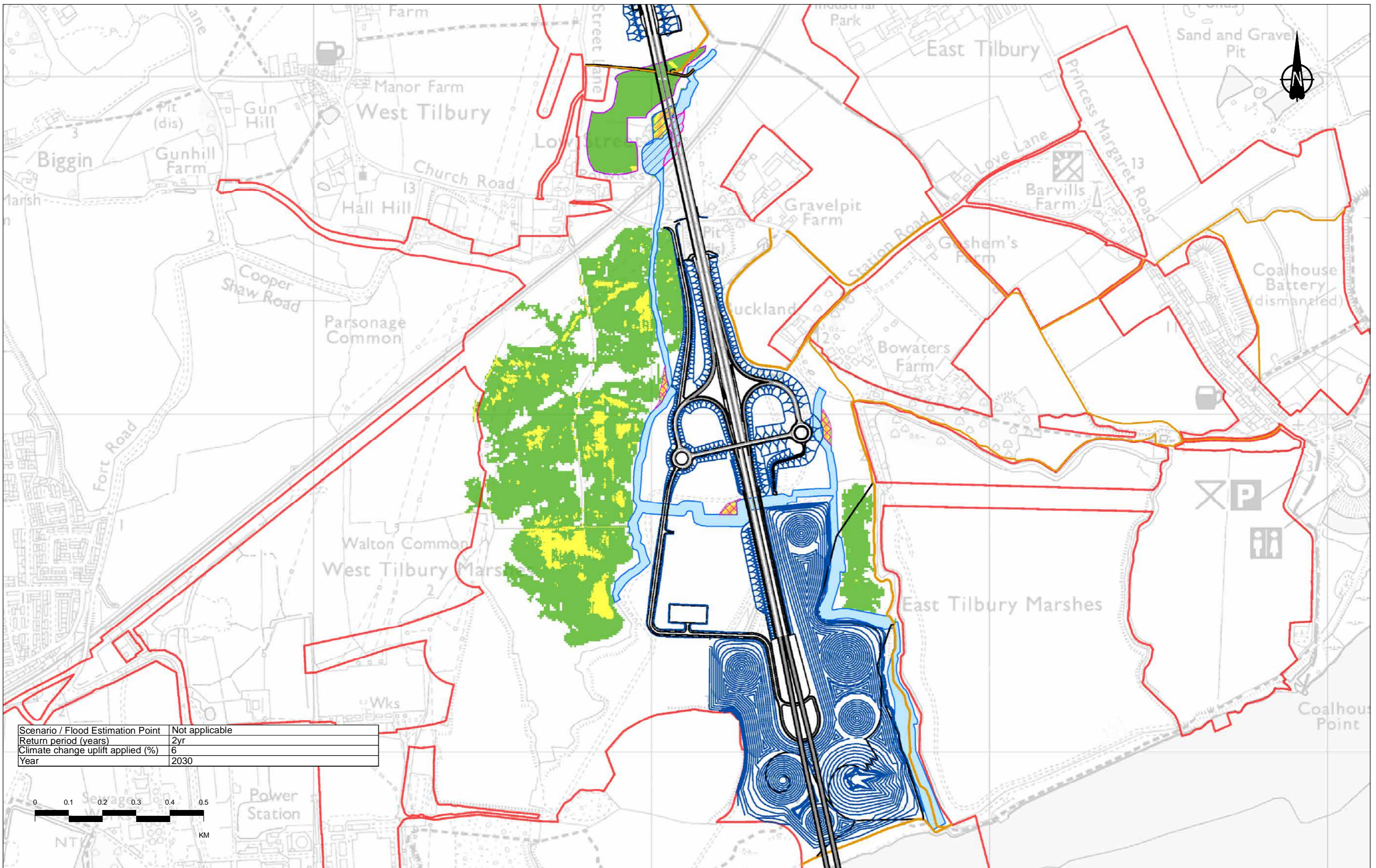
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all



Client:

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (without mitigation) Sheet 15 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01079				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	6
Year	2030

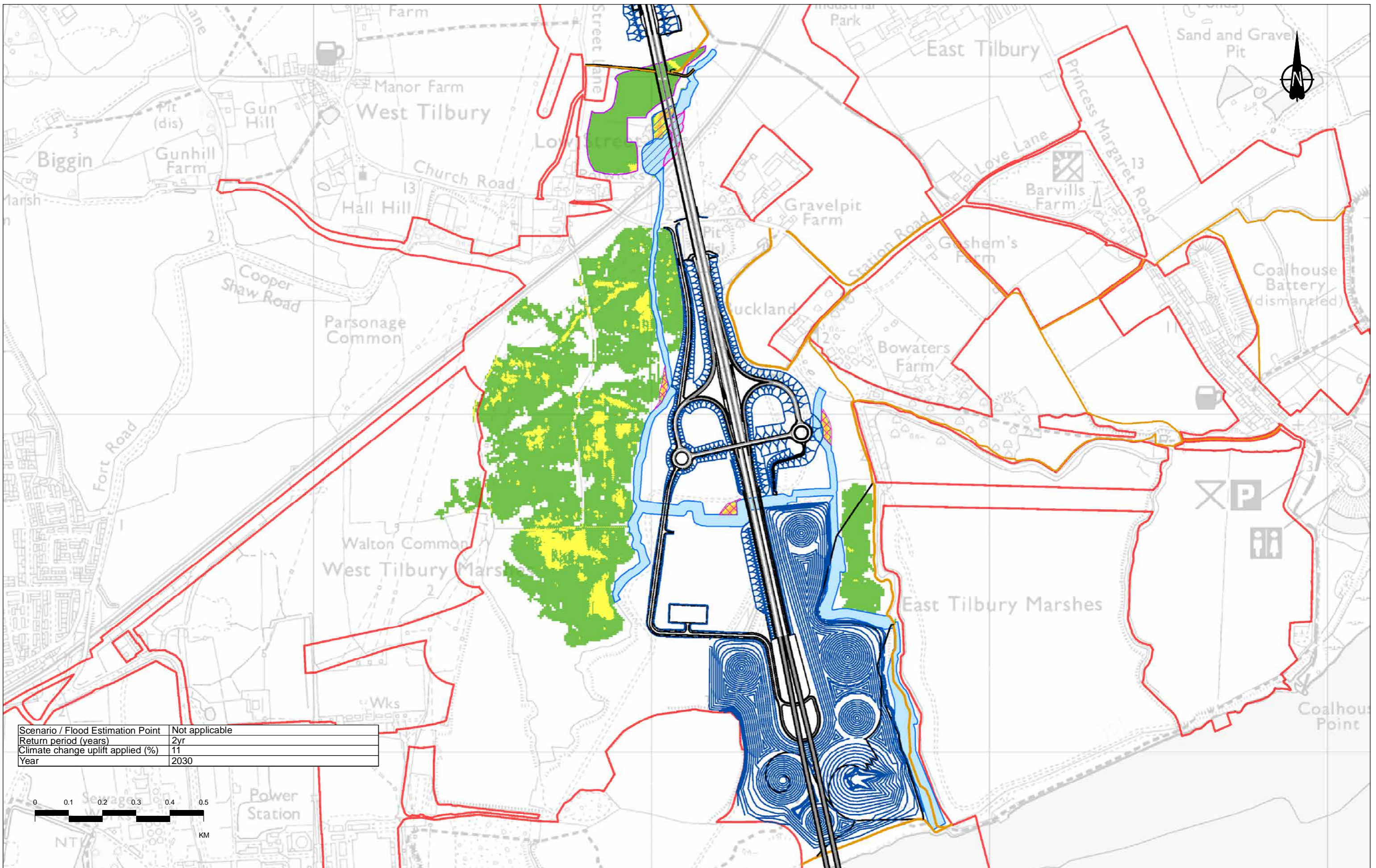


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category: Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Status: DCO Application Application Document Number: TR010032/APP/6.3 Drawing title: FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 1 of 15	Original Size: A3 Revision: P01 Scale: 1:10,000
	Project: LOWER THAMES CROSSING	Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01080	



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	11
Year	2030

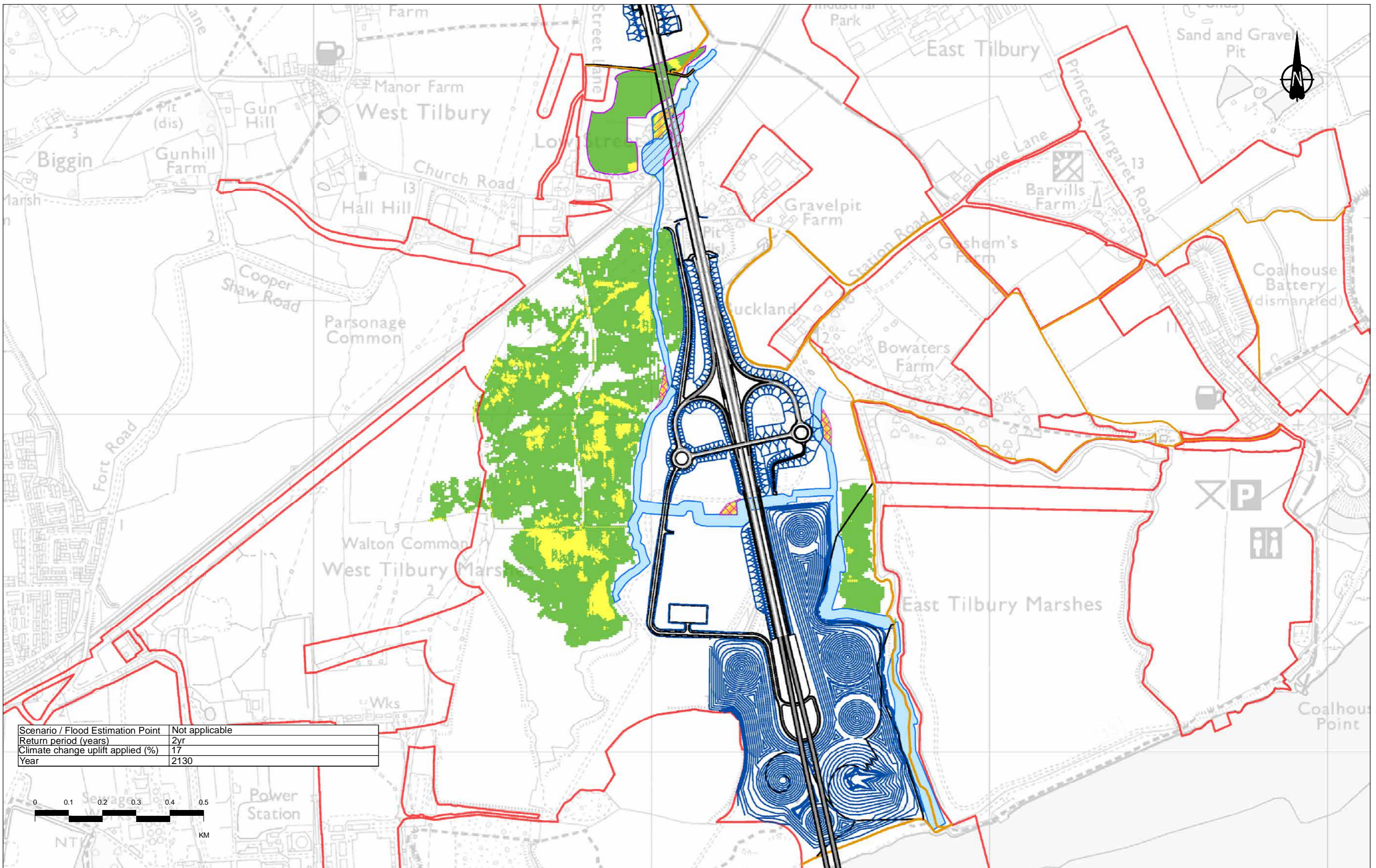


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	Very low hazard
Compensation area	NMU Routes	Danger for some
Existing reservoir infilled		Danger for most
Revised reservoir footprint		Danger for all
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Project		LOWER THAMES CROSSING		Drawing title			FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 2 of 15
				Drawing number			HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01081



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	17
Year	2130

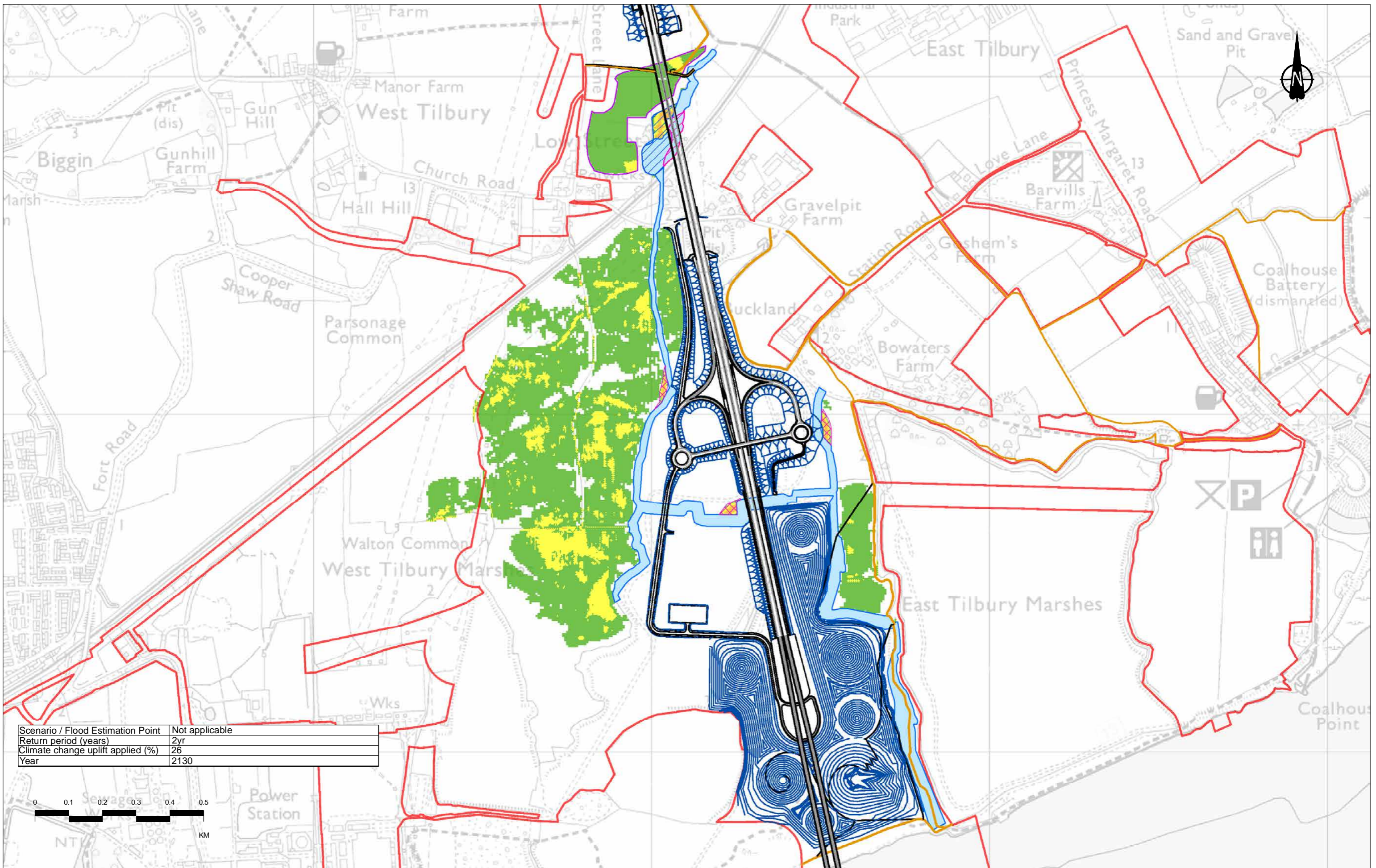


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category: Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 3 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01082				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2yr
Climate change uplift applied (%)	26
Year	2130

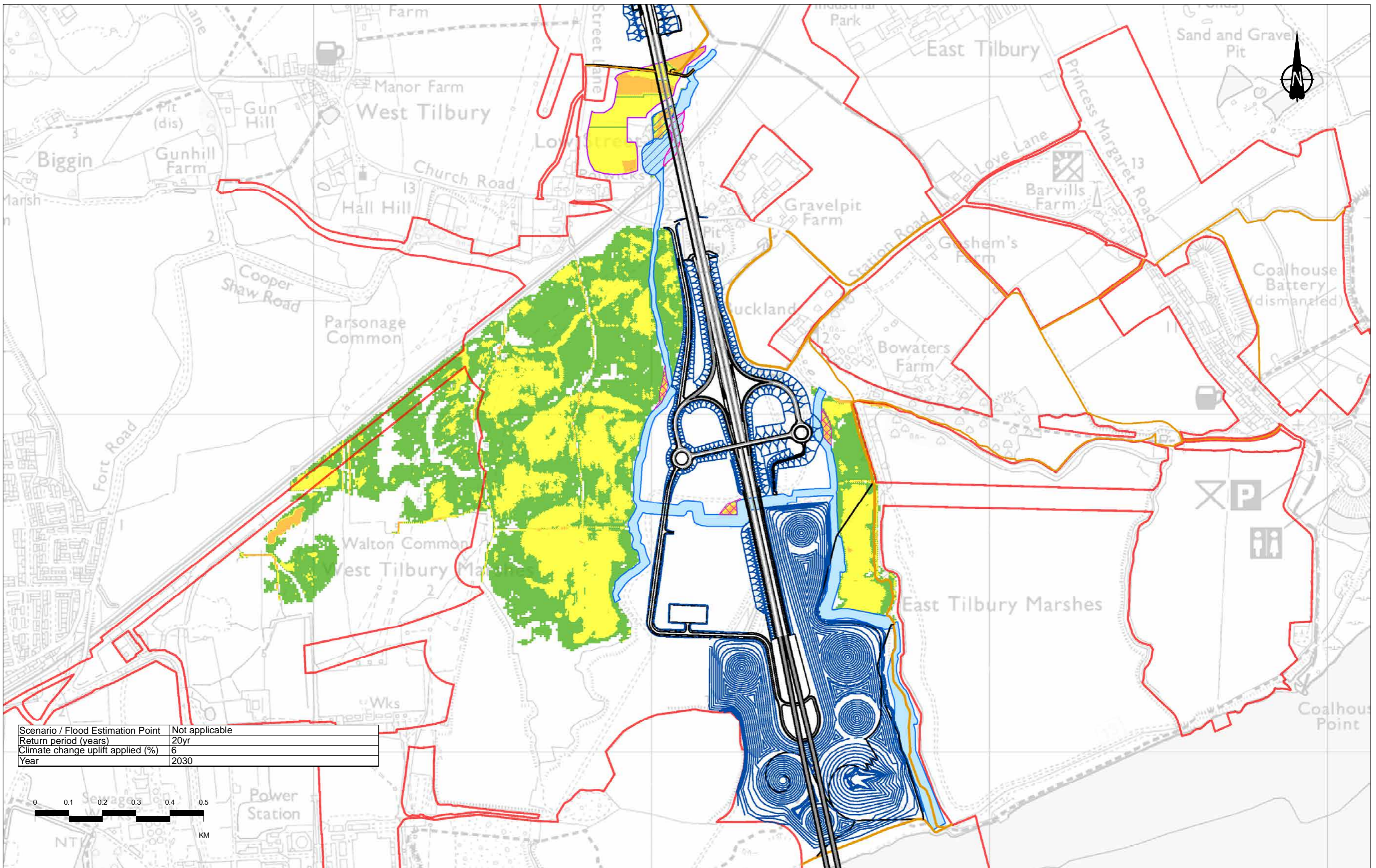


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 4 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01083				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	6
Year	2030

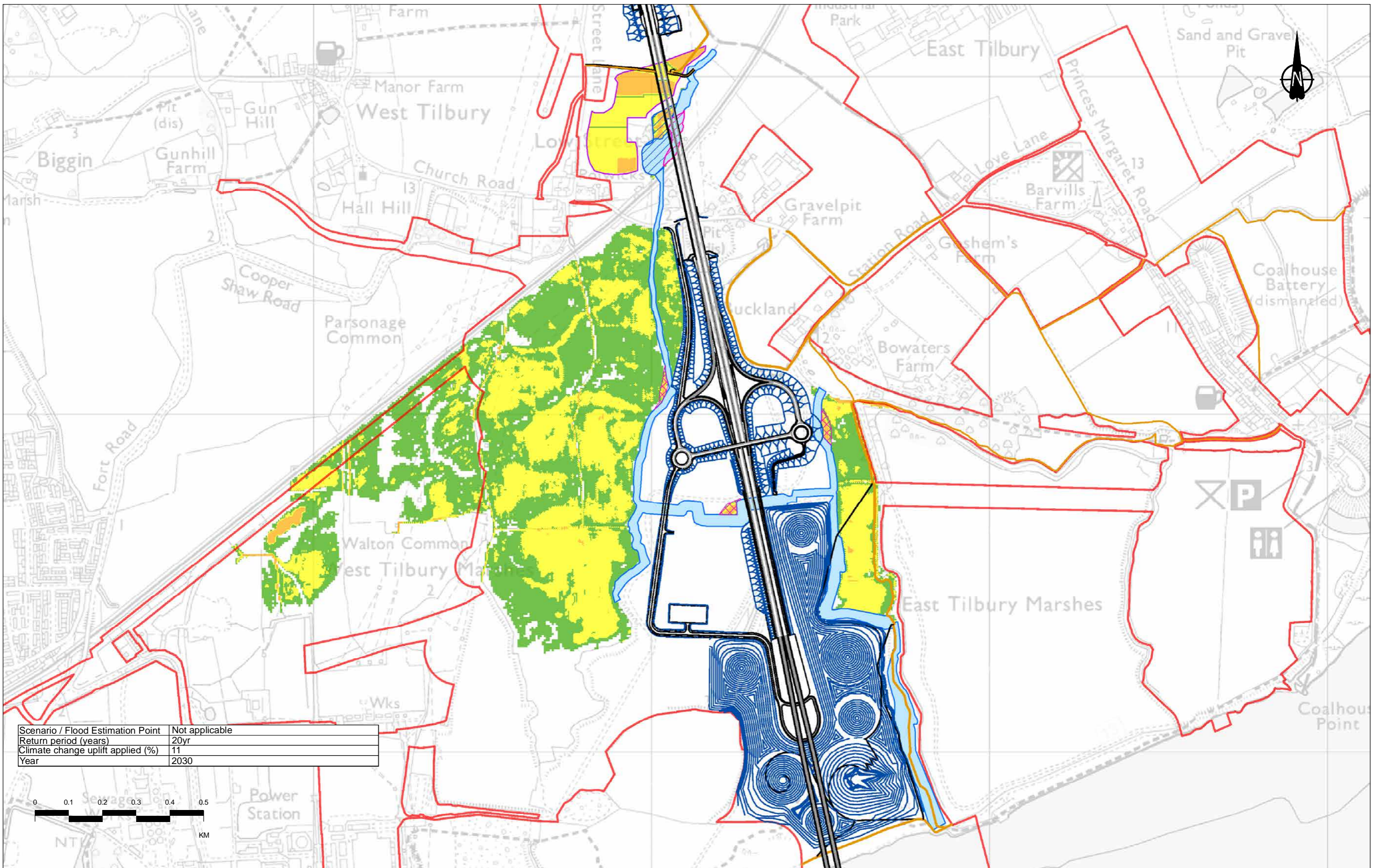


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category: Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Status: DCO Application Application Document Number: TR010032/APP/6.3 Drawing title: FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 5 of 15 Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01084	Original Size: A3 Revision: P01 Scale: 1:10,000
	Client: LOWER THAMES CROSSING		



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	11
Year	2030

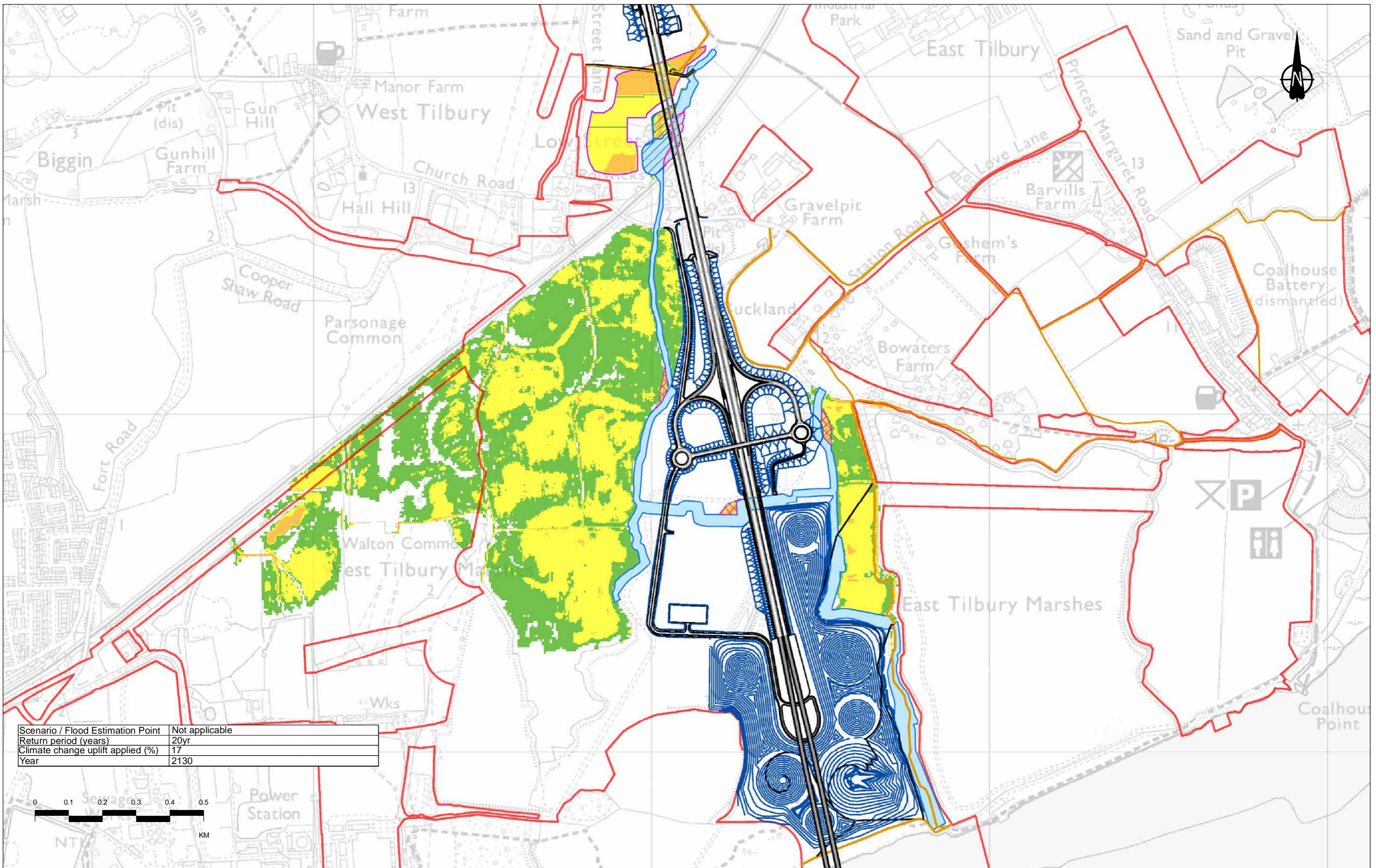


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

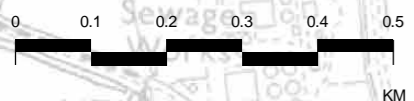
Legend

1D Channel	Alignment	Proposed LTC alignment	Maximum flood hazard category
1D Channel diversions	Earthworks		
Compensation area	NMU Routes		
Existing reservoir infilled	Very low hazard		
Revised reservoir footprint	Danger for some		
Order Limits	Danger for most	Danger for all	

		Client DCO Application	Original Size A3	Revision P01
	Project LOWER THAMES CROSSING	Application Document Number TR010032/APP/6.3	Scale 1:10,000	
	Drawing title FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 6 of 15			
	Drawing number HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01085			



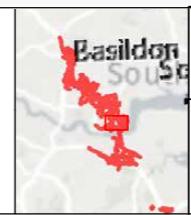
Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	17
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

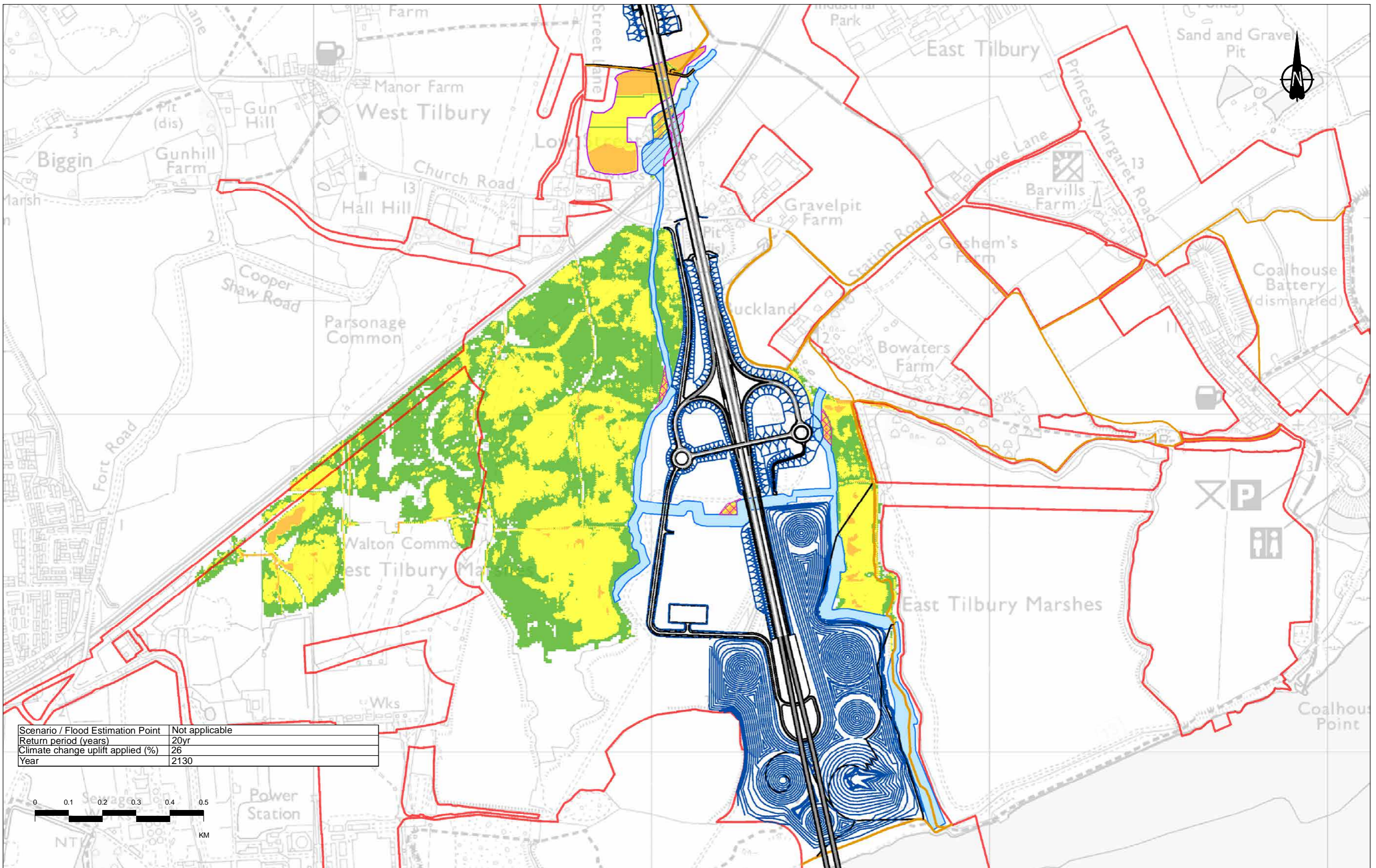
1D Channel	Proposed LTC alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 7 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01086				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20yr
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

- 1D Channel (Blue hatched)
- 1D Channel diversions (Pink hatched)
- Compensation area (Purple hatched)
- Existing reservoir infilled (Red hatched)
- Revised reservoir footprint (Blue hatched)
- Order Limits (Red outline)

Proposed LTC alignment

- Alignment (Grey line)
- Earthworks (Blue line)
- NMU Routes (Yellow line)

Maximum flood hazard category

- Very low hazard (Green)
- Danger for some (Yellow)
- Danger for most (Orange)
- Danger for all (Red)

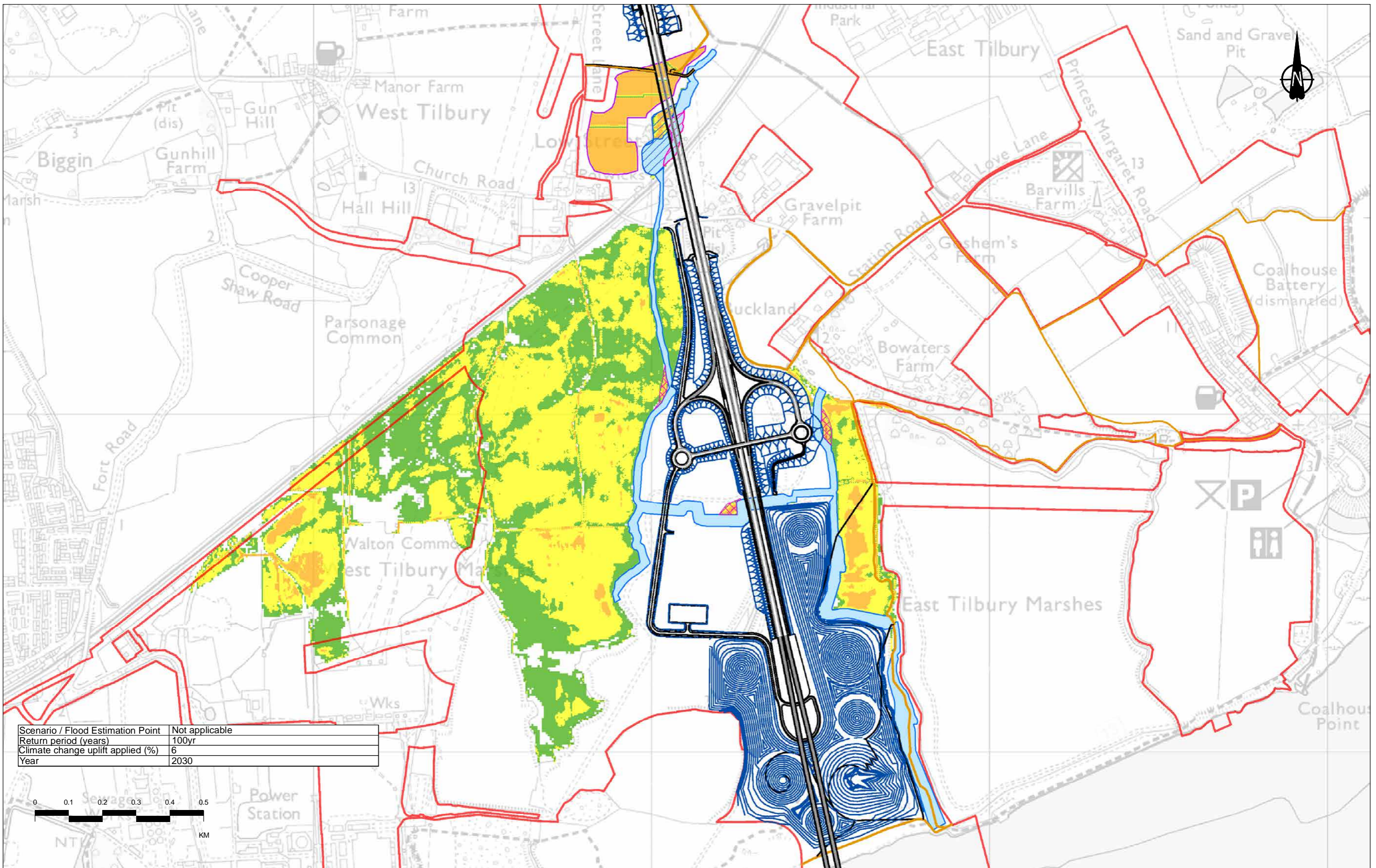
Basildon South

national highways

LOWER THAMES CROSSING

Client: DCO Application
 Application Document Number: TR010032/APP/6.3
 Drawing title: FRA - Tilbury Modelling Results
 Maximum flood hazard category
 Post-development (with mitigation)
 Sheet 8 of 15
 Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01087

Original Size: A3
 Revision: P01
 Scale: 1:110,000



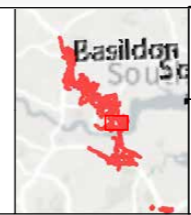
Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

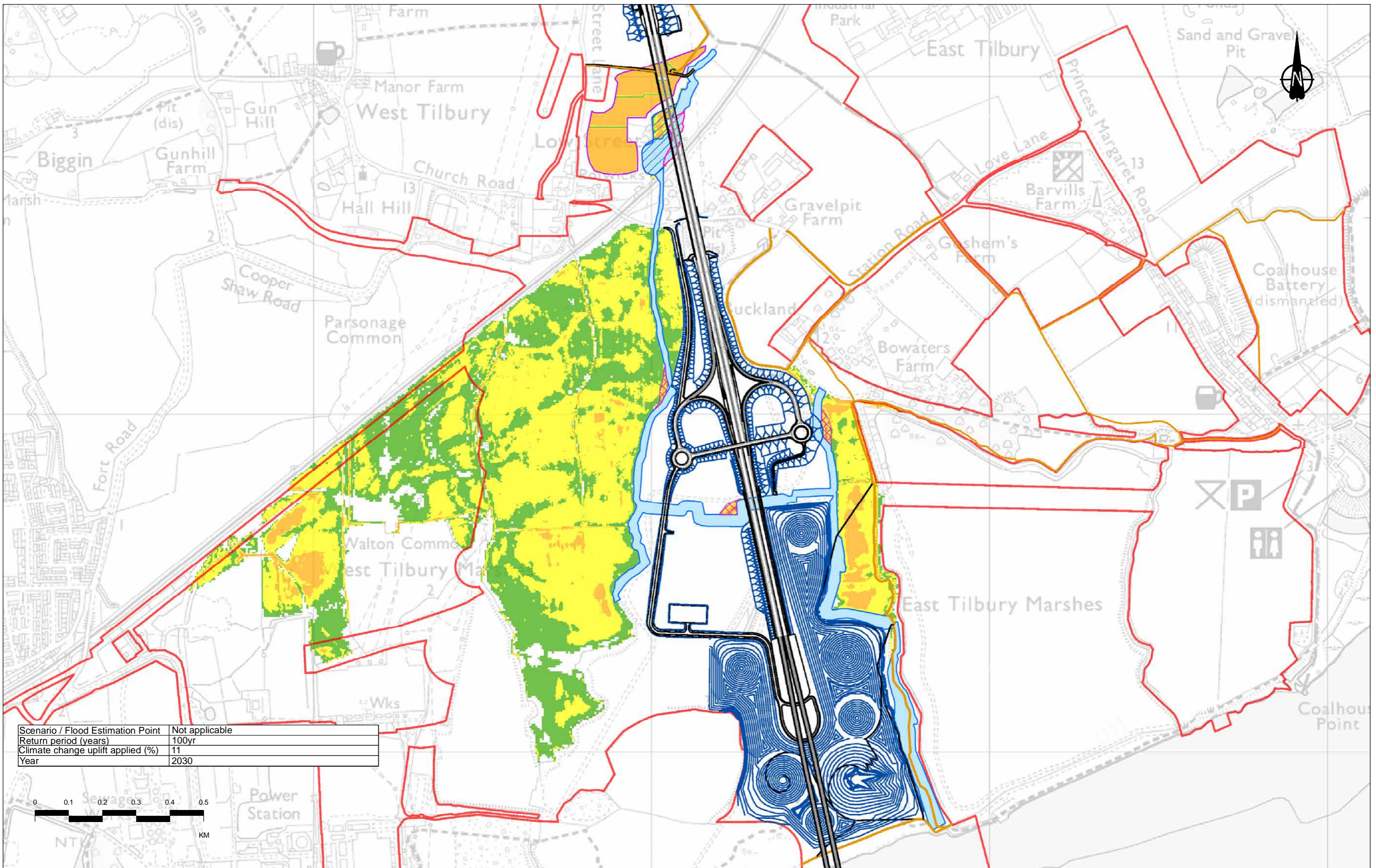
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all



Client:

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 9 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01088				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	11
Year	2030

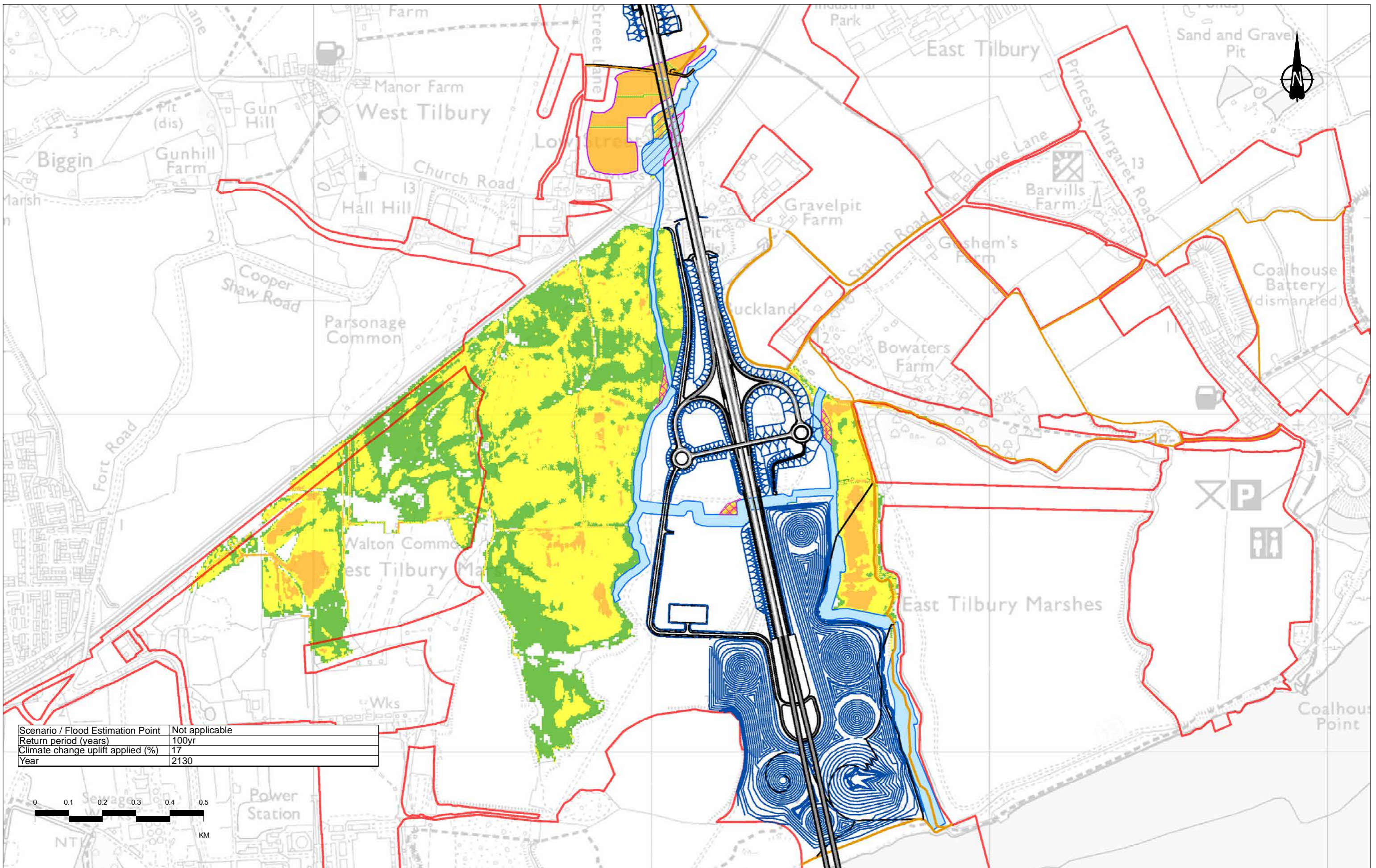


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

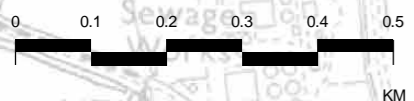
Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 10 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01089				



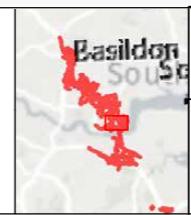
Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	17
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

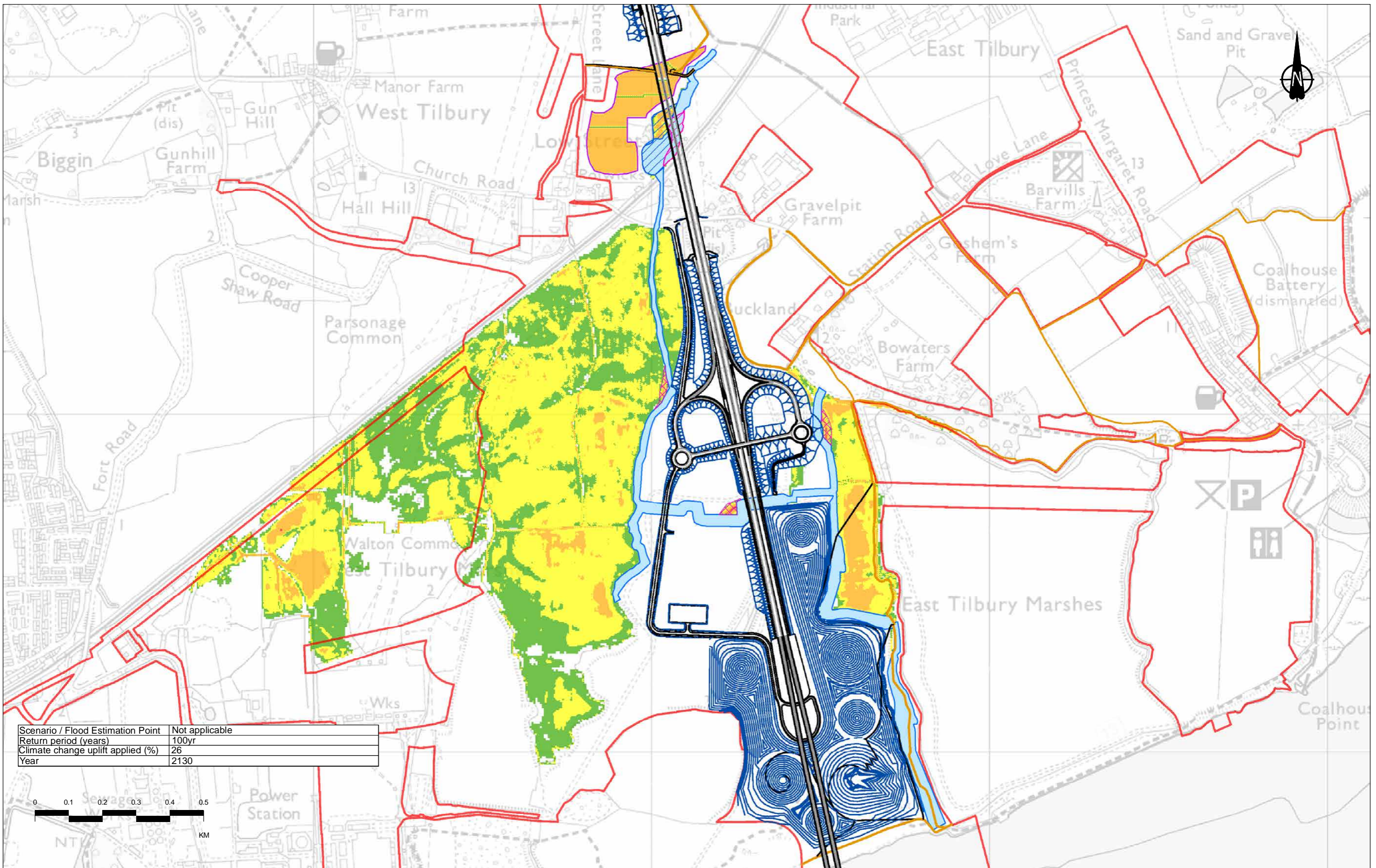
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all



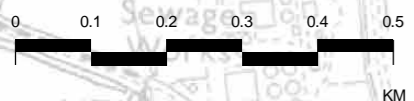
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 11 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01090				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100yr
Climate change uplift applied (%)	26
Year	2130

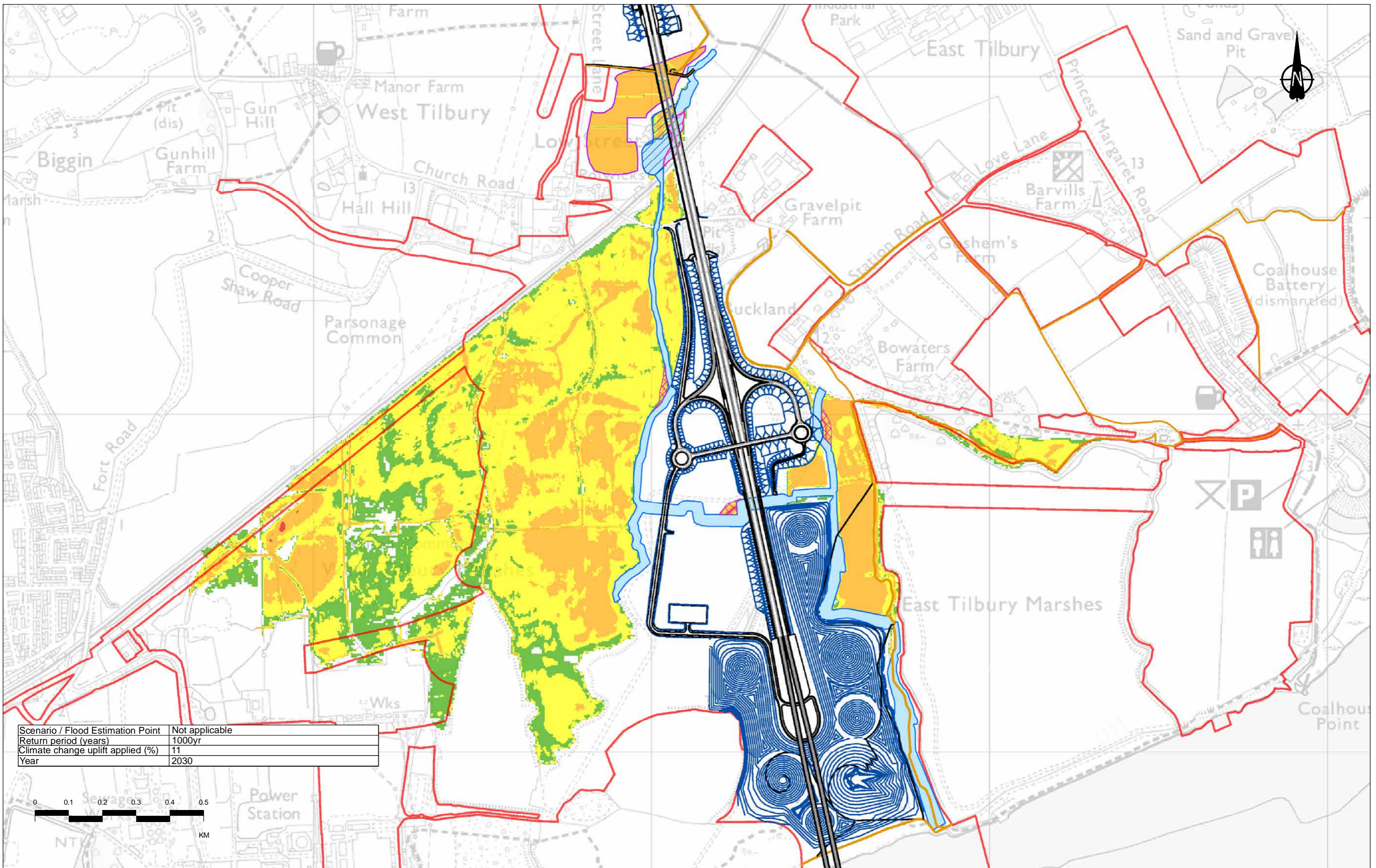


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

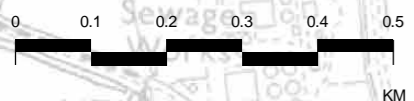
Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 12 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01091				



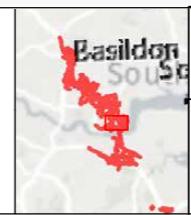
Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

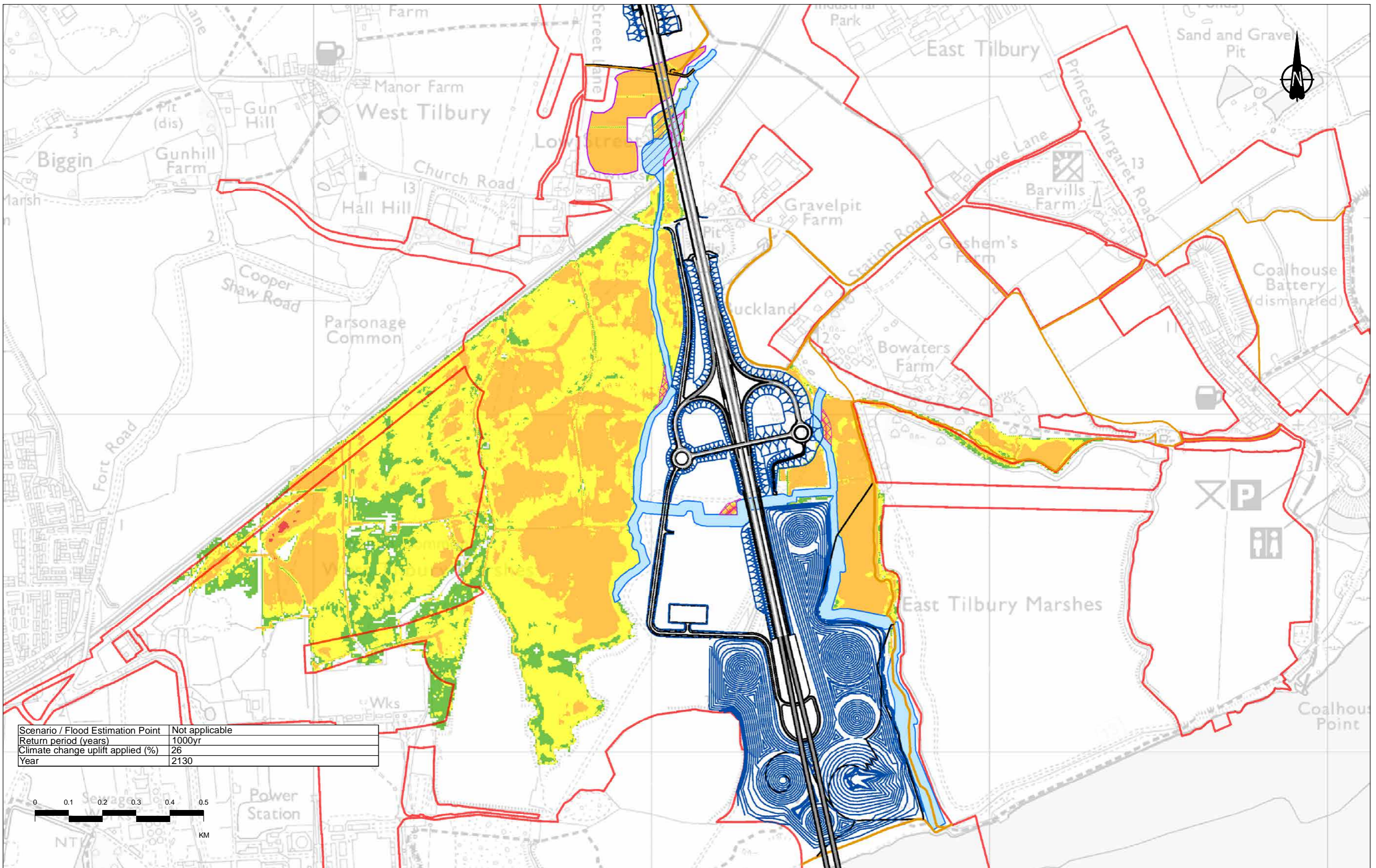
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 13 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01092				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	26
Year	2130

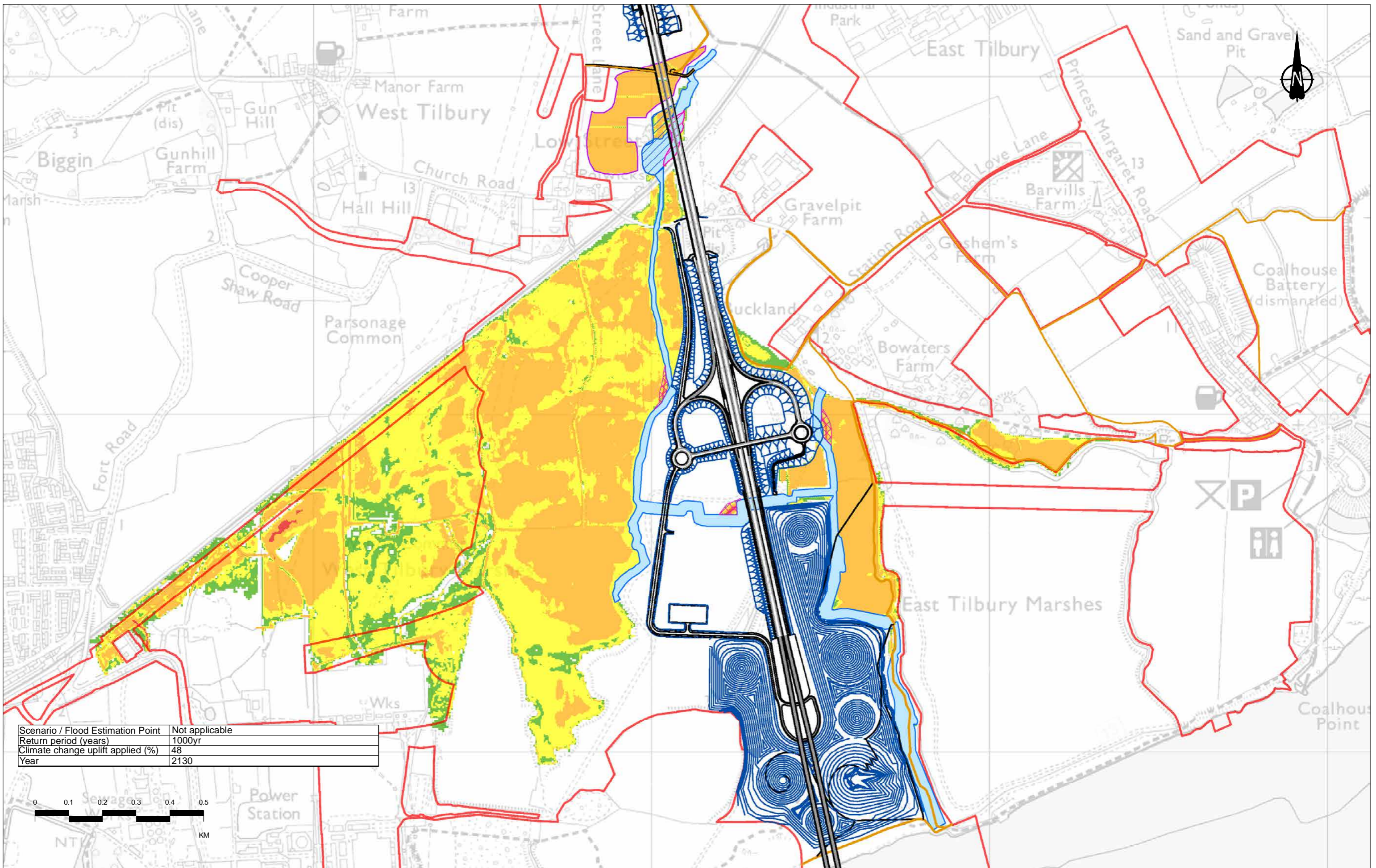


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		Very low hazard
Order Limits		Danger for some
		Danger for most
		Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:110,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 14 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01093				



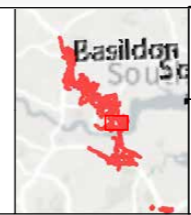
Scenario / Flood Estimation Point	Not applicable
Return period (years)	1000yr
Climate change uplift applied (%)	48
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

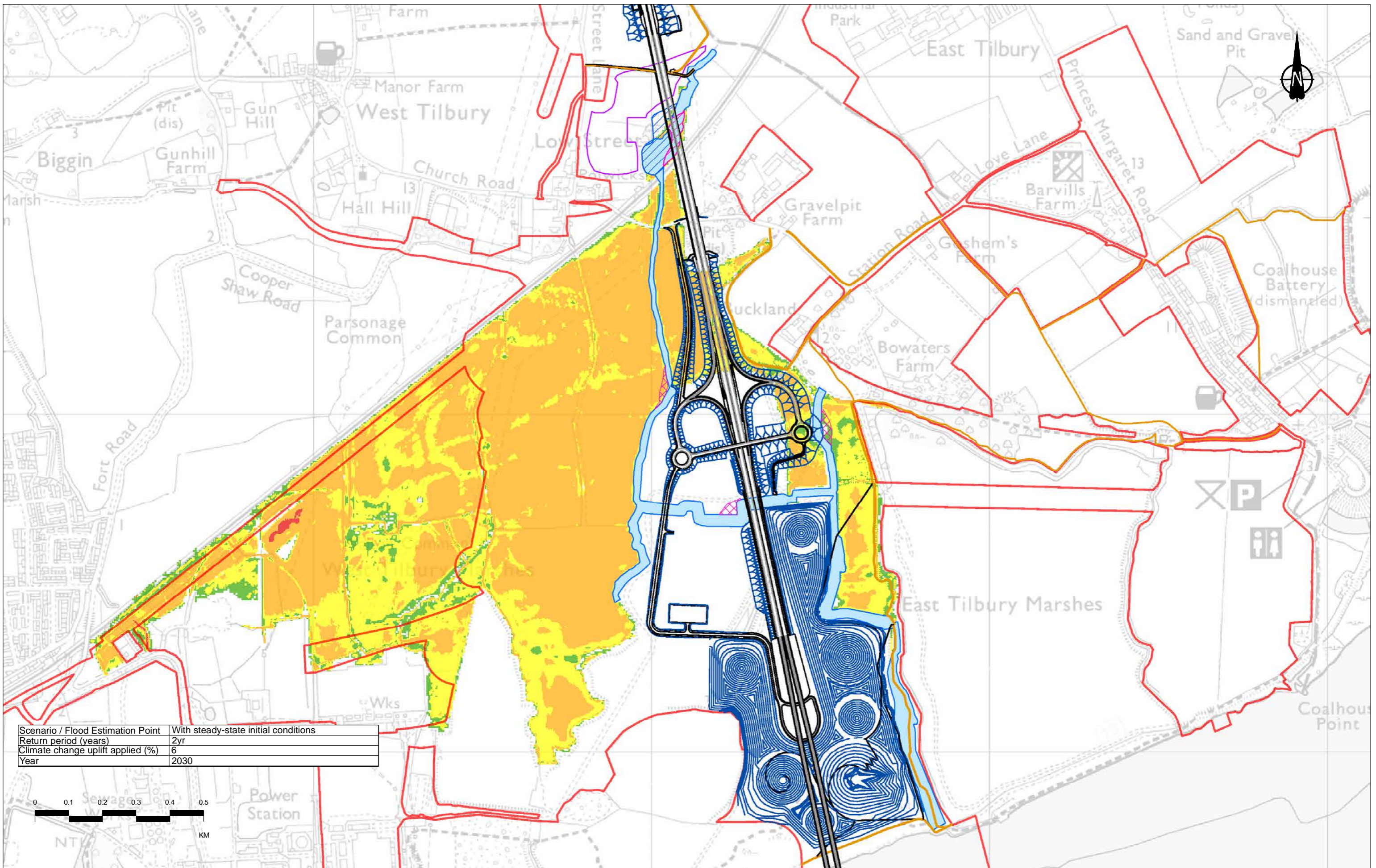
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



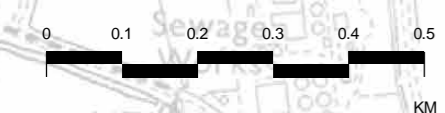
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 15 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01094				



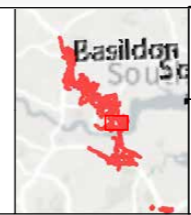
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	6
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

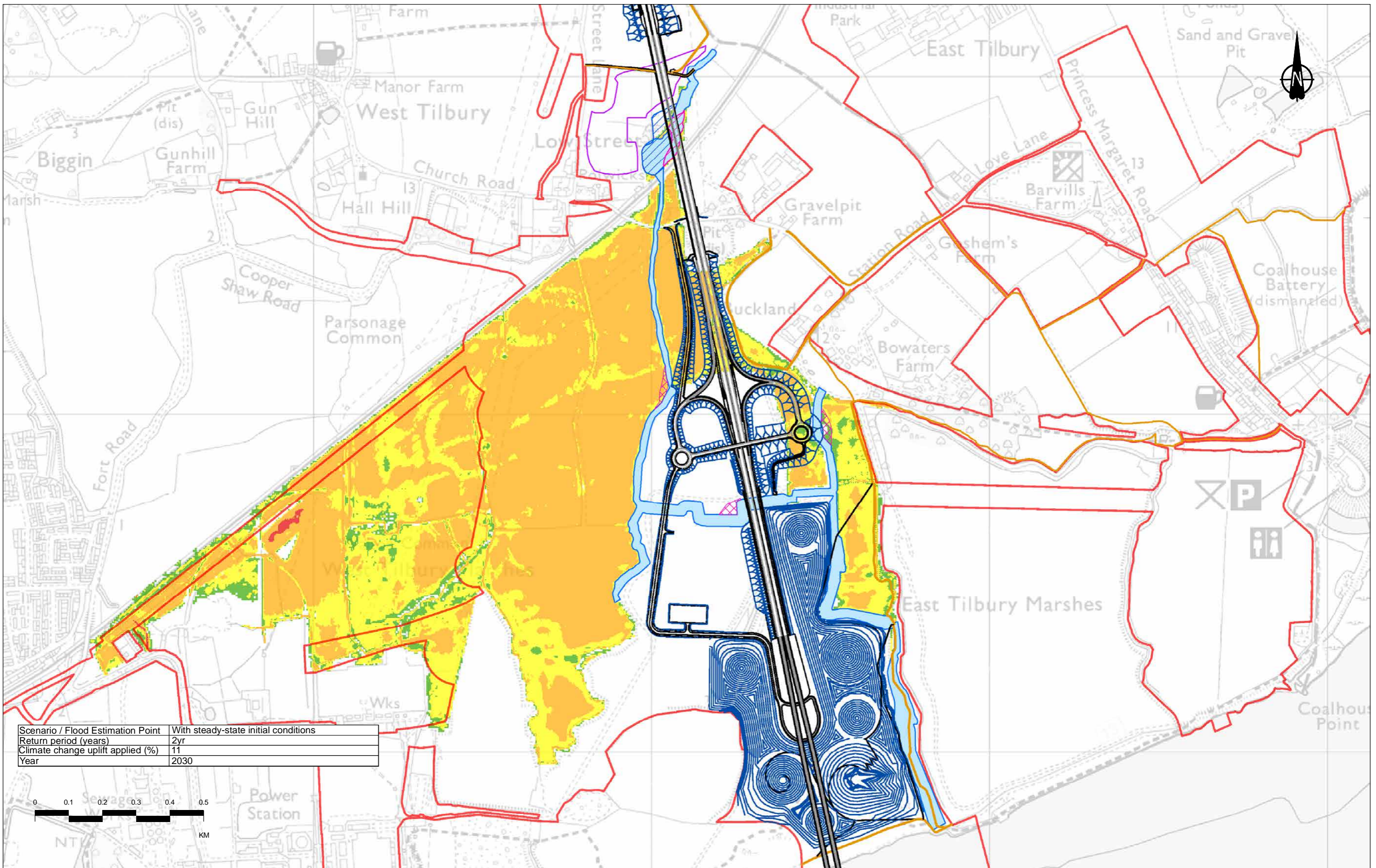
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 1 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01095				



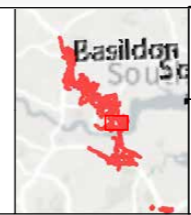
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	11
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

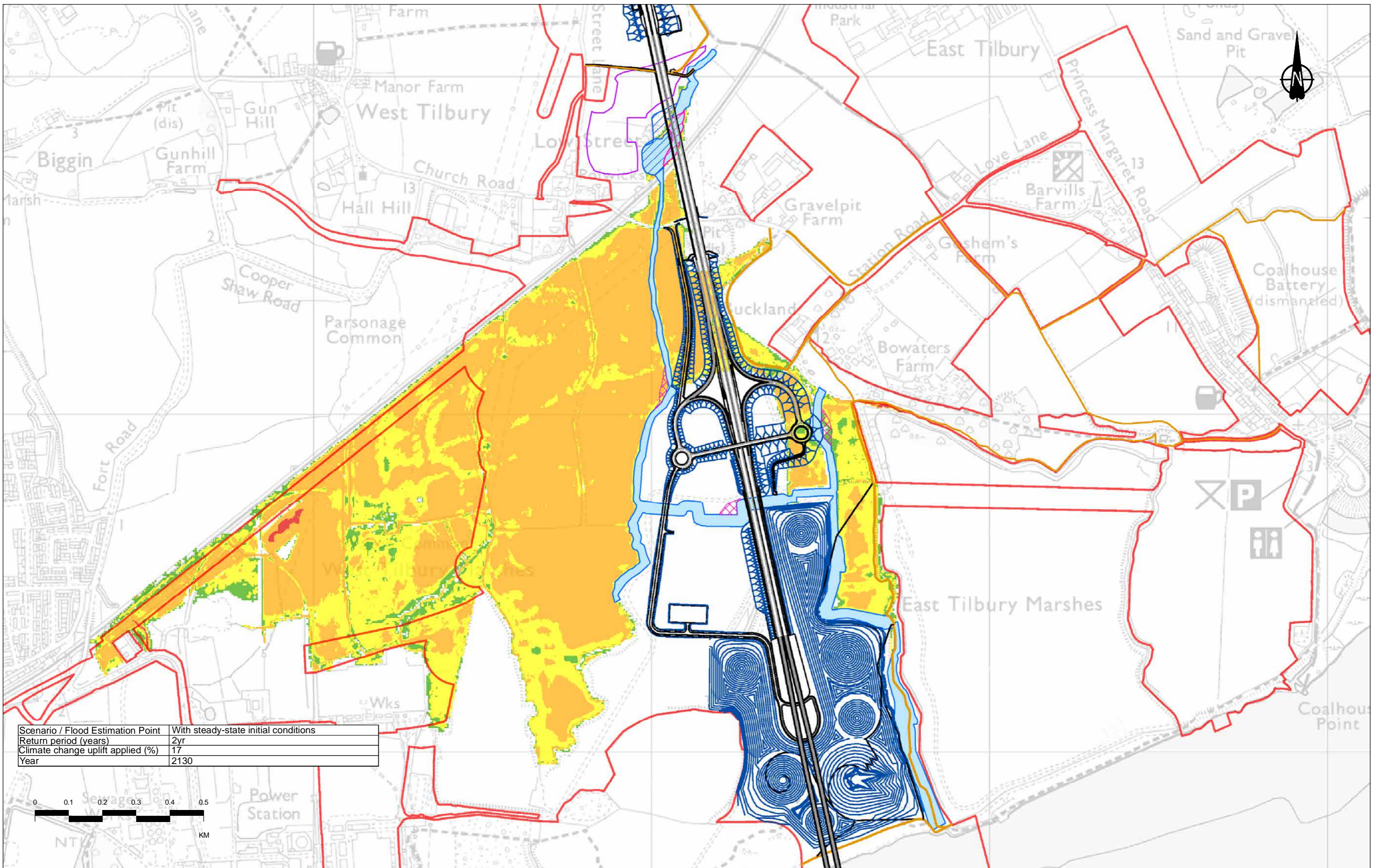
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



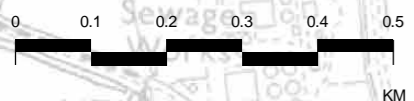
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 2 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01096				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	17
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

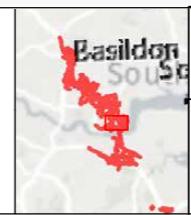
- 1D Channel (Blue line)
- 1D Channel diversions (Pink hatched)
- Compensation area (Purple hatched)
- Existing reservoir infilled (Pink hatched)
- Revised reservoir footprint (Blue hatched)
- Order Limits (Red outline)

Proposed LTC alignment

- Alignment (Black line)
- Earthworks (Blue line)
- NMU Routes (Orange line)

Maximum flood hazard category

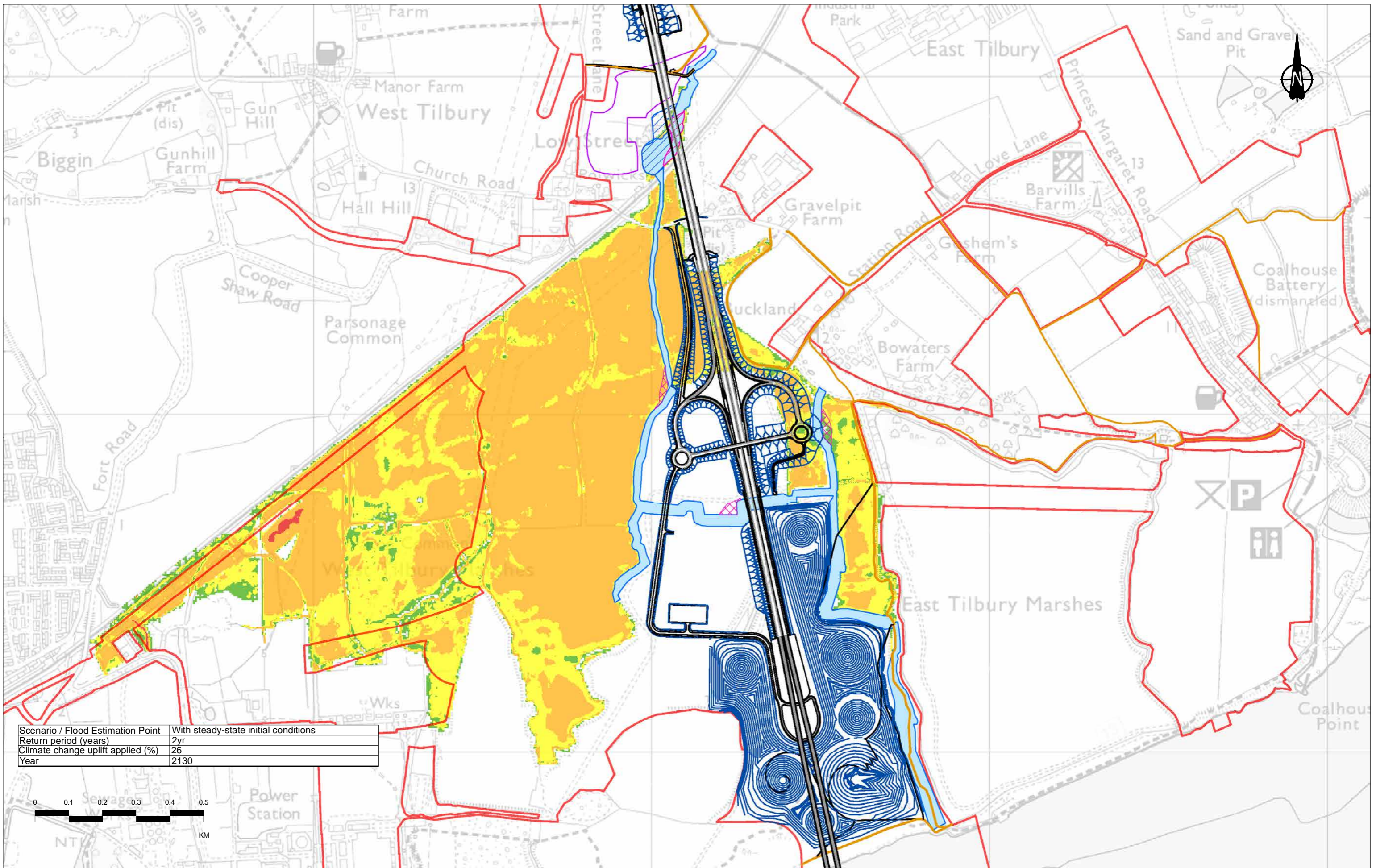
- Very low hazard (Green)
- Danger for some (Yellow)
- Danger for most (Orange)
- Danger for all (Red)



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 3 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01097				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	26
Year	2130

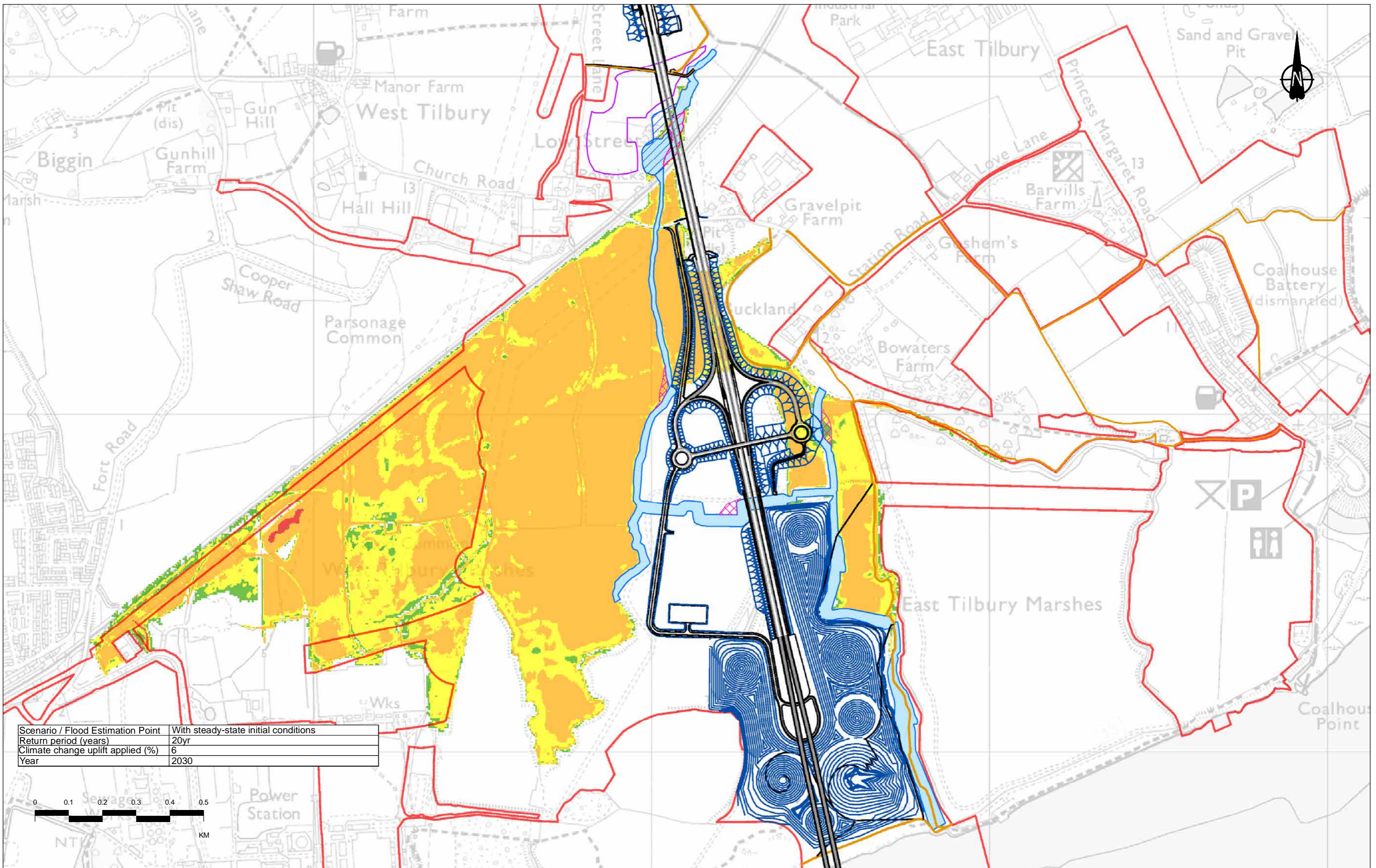


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Project	LOWER THAMES CROSSING		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 4 of 15			
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01098						



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	6
Year	2030

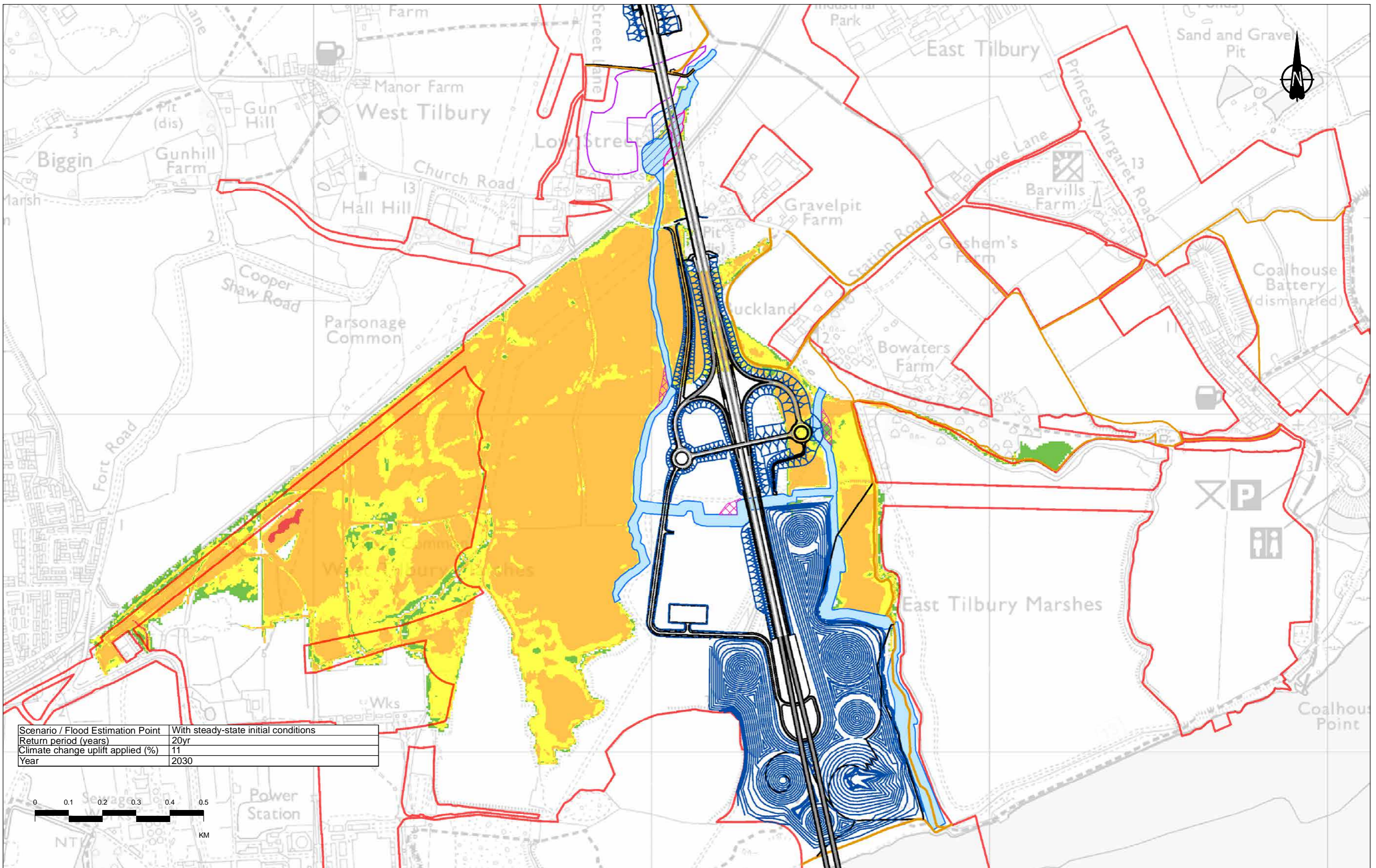


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

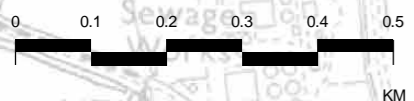
Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 5 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01099				



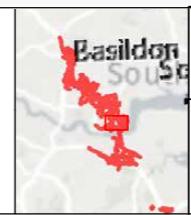
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	11
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

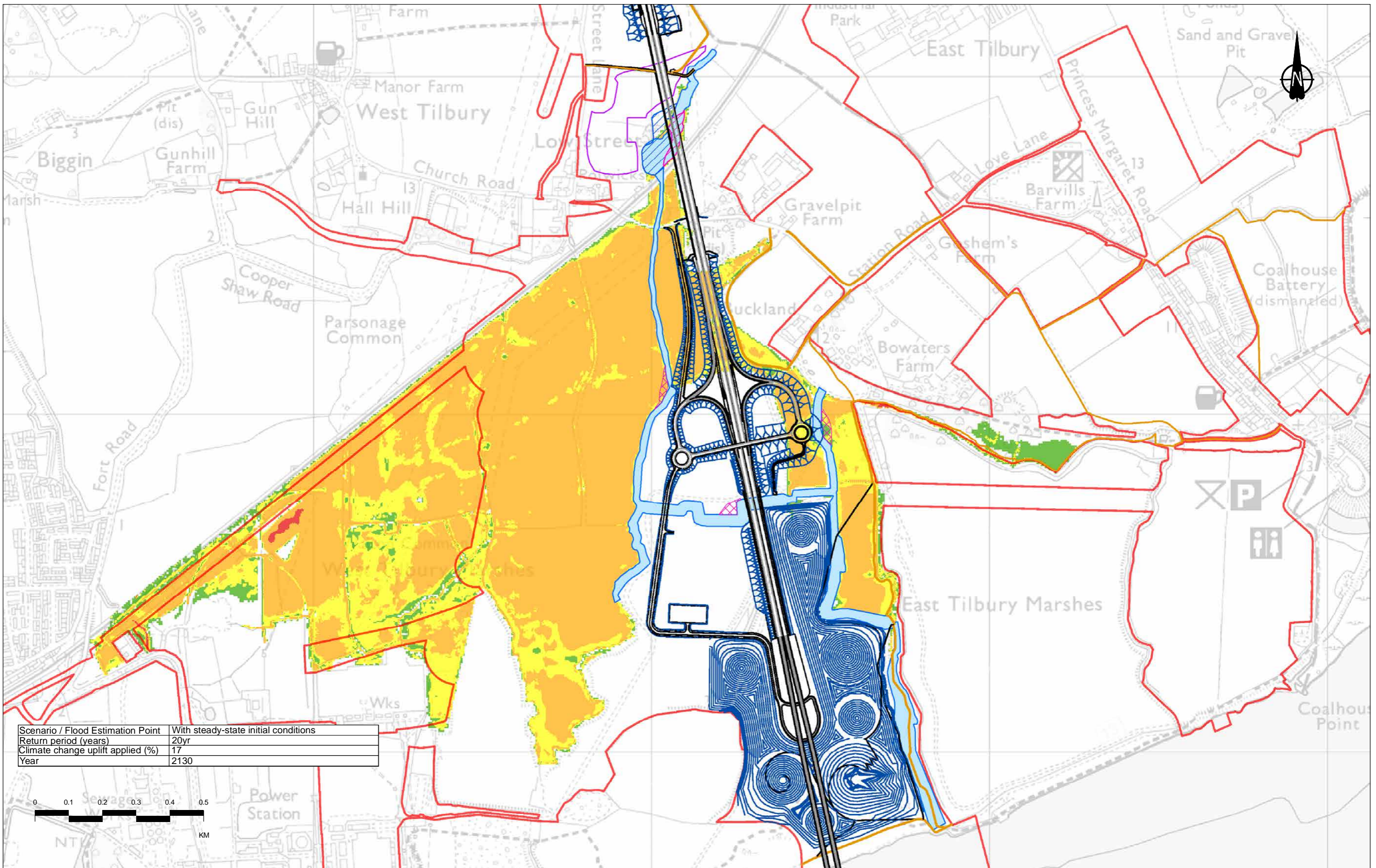
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled	Very low hazard	
Revised reservoir footprint	Danger for some	
Order Limits	Danger for most	Danger for all



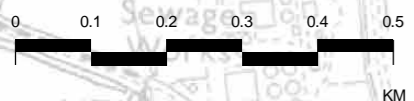
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 6 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01100				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	17
Year	2130

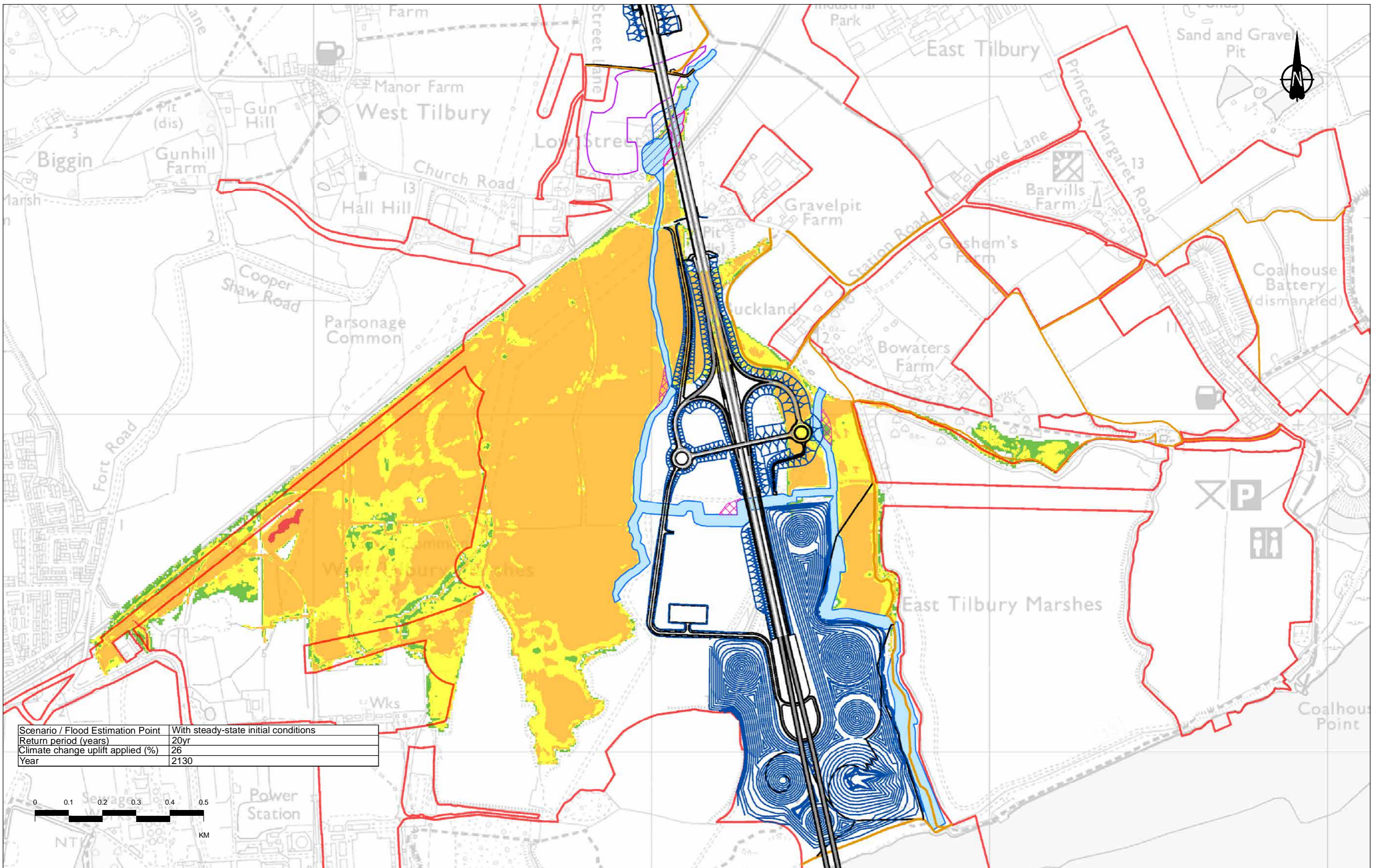


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

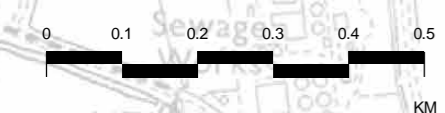
Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

		Status: DCO Application Application Document Number: TR010032/APP/6.3 Drawing title: FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 7 of 15 Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01101	Original Size: A3 Revision: P01 Scale: 1:10,000
	Client:	Project: LOWER THAMES CROSSING	
	Project: LOWER THAMES CROSSING		



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	26
Year	2130

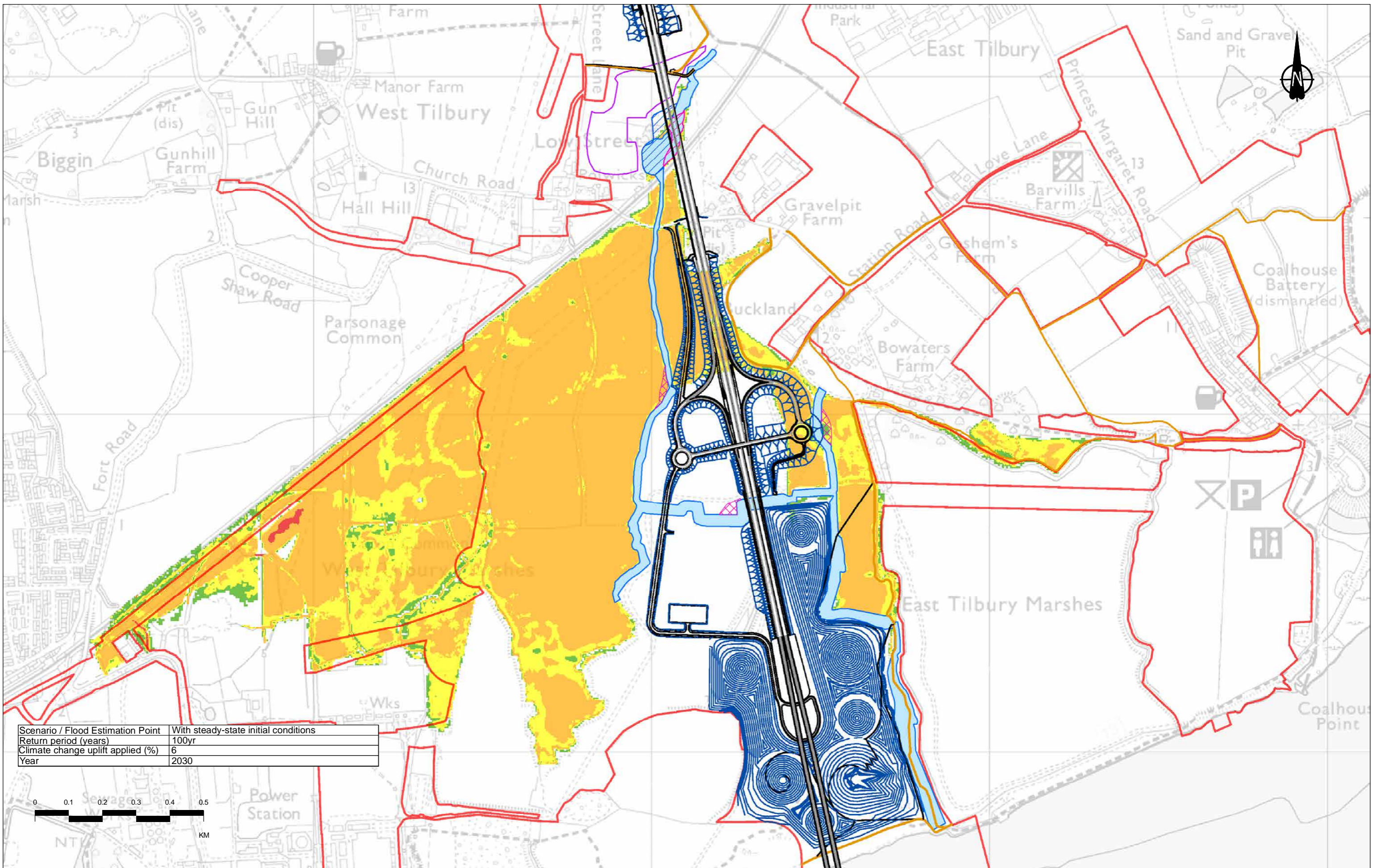


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

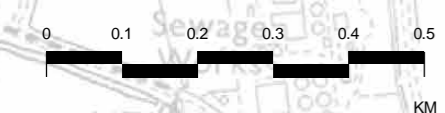
Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled	Very low hazard	
Revised reservoir footprint	Danger for some	
Order Limits	Danger for most	Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 8 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01102				



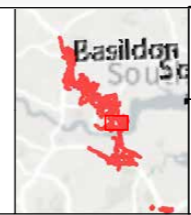
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	6
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

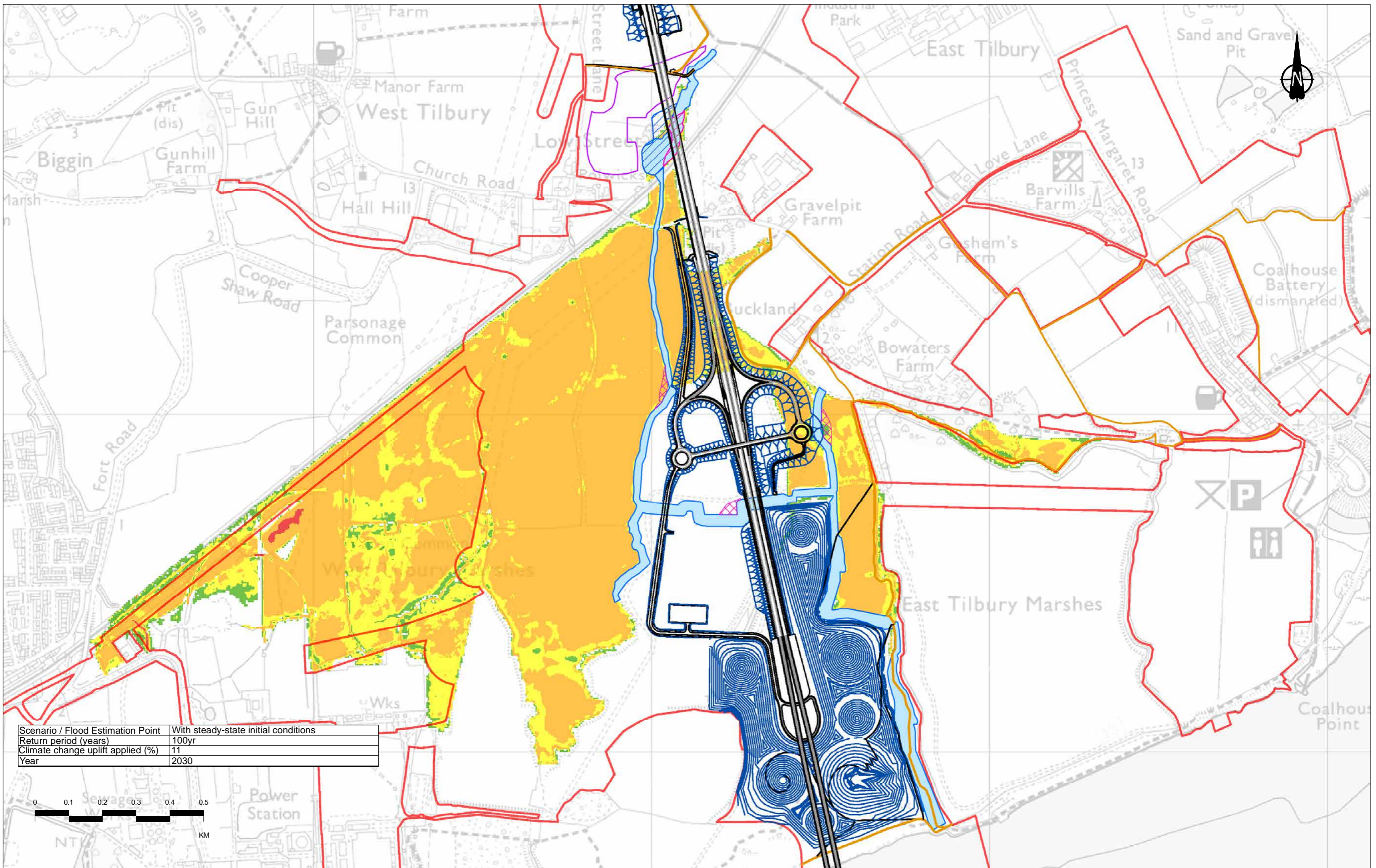
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



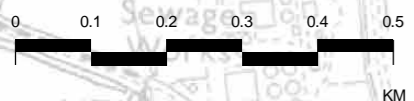
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 9 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01103				



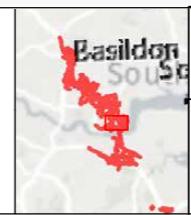
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

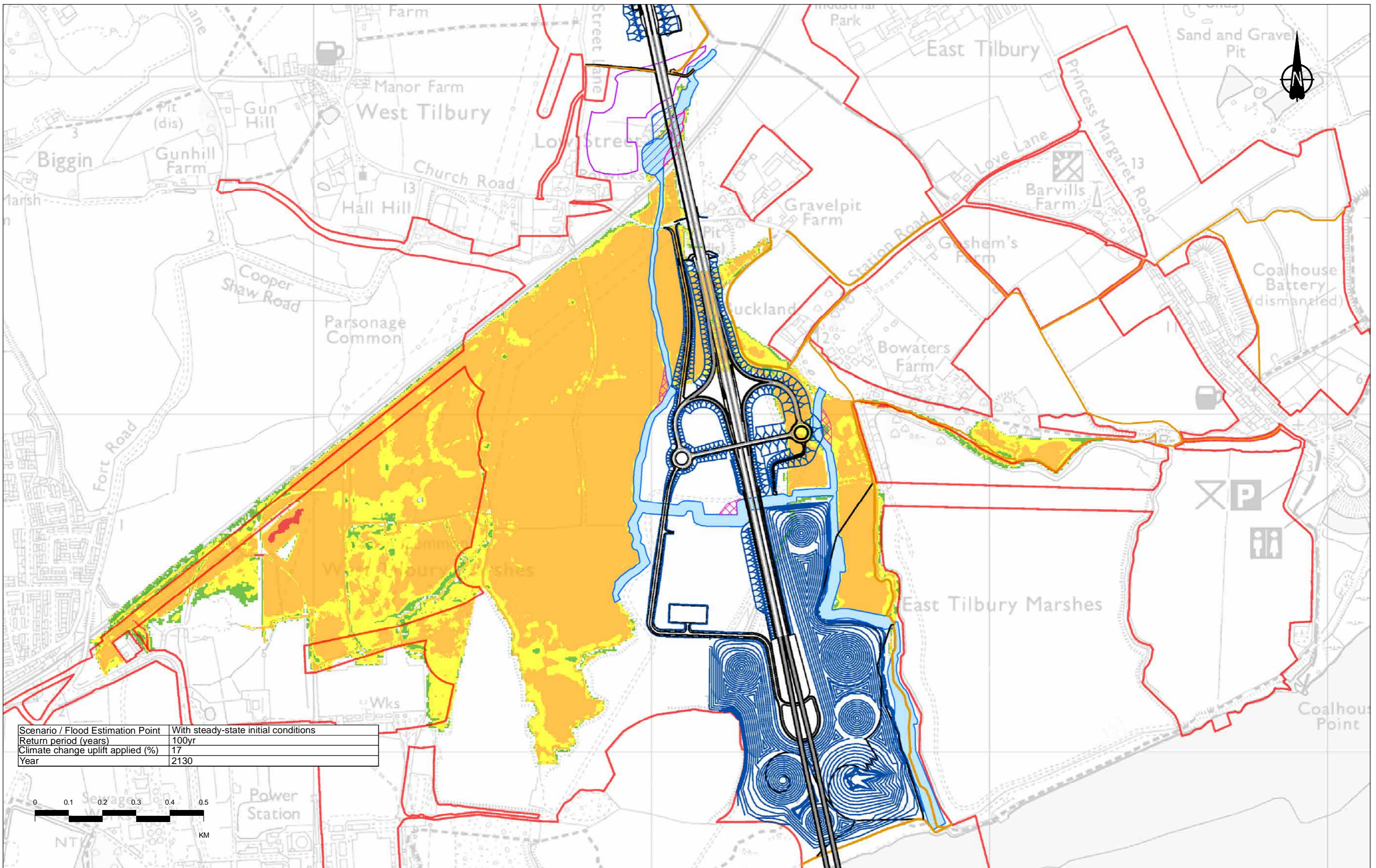
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 10 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01104				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	17
Year	2130

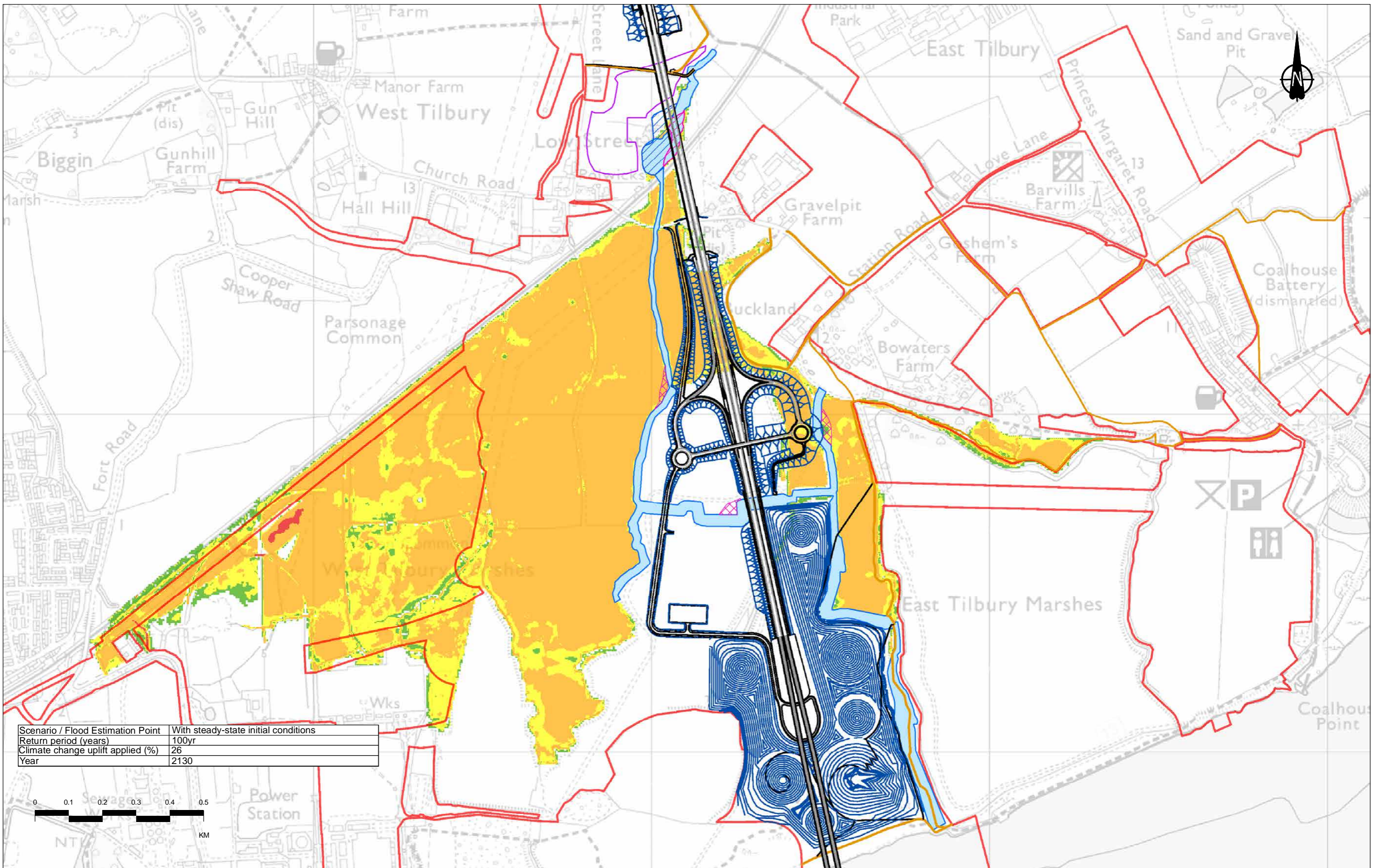


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

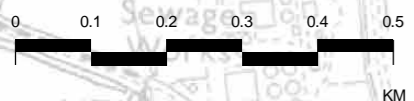
Legend

1D Channel	Proposed LTC alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	Very low hazard
Compensation area	NMU Routes	Danger for some
Existing reservoir infilled		Danger for most
Revised reservoir footprint		Danger for all
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 11 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01105				



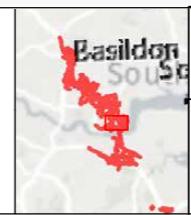
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

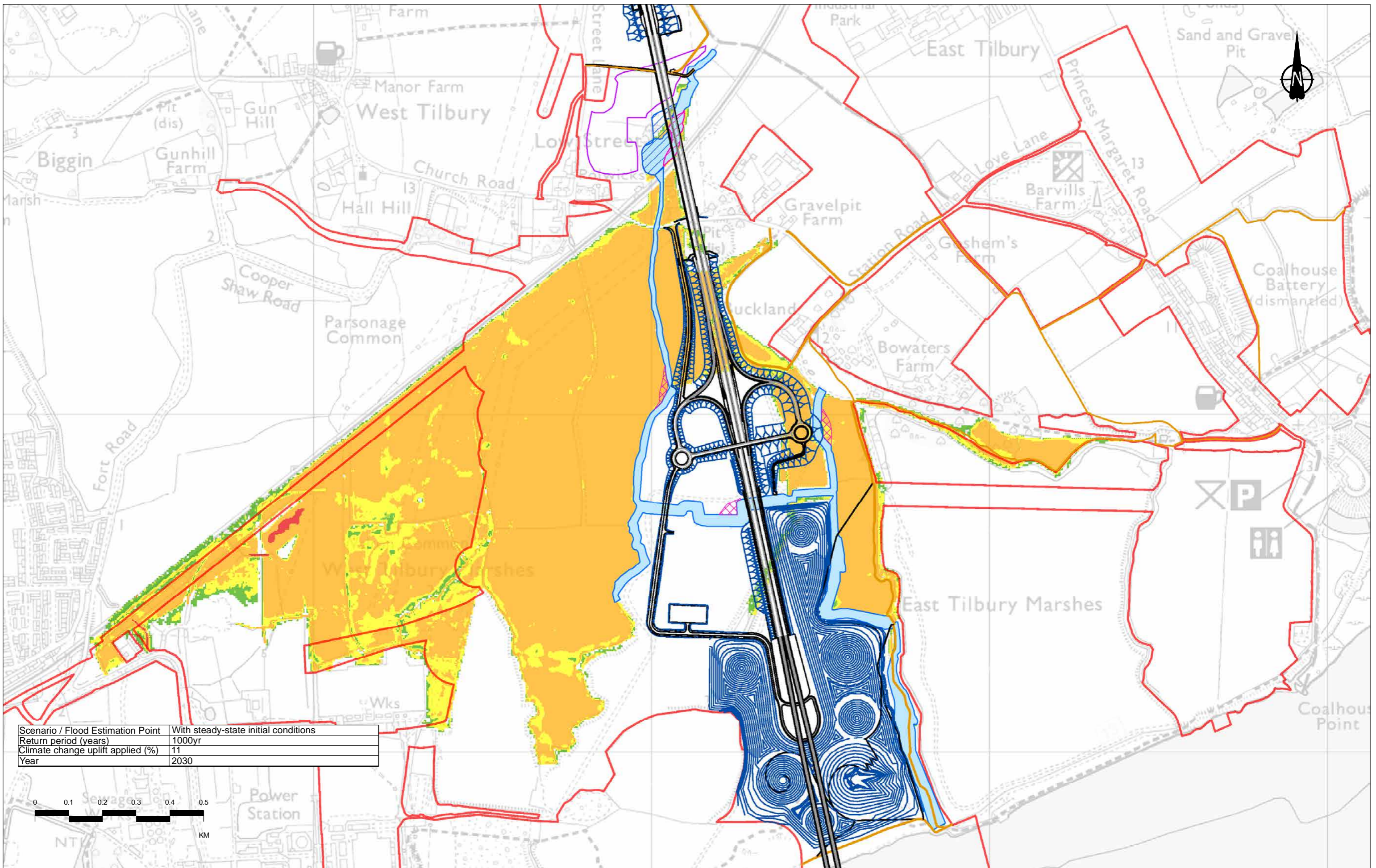
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



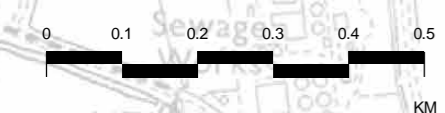
Client:

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 12 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01106				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	1000yr
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

Maximum flood hazard category

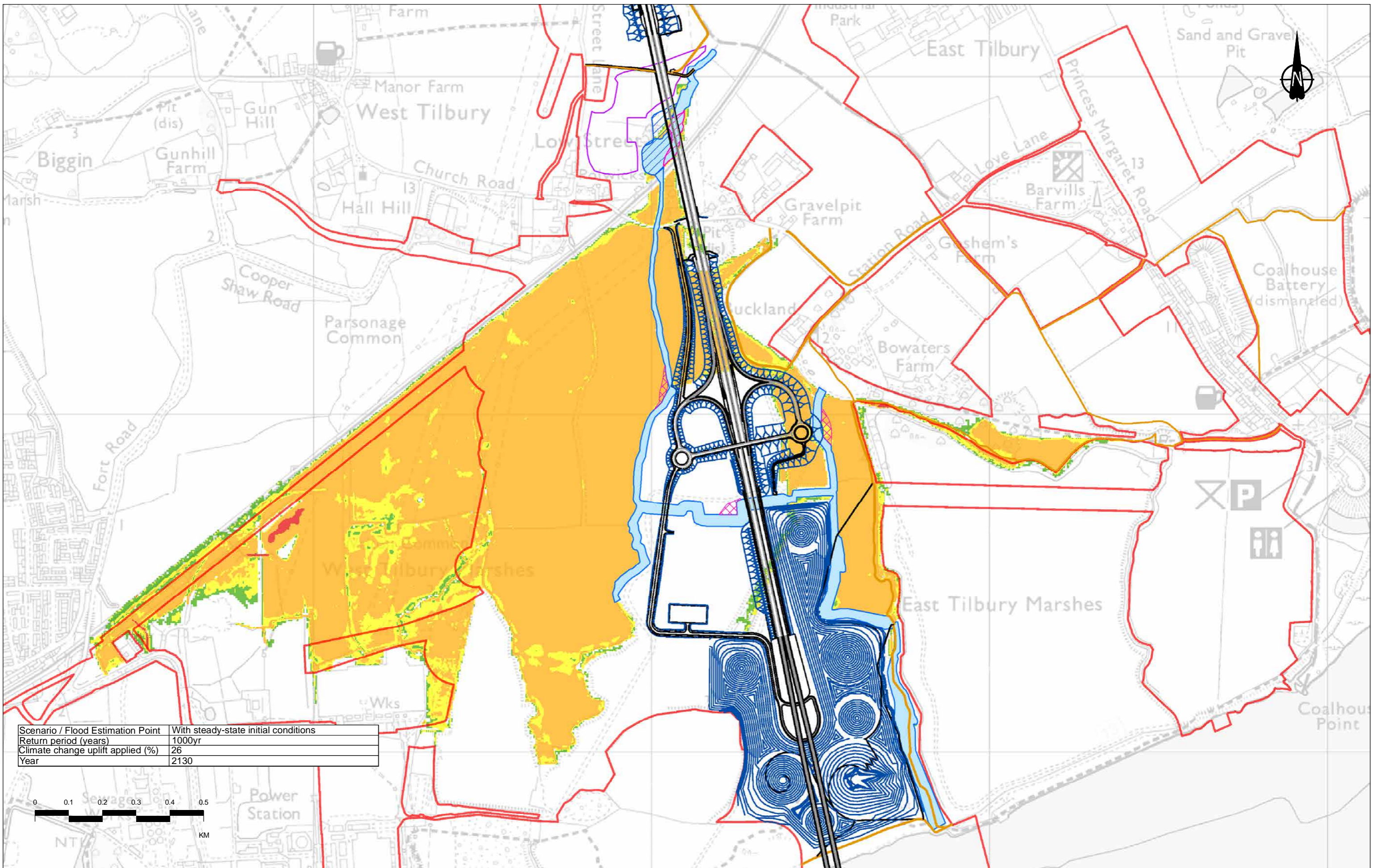
Very low hazard
Danger for some
Danger for most
Danger for all

Client: national highways

Project: Basildon South

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 13 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01107				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	1000yr
Climate change uplift applied (%)	26
Year	2130

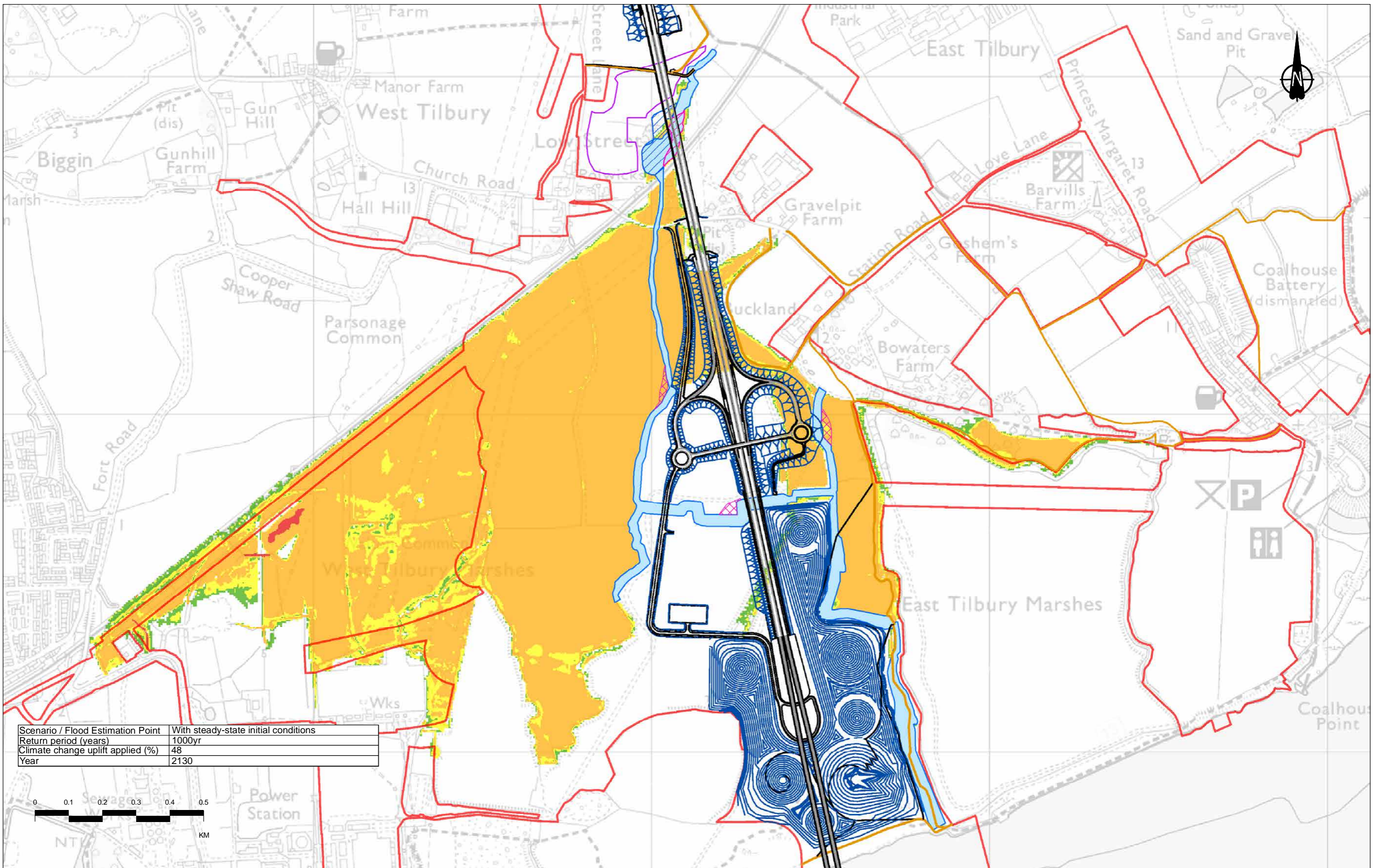


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 14 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01108				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	1000yr
Climate change uplift applied (%)	48
Year	2130

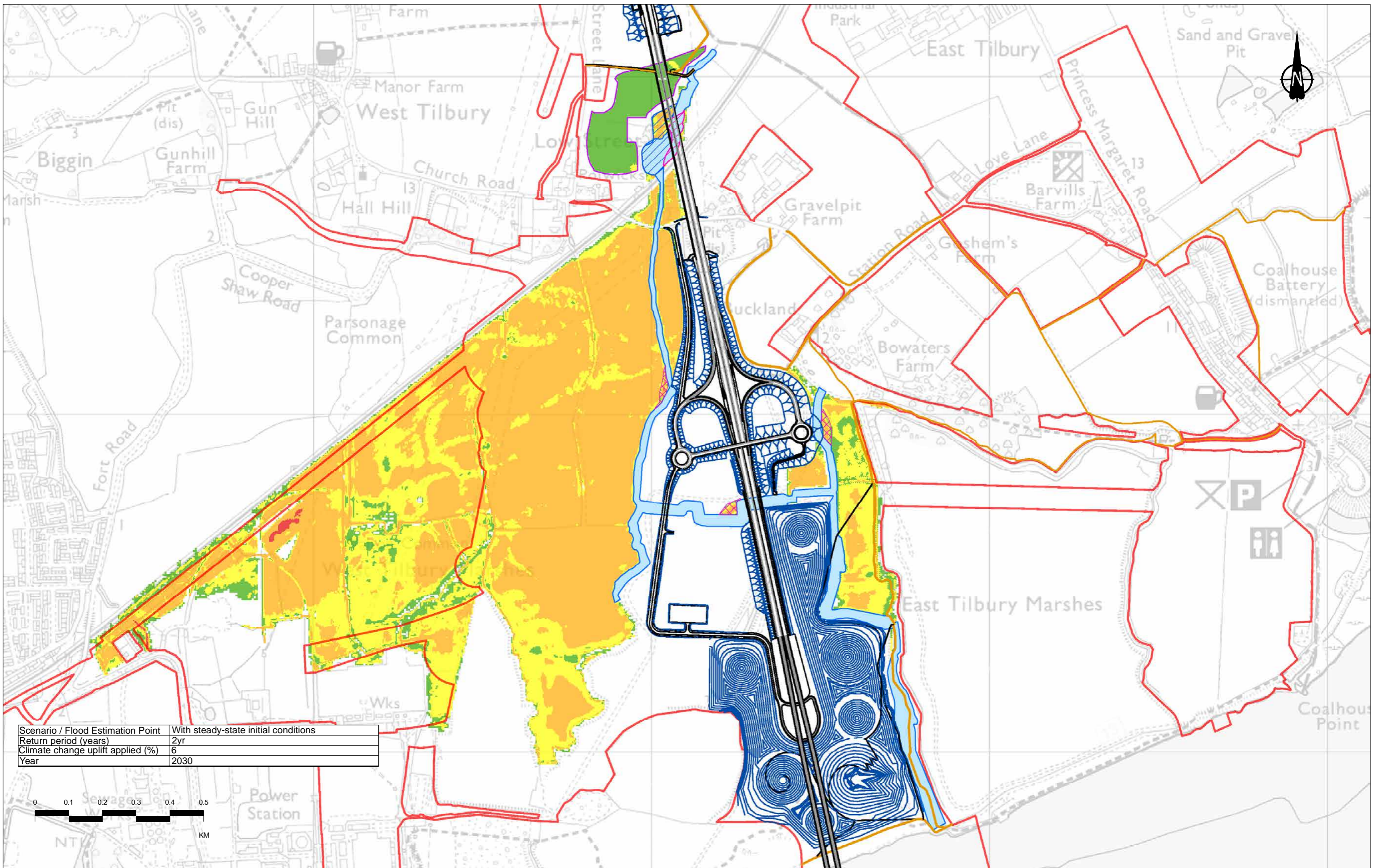


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled	Very low hazard	
Revised reservoir footprint	Danger for some	
Order Limits	Danger for most	Danger for all

		Client	DCO Application	Original Size	A3	Revision	P01
		Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Project		LOWER THAMES CROSSING		Drawing title			
				FRA - Tilbury Modelling Results			
				Maximum flood hazard category			
				Pre-development			
				Sheet 15 of 15			
				Drawing number			
				HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01109			



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	6
Year	2030

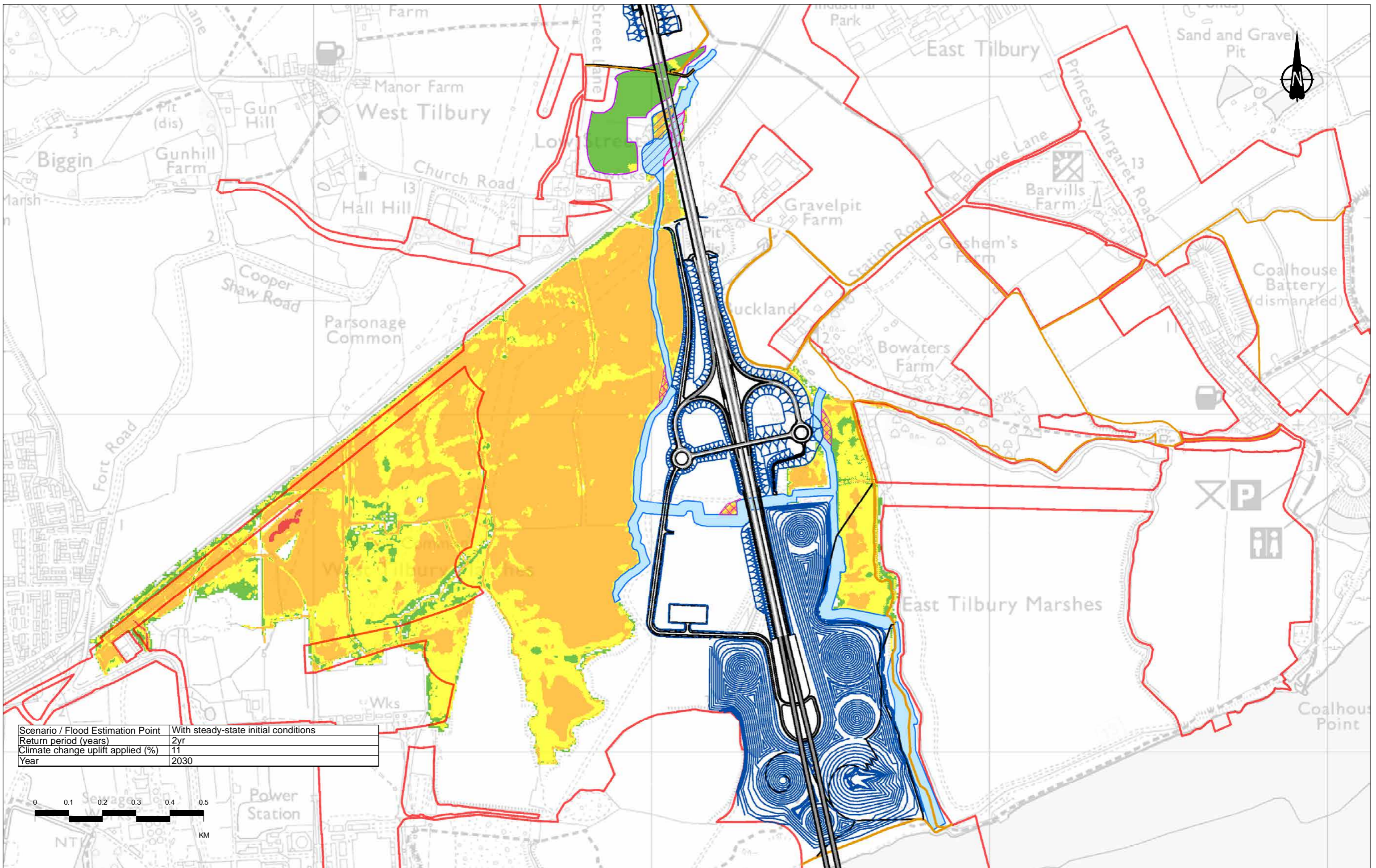


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

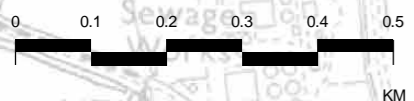
Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Status: DCO Application Application Document Number: TR010032/APP/6.3 Drawing title: FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 1 of 15	Original Size: A3 Revision: P01 Scale: 1:10,000
	Project: LOWER THAMES CROSSING	Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01110	



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	11
Year	2030

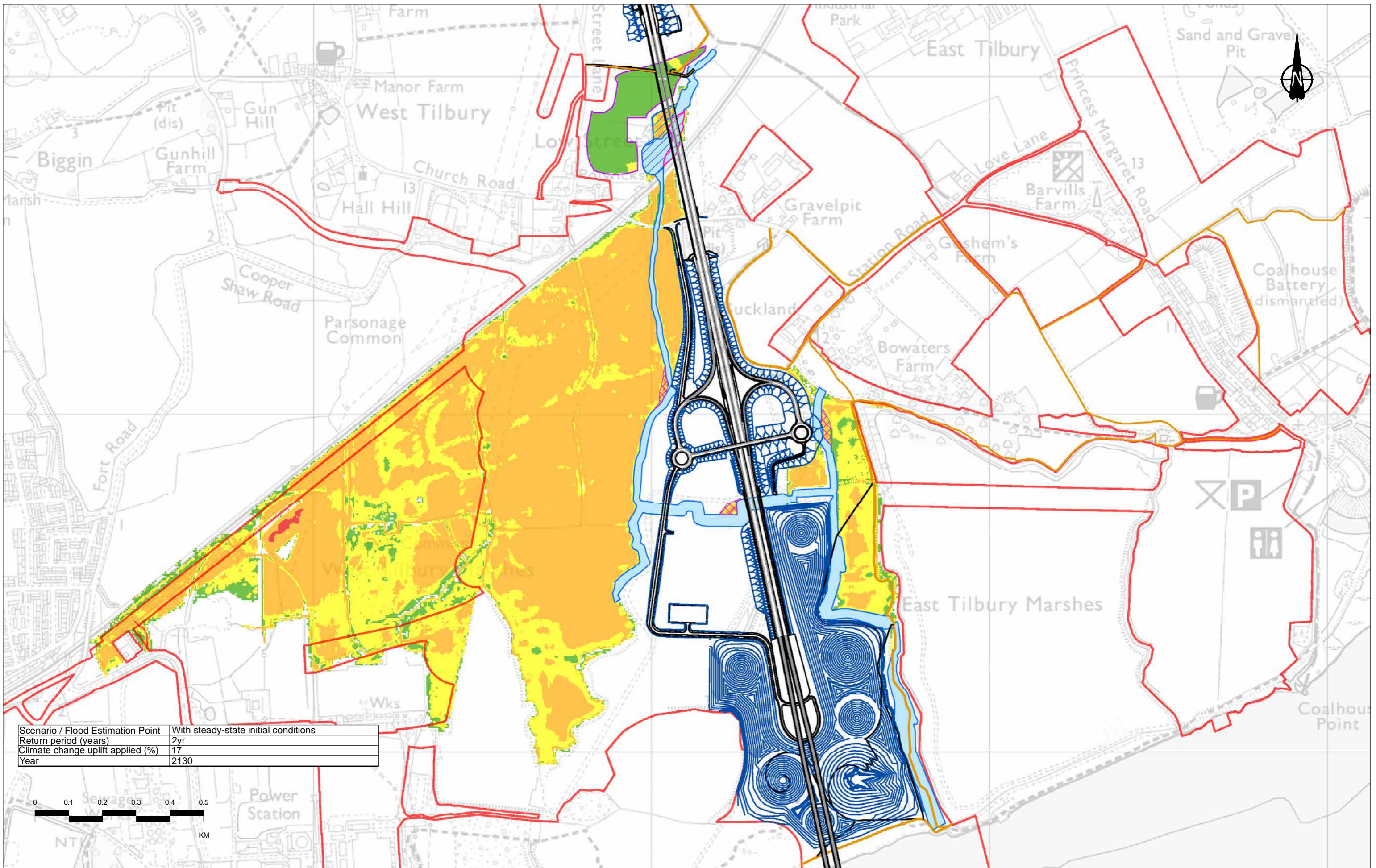


PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

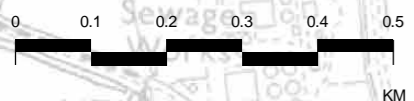
Legend

1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

		Status: DCO Application Application Document Number: TR010032/APP/6.3 Drawing title: FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 2 of 15	Original Size: A3 Revision: P01 Scale: 1:10,000
	Client: LOWER THAMES CROSSING	Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01111	



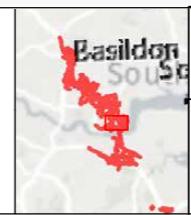
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

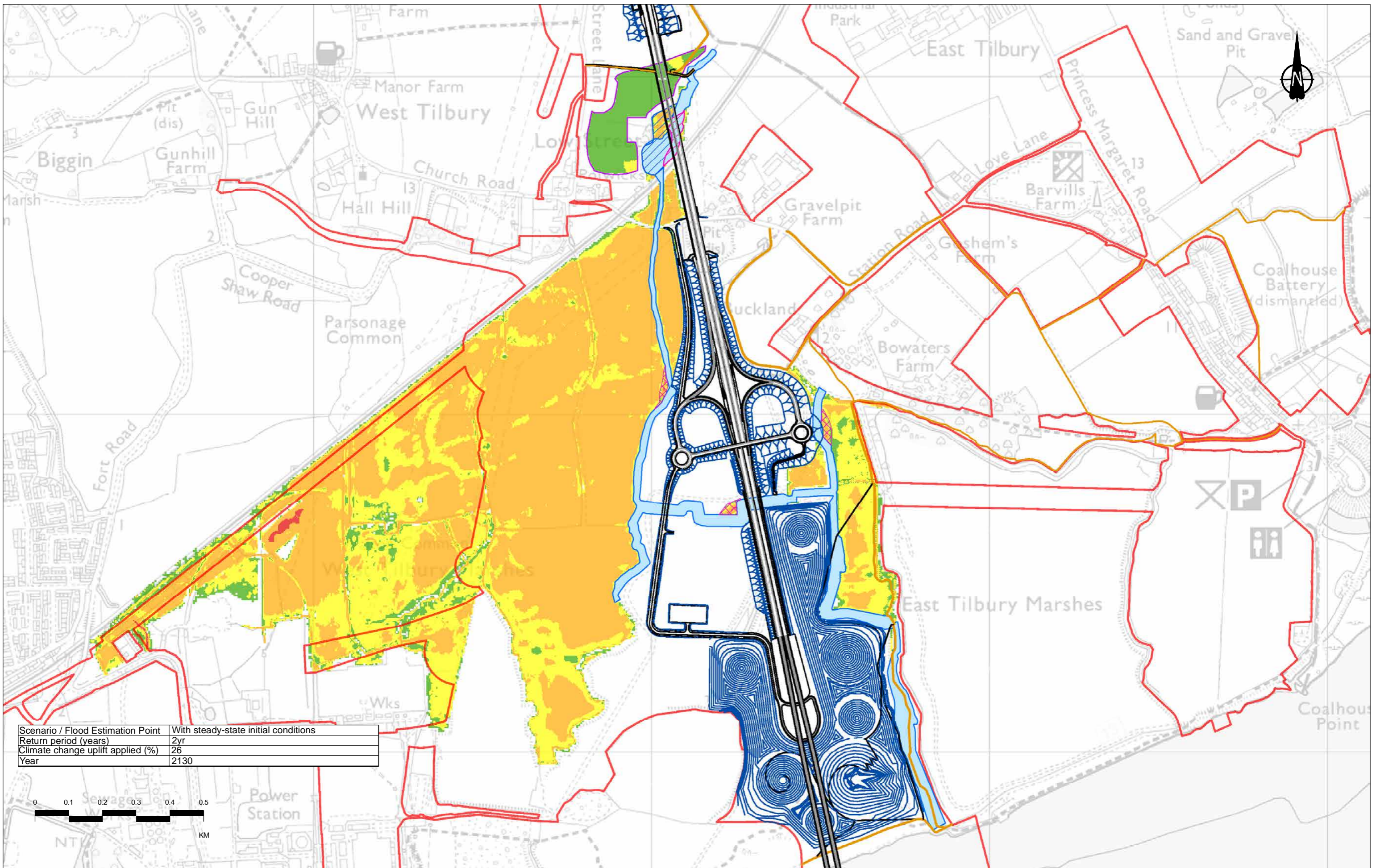
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



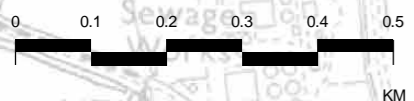
Client:

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 3 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01112				



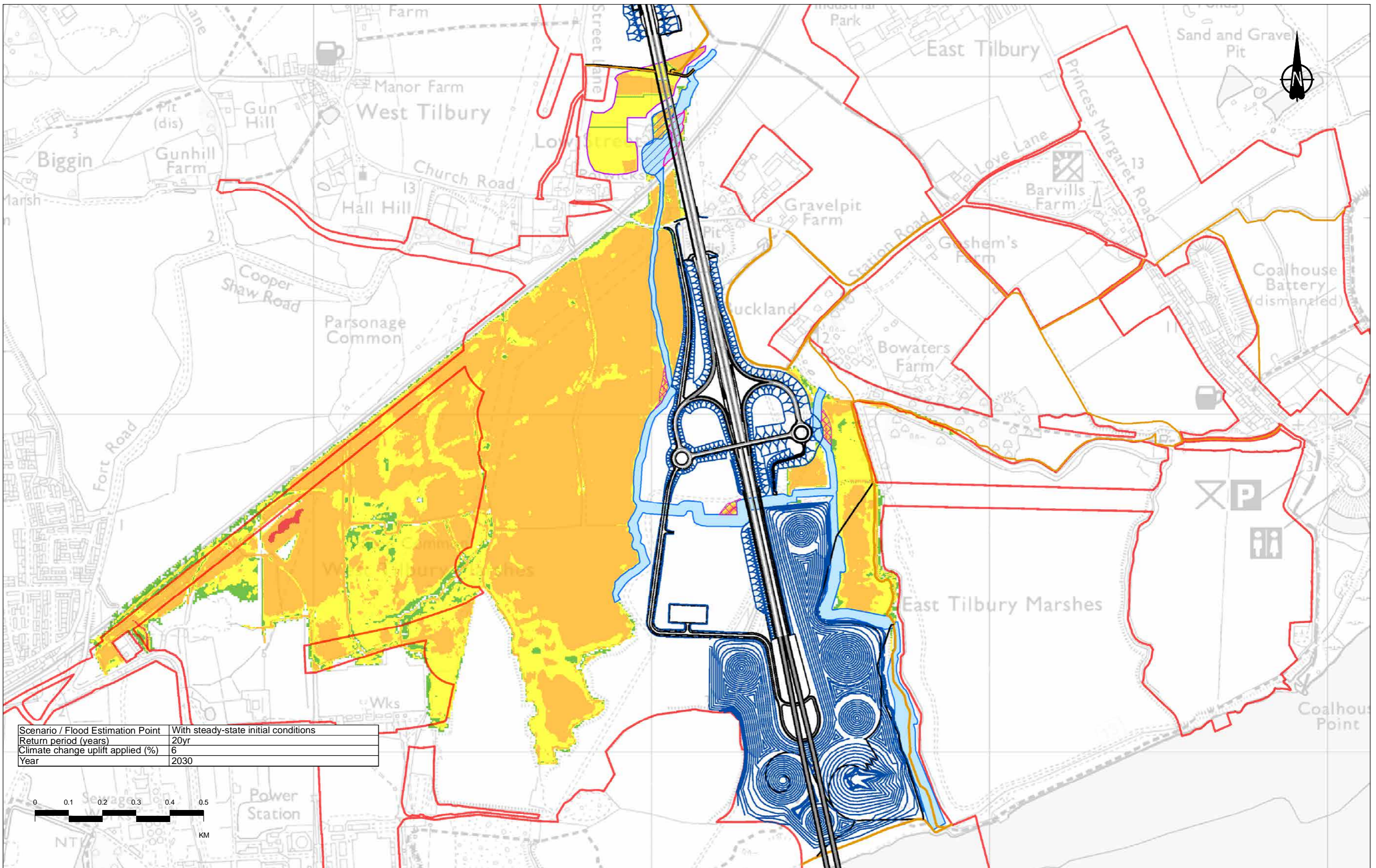
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2yr
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend		Proposed LTC alignment		Maximum flood hazard category	
	1D Channel		Alignment		Very low hazard
	1D Channel diversions		Earthworks		Danger for some
	Compensation area		NMU Routes		Danger for most
	Existing reservoir infilled				Danger for all
	Revised reservoir footprint				
	Order Limits				

	Client	national highways	
	Project	LOWER THAMES CROSSING	
Status	DCO Application	Original Size	A3
Application Document Number	TR010032/APP/6.3	Revision	P01
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 4 of 15		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01113		



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	6
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

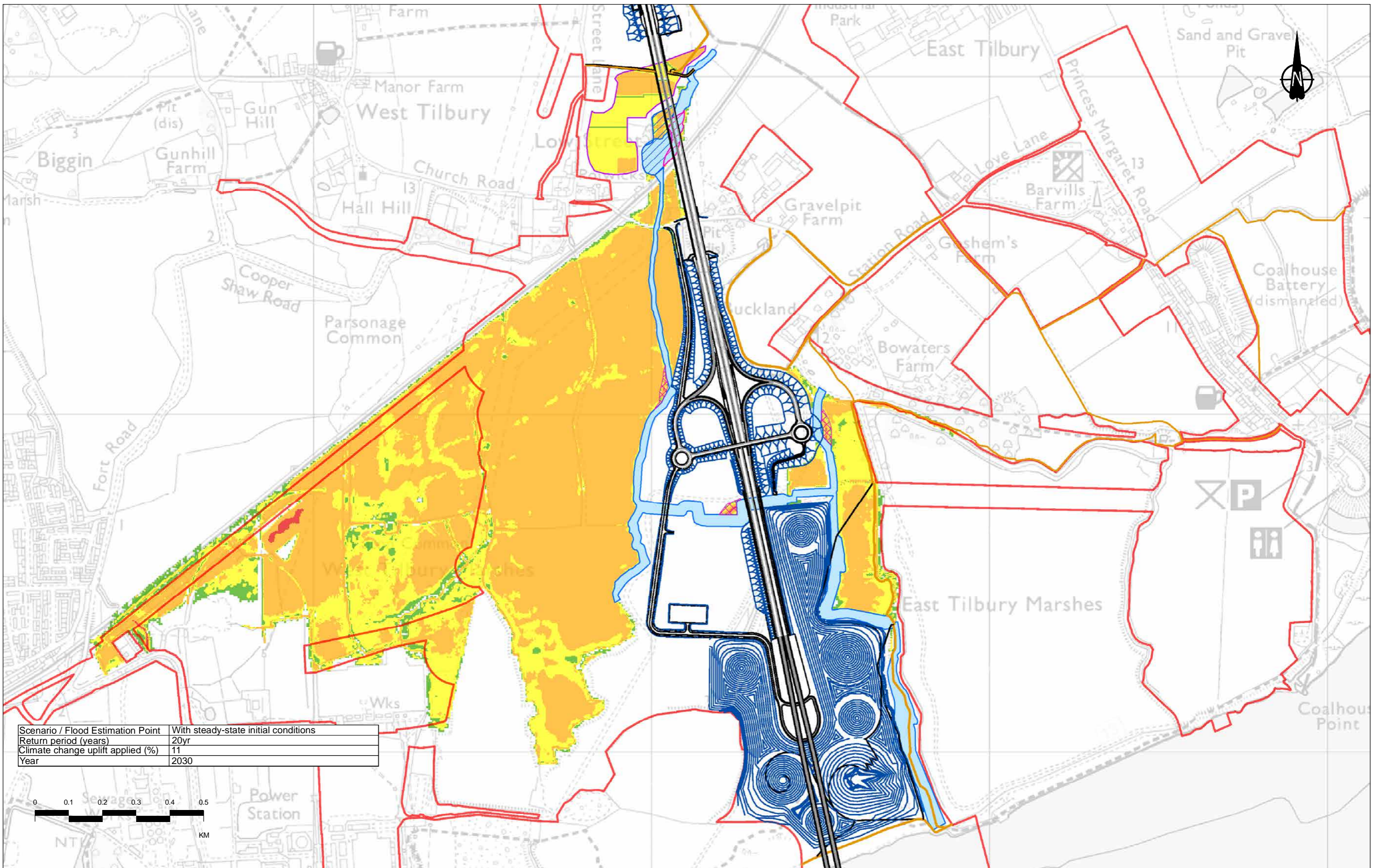
1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

Client: national highways

Project: Basildon South

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 5 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01114				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

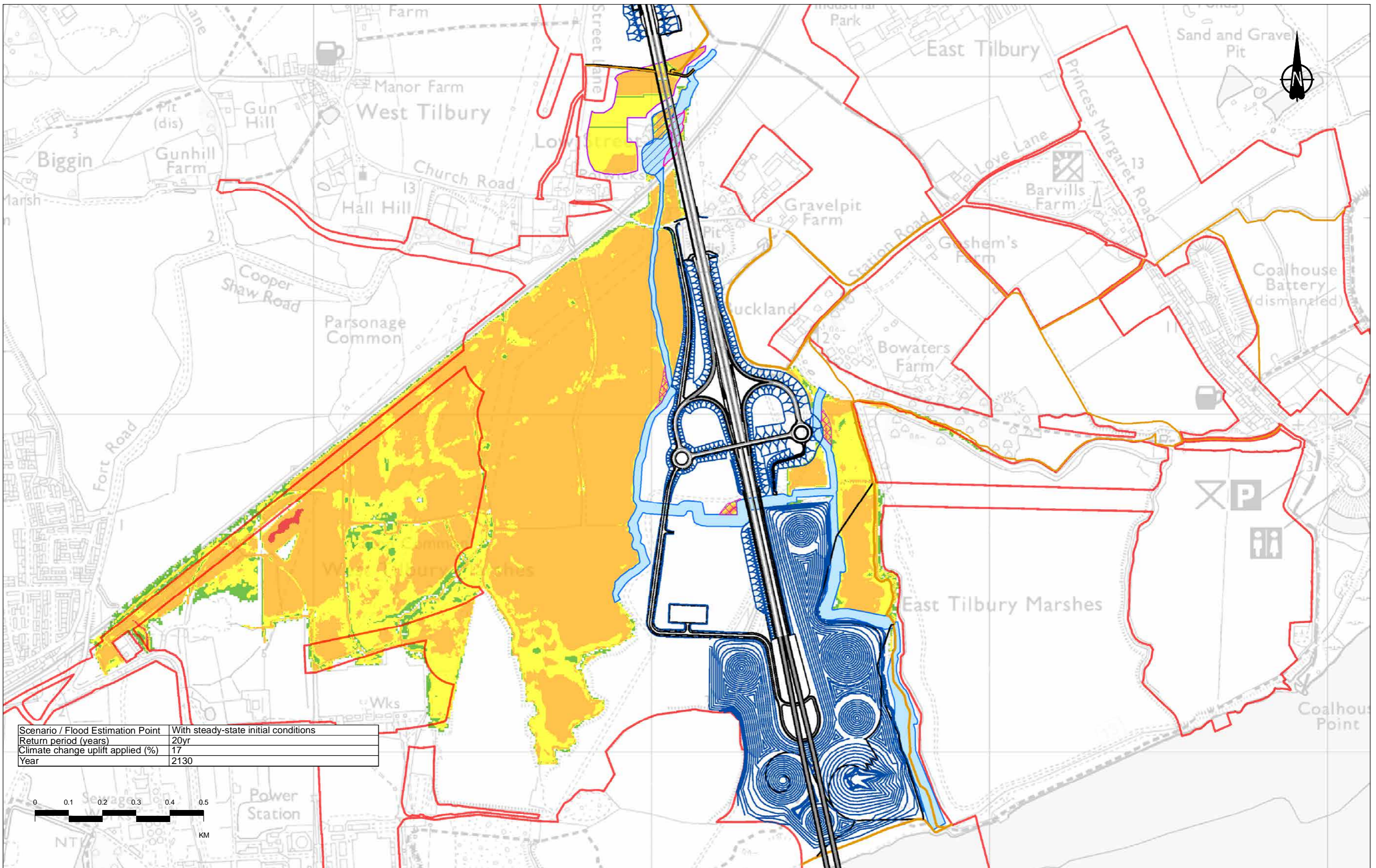
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled	Very low hazard	
Revised reservoir footprint	Danger for some	
Order Limits	Danger for most	Danger for all

Client: national highways

Project: Basildon South

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 6 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01115				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	17
Year	2130

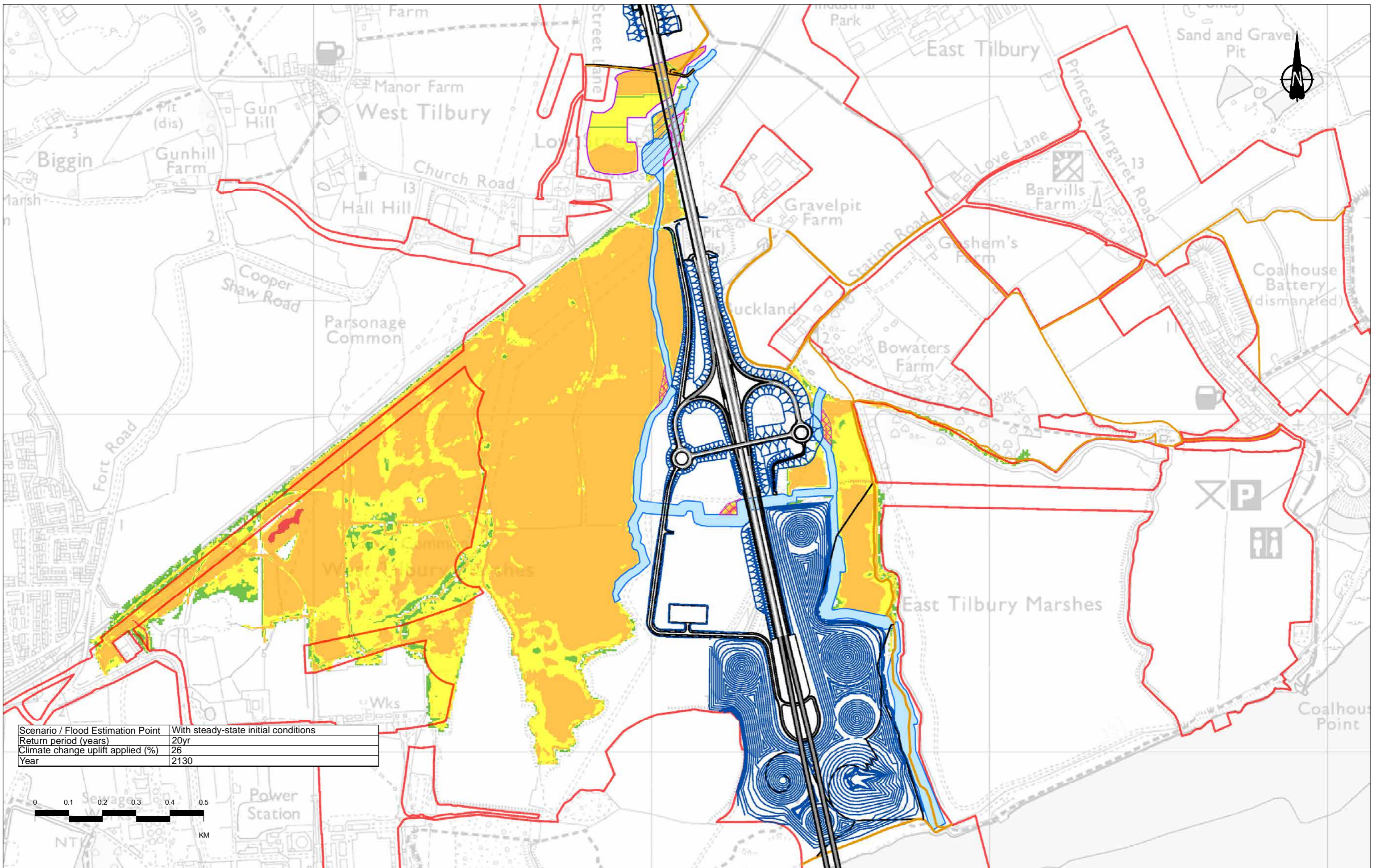


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

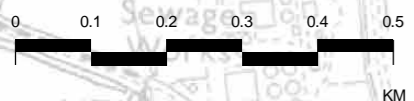
Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Status: DCO Application Application Document Number: TR010032/APP/6.3 Drawing title: FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 7 of 15 Drawing number: HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01116	Original Size: A3 Revision: P01 Scale: 1:10,000
	Client: national highways Project: LOWER THAMES CROSSING		



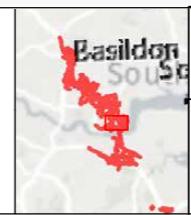
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20yr
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

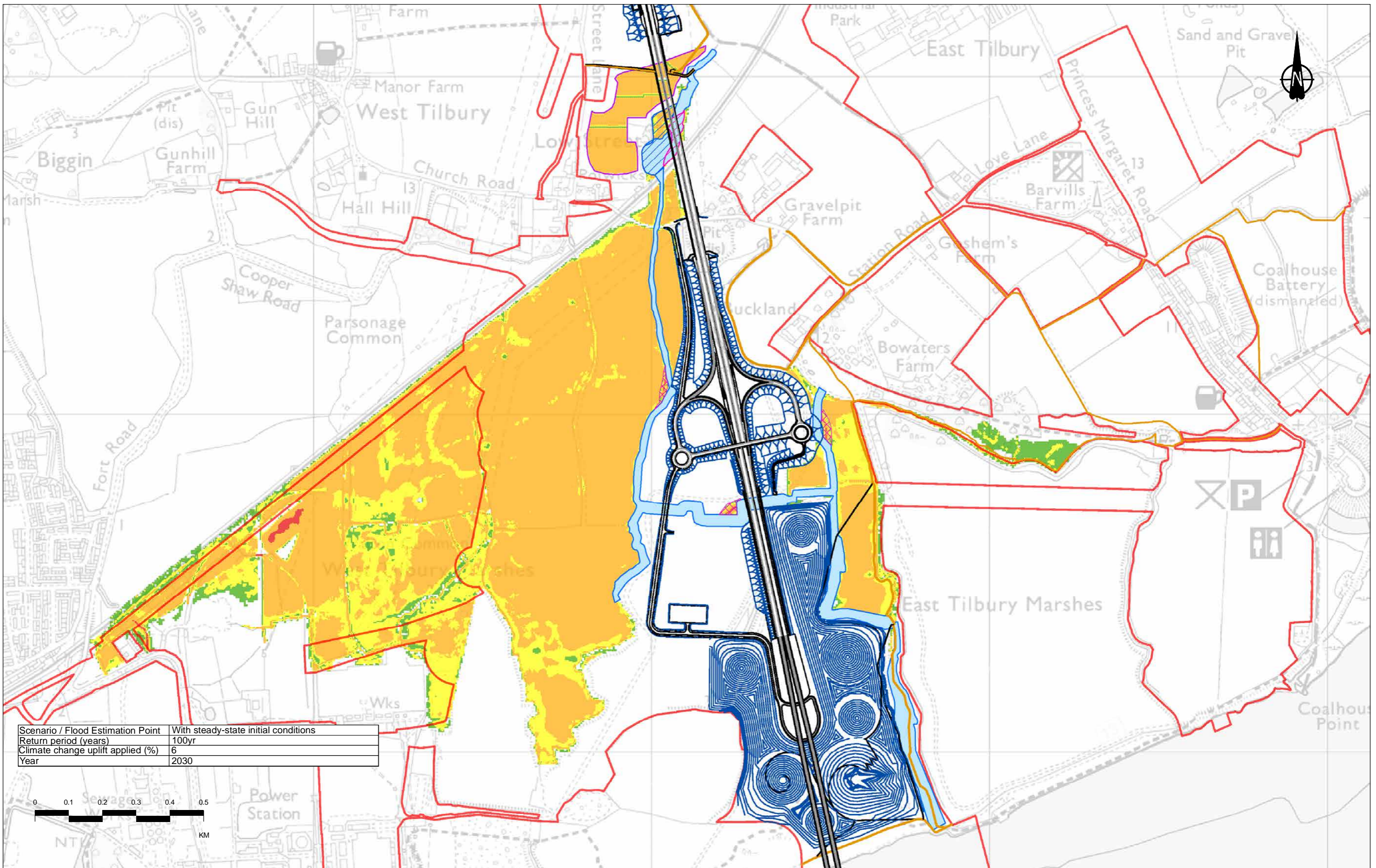
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



Client:

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 8 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01117				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	6
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

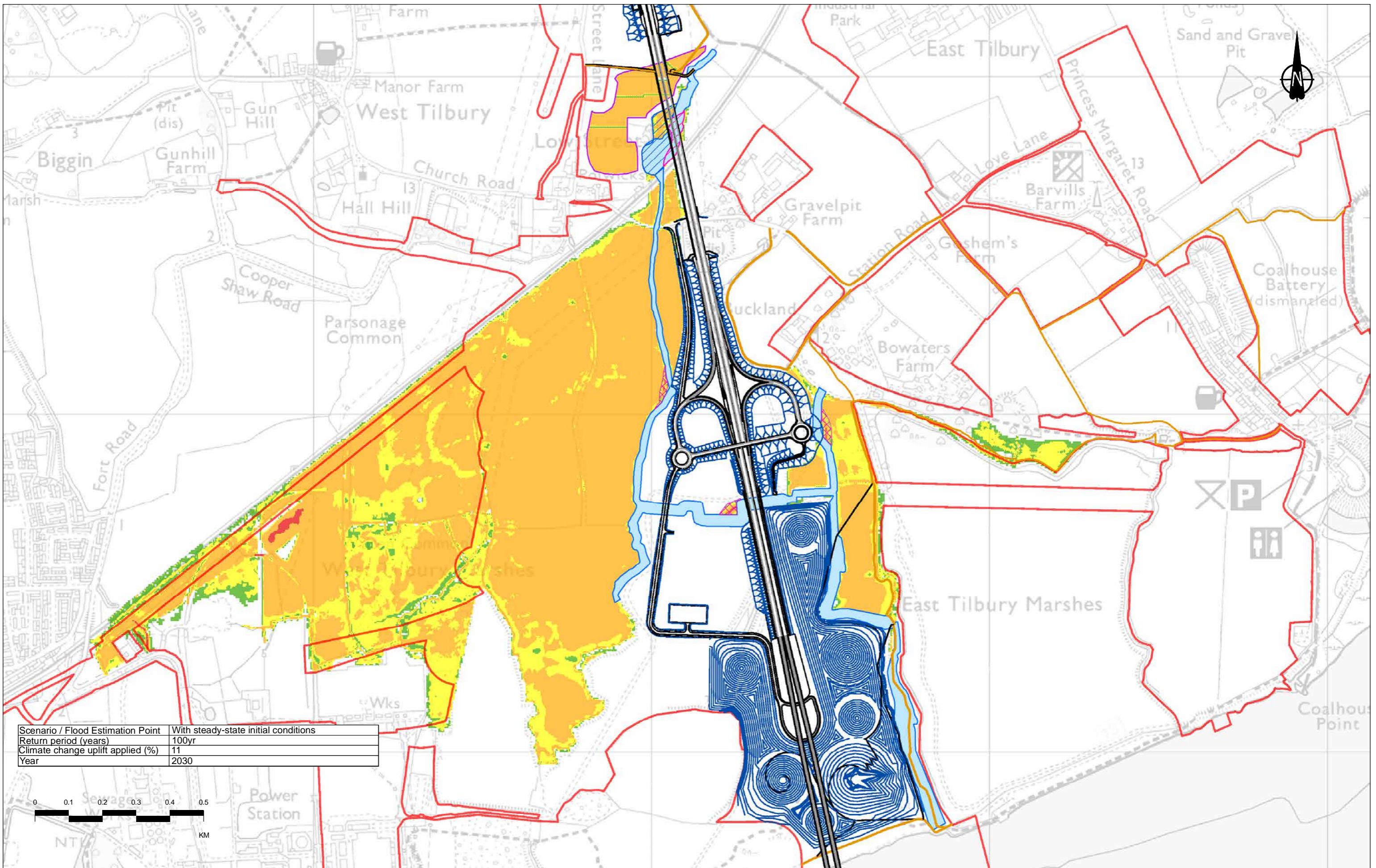
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled	Very low hazard	
Revised reservoir footprint	Danger for some	
Order Limits	Danger for most	Danger for all

Basildon

national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 9 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01118				

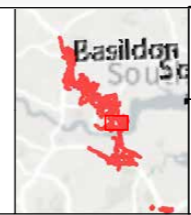


Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

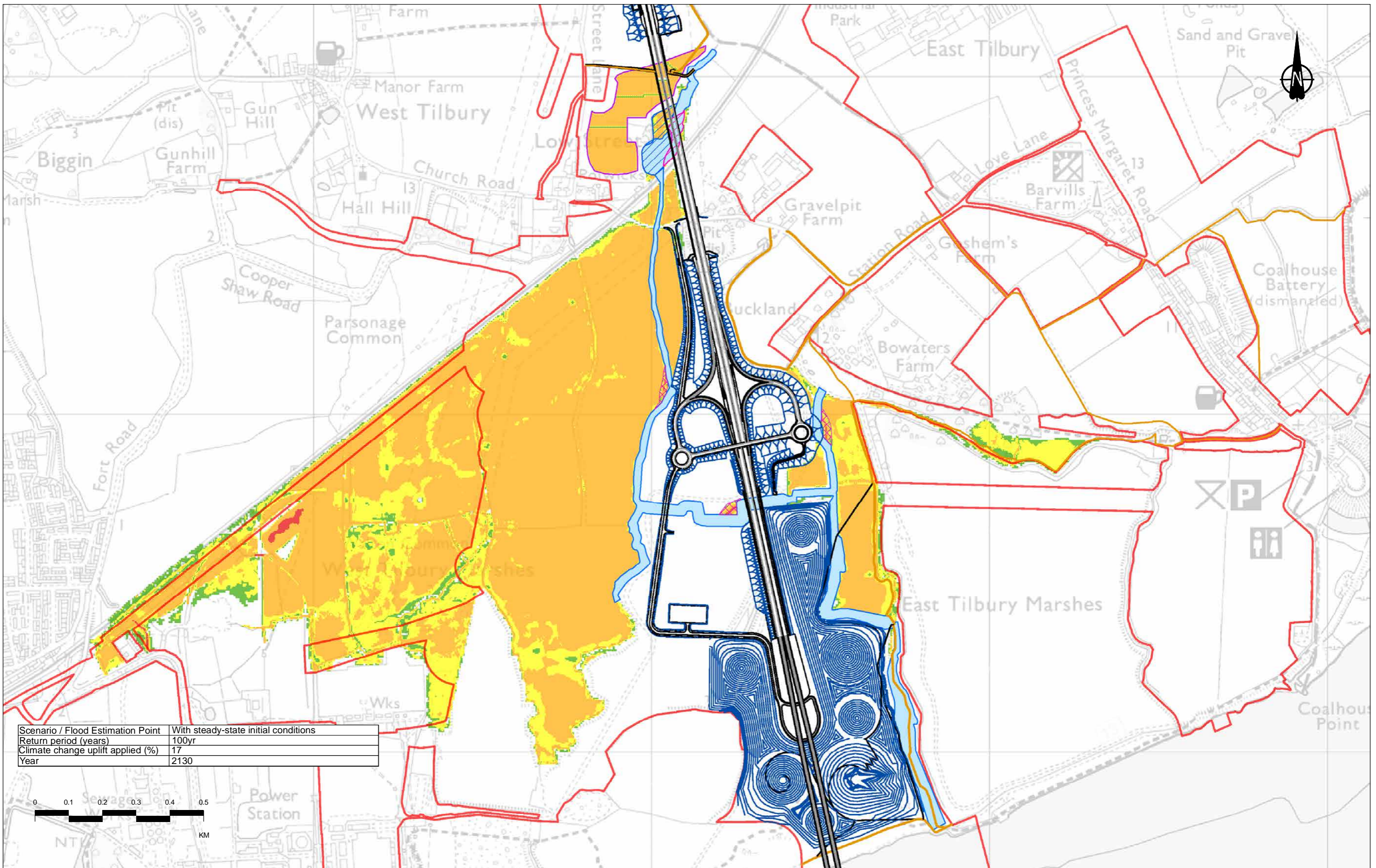
Legend		Proposed LTC alignment		Maximum flood hazard category	
	1D Channel		Alignment		Very low hazard
	1D Channel diversions		Earthworks		Danger for some
	Compensation area		NMU Routes		Danger for most
	Existing reservoir infilled				Danger for all
	Revised reservoir footprint				
	Order Limits				



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 10 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01119				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	17
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

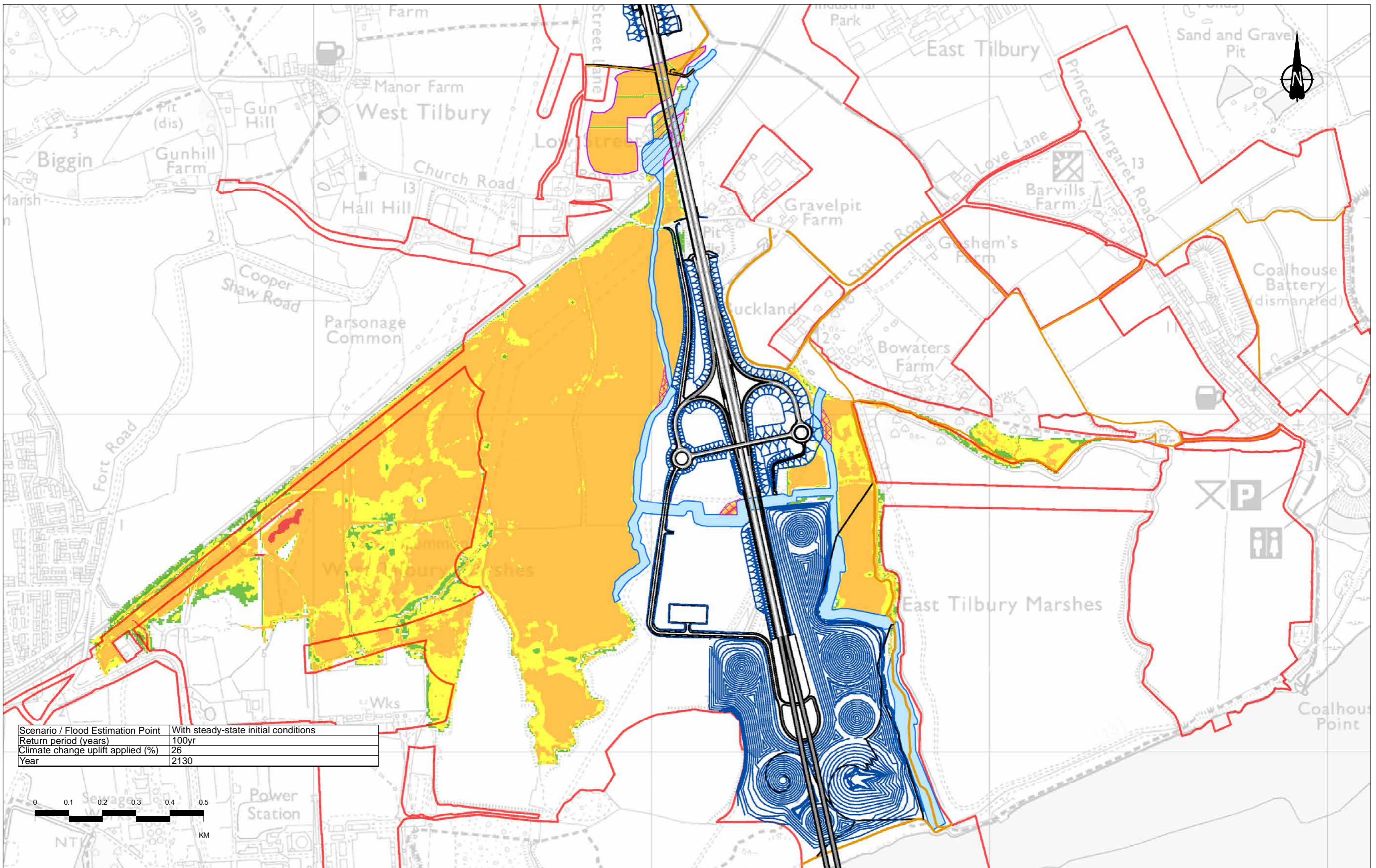
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

Client: national highways

Project: Basildon South

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 11 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01120				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100yr
Climate change uplift applied (%)	26
Year	2130

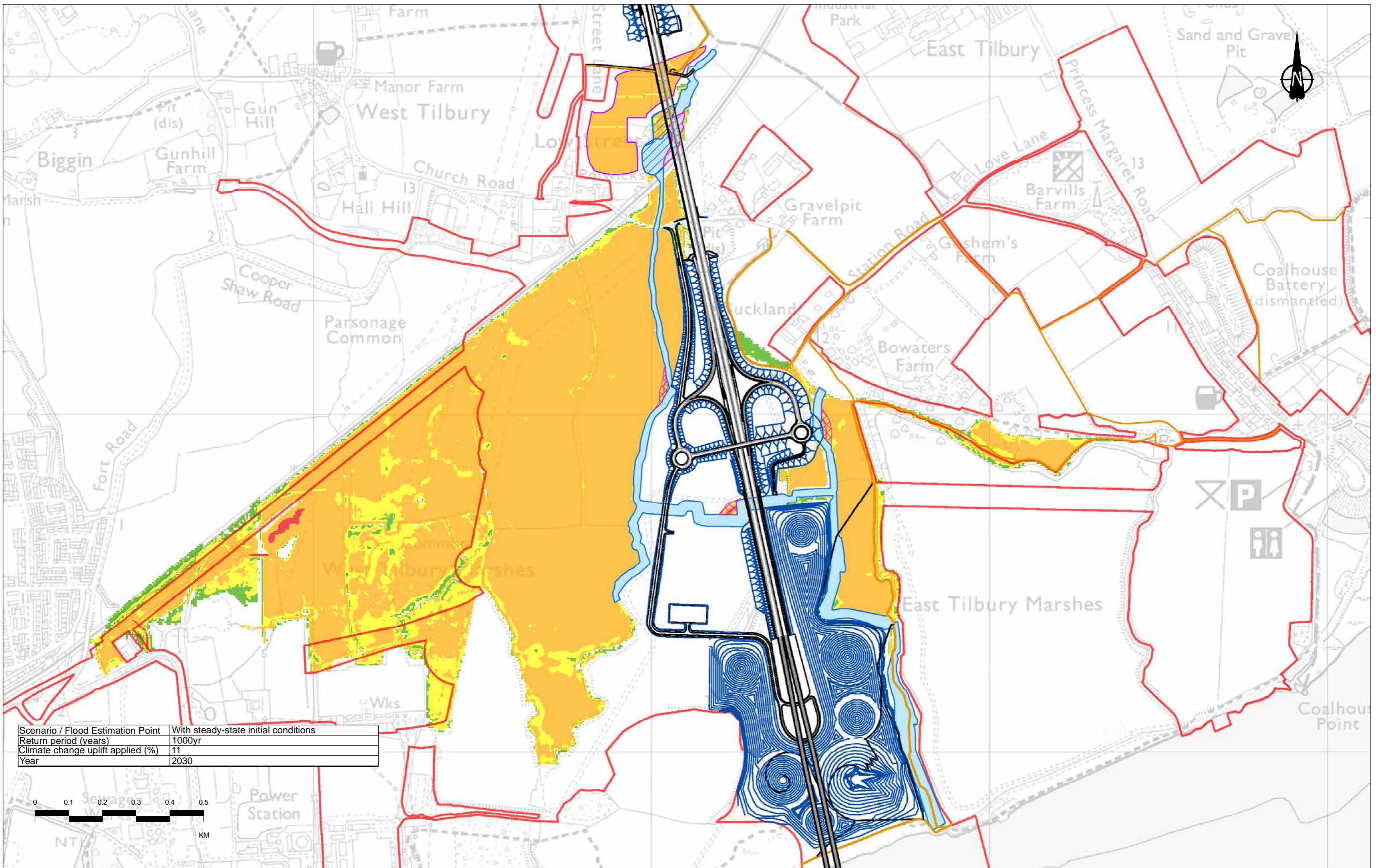


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

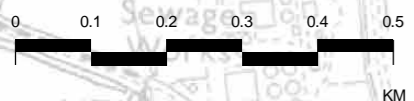
Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

	Client		Status	DCO Application	Original Size	A3	Revision	P01
	Project		LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000	
			Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 12 of 15				
			Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01121				



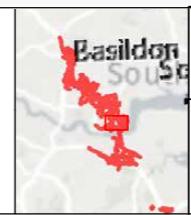
Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	1000yr
Climate change uplift applied (%)	11
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

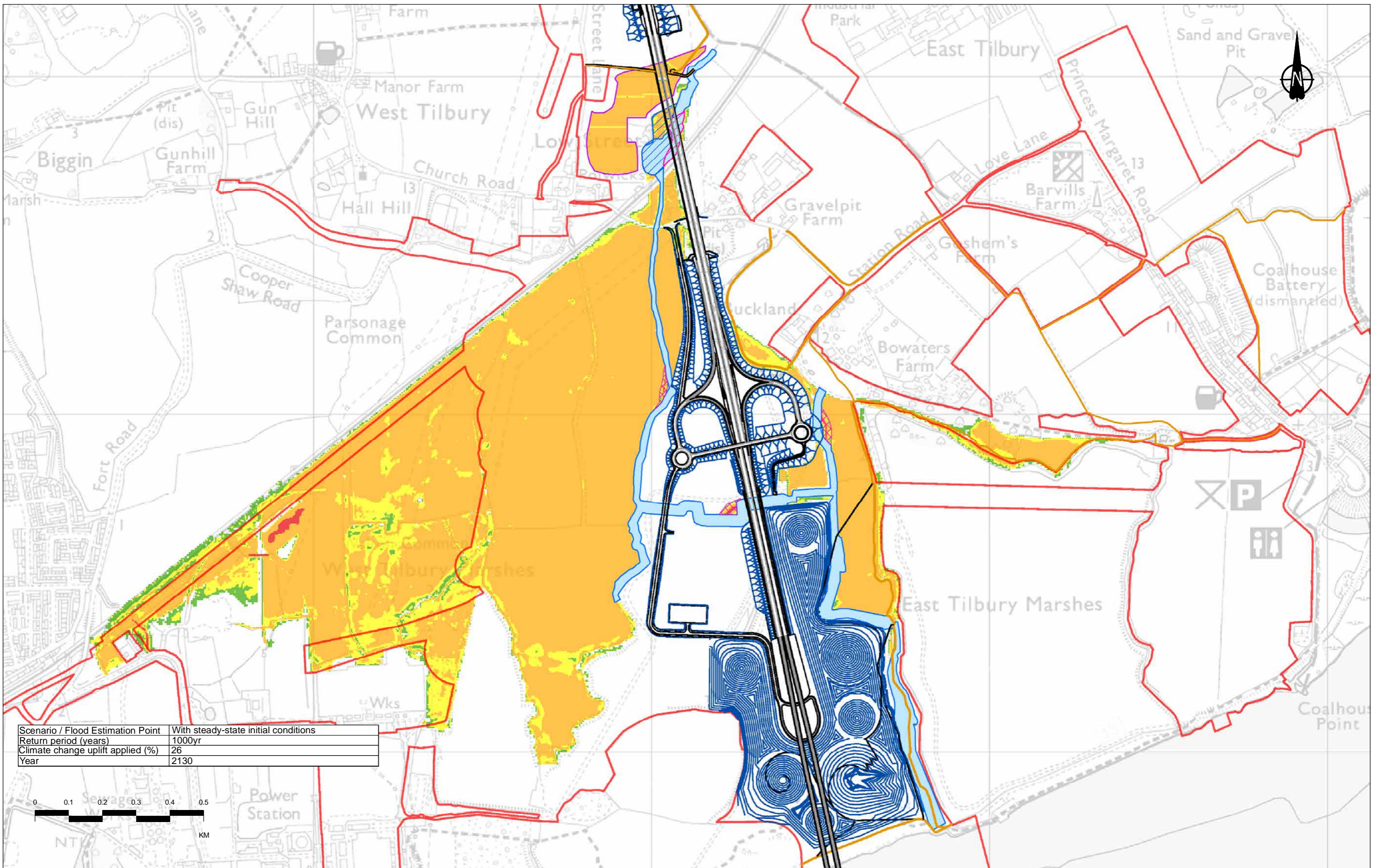
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all



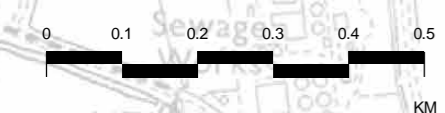
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Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 13 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01122				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	1000yr
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

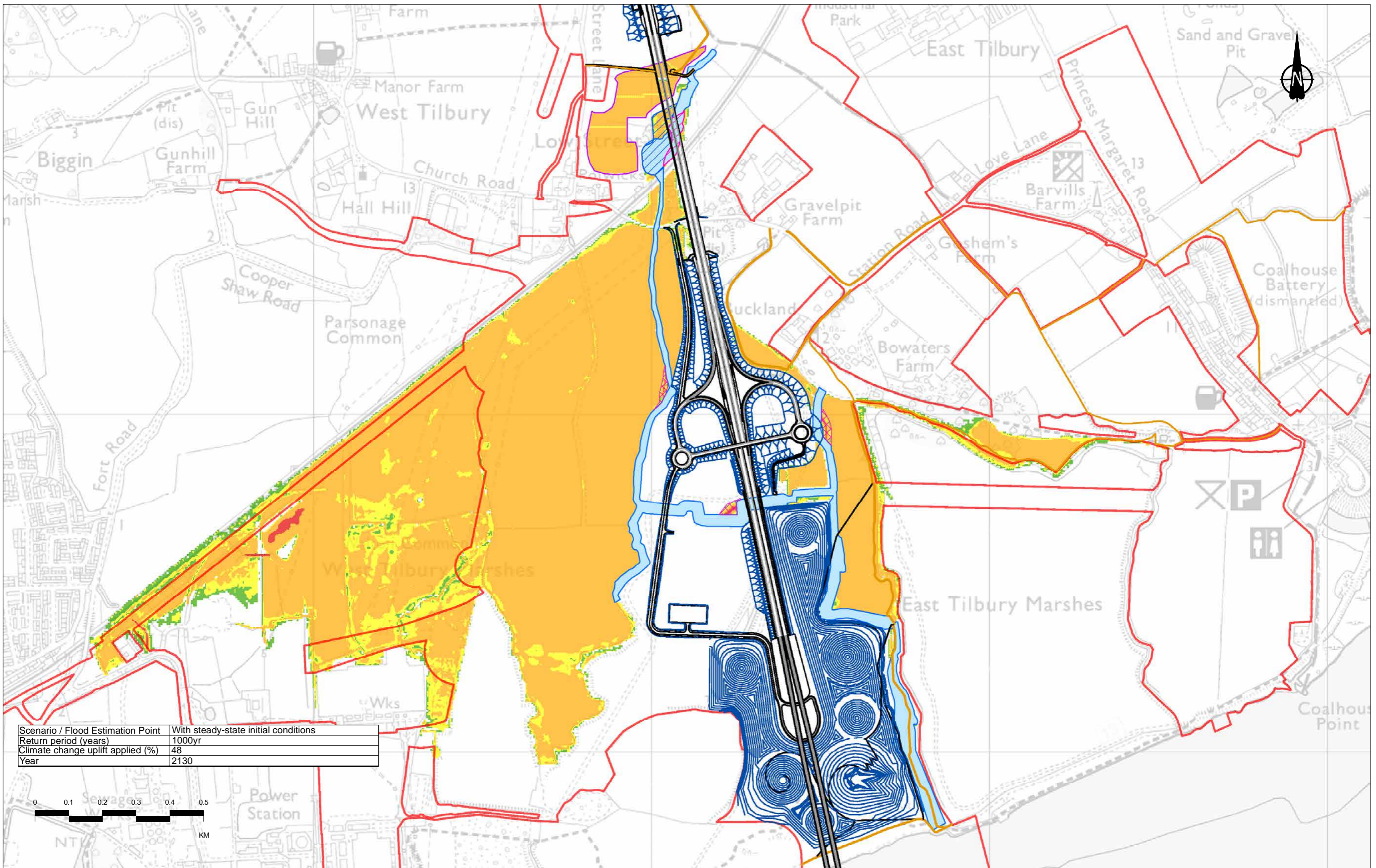
1D Channel	Alignment	Maximum flood hazard category
1D Channel diversions	Earthworks	
Compensation area	NMU Routes	
Existing reservoir infilled		
Revised reservoir footprint		
Order Limits		Very low hazard
		Danger for some
		Danger for most
		Danger for all

Client: national highways

Project: Basildon South

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 14 of 15				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01123				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	1000yr
Climate change uplift applied (%)	48
Year	2130

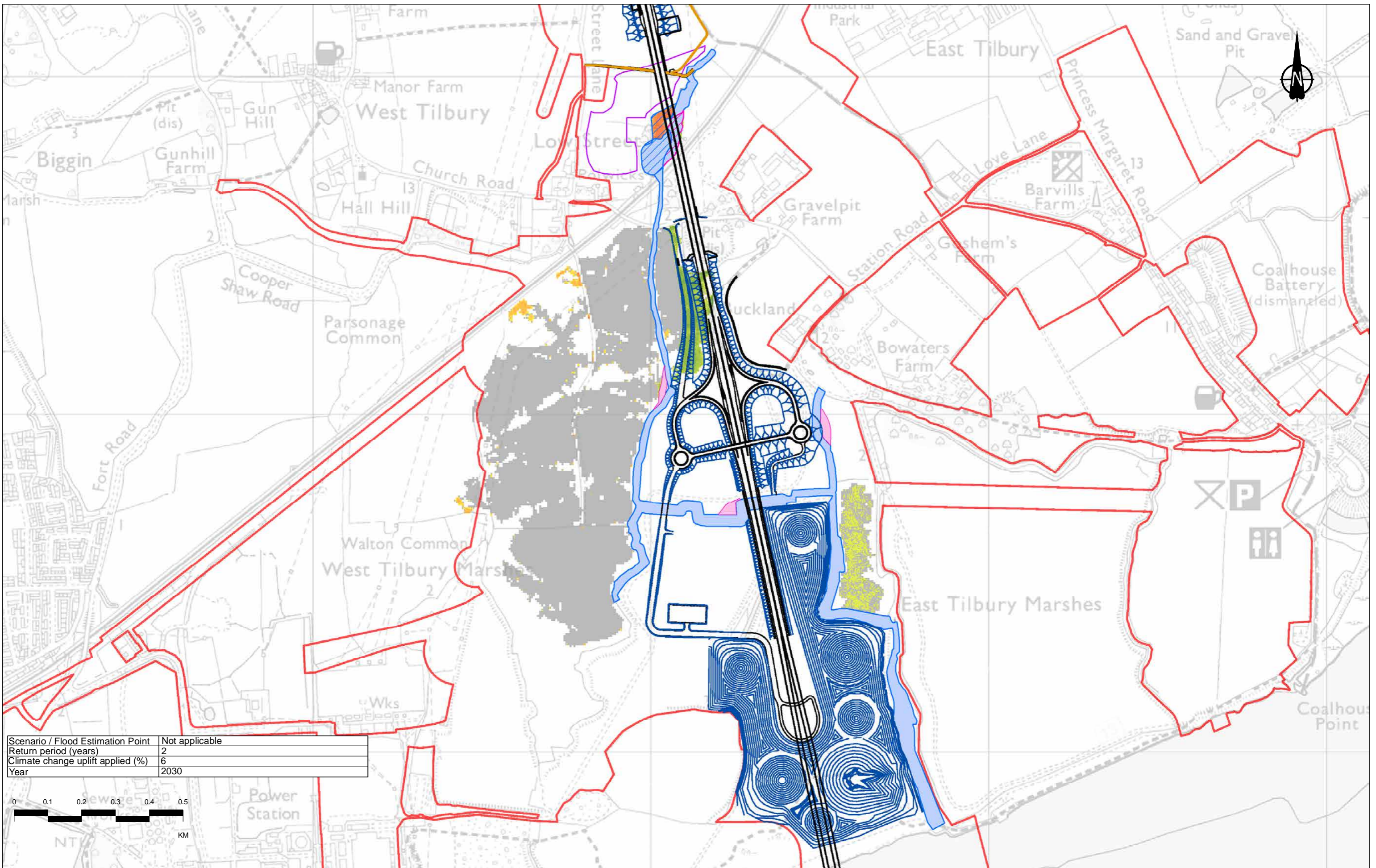


Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

1D Channel	Alignment	Very low hazard
1D Channel diversions	Earthworks	Danger for some
Compensation area	NMU Routes	Danger for most
Existing reservoir infilled		Danger for all
Revised reservoir footprint		
Order Limits		

		Client	DCO Application	Original Size	A3	Revision	P01
		Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:10,000
		Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 15 of 15				
		Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01124				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2
Climate change uplift applied (%)	6
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

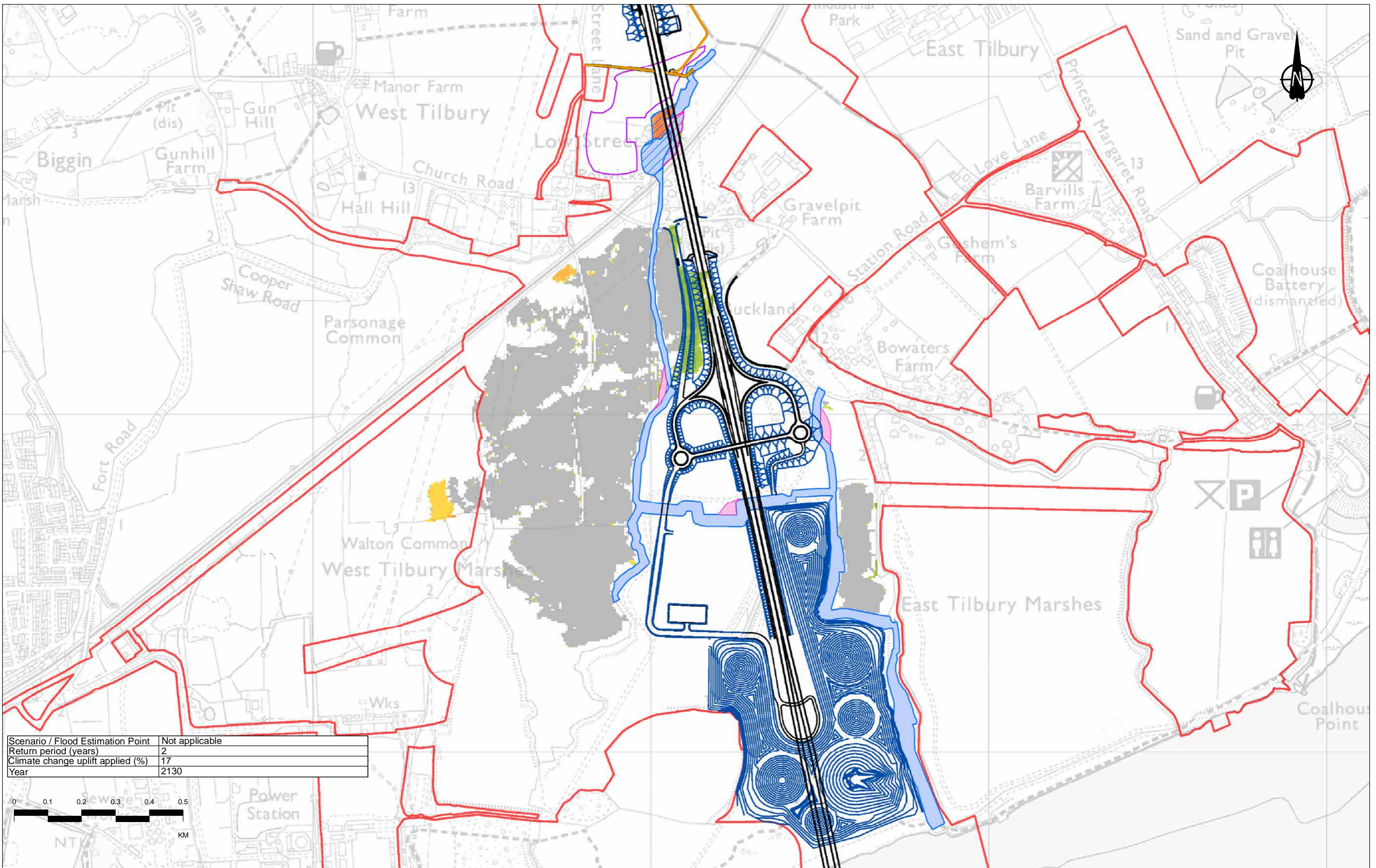
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 1 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01125				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2
Climate change uplift applied (%)	17
Year	2130



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P01	SB	02/08/2022
Rev	Status	Rev. Date
		Purpose of revision
	Drawn	Check'd
	Apprv'd	

Legend

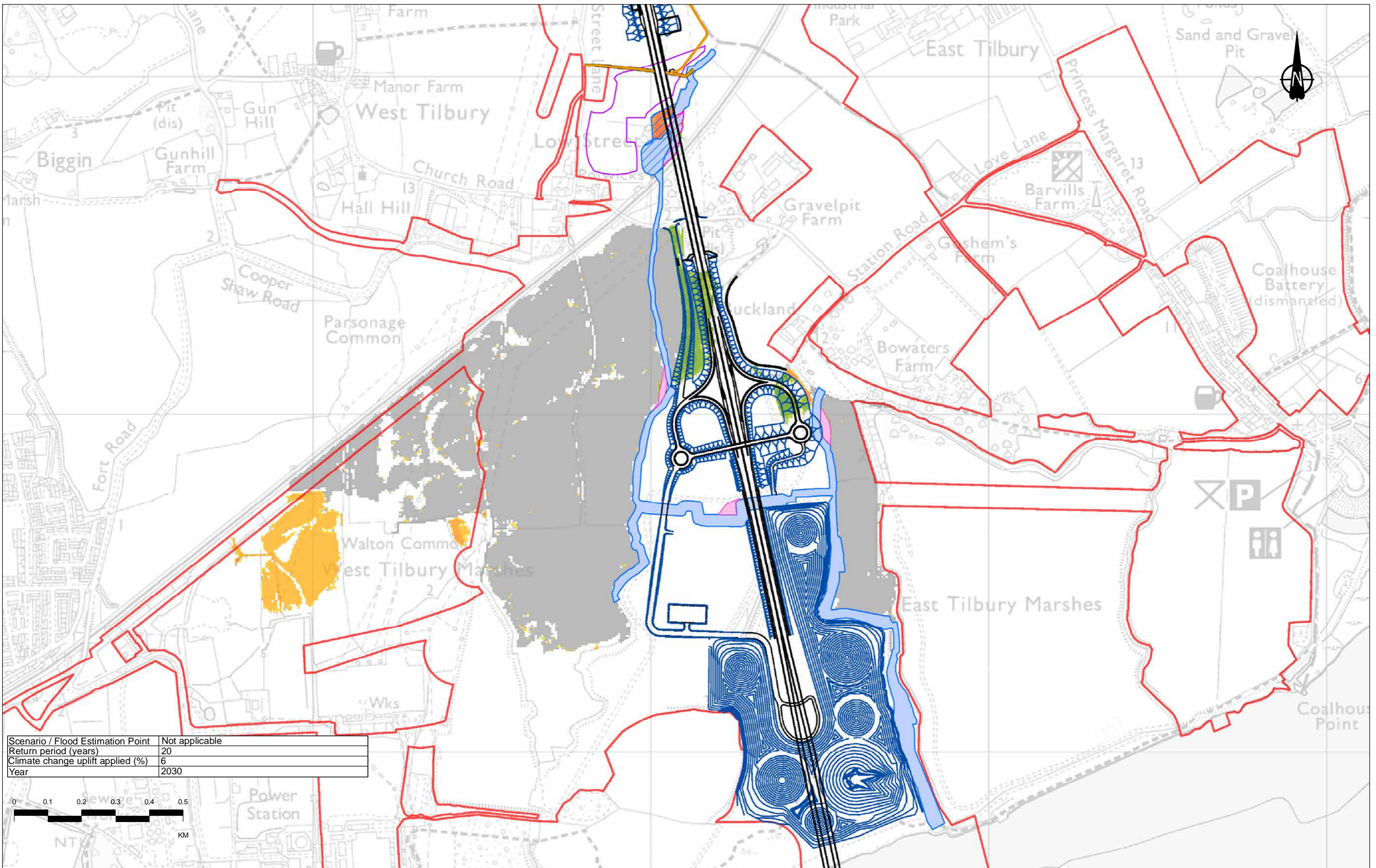
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 2 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01126				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20
Climate change uplift applied (%)	6
Year	2030



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

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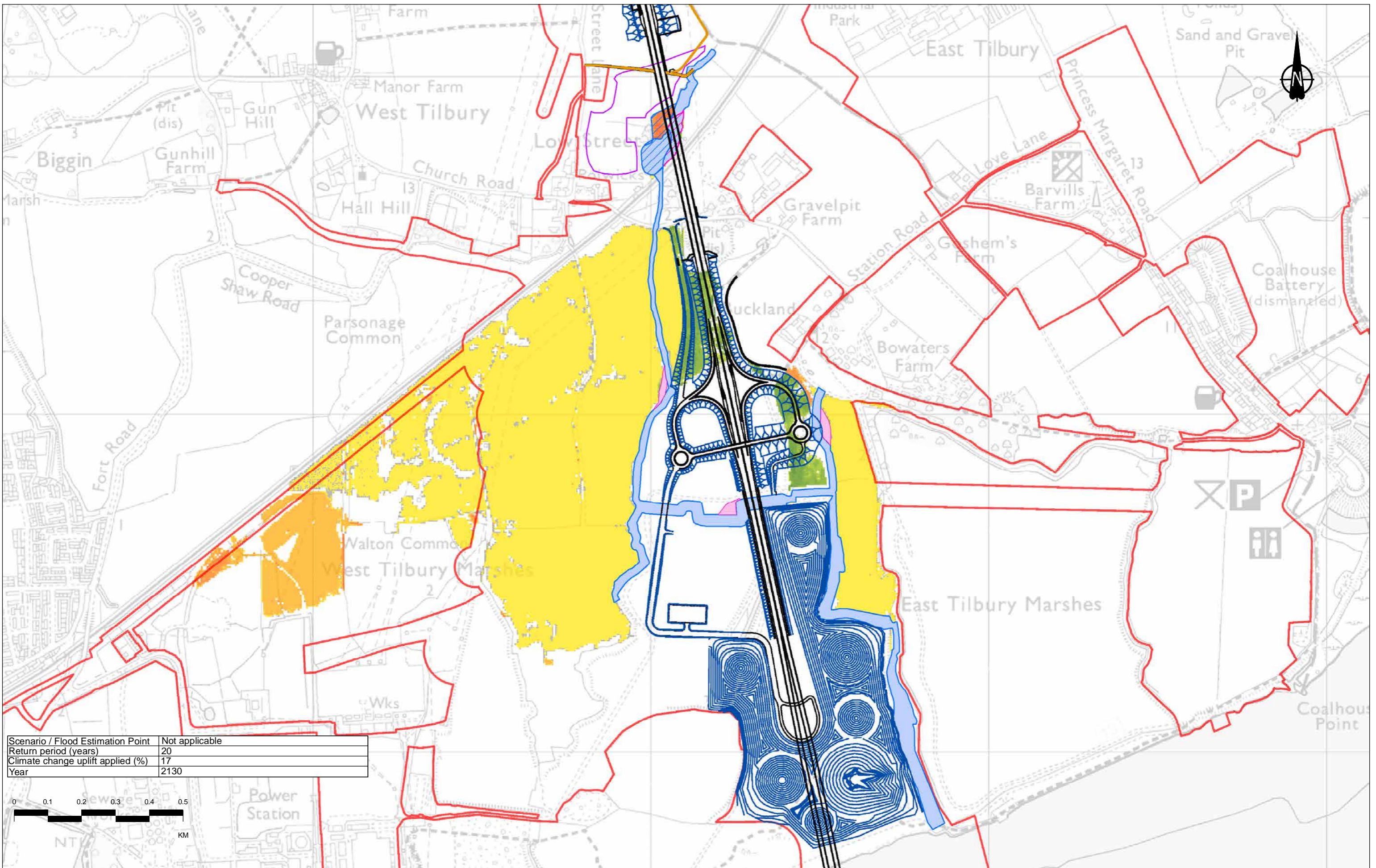
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



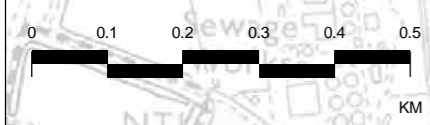
national highways

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 3 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01127				



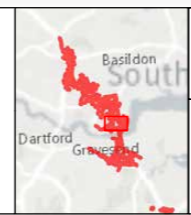
Scenario / Flood Estimation Point	Not applicable
Return period (years)	20
Climate change uplift applied (%)	17
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

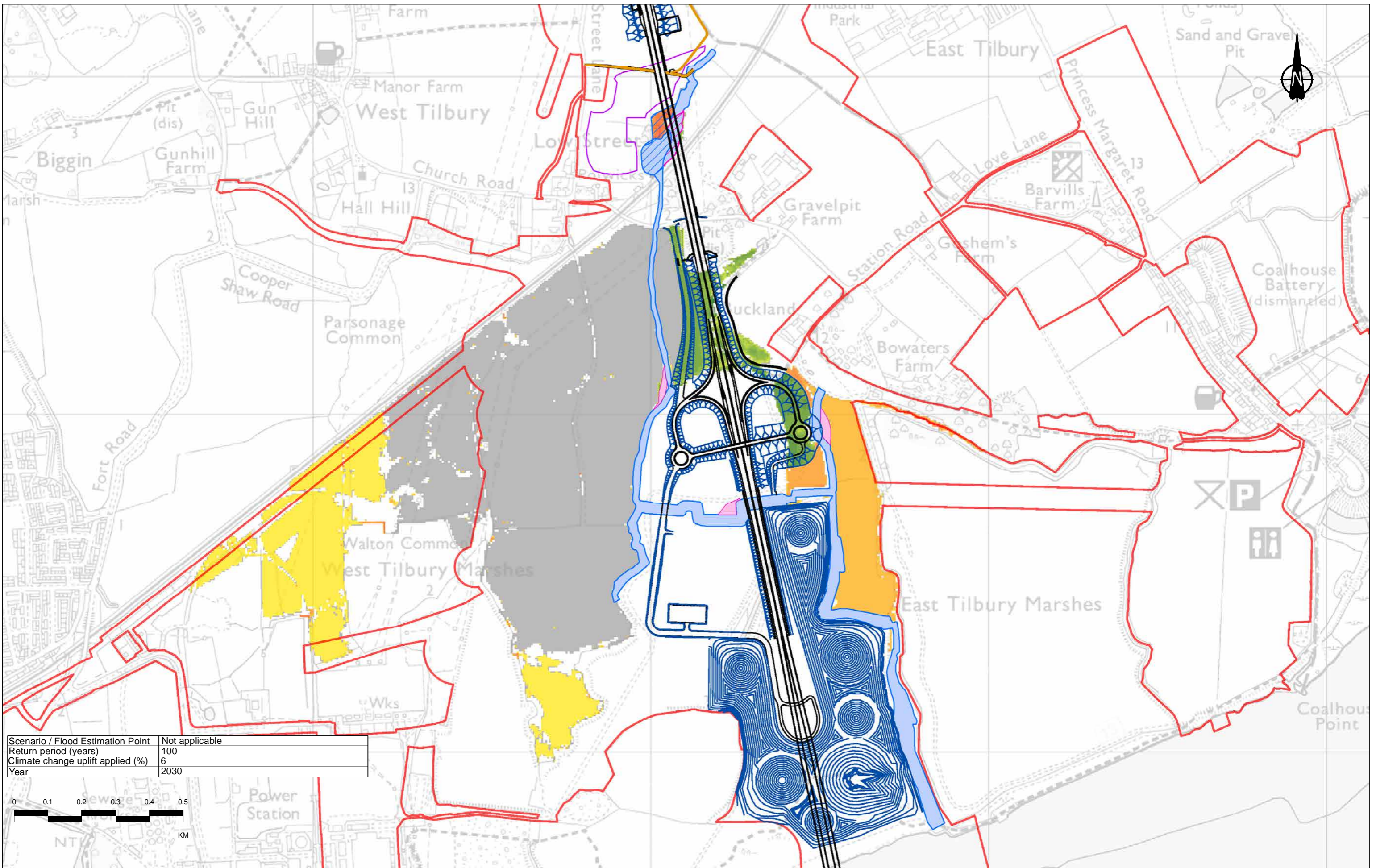
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 4 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01128				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



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<table border="1"> <tr> <td>P01</td> <td>SB</td> <td>02/08/2022</td> <td>DCO Application</td> <td>KK</td> <td>RB</td> <td>BF</td> </tr> <tr> <td>Rev</td> <td>Status</td> <td>Rev. Date</td> <td>Purpose of revision</td> <td>Drawn</td> <td>Check'd</td> <td>Apprv'd</td> </tr> </table>	P01	SB	02/08/2022	DCO Application	KK	RB	BF	Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								

Legend

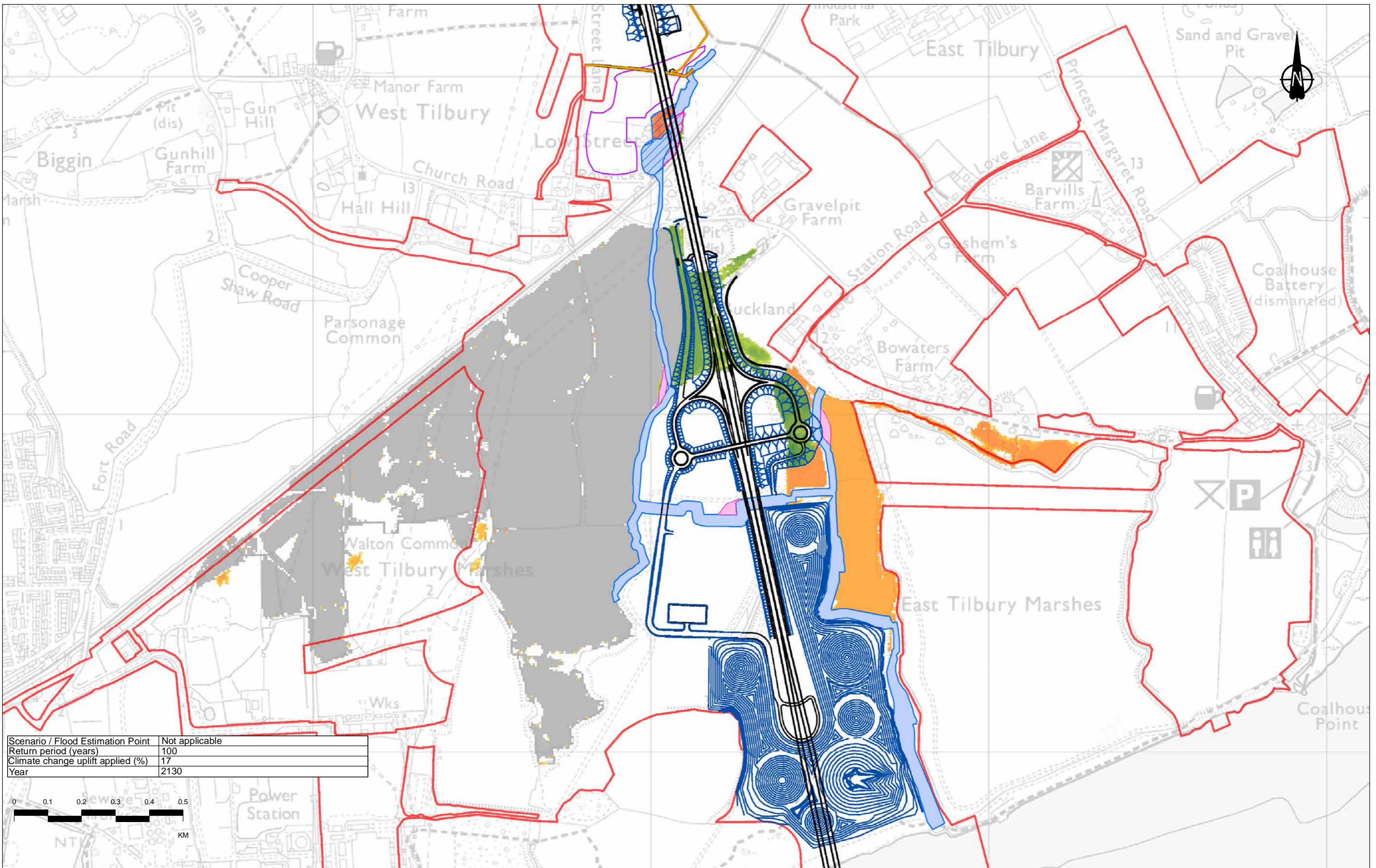
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 5 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01129				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

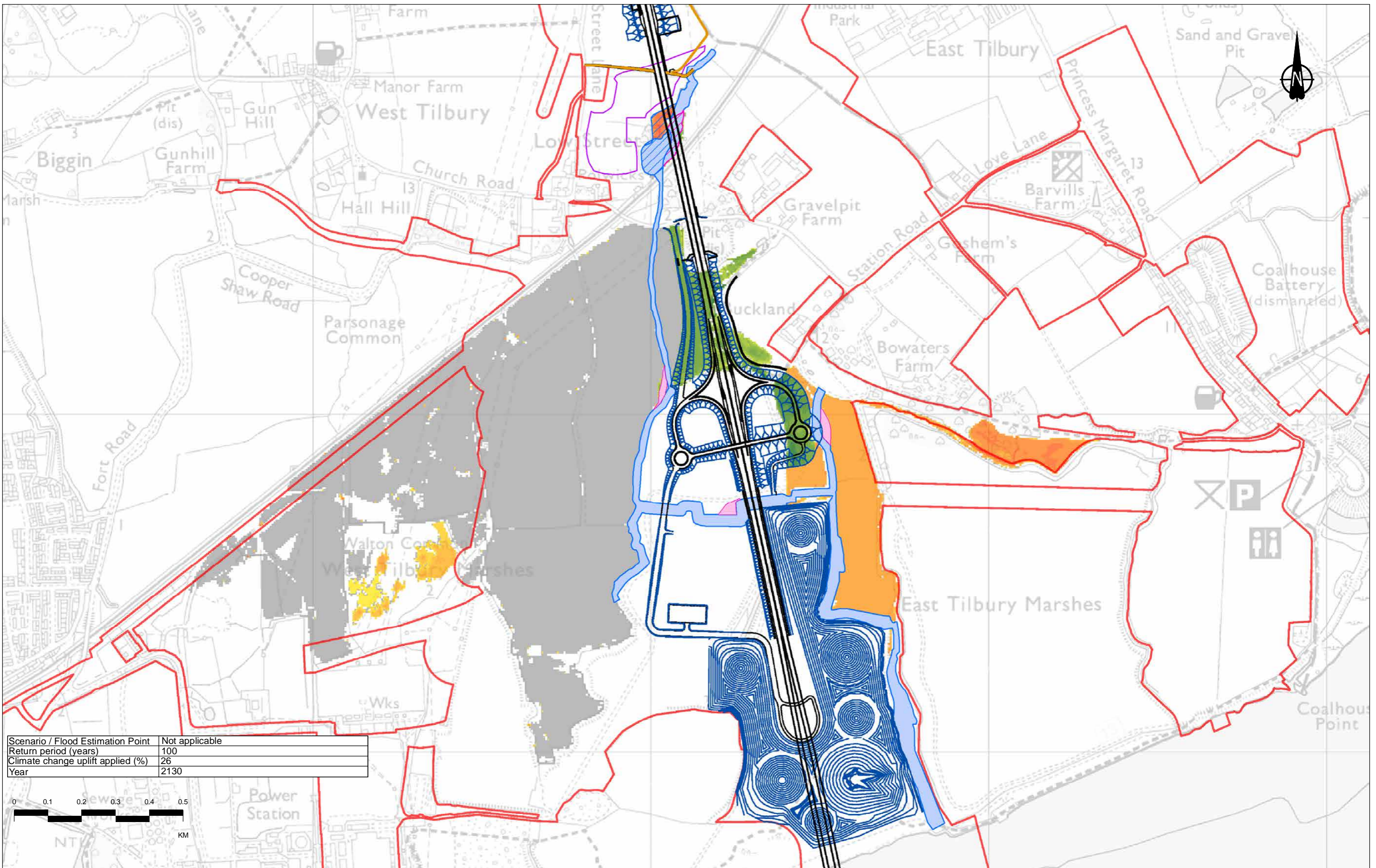
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01130				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

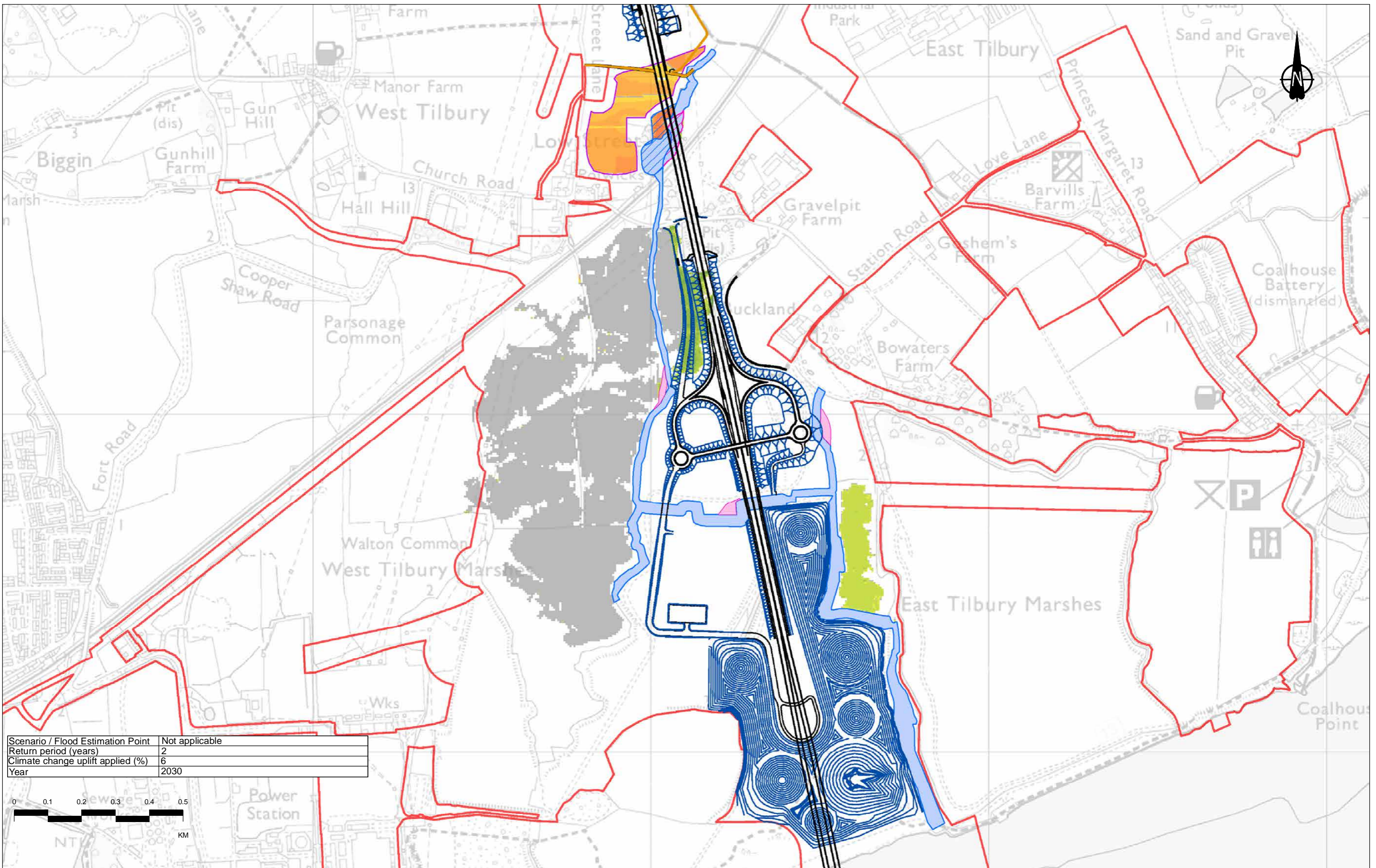
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



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LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(without mitigation) minus pre-development Sheet 7 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01131				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2
Climate change uplift applied (%)	6
Year	2030



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P01 SB 02/08/2022 DCO Application KK RB BF
Rev Status Rev. Date Purpose of revision Drawn Check'd Apprv'd

Legend

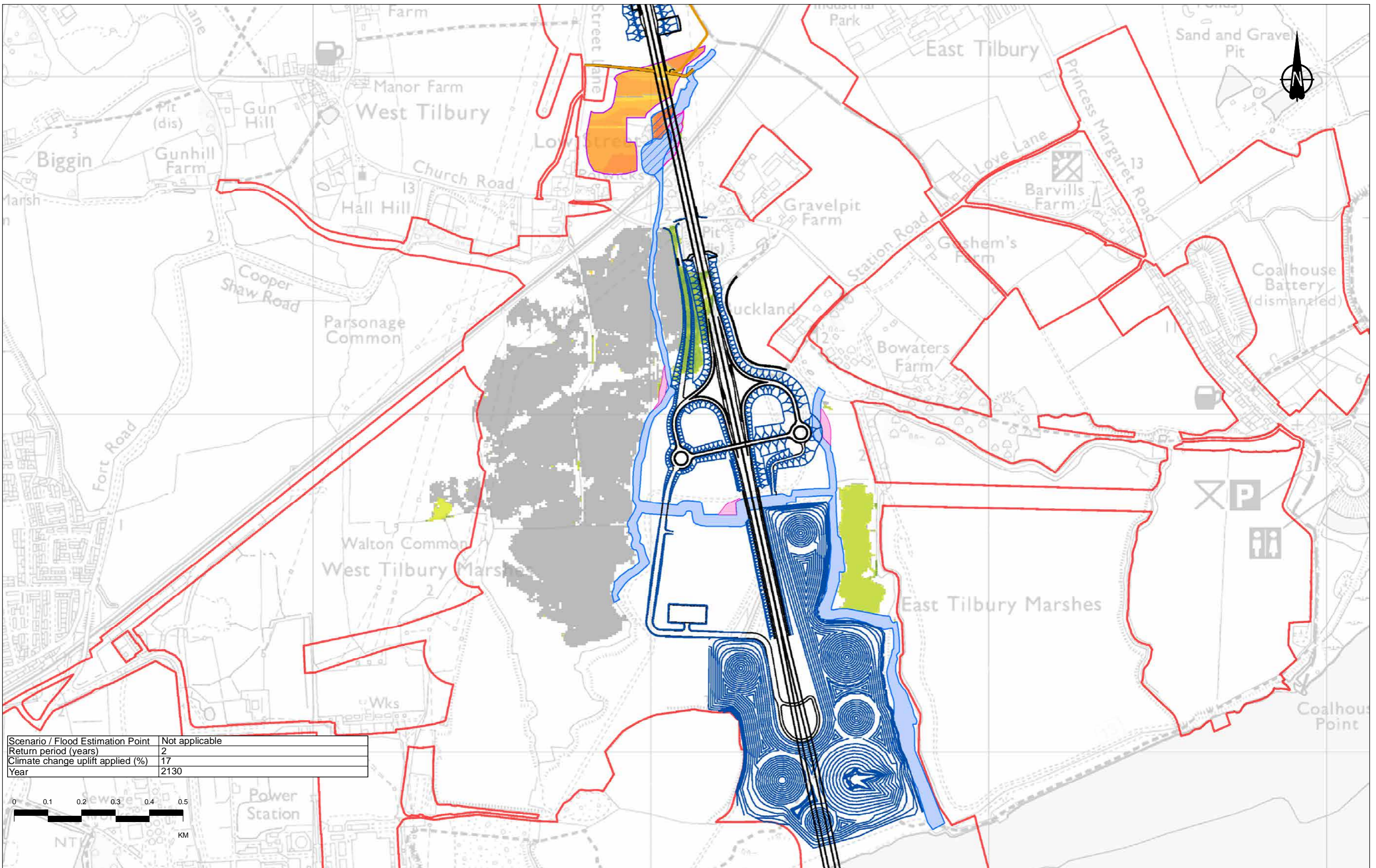
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 1 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01132				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	2
Climate change uplift applied (%)	17
Year	2130



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<table border="1"> <tr> <td>Rev</td> <td>Status</td> <td>Rev. Date</td> <td>Purpose of revision</td> <td>Drawn</td> <td>Check'd</td> <td>Apprv'd</td> </tr> <tr> <td>P01</td> <td>SB</td> <td>02/08/2022</td> <td>DCO Application</td> <td>KK</td> <td>RB</td> <td>BF</td> </tr> </table>	Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd	P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								
P01	SB	02/08/2022	DCO Application	KK	RB	BF								

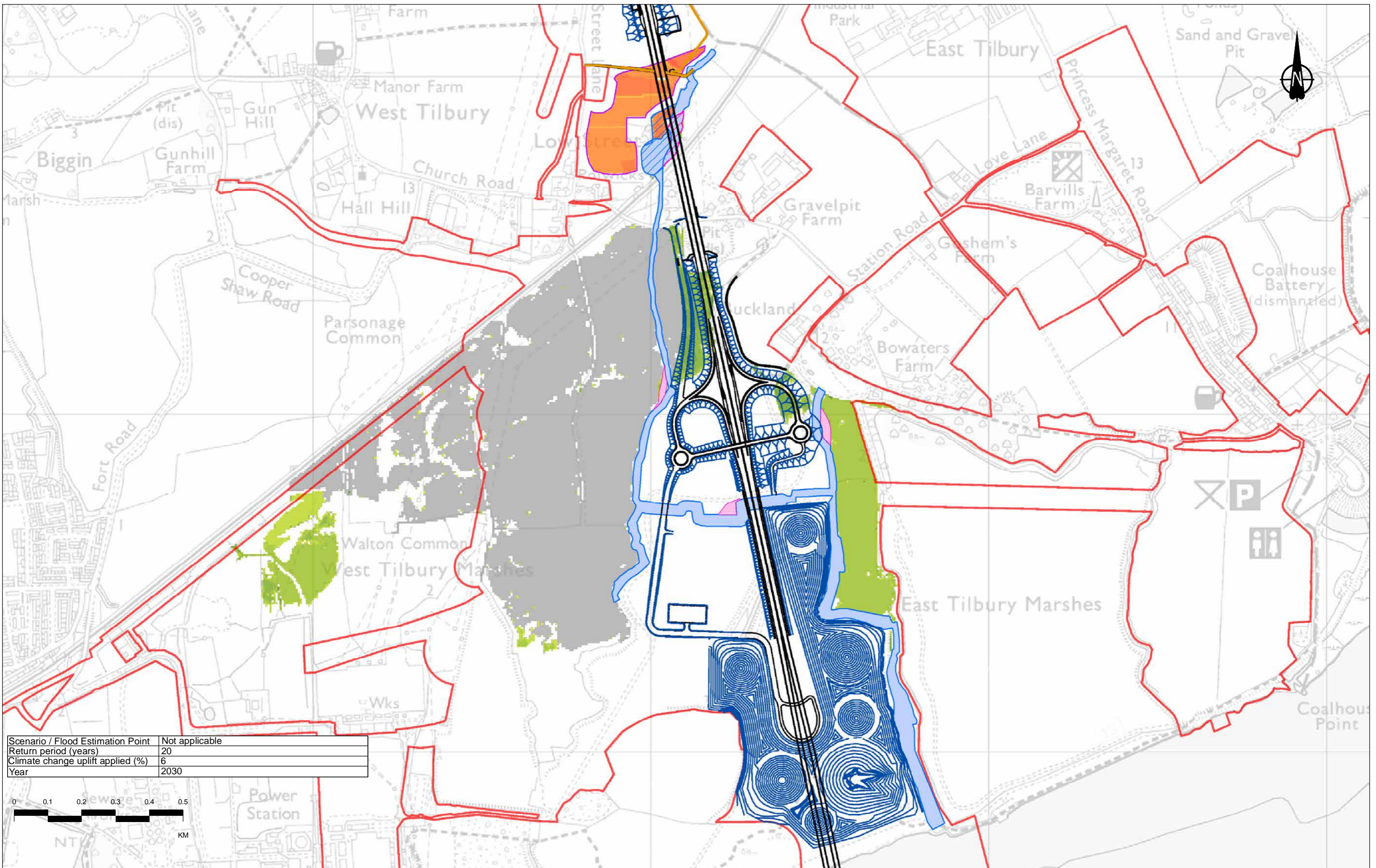
<ul style="list-style-type: none"> 1D Channel diversions Compensation storage area Existing reservoir infilled Revised reservoir footprint Order Limits 	<ul style="list-style-type: none"> Proposed LTC alignment Alignment Earthworks NMU Routes 	Flood depth difference (m) <ul style="list-style-type: none"> < -1.0 -1.0 - -0.5 -0.5 - -0.2 -0.2 - -0.1 -0.1 - -0.05 	<ul style="list-style-type: none"> -0.05 - -0.02 -0.02 - -0.01 -0.01 - 0.01 0.01 - 0.02 0.02 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.5 0.5 - 1 > 1.0
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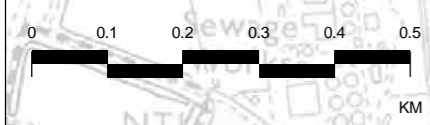
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 2 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01133				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20
Climate change uplift applied (%)	6
Year	2030

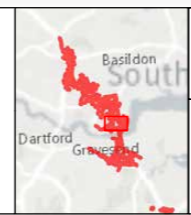


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

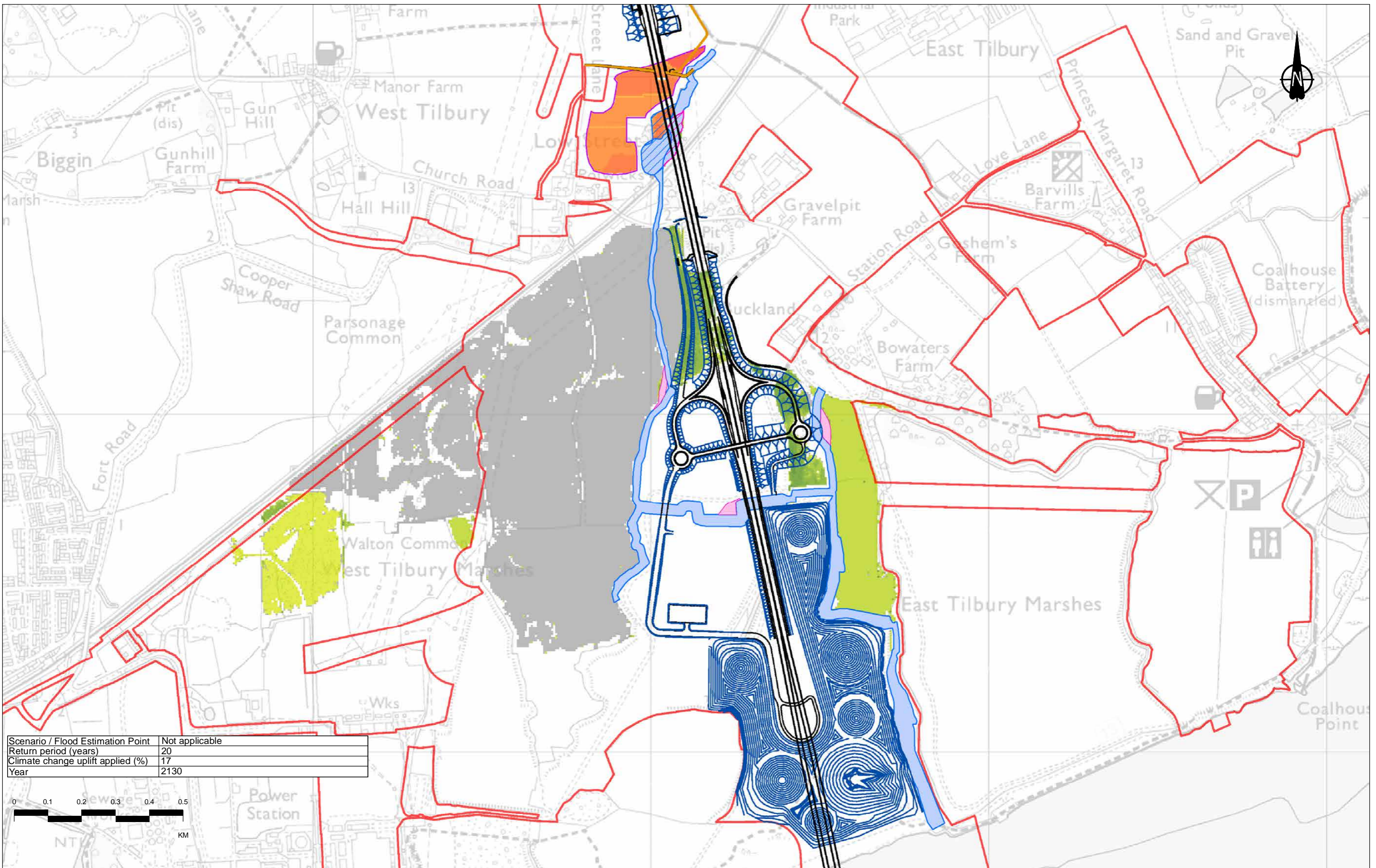
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 3 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01134				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	20
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

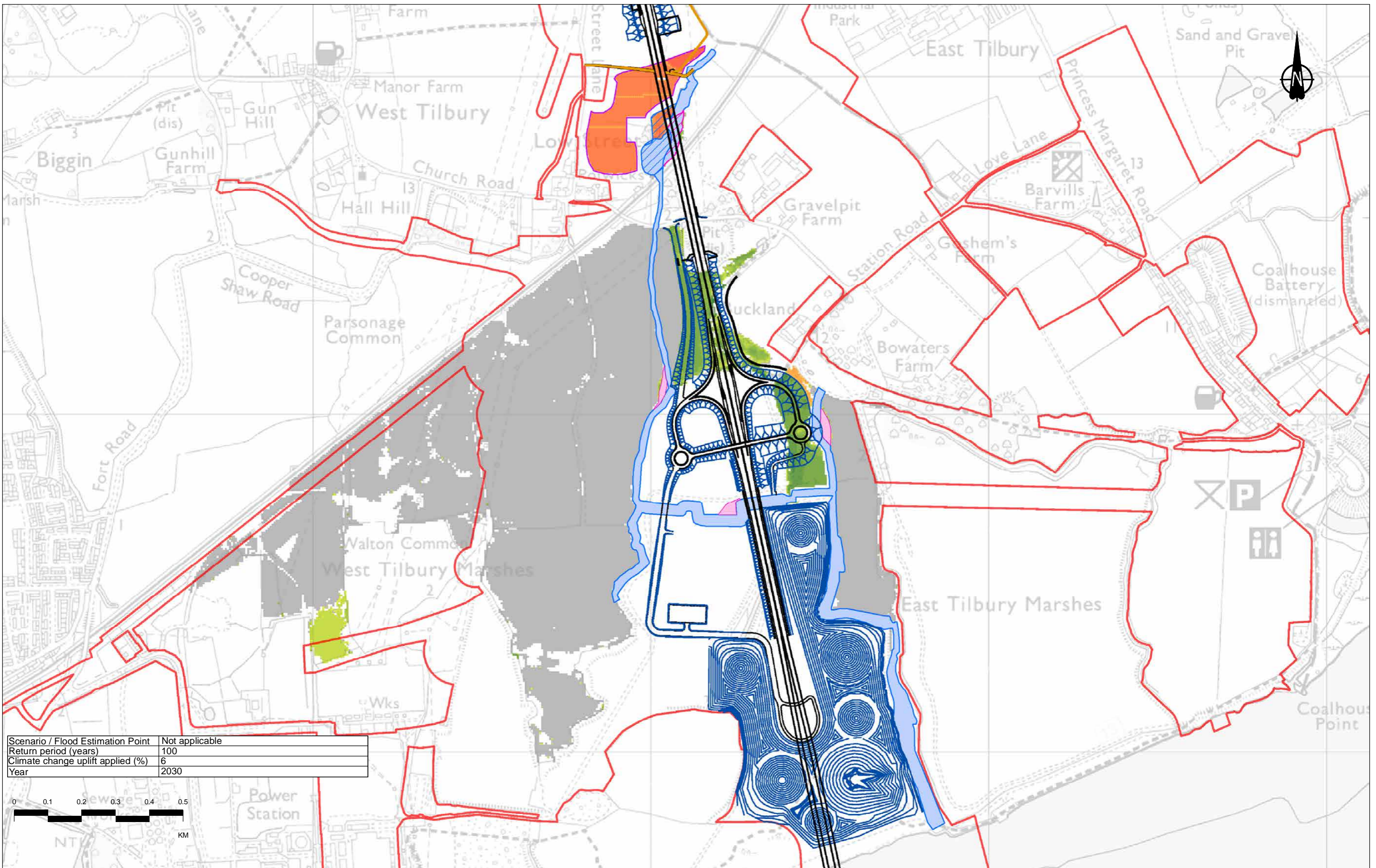
Legend		Proposed LTC alignment		Flood depth difference (m)	
	1D Channel diversions		Alignment		-0.05 - -0.02
	Compensation storage area		Earthworks		< -1.0
	Existing reservoir infilled		NMU Routes		-1.0 - -0.5
	Revised reservoir footprint				-0.5 - -0.2
	Order Limits				-0.2 - -0.1
					-0.1 - -0.05
					0.05 - 0.1
					0.1 - 0.2
					0.2 - 0.5
					0.5 - 1
					> 1.0



Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 4 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01135				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

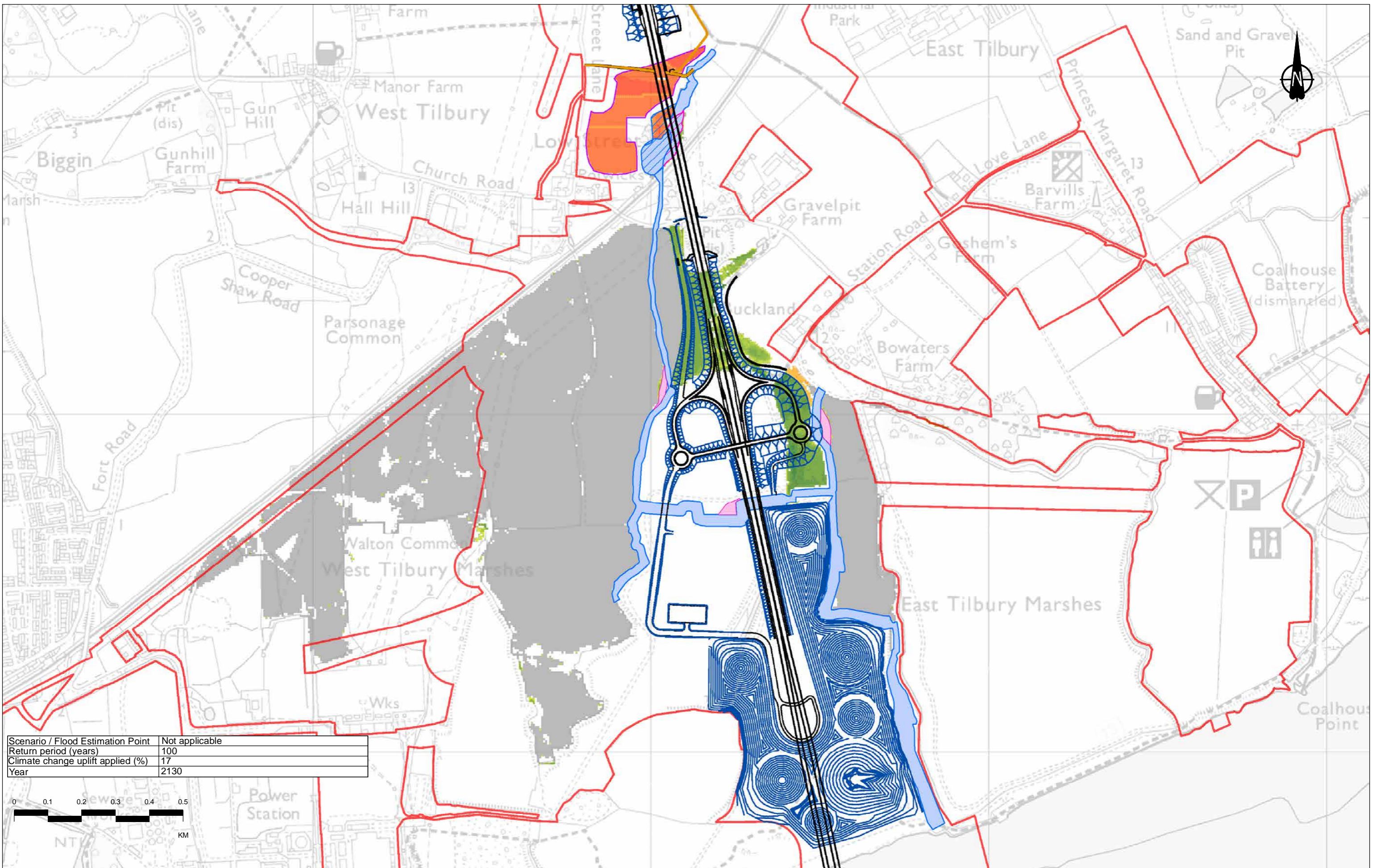
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 5 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01136				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

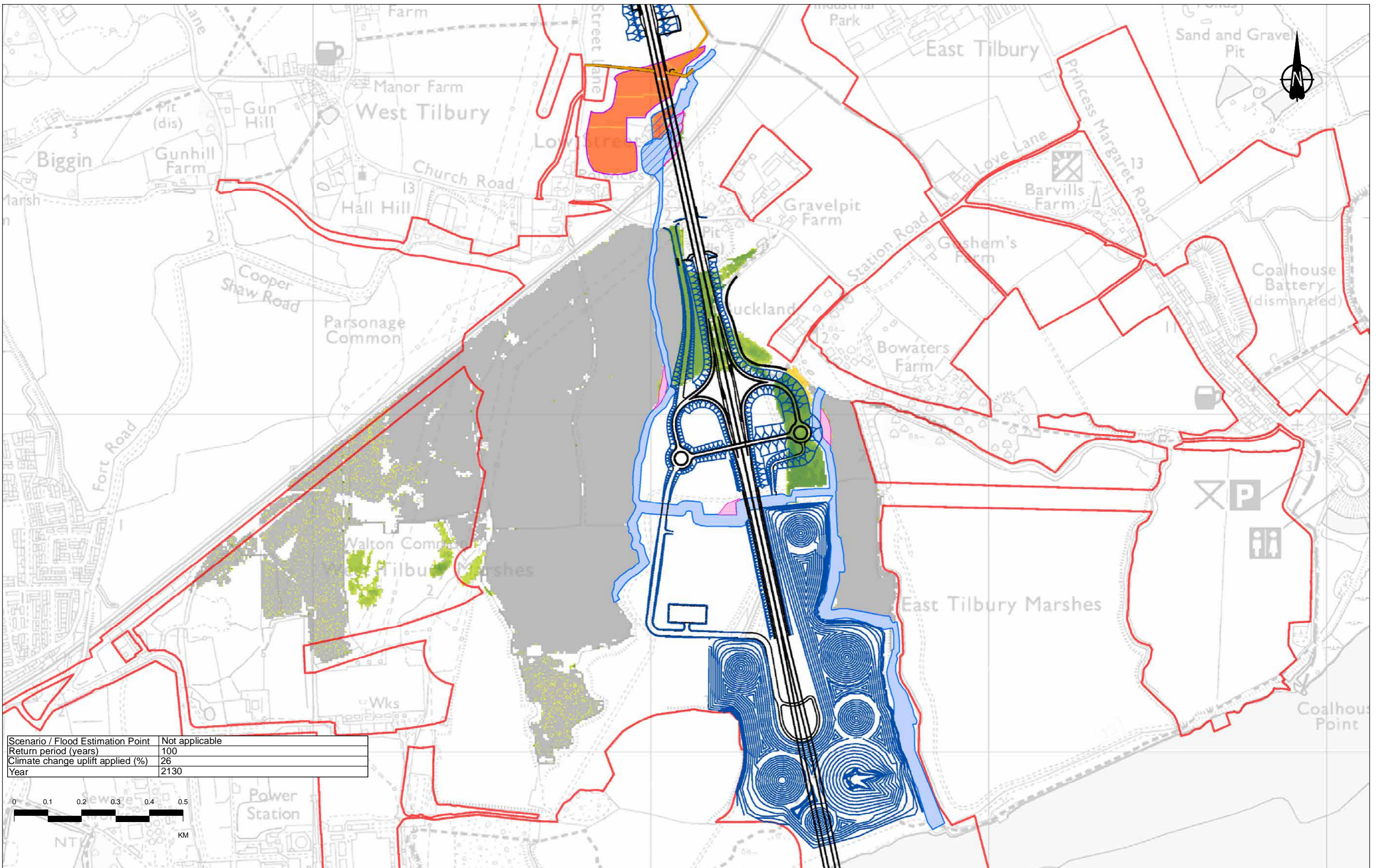
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) <math>< -1.0</math>	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05
			0.05 - 0.1



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01137				



Scenario / Flood Estimation Point	Not applicable
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

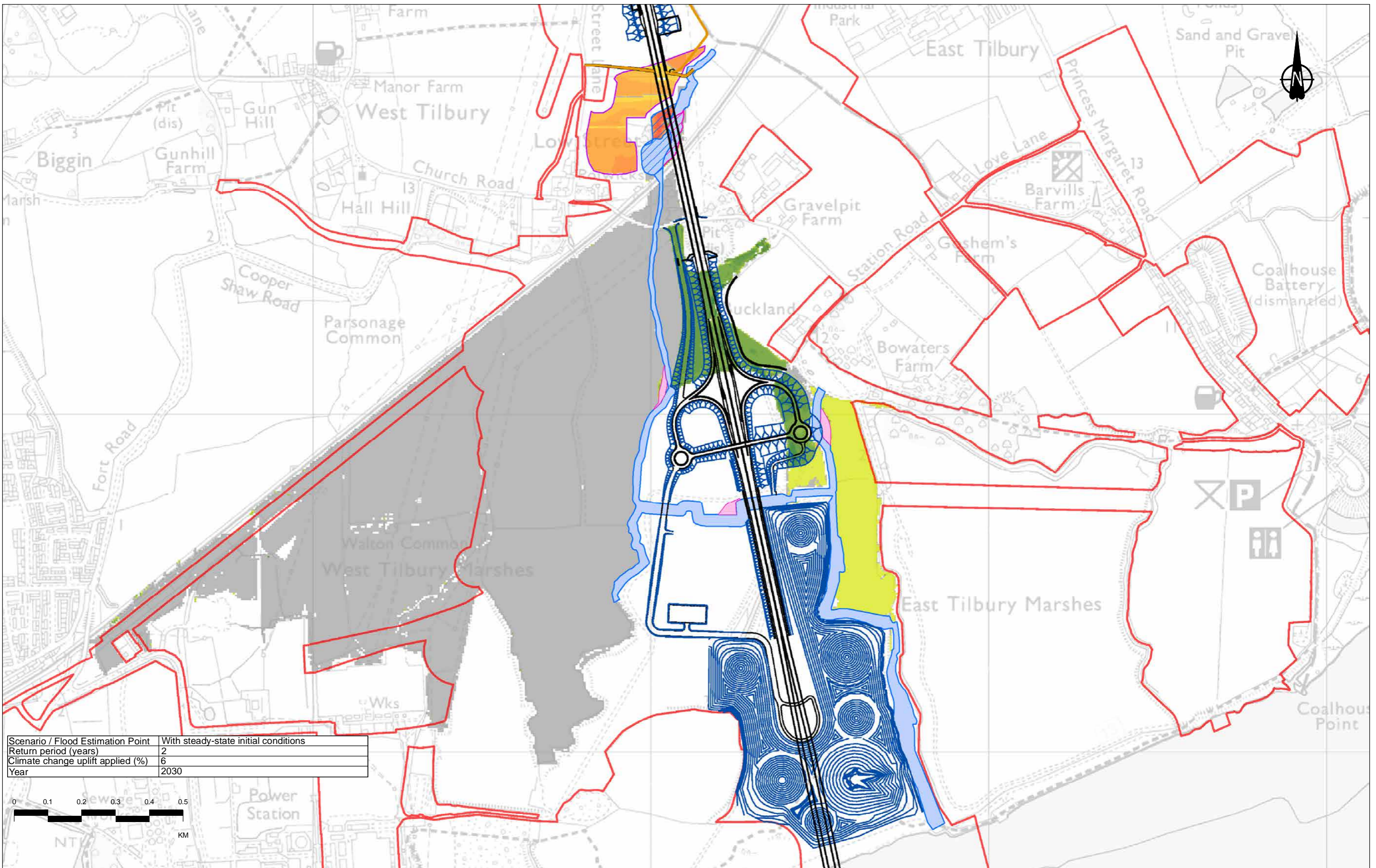
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



national highways

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 7 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01138				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

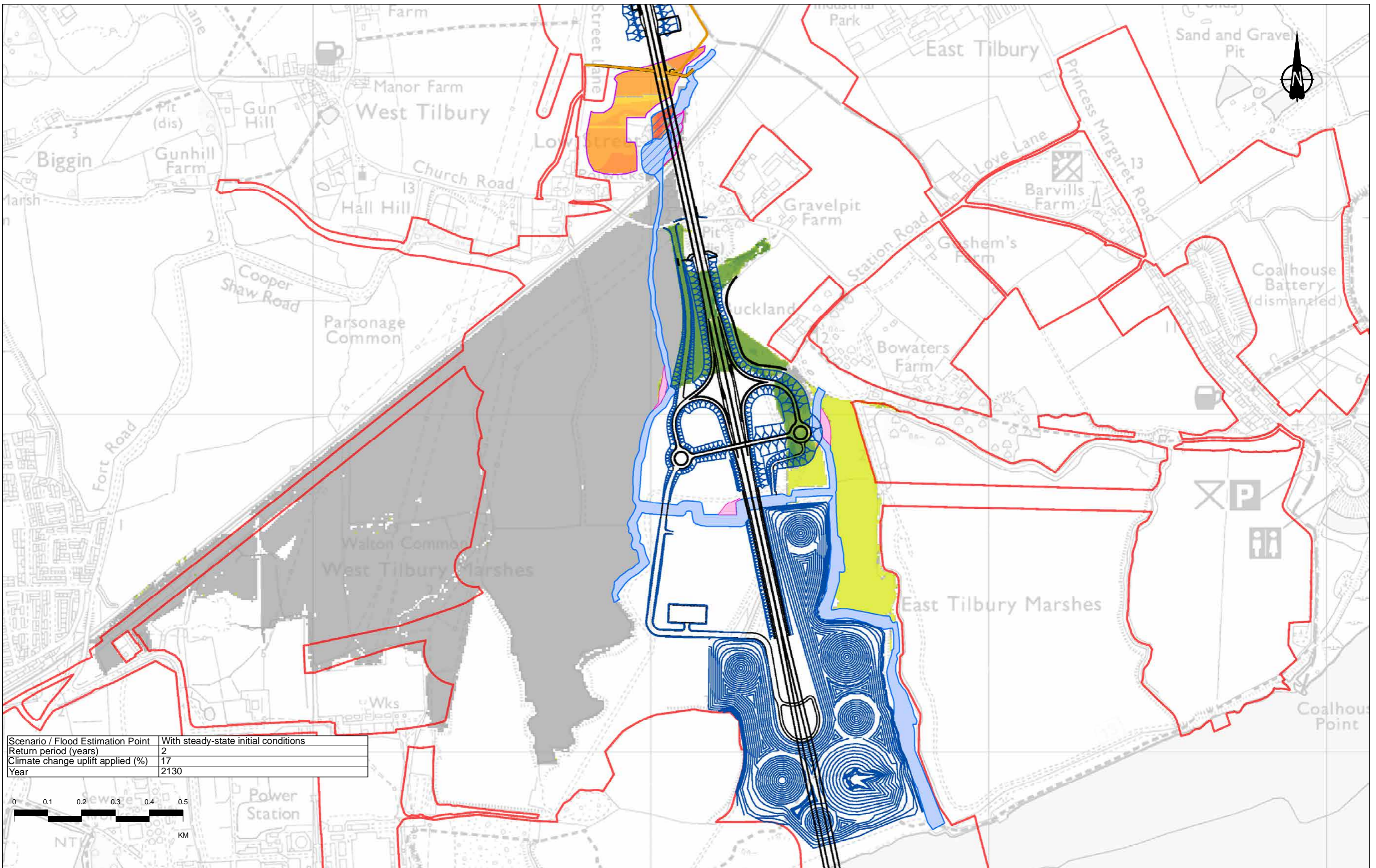
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 1 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01139				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	2
Climate change uplift applied (%)	17
Year	2130



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P01 SB 02/08/2022 DCO Application KK RB BF
Rev Status Rev. Date Purpose of revision Drawn Check'd Apprv'd

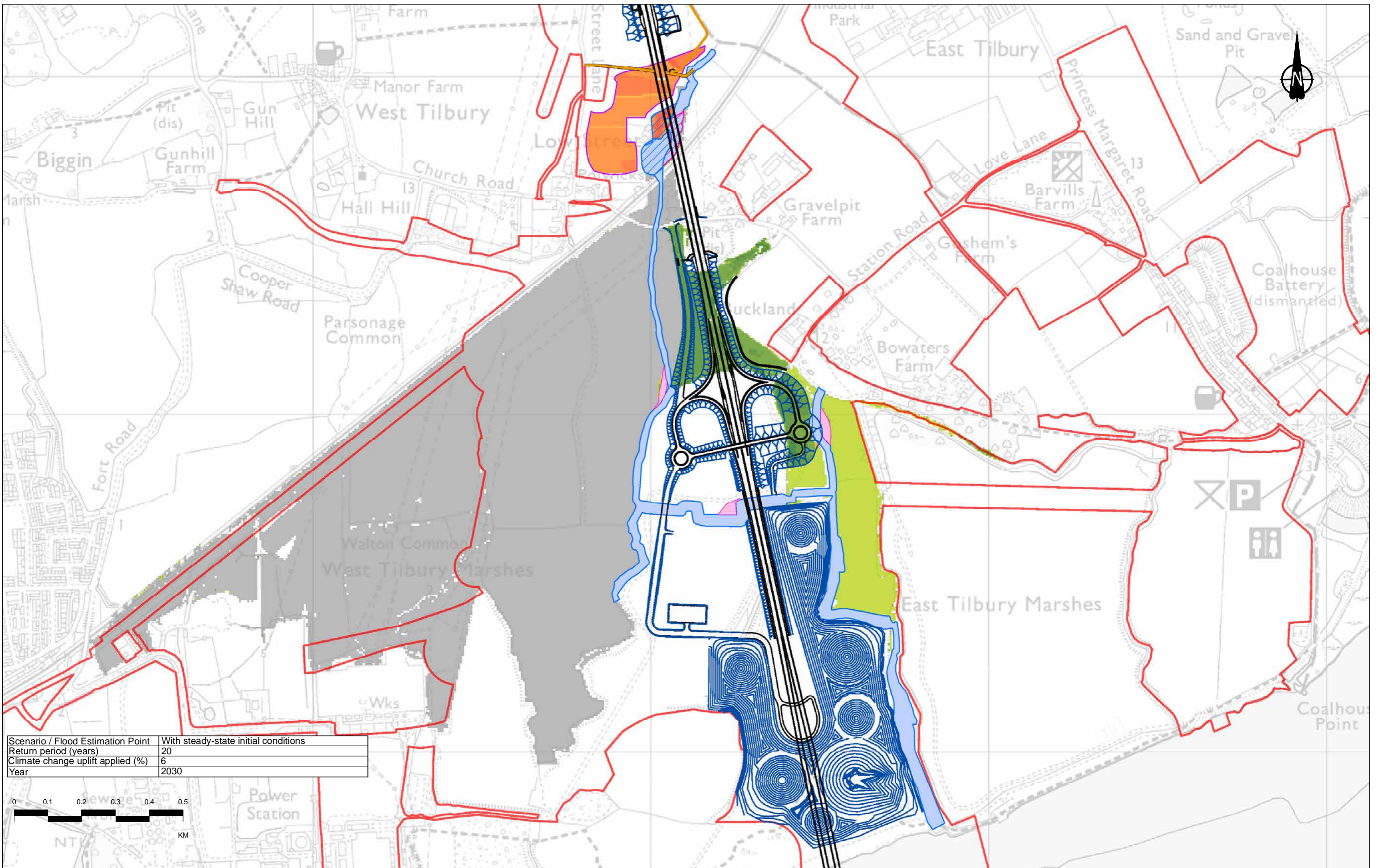
<ul style="list-style-type: none"> 1D Channel diversions Compensation storage area Existing reservoir infilled Revised reservoir footprint Order Limits 	<ul style="list-style-type: none"> Proposed LTC alignment Alignment Earthworks NMU Routes 	Flood depth difference (m) <ul style="list-style-type: none"> < -1.0 -1.0 - -0.5 -0.5 - -0.2 -0.2 - -0.1 -0.1 - -0.05 	<ul style="list-style-type: none"> -0.05 - -0.02 -0.02 - -0.01 -0.01 - 0.01 0.01 - 0.02 0.02 - 0.05 0.05 - 0.1 	<ul style="list-style-type: none"> 0.1 - 0.2 0.2 - 0.5 0.5 - 1 > 1.0
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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 2 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01140				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

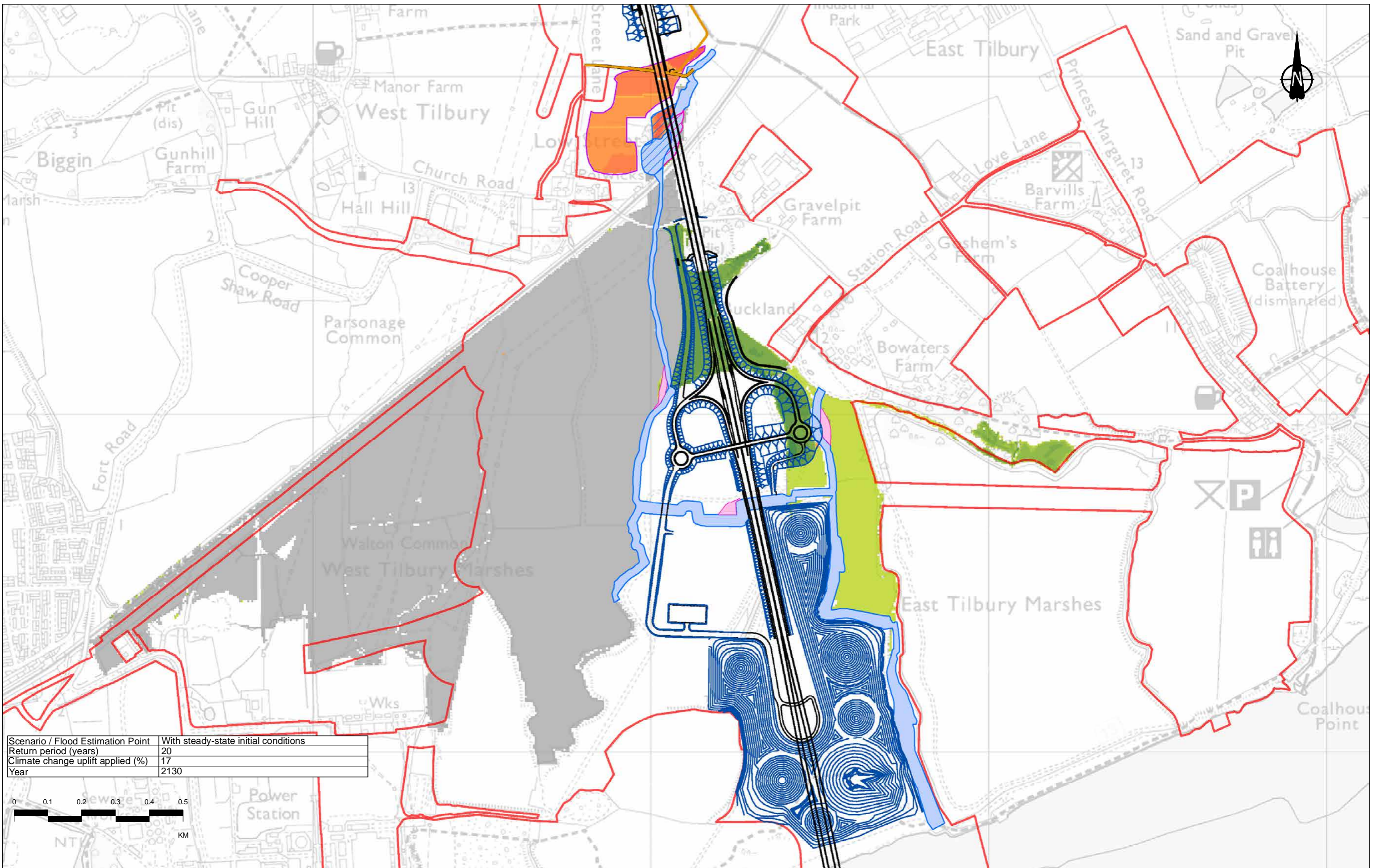
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) <math>< -1.0</math>	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	> 1.0
Order Limits		-0.1 - -0.05	0.05 - 0.1



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 3 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01141				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	20
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

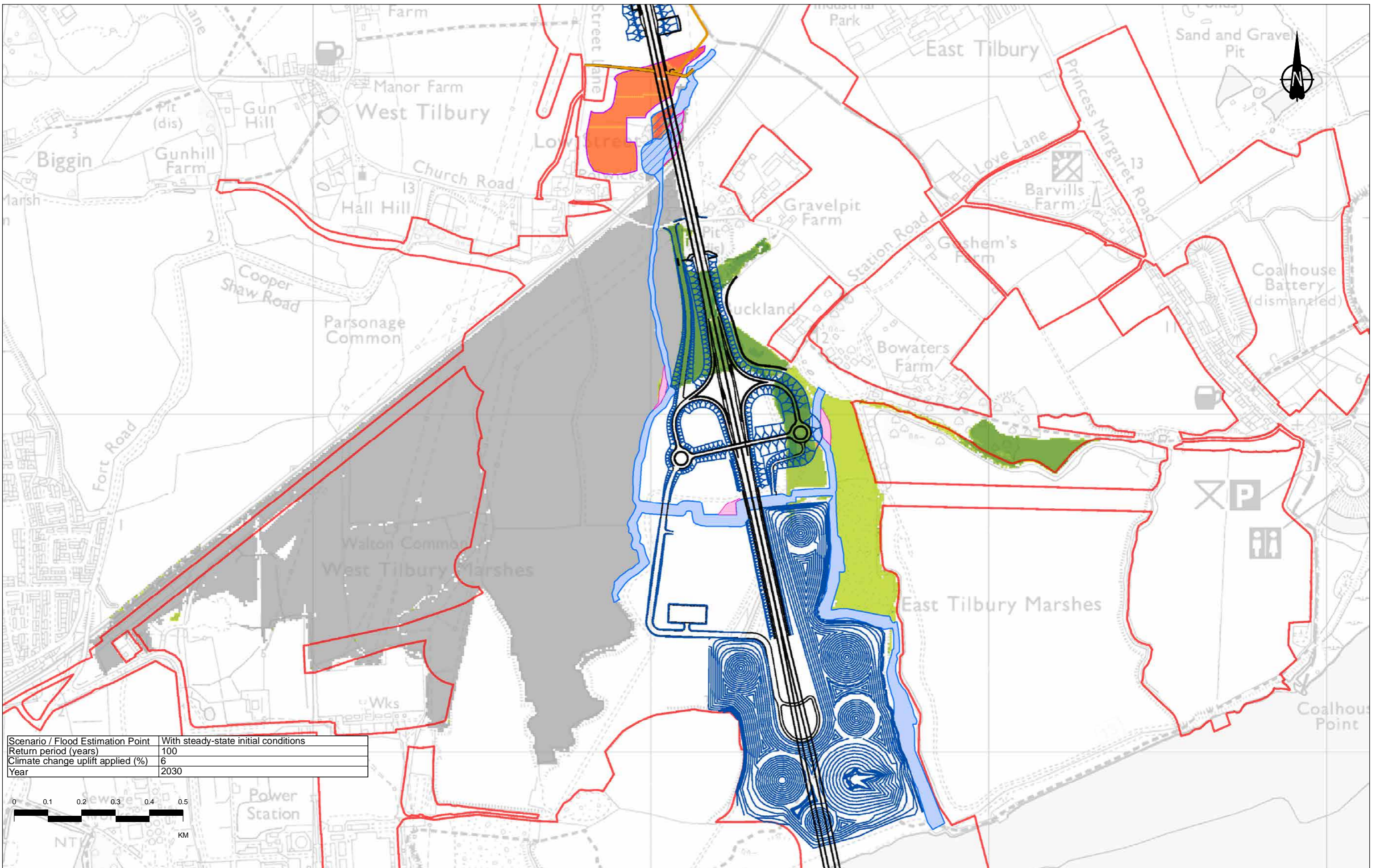
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 4 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01142				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

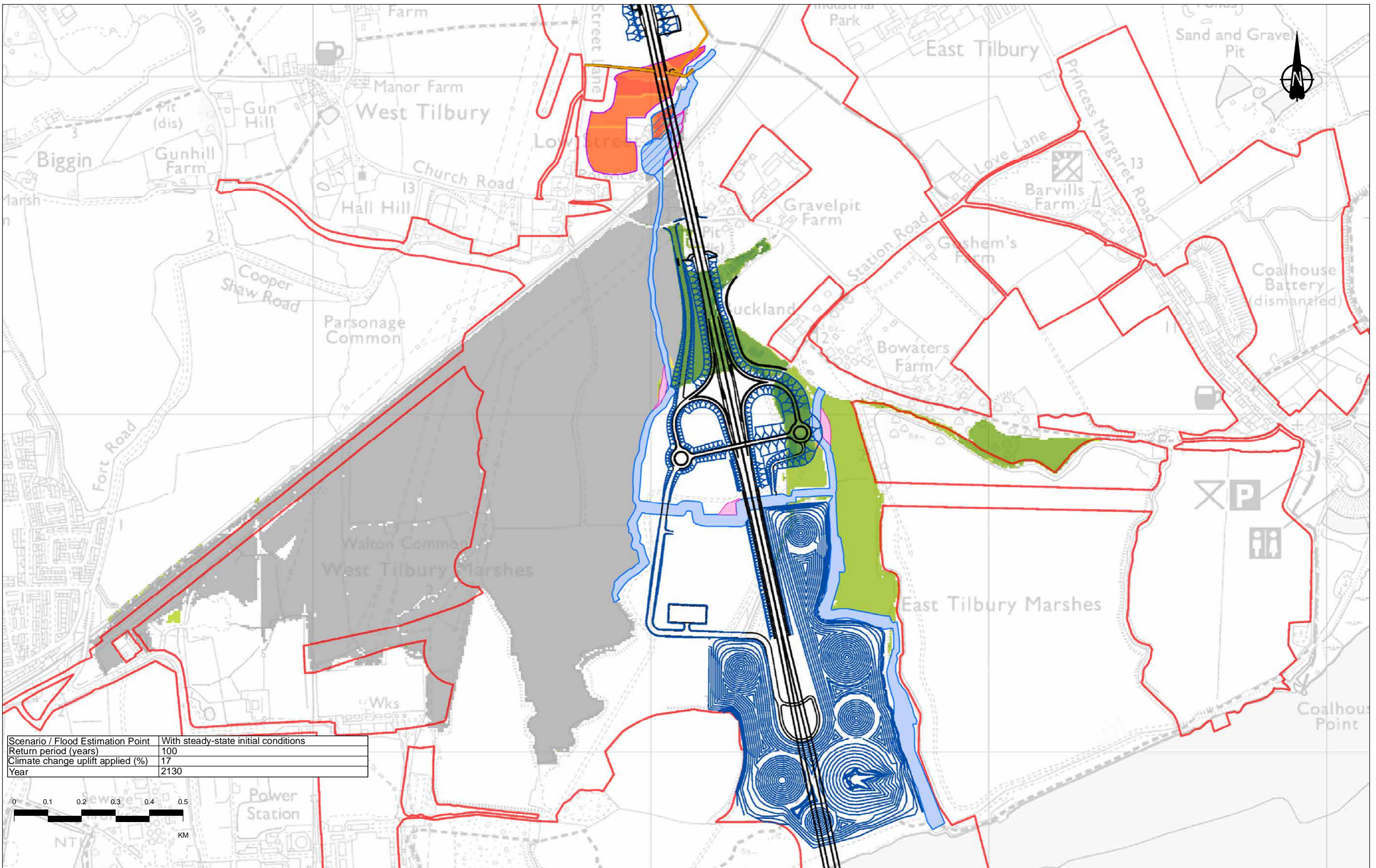
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 5 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01143				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

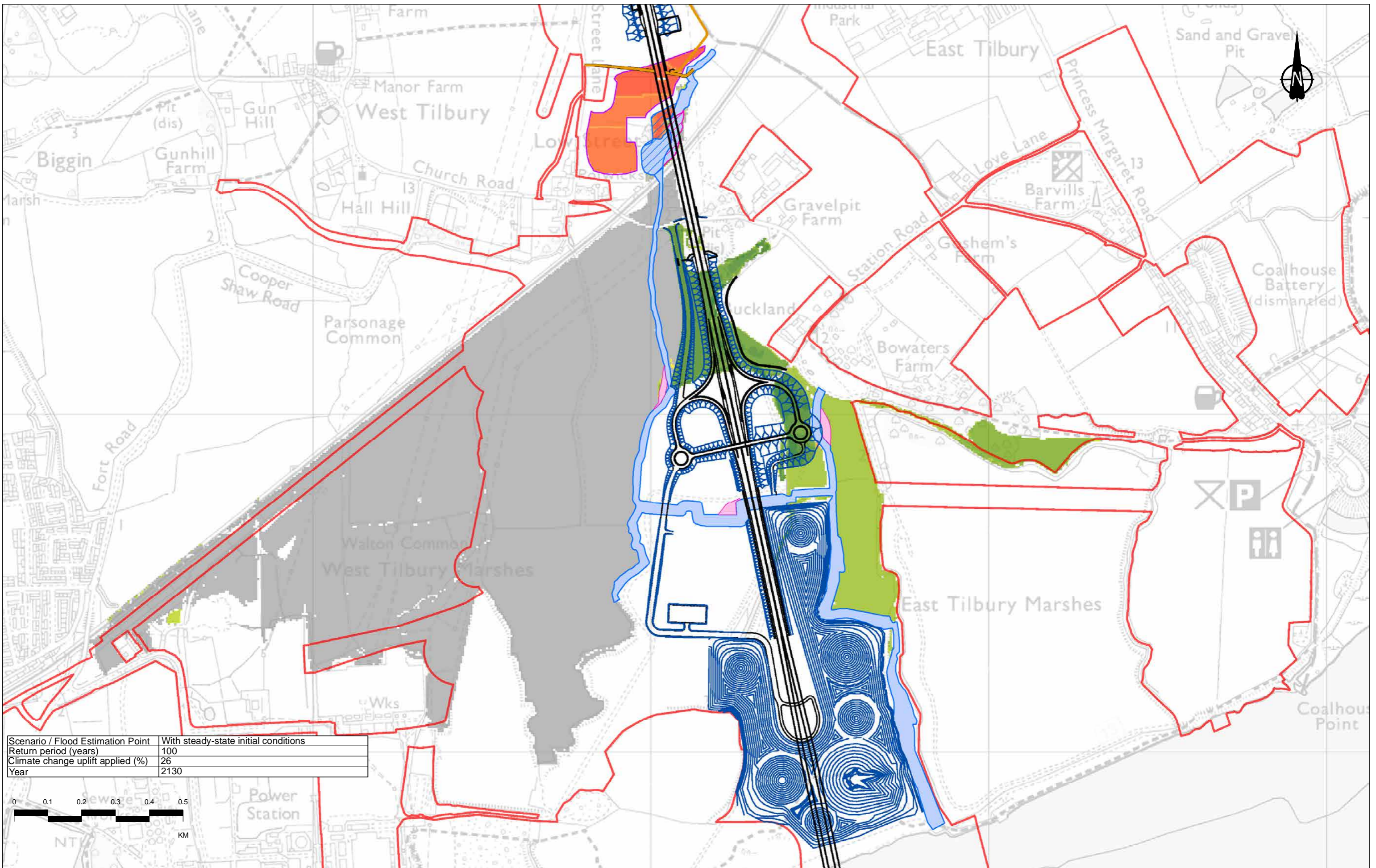
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01144				



Scenario / Flood Estimation Point	With steady-state initial conditions
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

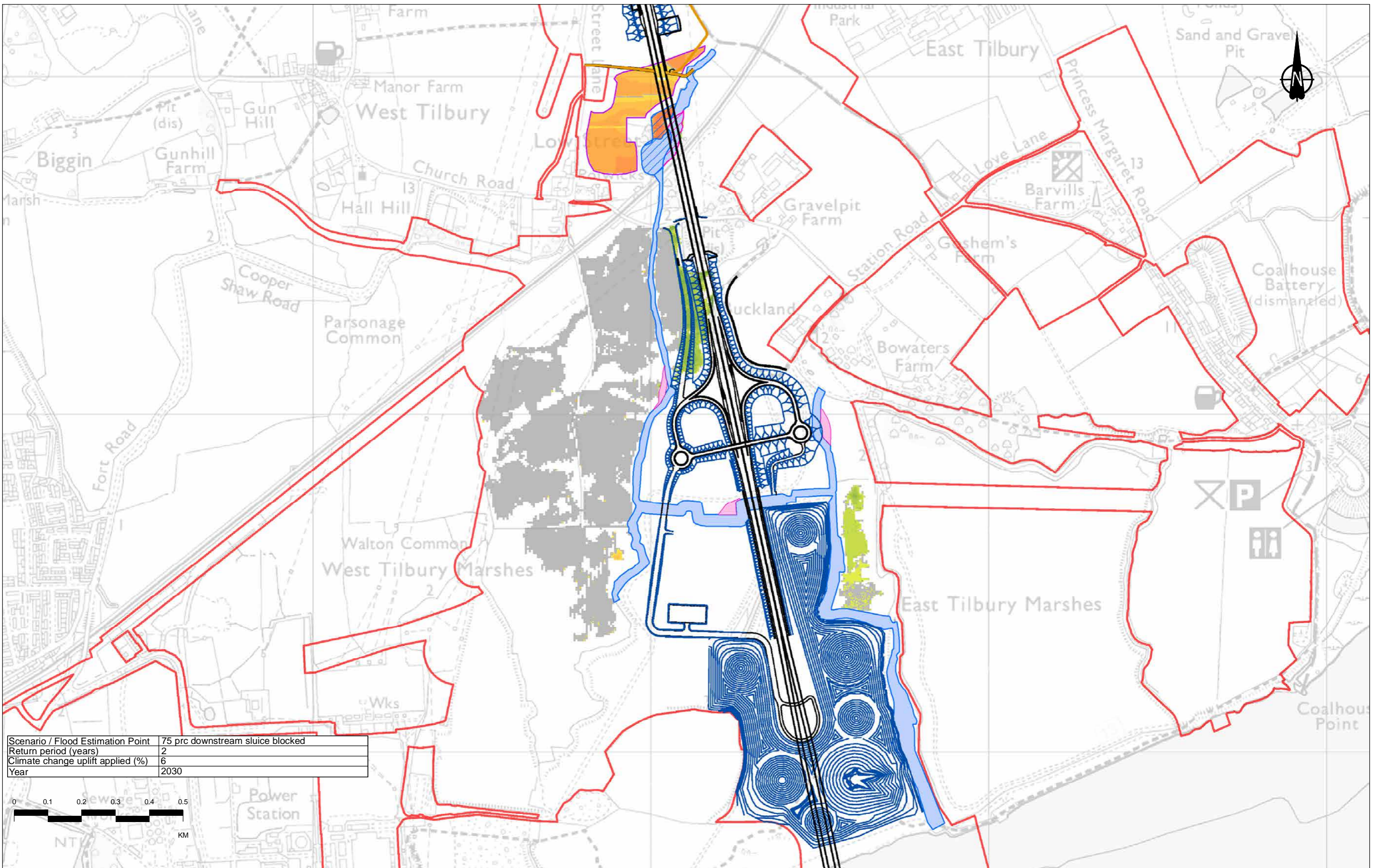
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 7 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01145				



Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	2
Climate change uplift applied (%)	6
Year	2030



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								
P01	SB	02/08/2022	DCO Application	KK	RB	BF								

Legend

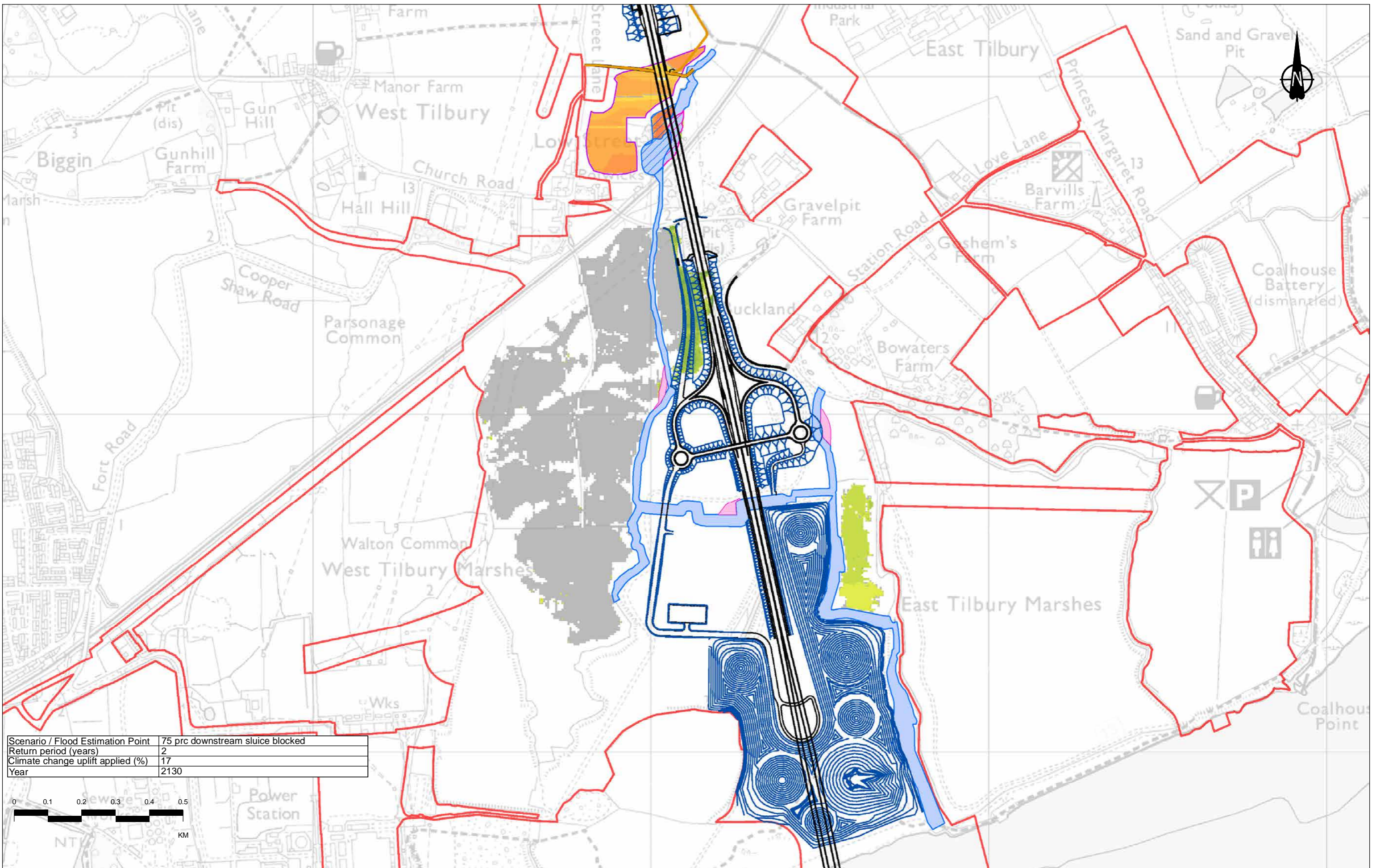
<ul style="list-style-type: none"> 1D Channel diversions Compensation storage area Existing reservoir infilled Revised reservoir footprint Order Limits 	<ul style="list-style-type: none"> Alignment Earthworks NMU Routes 	<p>Proposed LTC alignment Flood depth difference (m)</p> <ul style="list-style-type: none"> < -1.0 -1.0 - -0.5 -0.5 - -0.2 -0.2 - -0.1 -0.1 - -0.05 	<ul style="list-style-type: none"> -0.05 - -0.02 -0.02 - -0.01 -0.01 - 0.01 0.01 - 0.02 0.02 - 0.05 0.05 - 0.1 	<ul style="list-style-type: none"> 0.1 - 0.2 0.2 - 0.5 0.5 - 1 > 1.0
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 1 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01146				



Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	2
Climate change uplift applied (%)	17
Year	2130



P01	S8	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

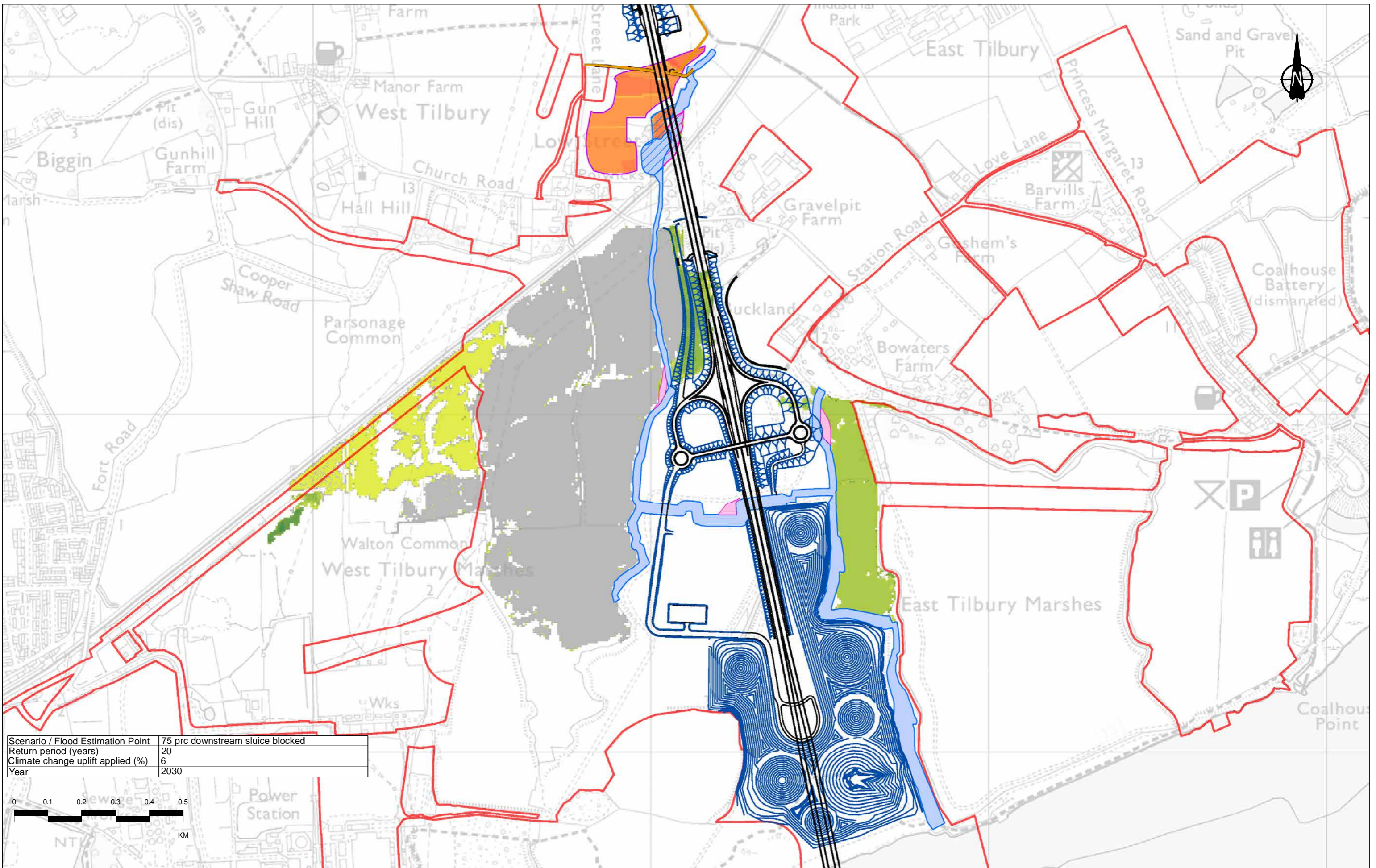
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 2 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01147				



Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	20
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

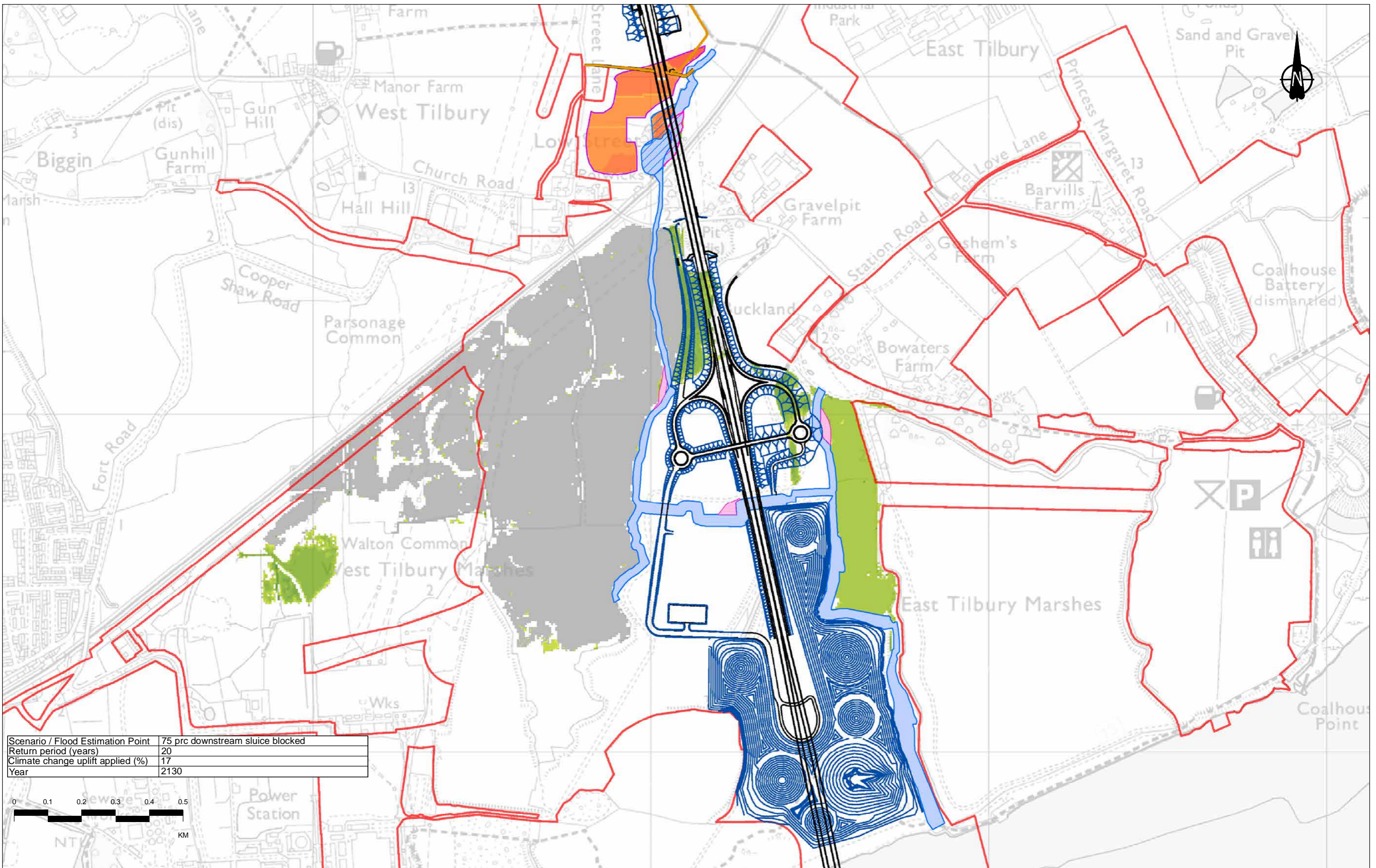
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	> 1.0
Order Limits		-0.1 - -0.05	0.05 - 0.1



national highways

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 3 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01148				



Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	20
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

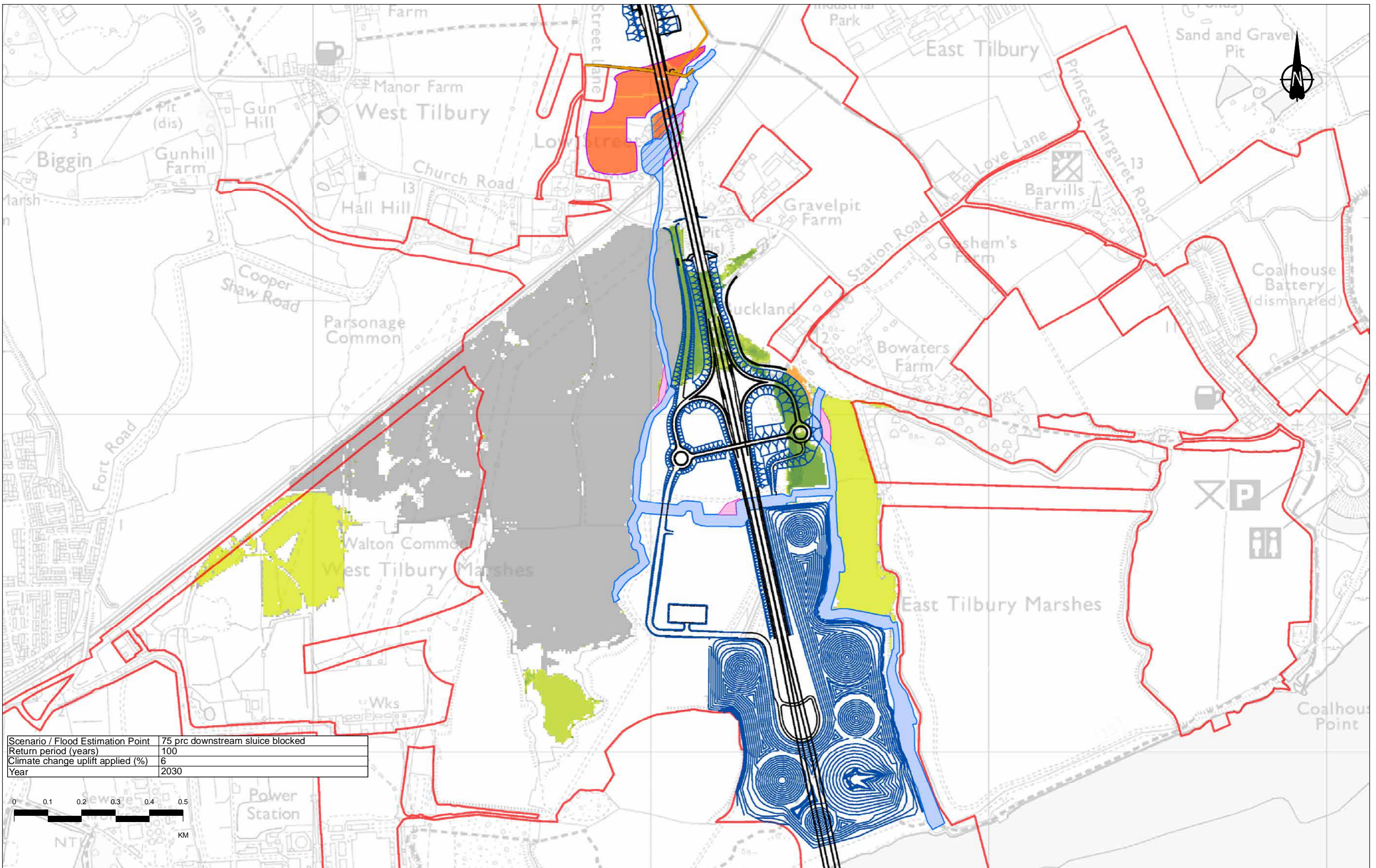
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 4 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01149				



Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	100
Climate change uplift applied (%)	6
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

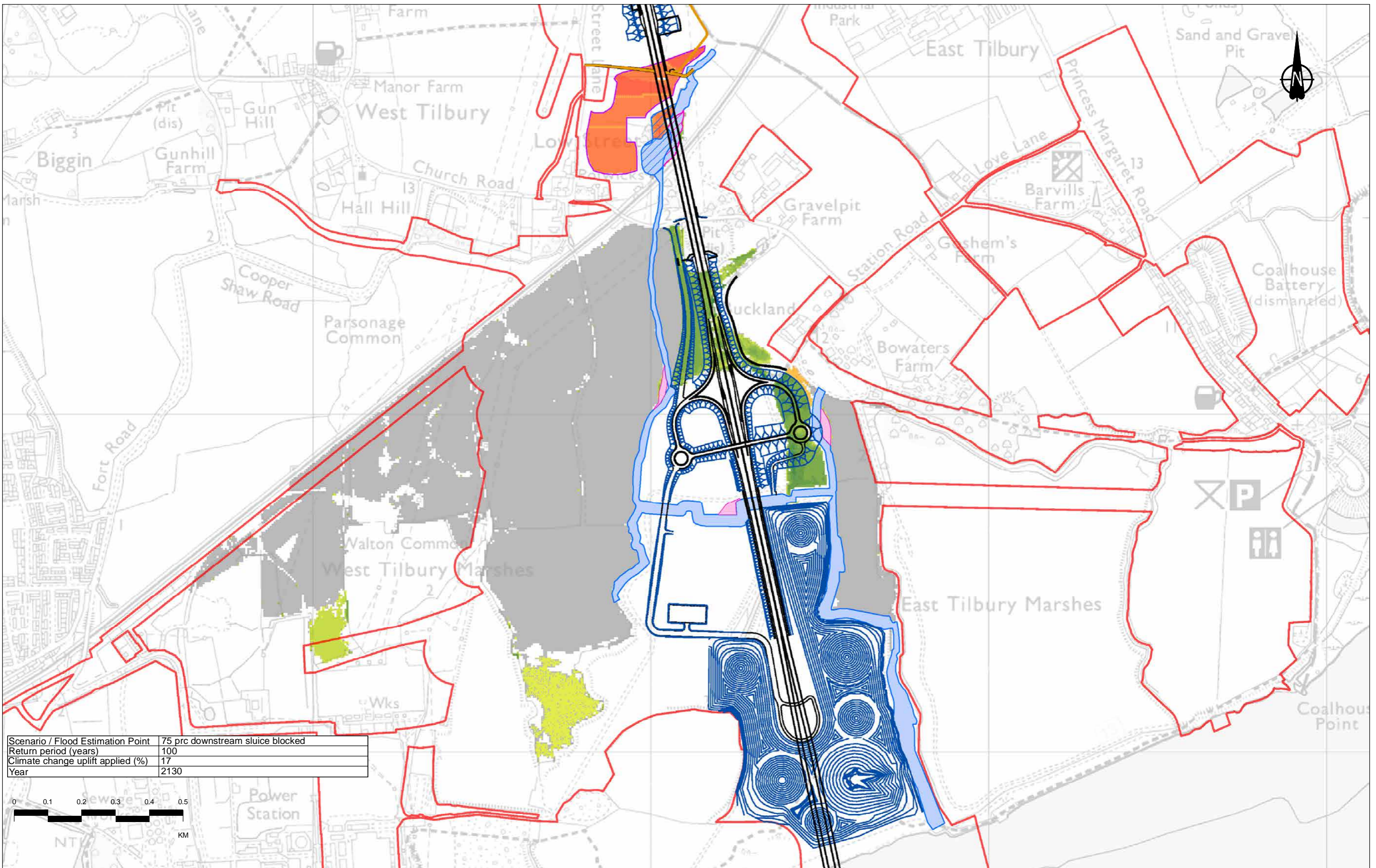
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	> 1.0
Order Limits		-0.1 - -0.05	0.05 - 0.1



national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 5 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01150				



Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	100
Climate change uplift applied (%)	17
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

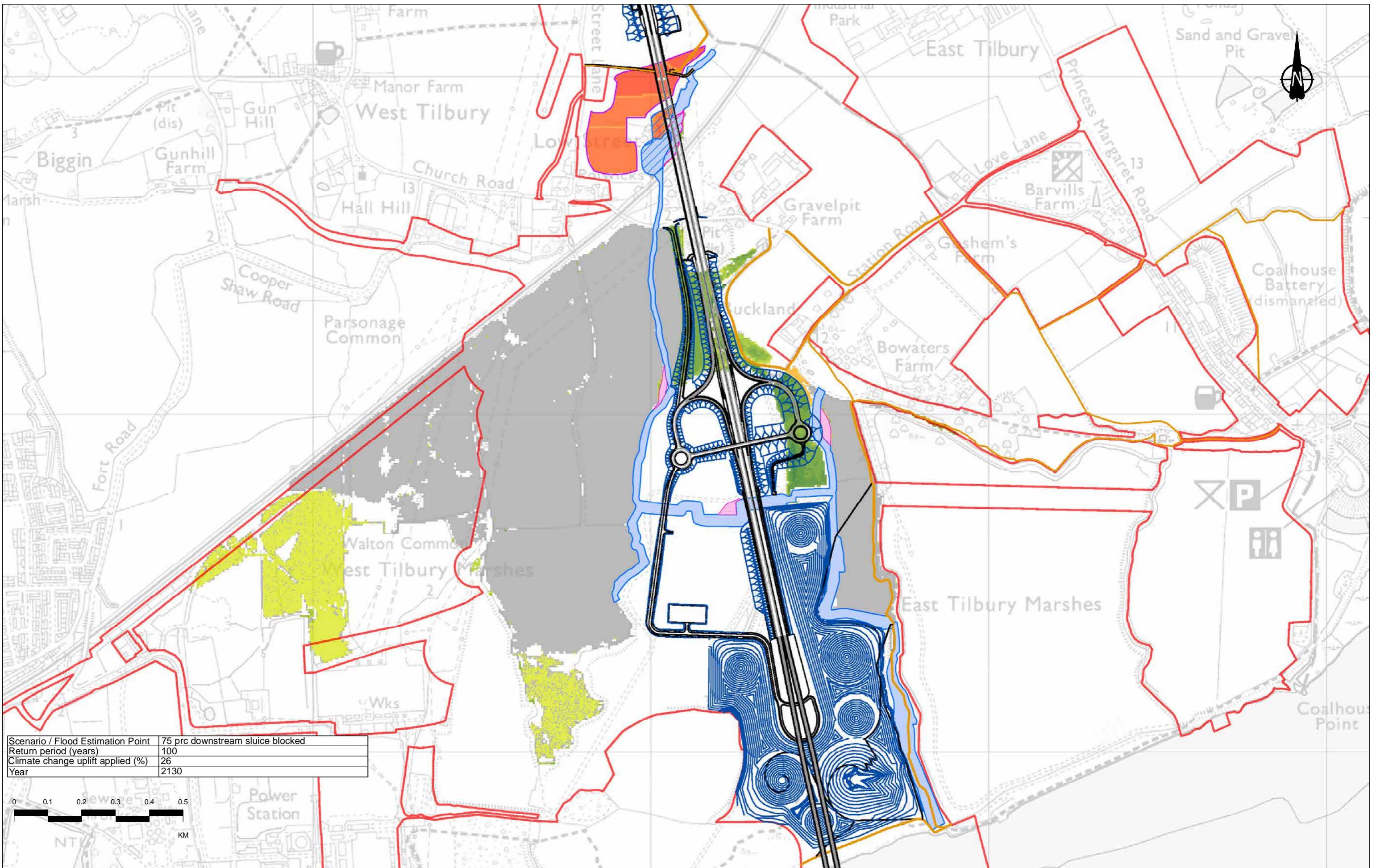
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	> 1.0
Order Limits		-0.1 - -0.05	0.05 - 0.1



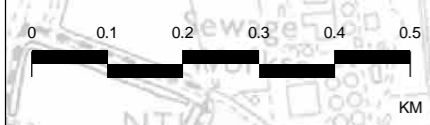
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 6 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01151				



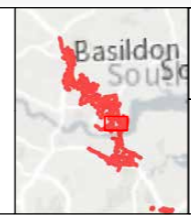
Scenario / Flood Estimation Point	75 prc downstream sluice blocked
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

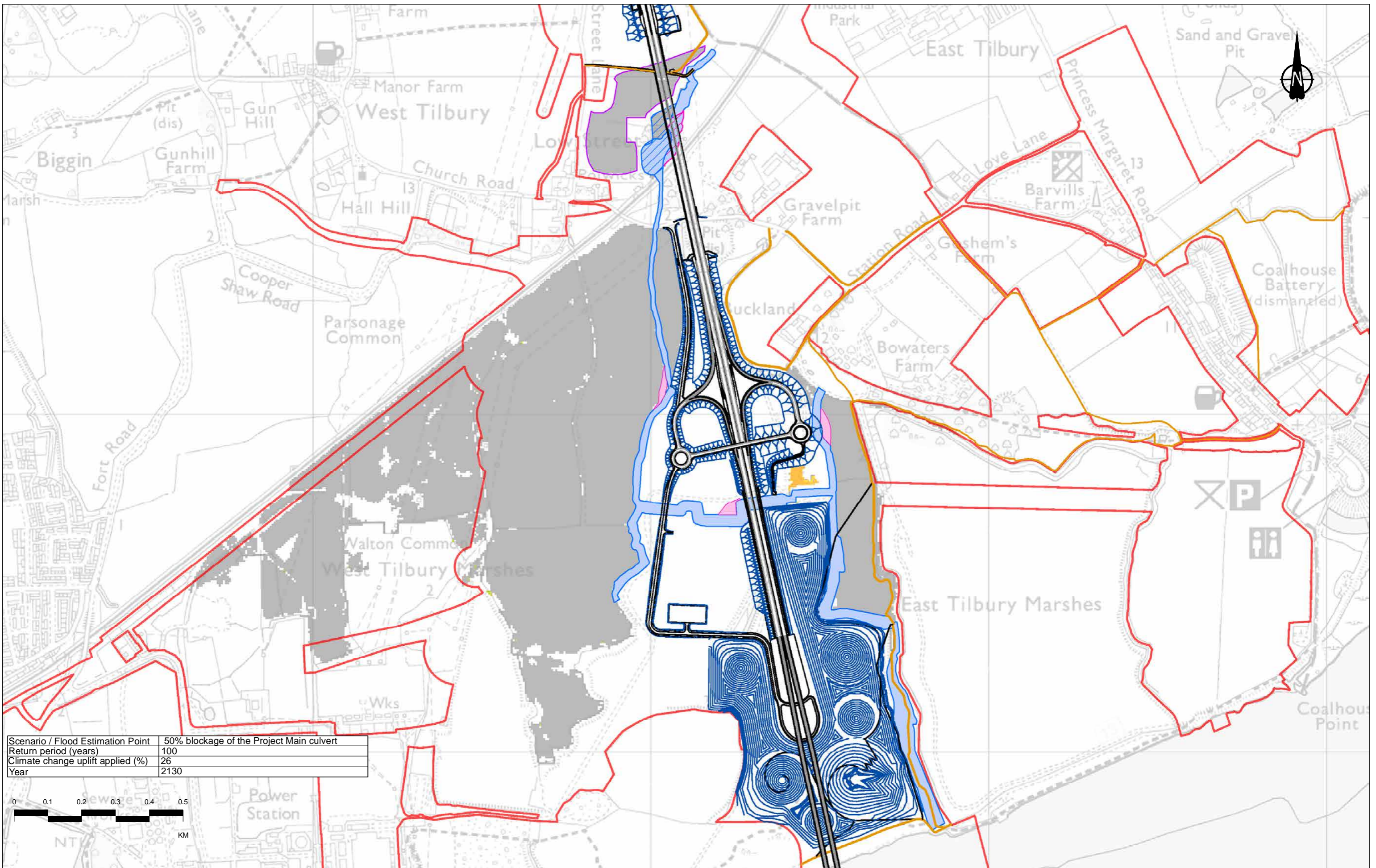
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



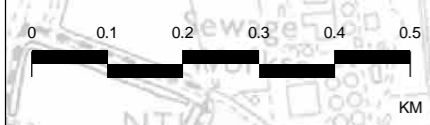
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 7 of 7				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01152				



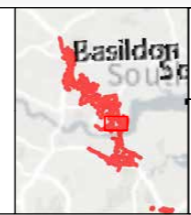
Scenario / Flood Estimation Point	50% blockage of the Project Main culvert
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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P01 SB 02/08/2022 DCO Application KK RB BF
Rev Status Rev. Date Purpose of revision Drawn Check'd Apprv'd

Legend

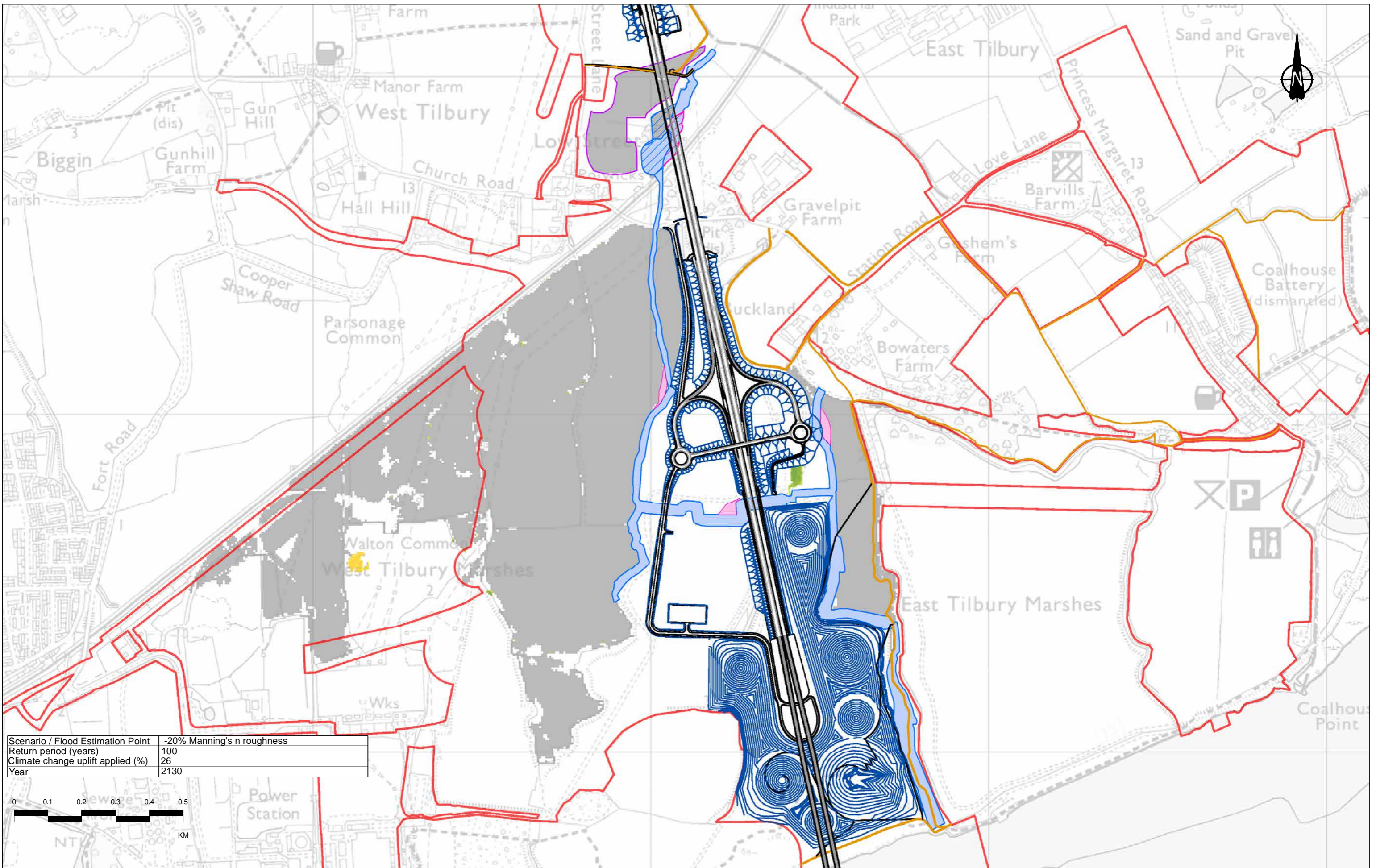
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m)	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	< -1.0	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-1.0 - -0.5	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.5 - -0.2	0.01 - 0.02	> 1.0
Order Limits		-0.2 - -0.1	0.02 - 0.05	
		-0.1 - -0.05	0.05 - 0.1	



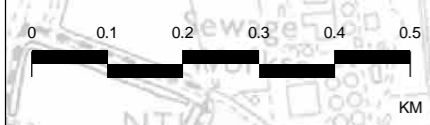
Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Sensitivity minus post-development Sheet 1 of 5				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01153				

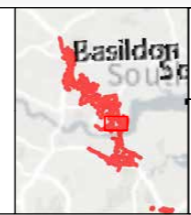


Scenario / Flood Estimation Point	-20% Manning's n roughness
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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<table border="1"> <tr> <td>P01</td> <td>SB</td> <td>02/08/2022</td> <td>DCO Application</td> <td>KK</td> <td>RB</td> <td>BF</td> </tr> <tr> <td>Rev</td> <td>Status</td> <td>Rev. Date</td> <td>Purpose of revision</td> <td>Drawn</td> <td>Check'd</td> <td>Apprv'd</td> </tr> </table>	P01	SB	02/08/2022	DCO Application	KK	RB	BF	Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF								
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								

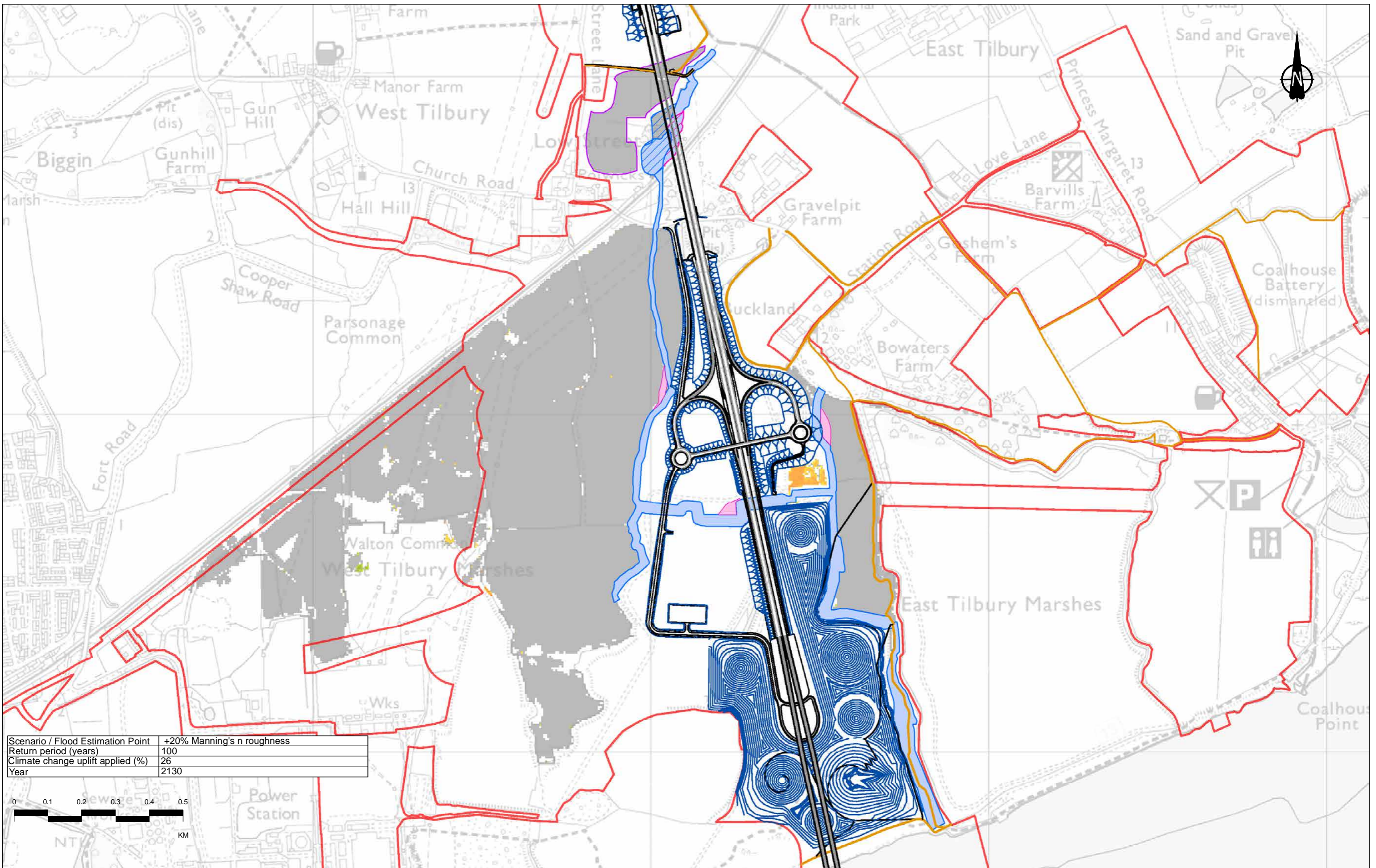
<ul style="list-style-type: none"> 1D Channel diversions Compensation storage area Existing reservoir infilled Revised reservoir footprint Order Limits 	<ul style="list-style-type: none"> Proposed LTC alignment Alignment Earthworks NMU Routes 	Flood depth difference (m) <ul style="list-style-type: none"> < -1.0 -1.0 - -0.5 -0.5 - -0.2 -0.2 - -0.1 -0.1 - -0.05 	<ul style="list-style-type: none"> -0.05 - -0.02 -0.02 - -0.01 -0.01 - 0.01 0.01 - 0.02 0.02 - 0.05 0.05 - 0.1 	<ul style="list-style-type: none"> 0.1 - 0.2 0.2 - 0.5 0.5 - 1 > 1.0
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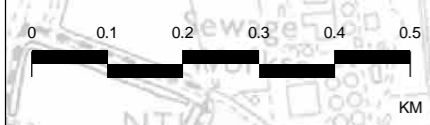
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Sensitivity minus post-development Sheet 2 of 5				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01154				

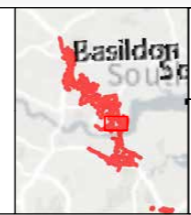


Scenario / Flood Estimation Point	+20% Manning's n roughness
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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<table border="1"> <tr> <td>Rev</td> <td>Status</td> <td>Rev. Date</td> <td>Purpose of revision</td> <td>Drawn</td> <td>Check'd</td> <td>Apprv'd</td> </tr> <tr> <td>P01</td> <td>SB</td> <td>02/08/2022</td> <td>DCO Application</td> <td>KK</td> <td>RB</td> <td>BF</td> </tr> </table>	Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd	P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								
P01	SB	02/08/2022	DCO Application	KK	RB	BF								

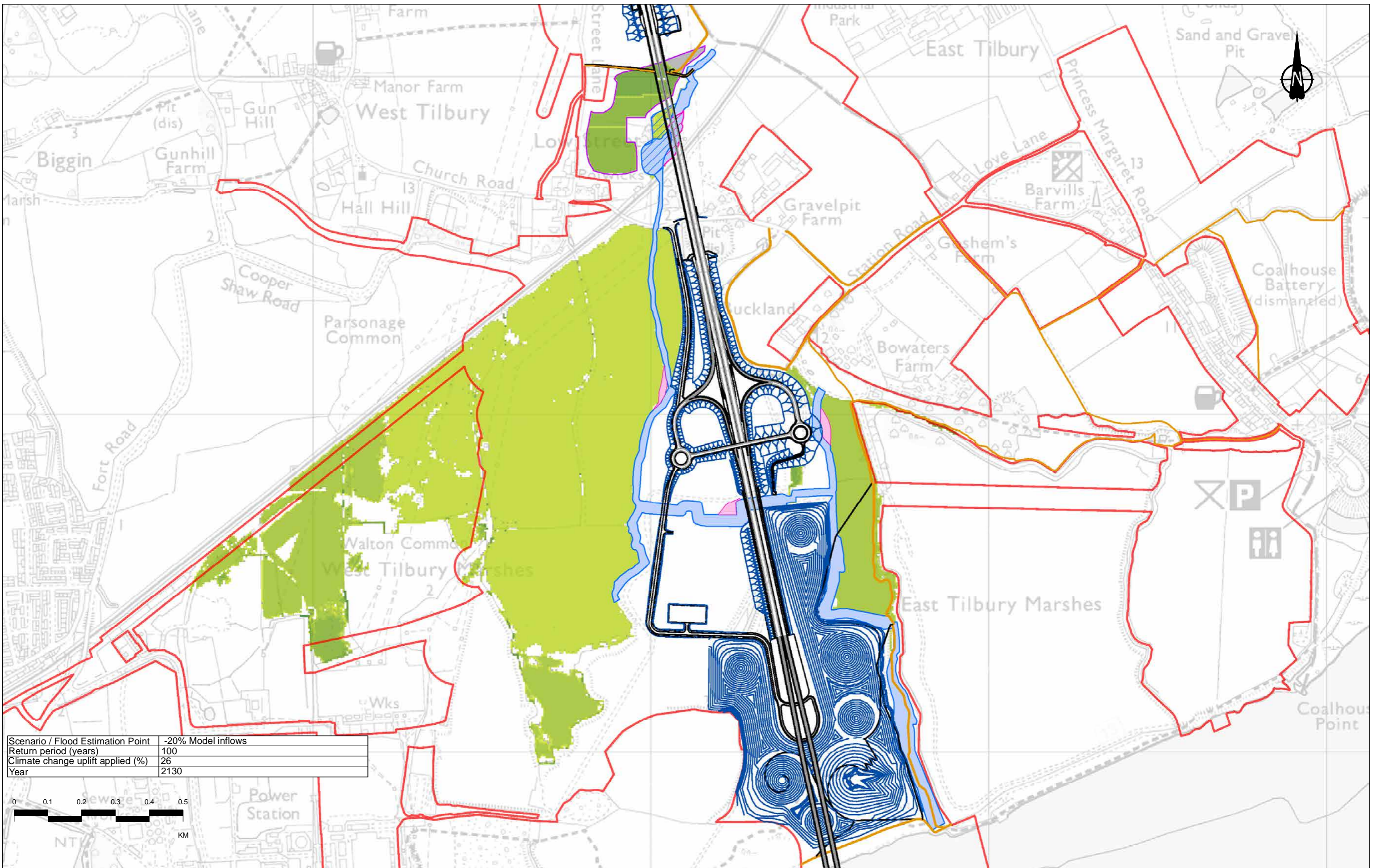
<ul style="list-style-type: none"> 1D Channel diversions Compensation storage area Existing reservoir infilled Revised reservoir footprint Order Limits 	<ul style="list-style-type: none"> Proposed LTC alignment Alignment Earthworks NMU Routes 	Flood depth difference (m) <ul style="list-style-type: none"> < -1.0 -1.0 - -0.5 -0.5 - -0.2 -0.2 - -0.1 -0.1 - -0.05 	<ul style="list-style-type: none"> -0.05 - -0.02 -0.02 - -0.01 -0.01 - 0.01 0.01 - 0.02 0.02 - 0.05 0.05 - 0.1 	<ul style="list-style-type: none"> 0.1 - 0.2 0.2 - 0.5 0.5 - 1 > 1.0
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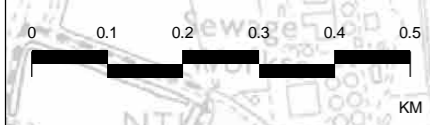
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:10,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Sensitivity minus post-development Sheet 3 of 5				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01155				

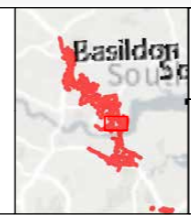


Scenario / Flood Estimation Point	-20% Model inflows
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



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<table border="1"> <tr> <td>Rev</td> <td>Status</td> <td>Rev. Date</td> <td>Purpose of revision</td> <td>Drawn</td> <td>Check'd</td> <td>Apprv'd</td> </tr> <tr> <td>P01</td> <td>SB</td> <td>02/08/2022</td> <td>DCO Application</td> <td>KK</td> <td>RB</td> <td>BF</td> </tr> </table>	Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd	P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								
P01	SB	02/08/2022	DCO Application	KK	RB	BF								

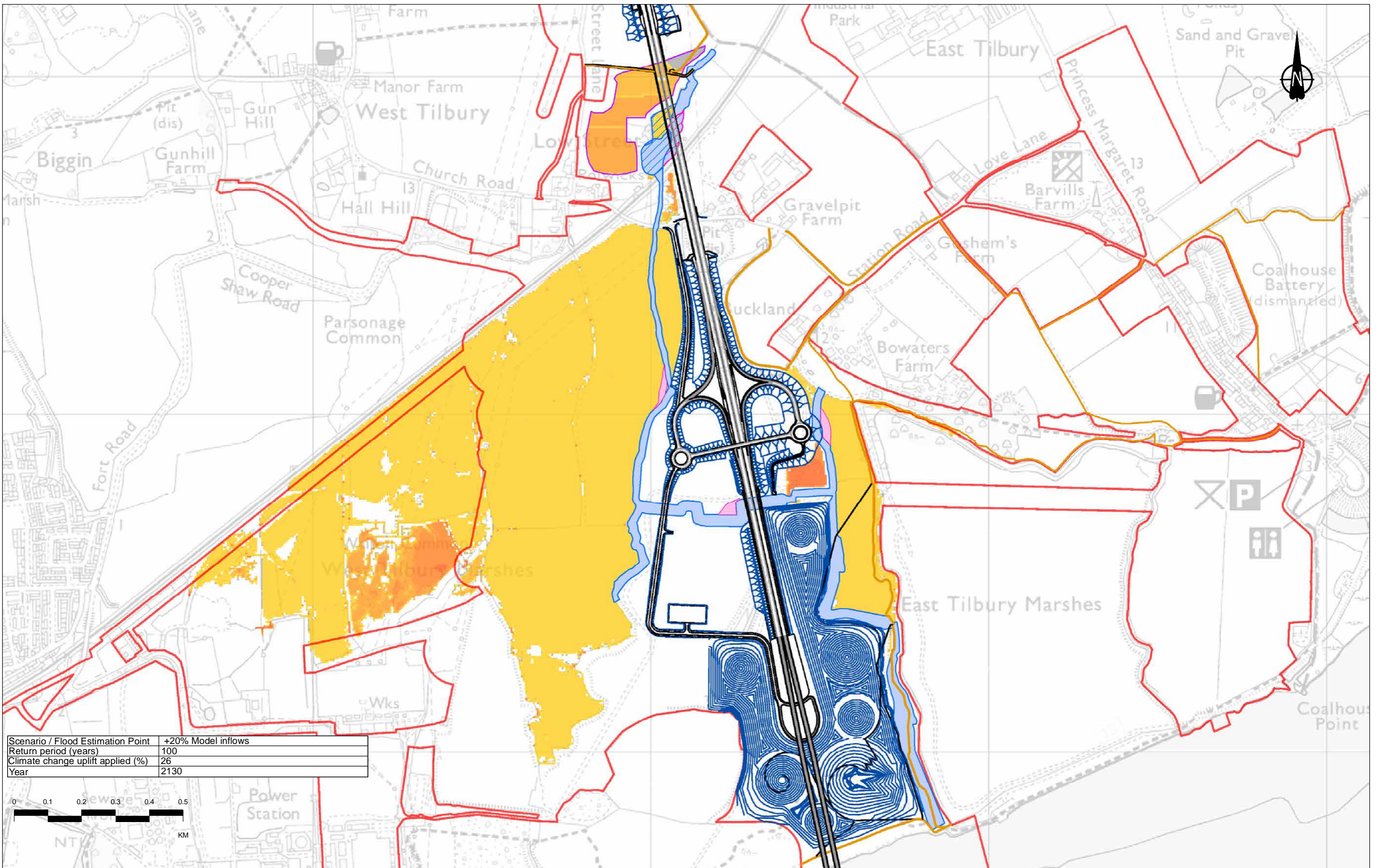
<ul style="list-style-type: none"> 1D Channel diversions Compensation storage area Existing reservoir infilled Revised reservoir footprint Order Limits 	<ul style="list-style-type: none"> Proposed LTC alignment Alignment Earthworks NMU Routes 	Flood depth difference (m) <ul style="list-style-type: none"> < -1.0 -1.0 - -0.5 -0.5 - -0.2 -0.2 - -0.1 -0.1 - -0.05 	<ul style="list-style-type: none"> -0.05 - -0.02 -0.02 - -0.01 -0.01 - 0.01 0.01 - 0.02 0.02 - 0.05 0.05 - 0.1 	<ul style="list-style-type: none"> 0.1 - 0.2 0.2 - 0.5 0.5 - 1 > 1.0
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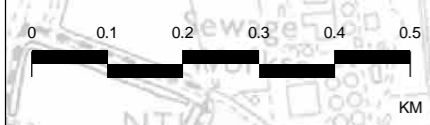
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Sensitivity minus post-development Sheet 4 of 5				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01156				



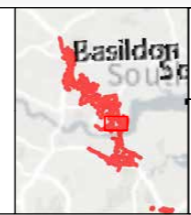
Scenario / Flood Estimation Point	+20% Model inflows
Return period (years)	100
Climate change uplift applied (%)	26
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

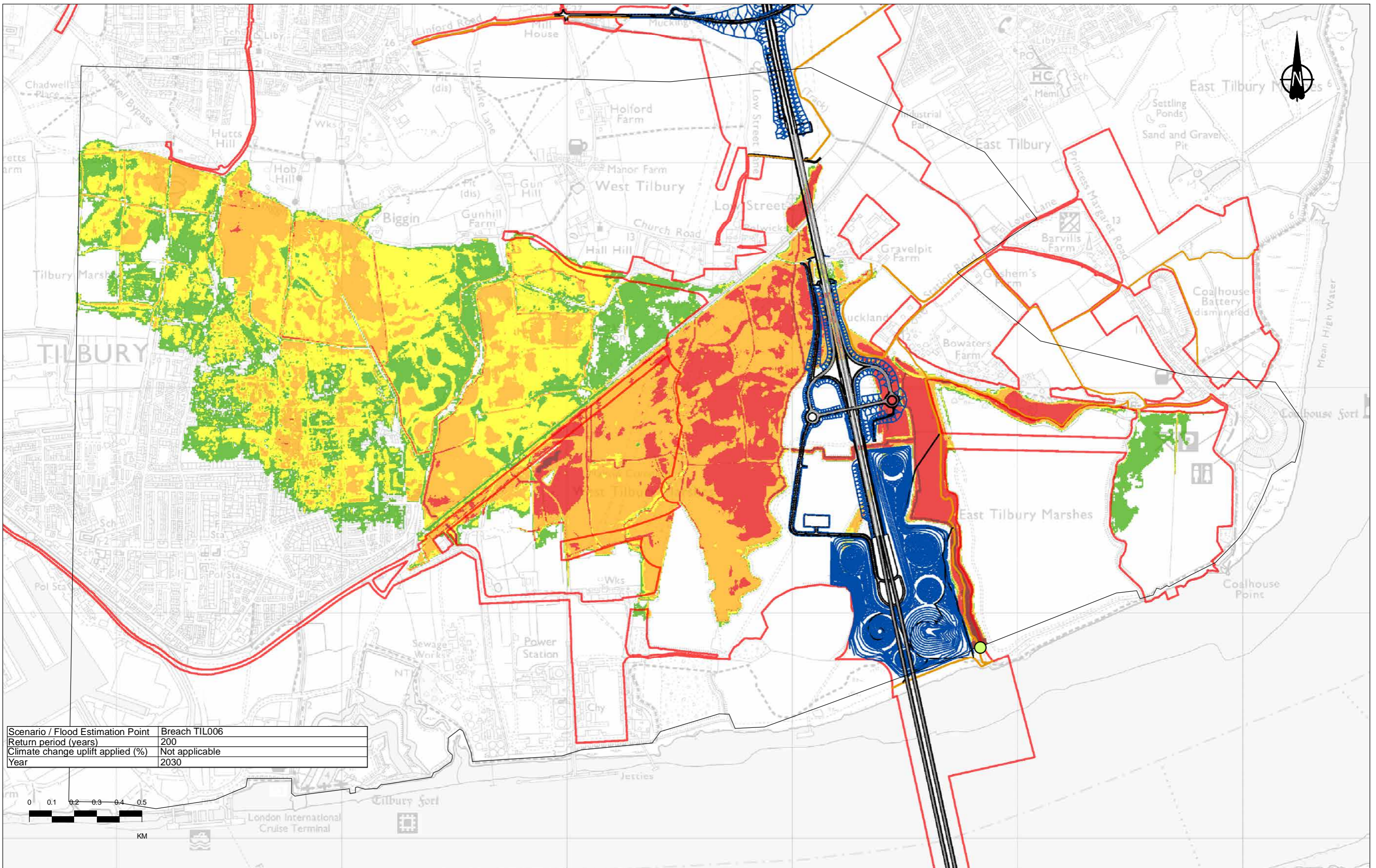
1D Channel diversions	Proposed LTC alignment	Flood depth difference (m) < -1.0	-0.05 - -0.02	0.1 - 0.2
Compensation storage area	Earthworks	-1.0 - -0.5	-0.02 - -0.01	0.2 - 0.5
Existing reservoir infilled	NMU Routes	-0.5 - -0.2	-0.01 - 0.01	0.5 - 1
Revised reservoir footprint		-0.2 - -0.1	0.01 - 0.02	> 1.0
Order Limits		-0.1 - -0.05	0.02 - 0.05	
			0.05 - 0.1	



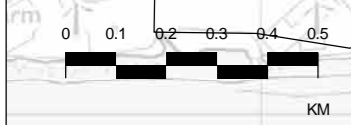
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:110,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Sensitivity minus post-development Sheet 5 of 5				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01157				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

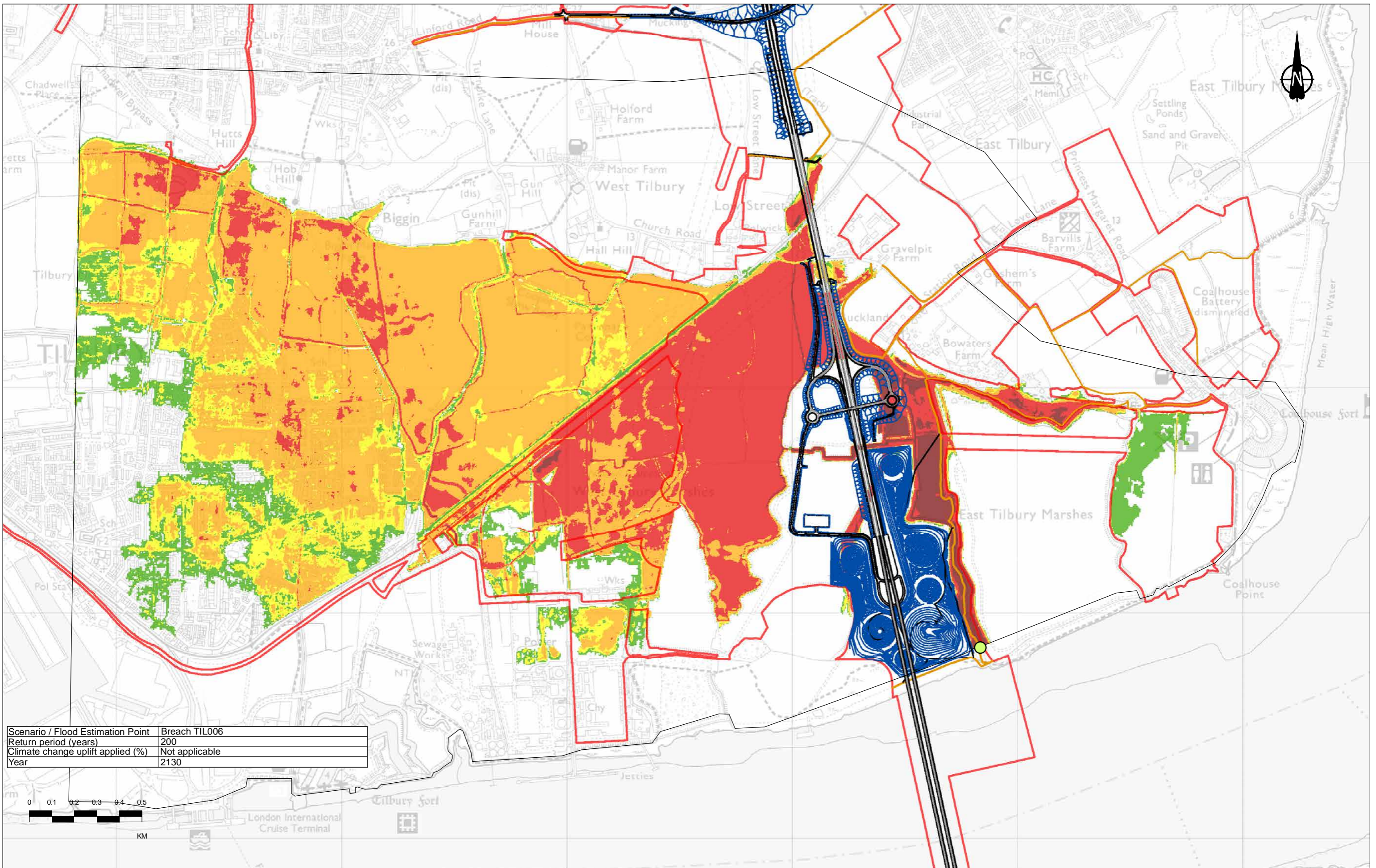
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

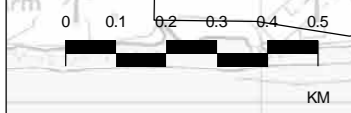
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 1 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01178				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

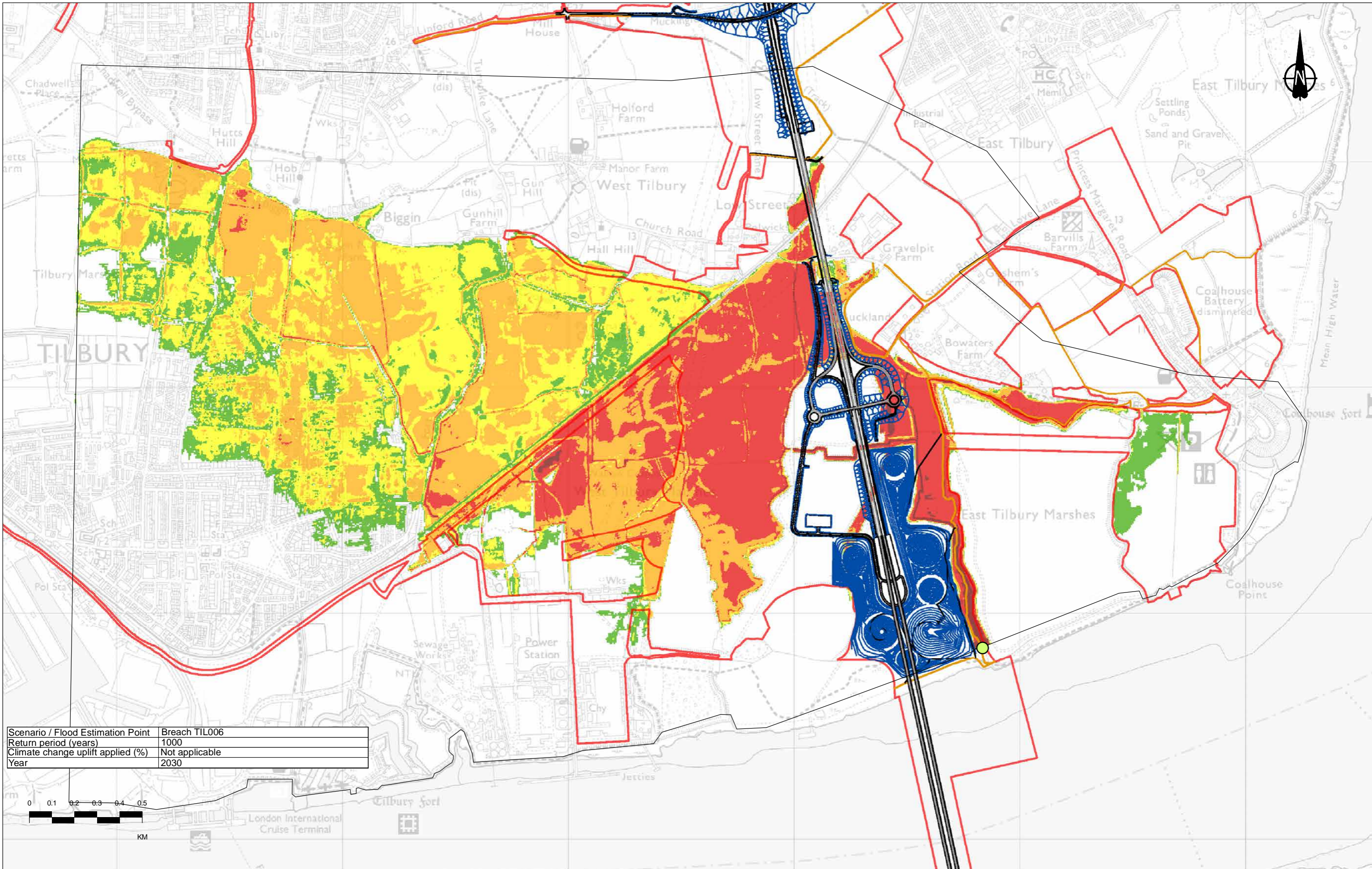
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

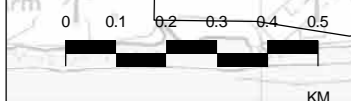
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 2 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01179				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

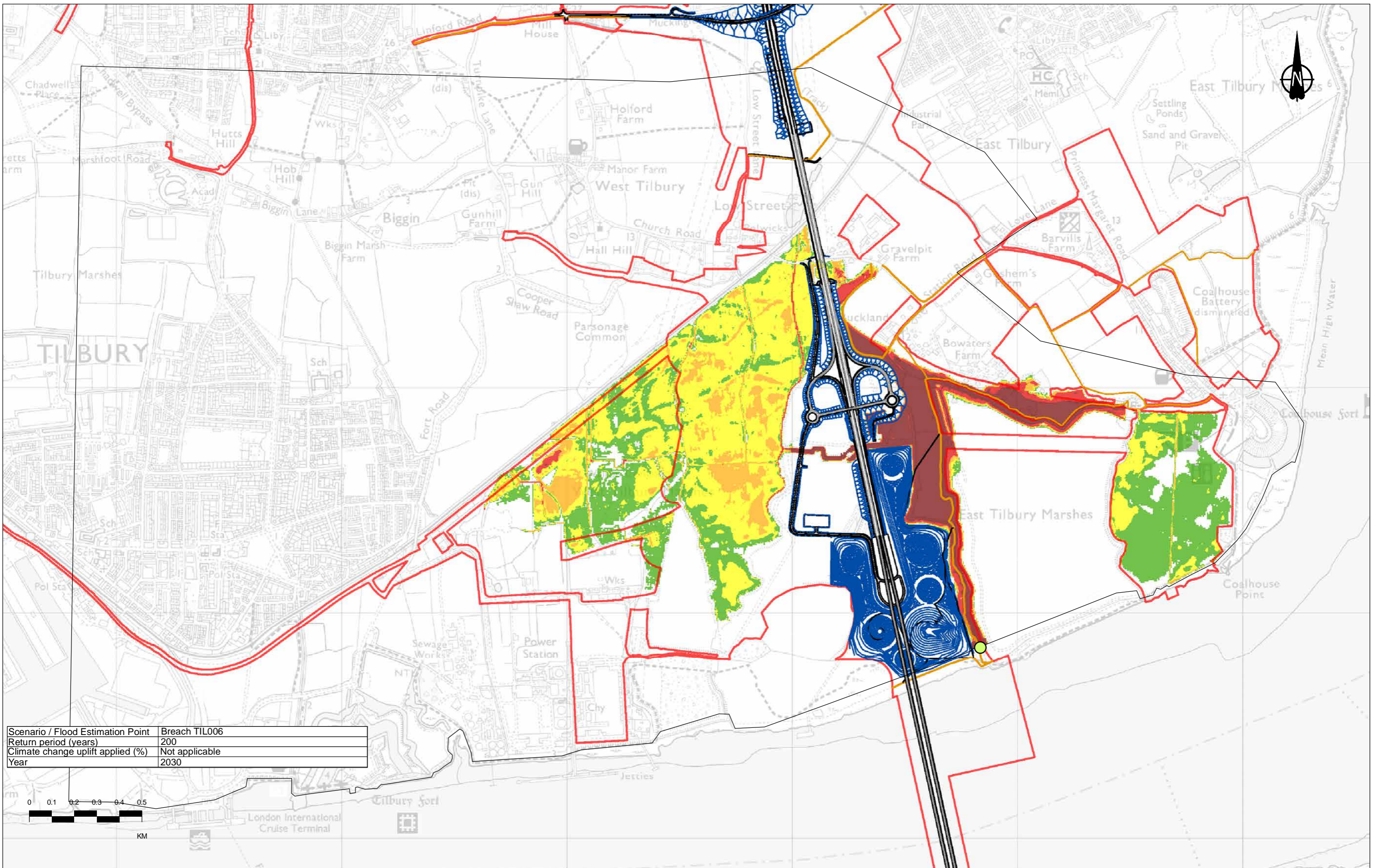
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

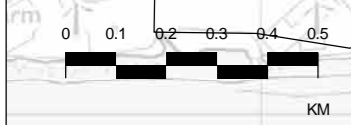
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 3 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01180				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

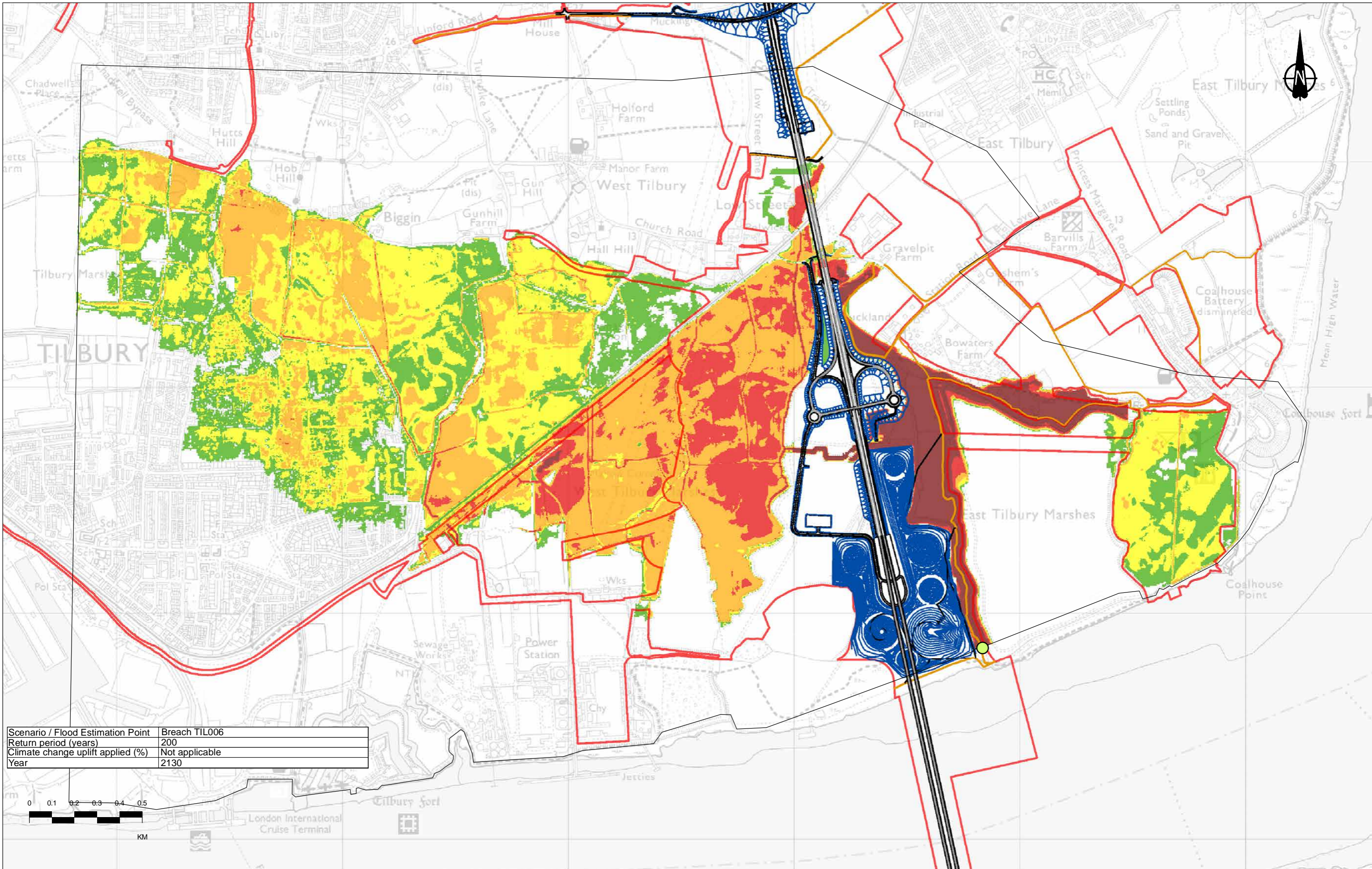
Proposed LTC alignment Maximum flood depth (m)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

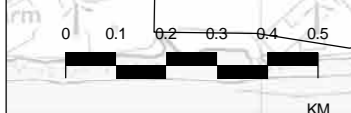
Client: **Basildon**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 5 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01182				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 6 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01183				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030

PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

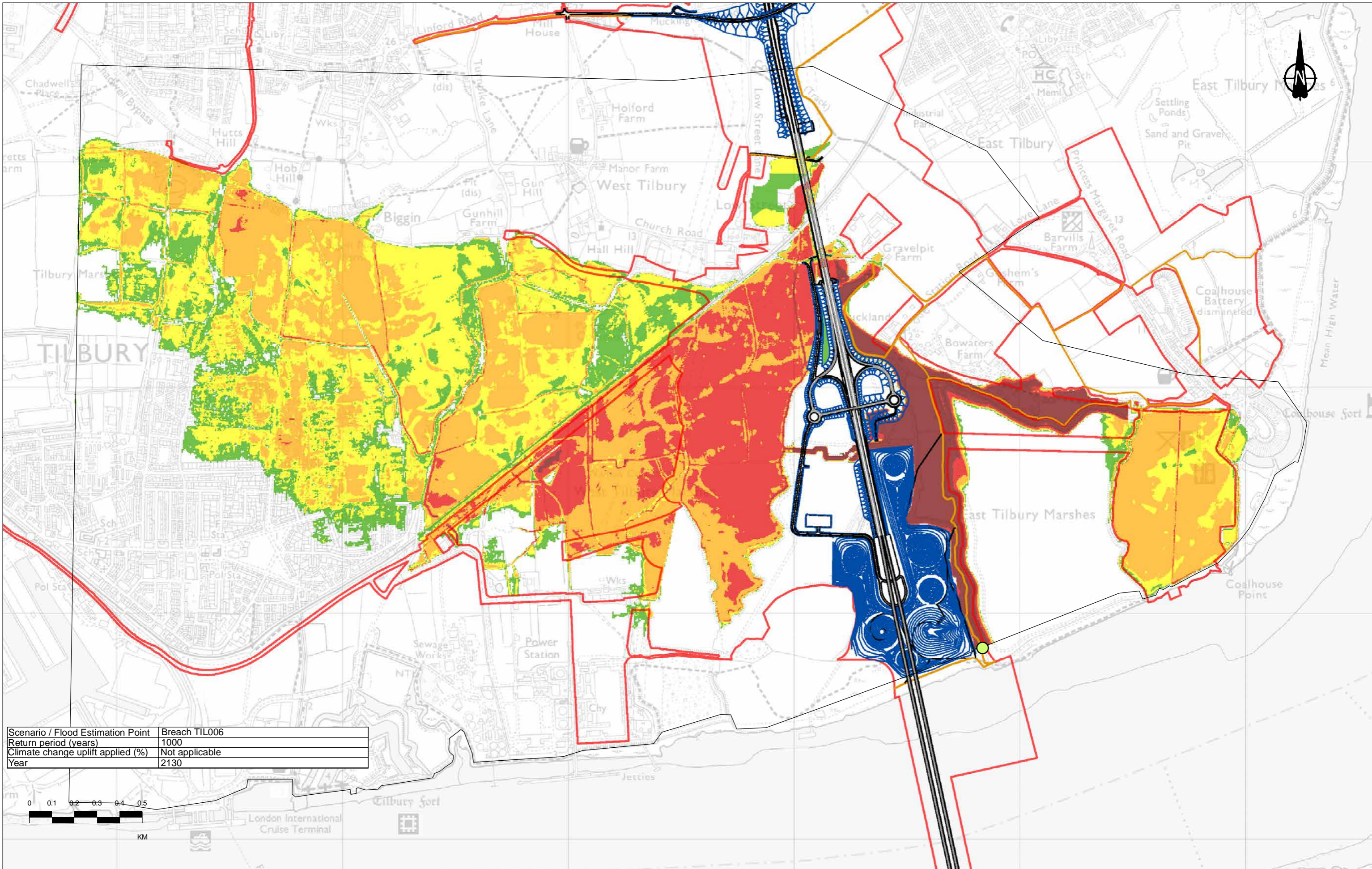
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

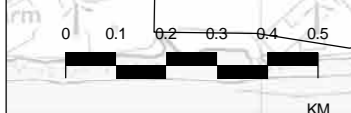
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 7 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01184				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

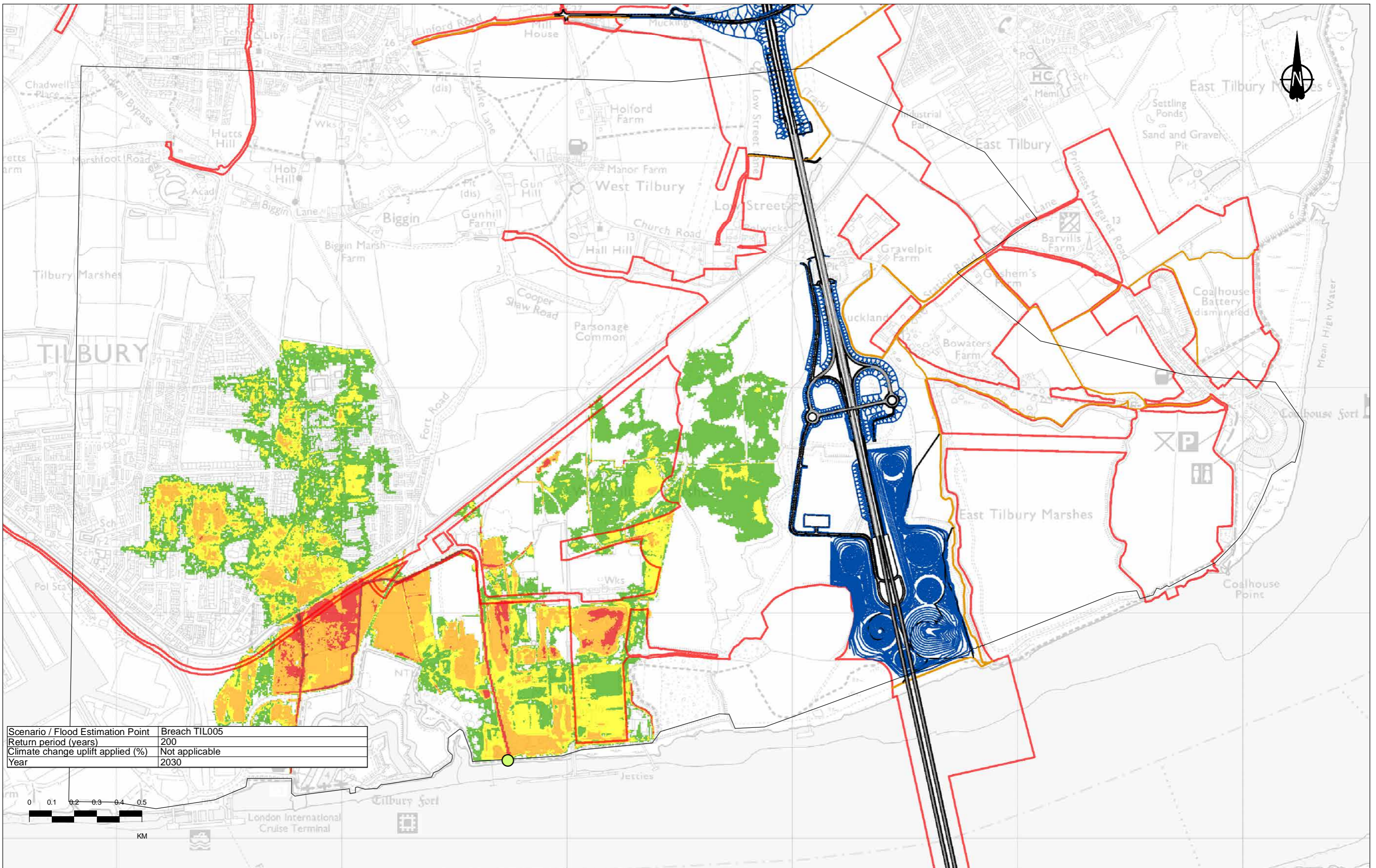
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

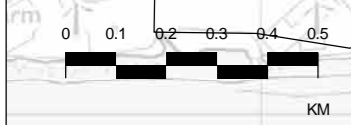
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 8 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01185				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

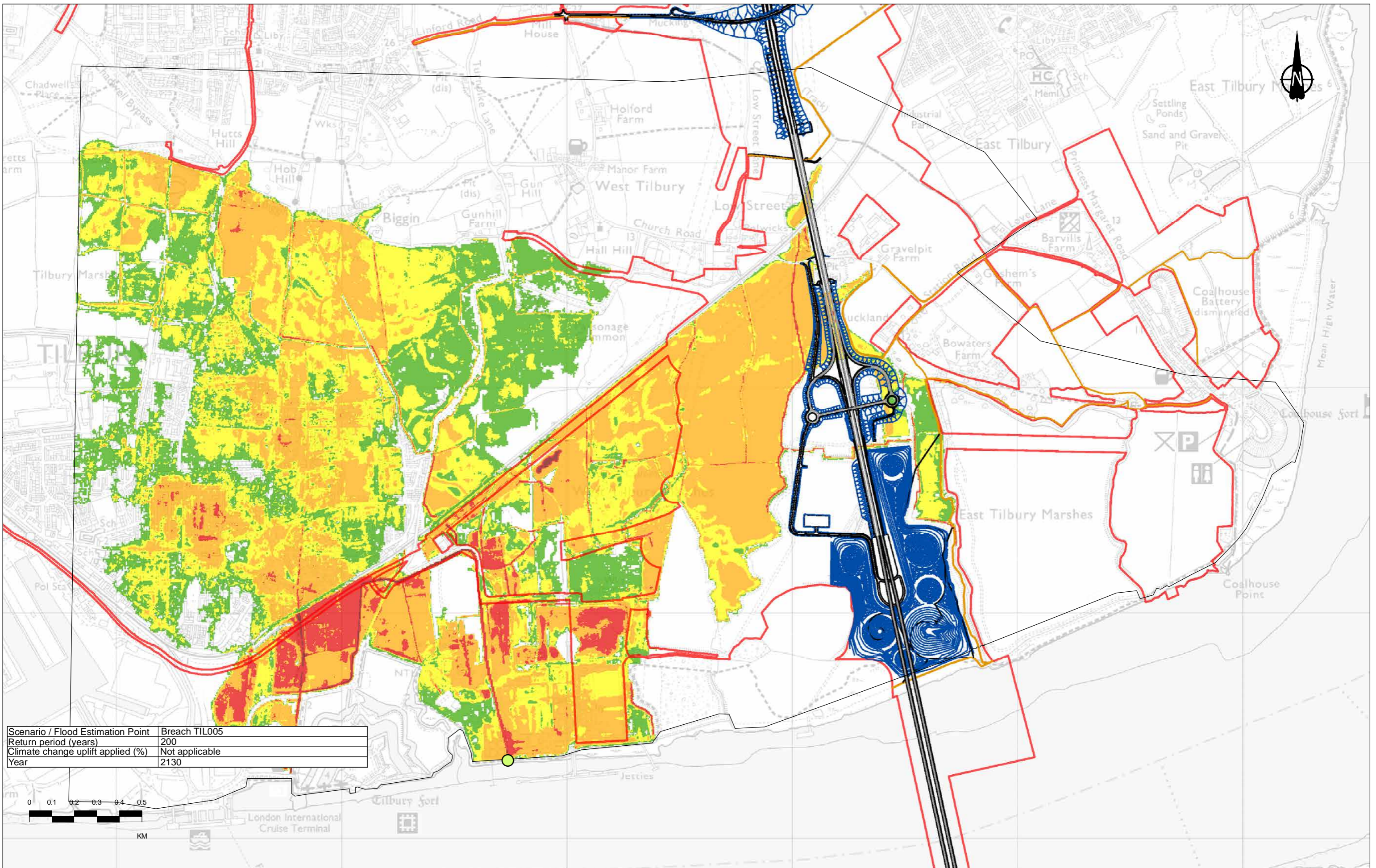
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

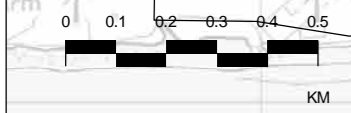
Project: **LOWER THAMES CROSSING**

national highways logo

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 9 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01186				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

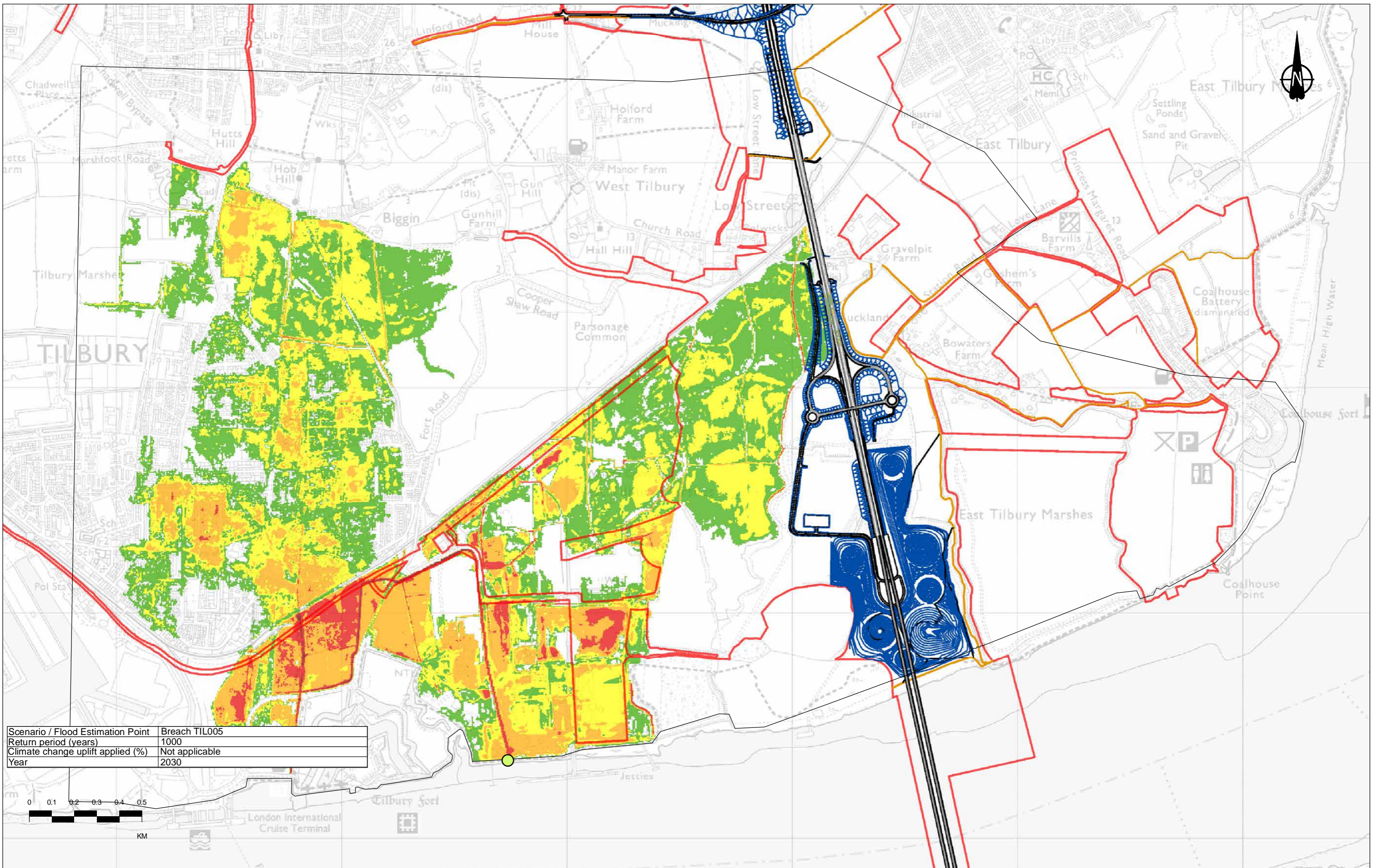
- TIL005
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client

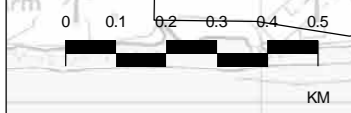
Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 10 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01187				



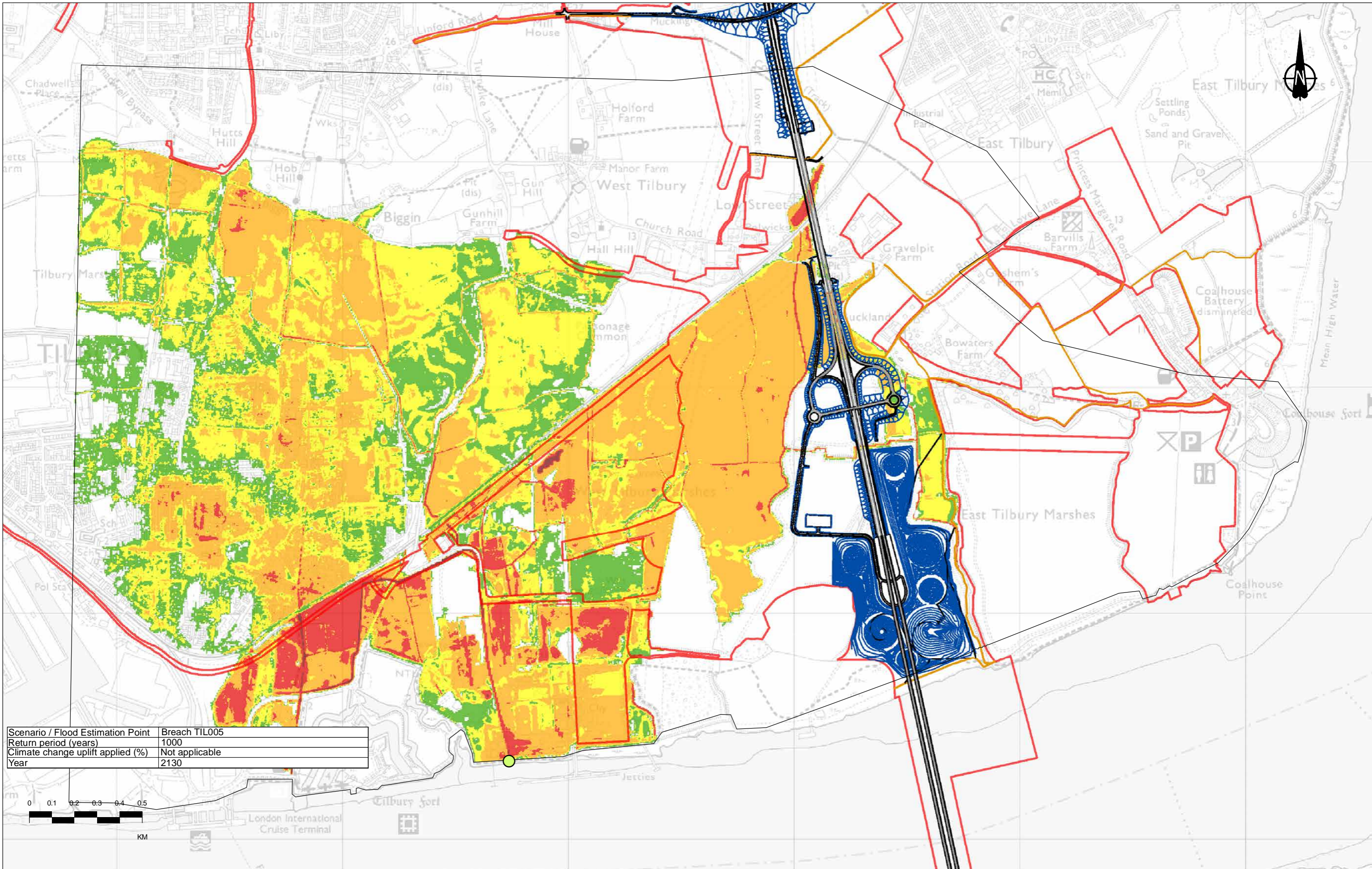
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



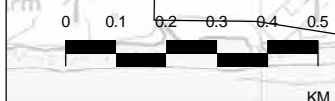
PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

TIL005	Alignment	0 - 0.25
2D Model domain	Earthworks	0.25 - 0.5
Order Limits	NMU Routes	0.5 - 1.0
		1.0 - 2.0
		> 2.0

	Client		Status	DCO Application	Original Size	A3	Revision	P01
	Project		LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:115,000	
			Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 11 of 16				
			Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01188				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130



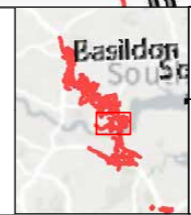
PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

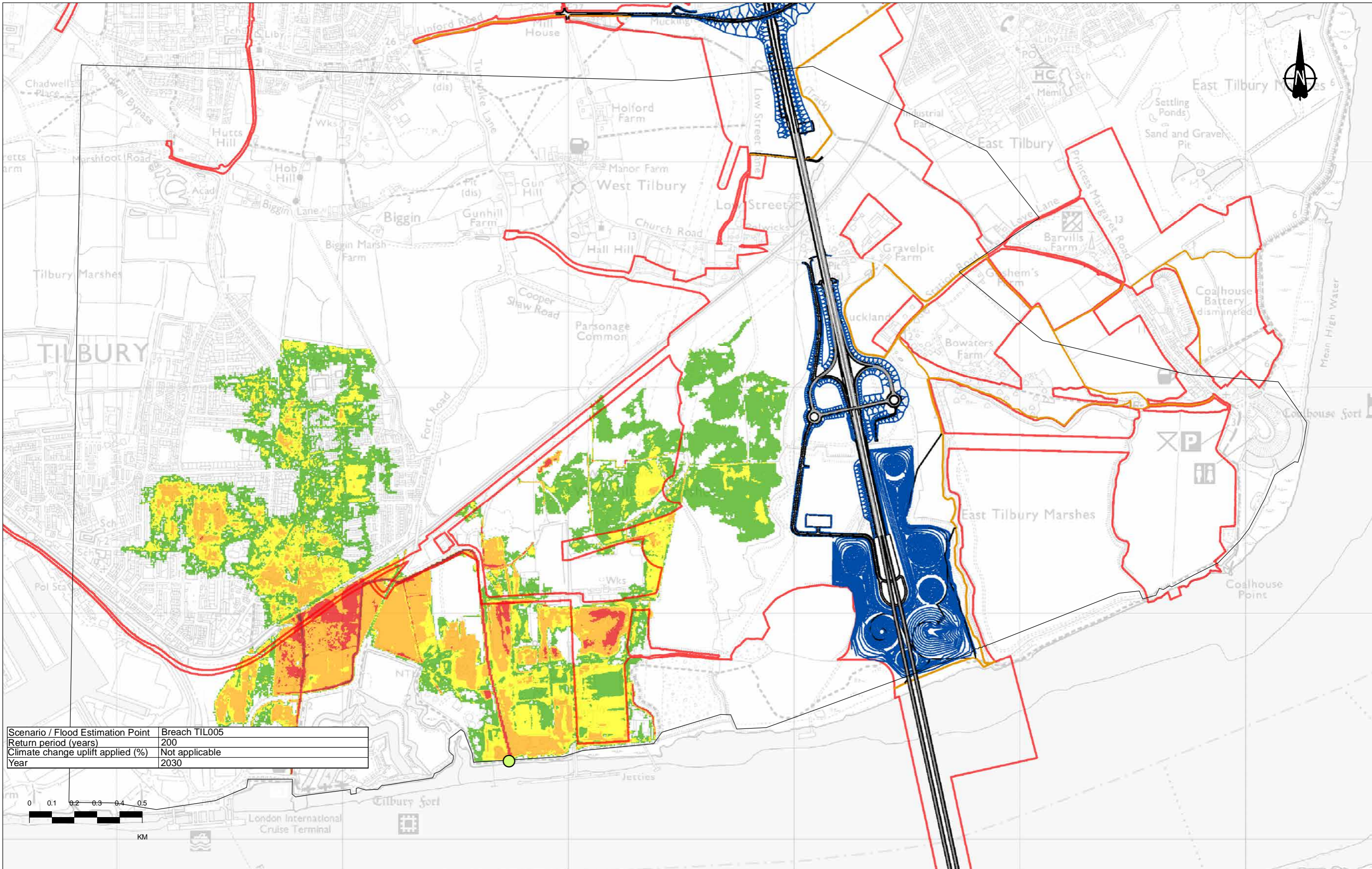
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0



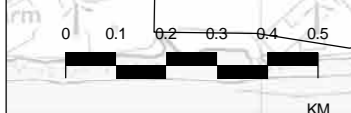
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Pre-development Sheet 12 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01189				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

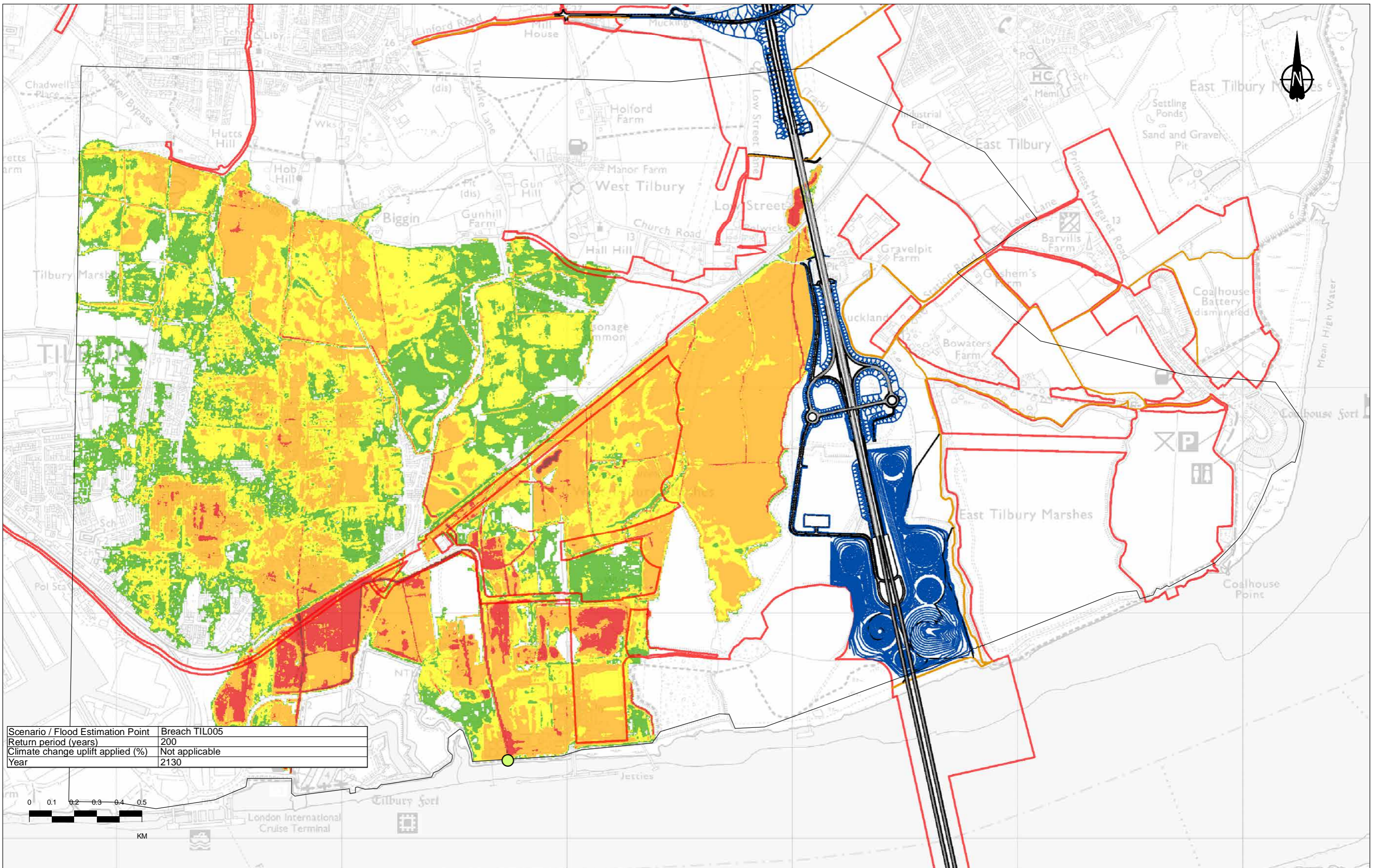
- TIL005
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

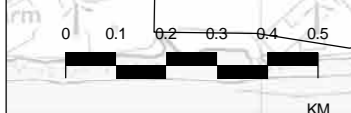
Project: **LOWER THAMES CROSSING**

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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 13 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01190				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

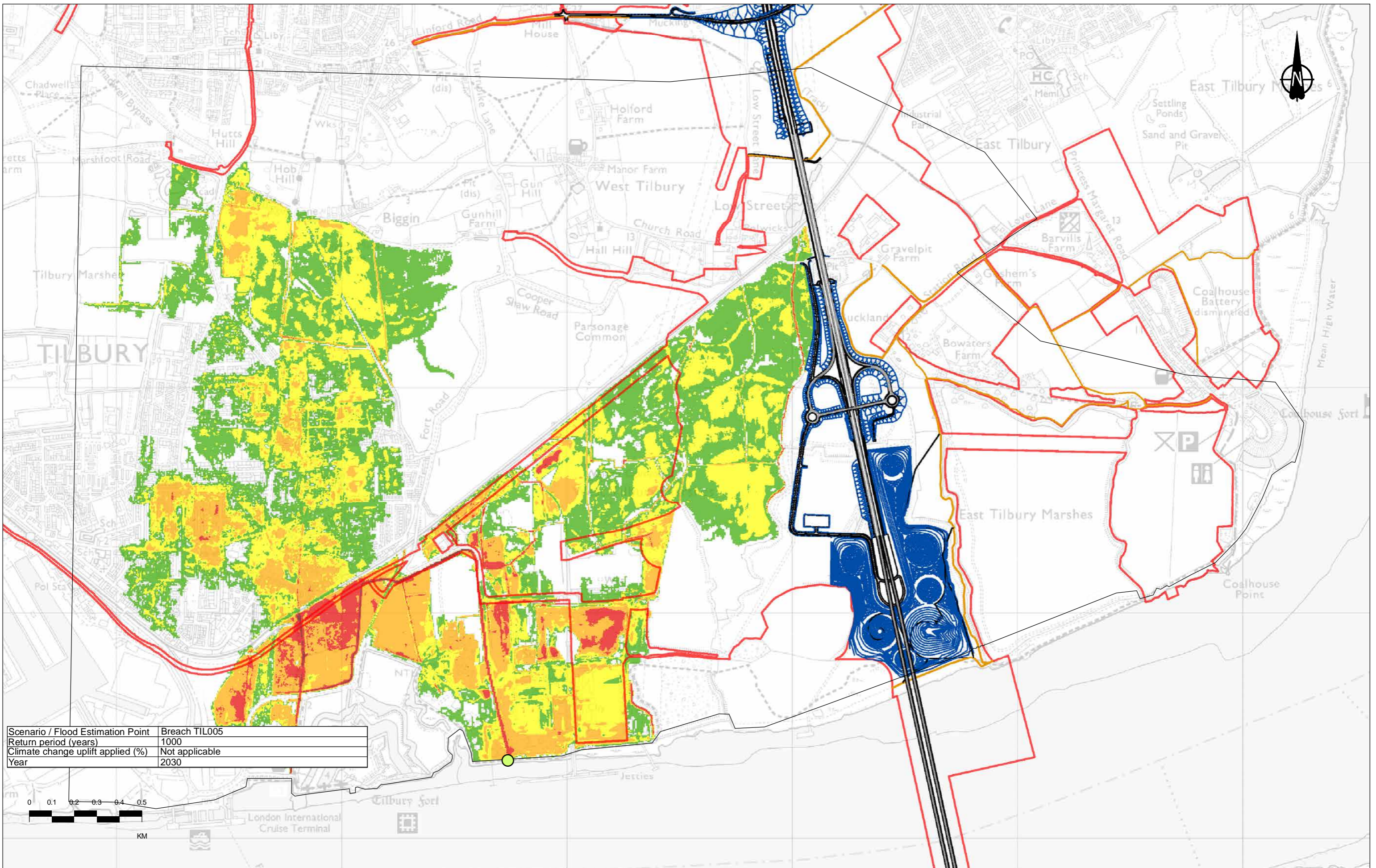
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

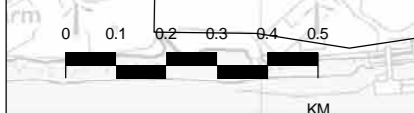
Project: **LOWER THAMES CROSSING**

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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 14 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01191				

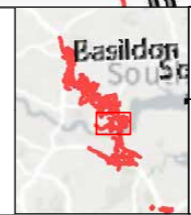


Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

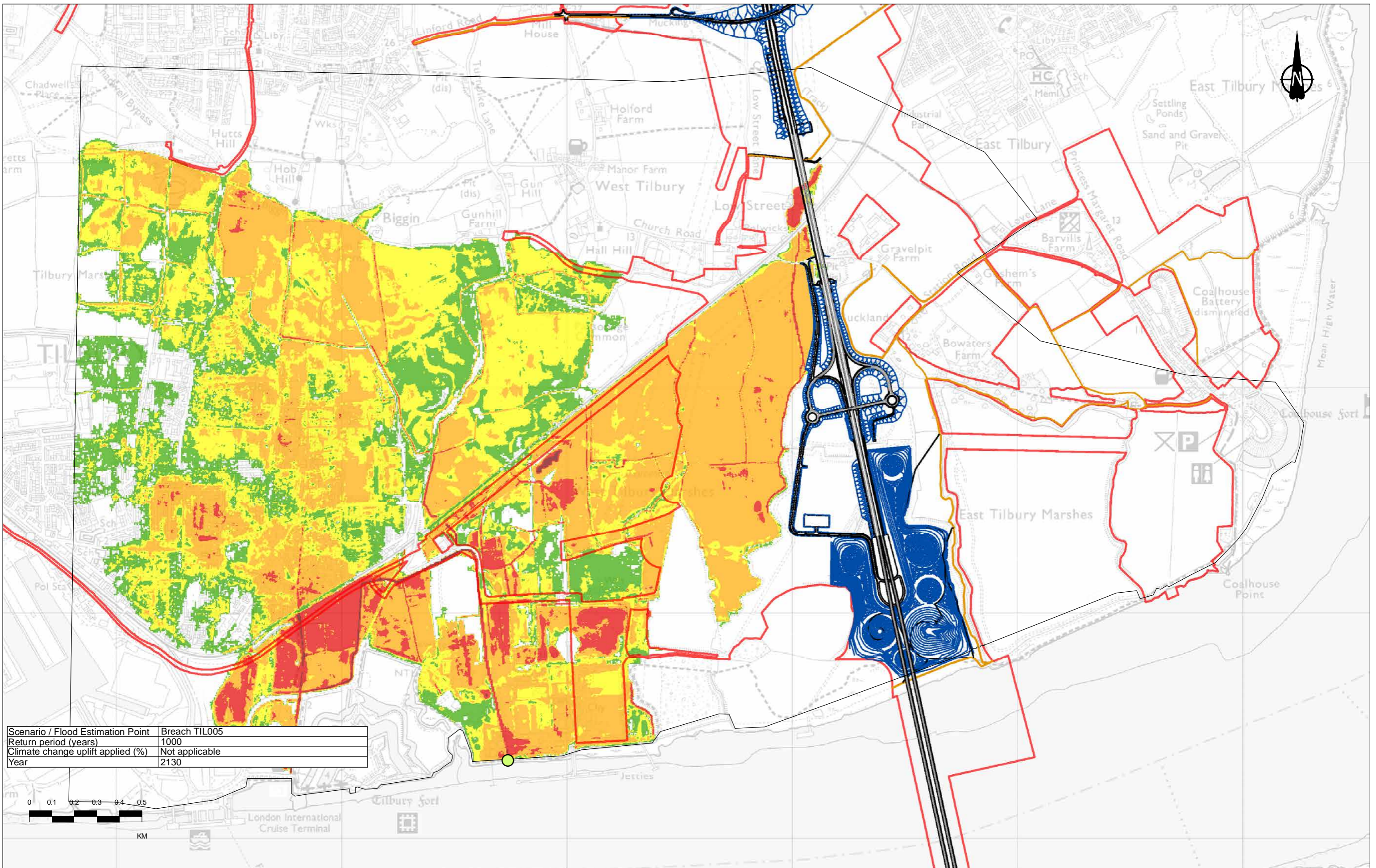
Legend		Proposed LTC alignment Maximum flood depth (m)
	TIL005	0 - 0.25
	2D Model domain	0.25 - 0.5
	Order Limits	0.5 - 1.0
	Alignment	1.0 - 2.0
	Earthworks	> 2.0
	NMU Routes	



Client

 Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 15 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01192				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130

PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- 2D Model domain
- Order Limits
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Maximum flood depth (m)

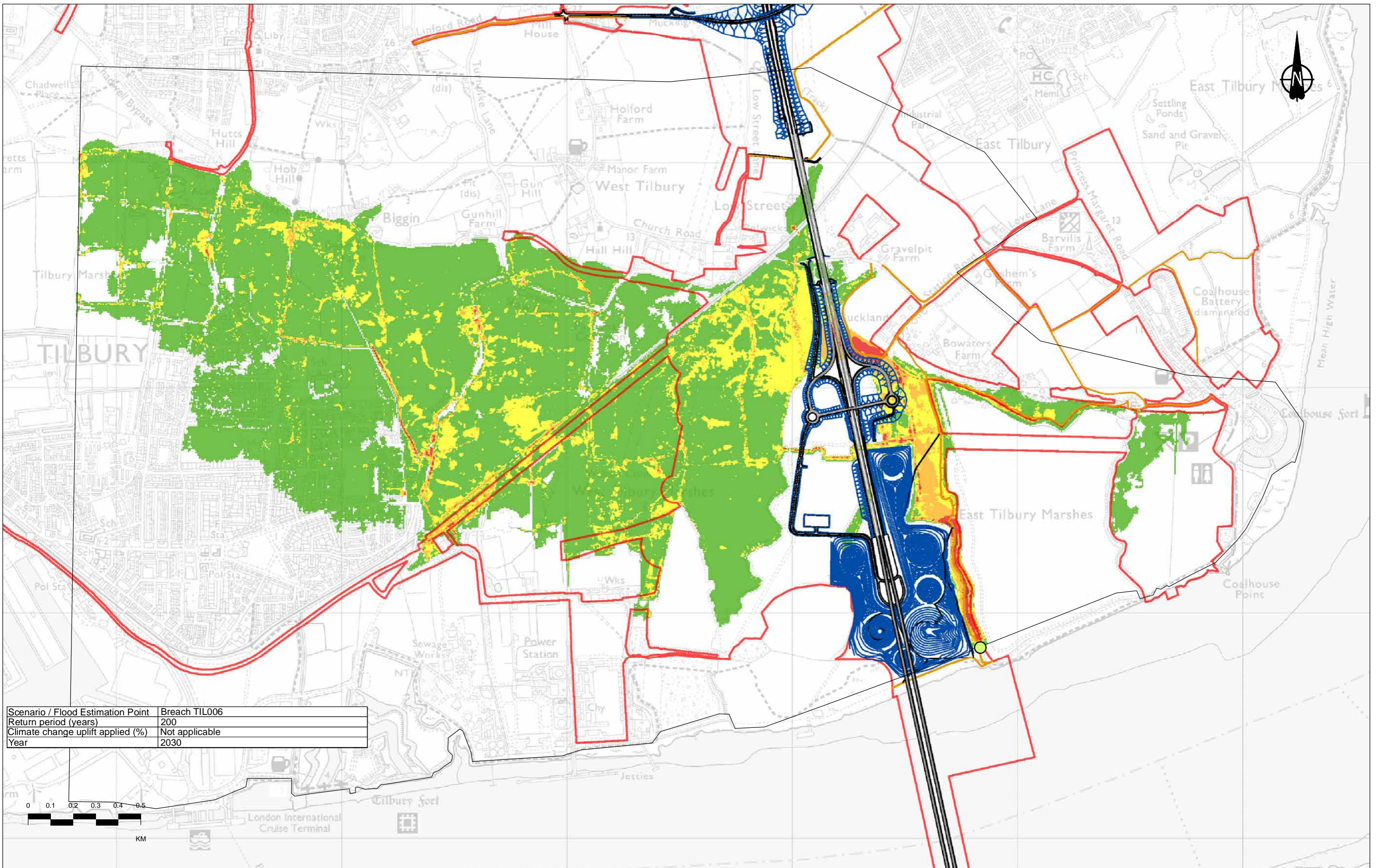
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Client: **Basildon**

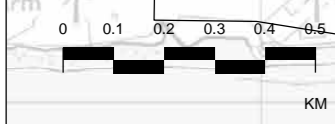
Project: **LOWER THAMES CROSSING**

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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood depth Post-development (with mitigation) Sheet 16 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01193				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



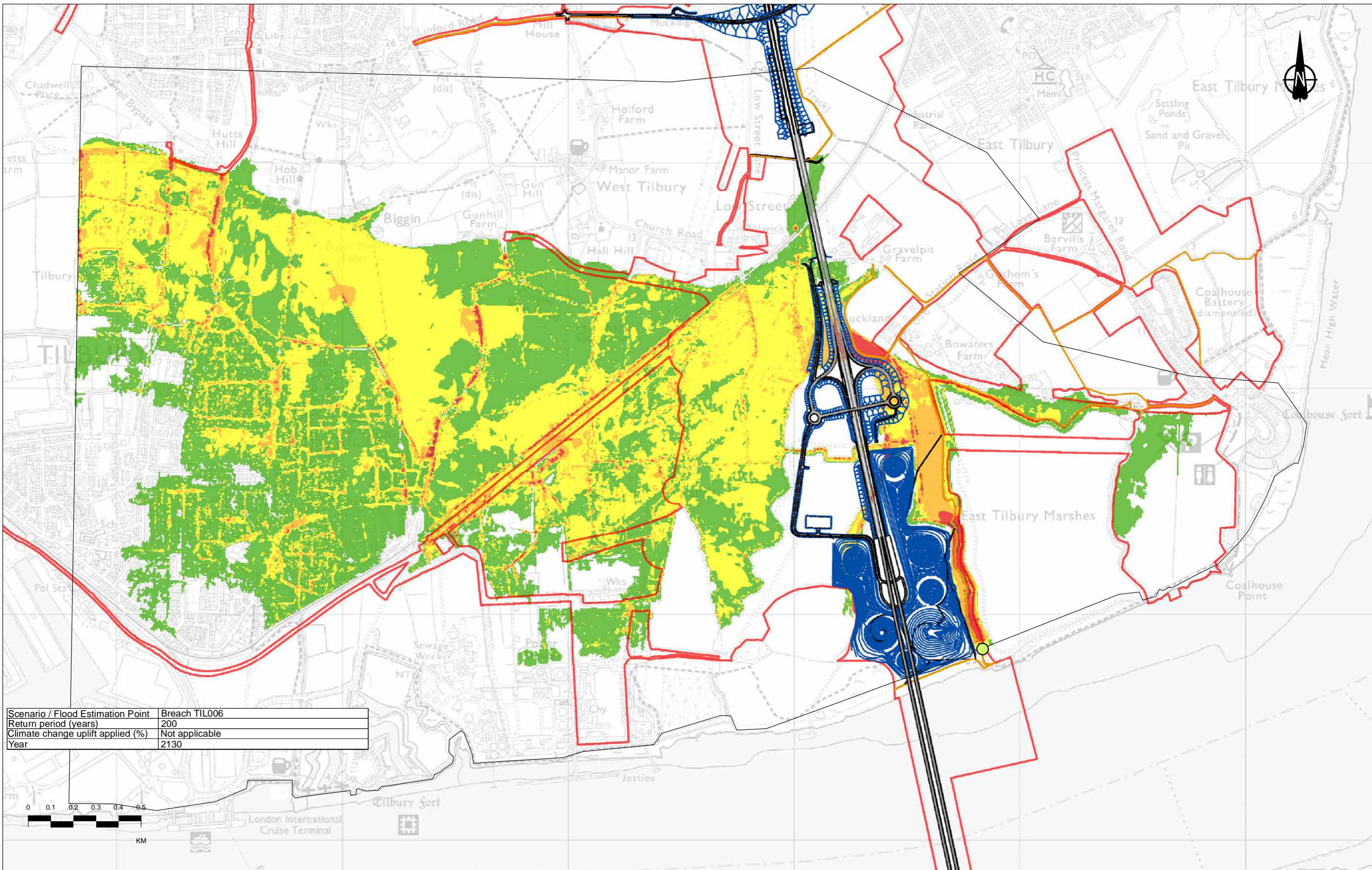
Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 1 of 16		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01194		

<ul style="list-style-type: none"> TIL006 Order Limits 2D Model domain 	<ul style="list-style-type: none"> Proposed LTC alignment Alignment Earthworks NMU Routes 	Maximum flood velocity (m/s) <ul style="list-style-type: none"> 0 - 0.25 0.25 - 0.5 0.5 - 1.0 1.0 - 2 > 2.0
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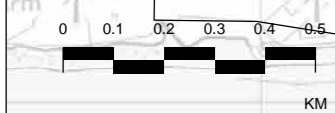
Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3				
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 1 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01194				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

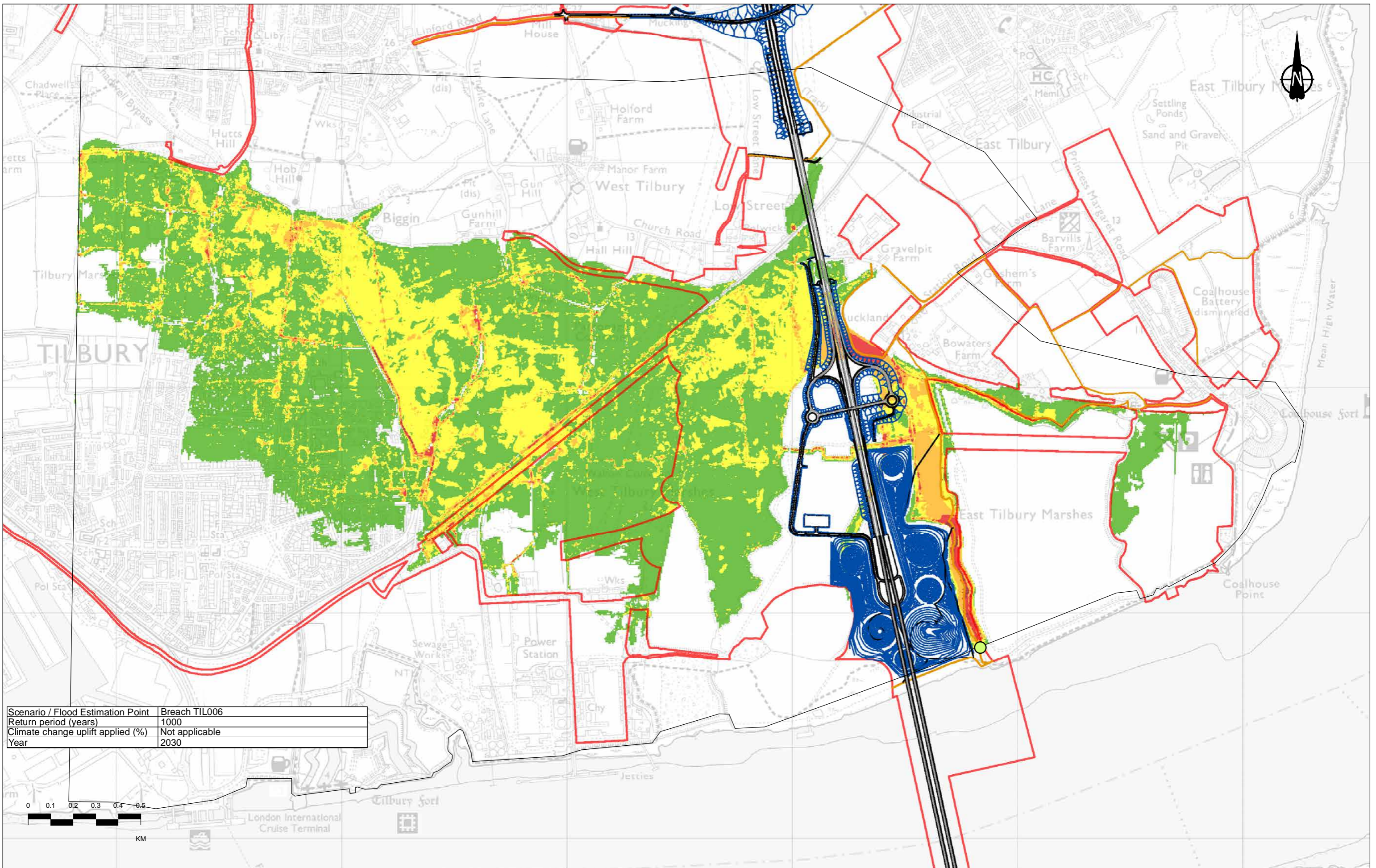
- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client

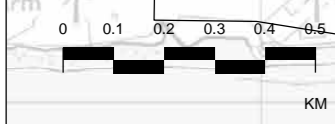
Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 2 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01195				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 3 of 16		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01196		

Legend

- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

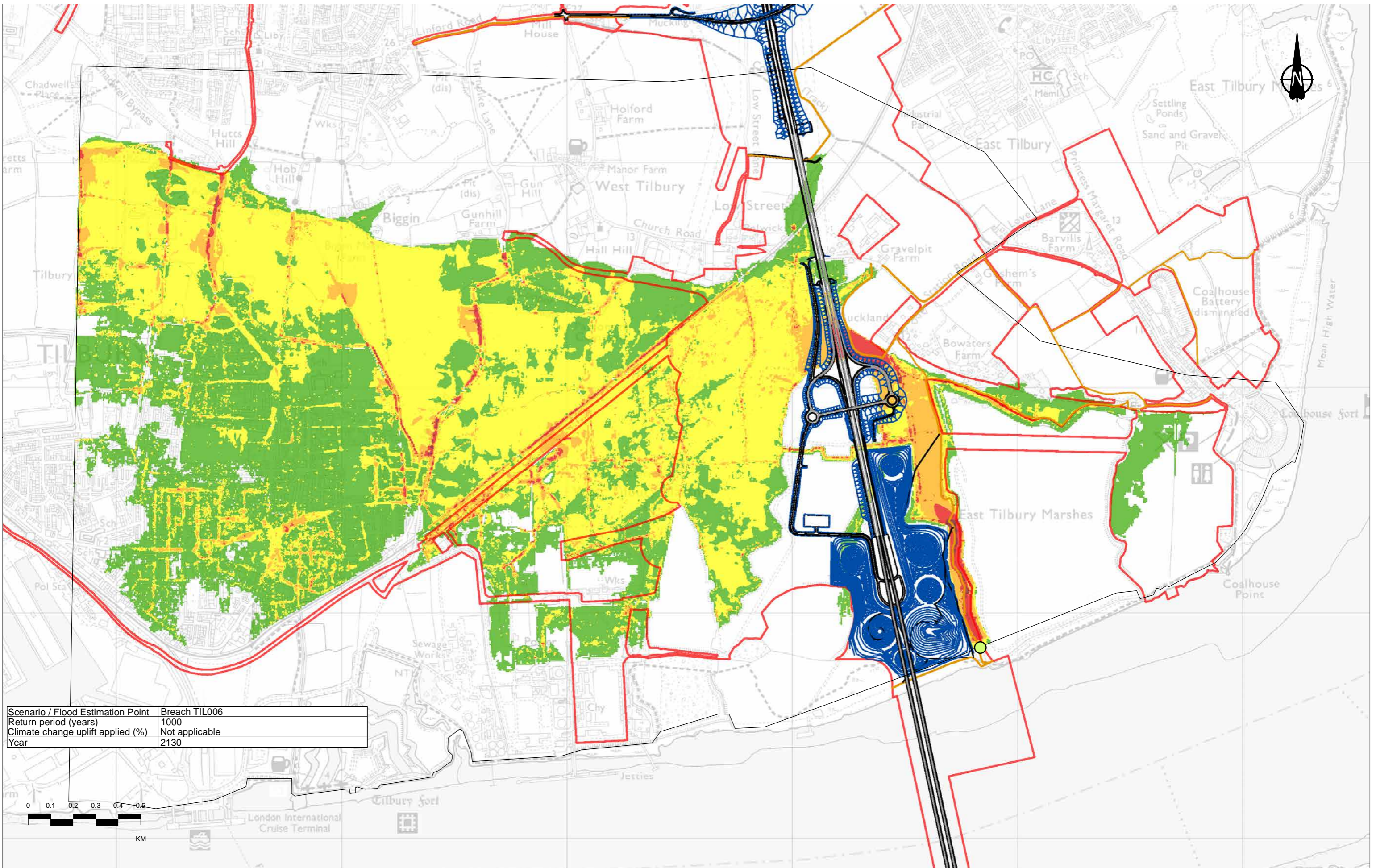
Client: **Basildon**

Project: **LOWER THAMES CROSSING**

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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3				
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 3 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01196				

P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130

PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- Alignment
- Earthworks
- NMU Routes
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

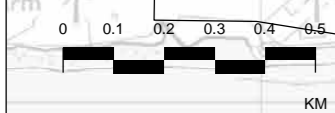
Project: **LOWER THAMES CROSSING**

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Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 4 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01197				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

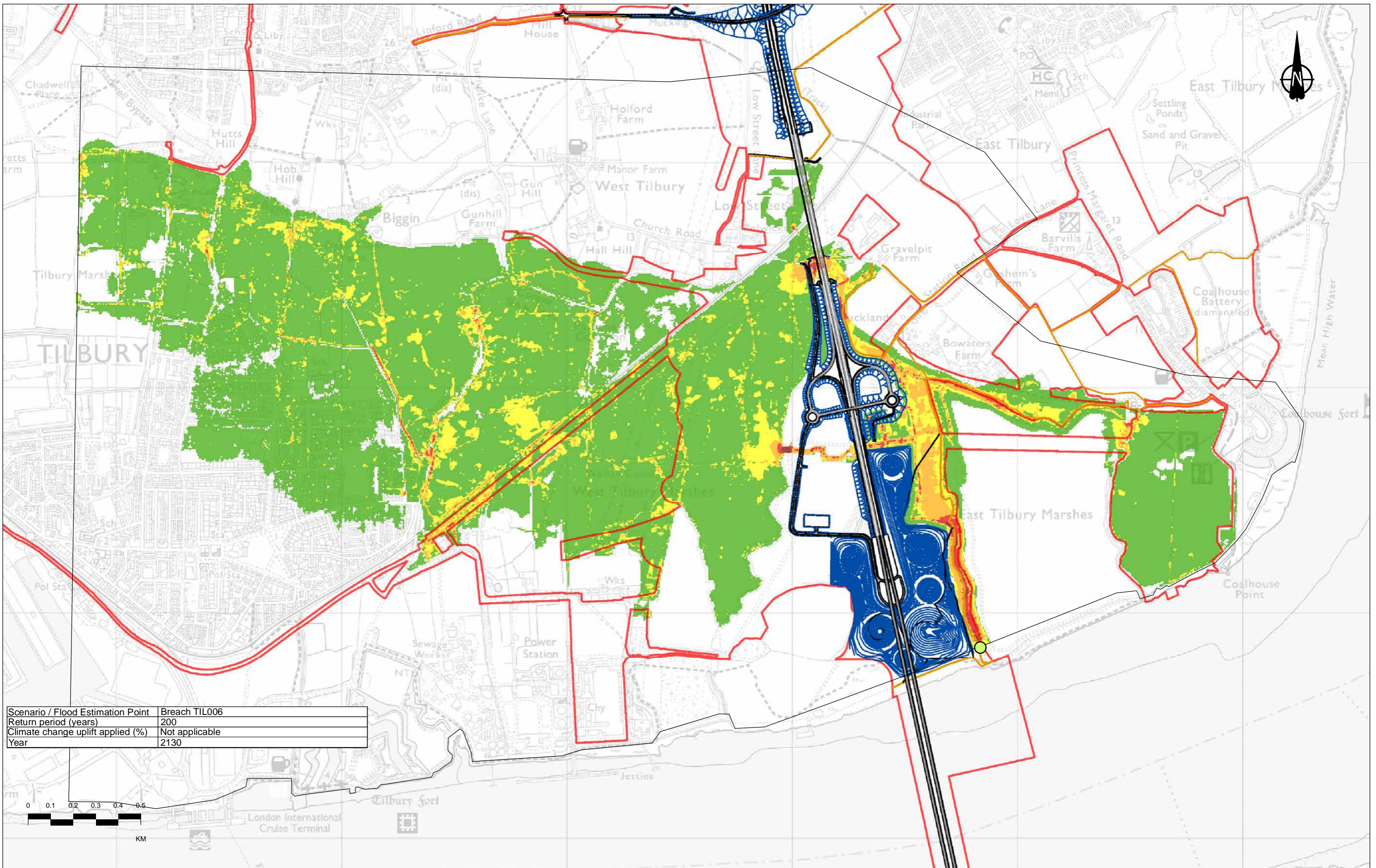
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

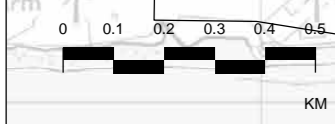
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 5 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01198				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

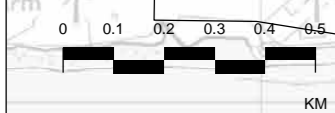
Project: **national highways**

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 6 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01199				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes

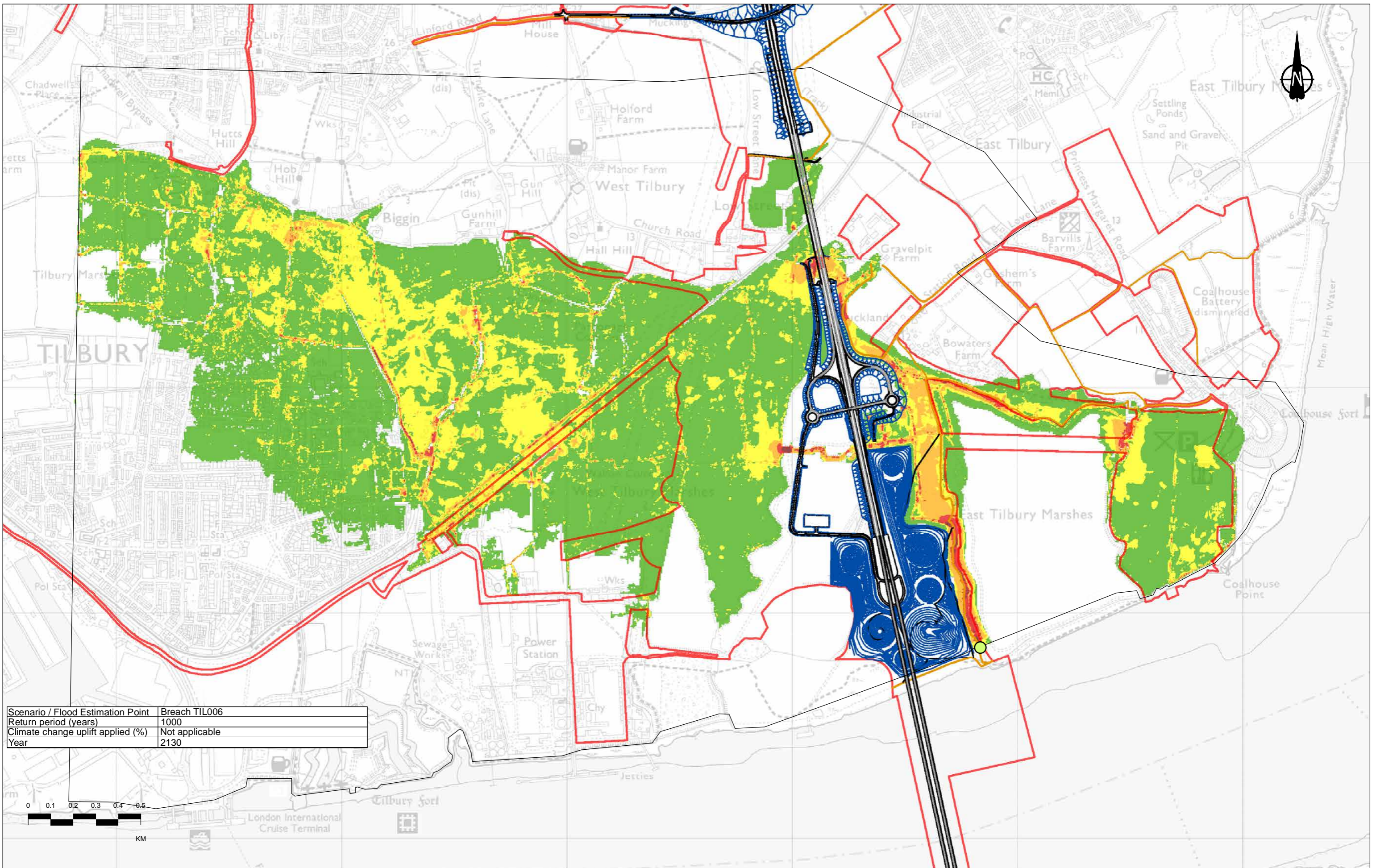
Maximum flood velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 7 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01200				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130

0	0.1	0.2	0.3	0.4	0.5
KM					

Legend		Proposed LTC alignment		Maximum flood velocity (m/s)	
	TIL006		Alignment		0 - 0.25
	Order Limits		Earthworks		0.25 - 0.5
	2D Model domain		NMU Routes		0.5 - 1.0
					1.0 - 2
					> 2.0

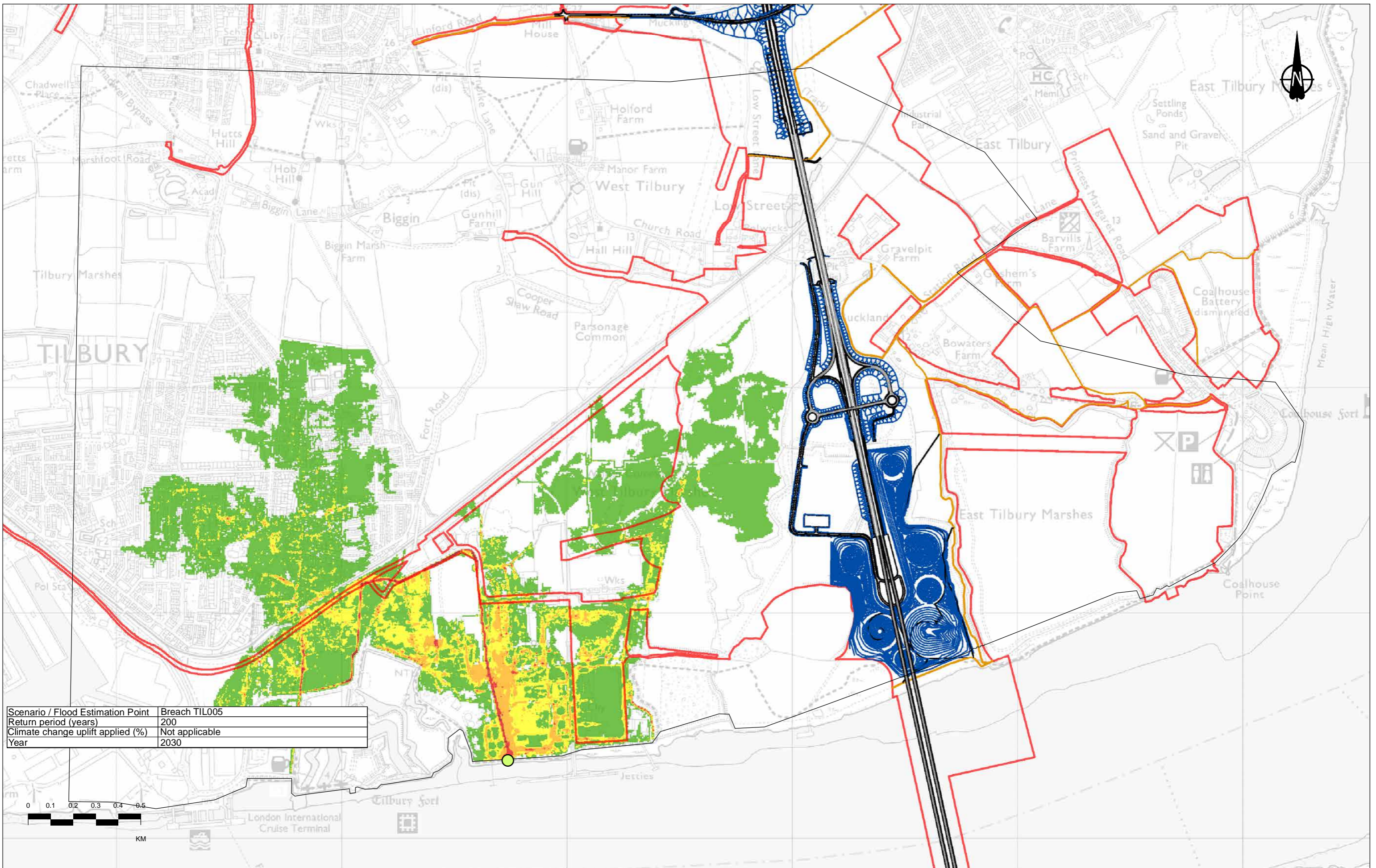
Client:

Project:

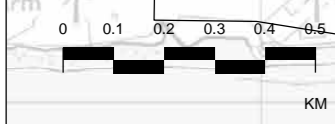
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 8 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01201				

P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

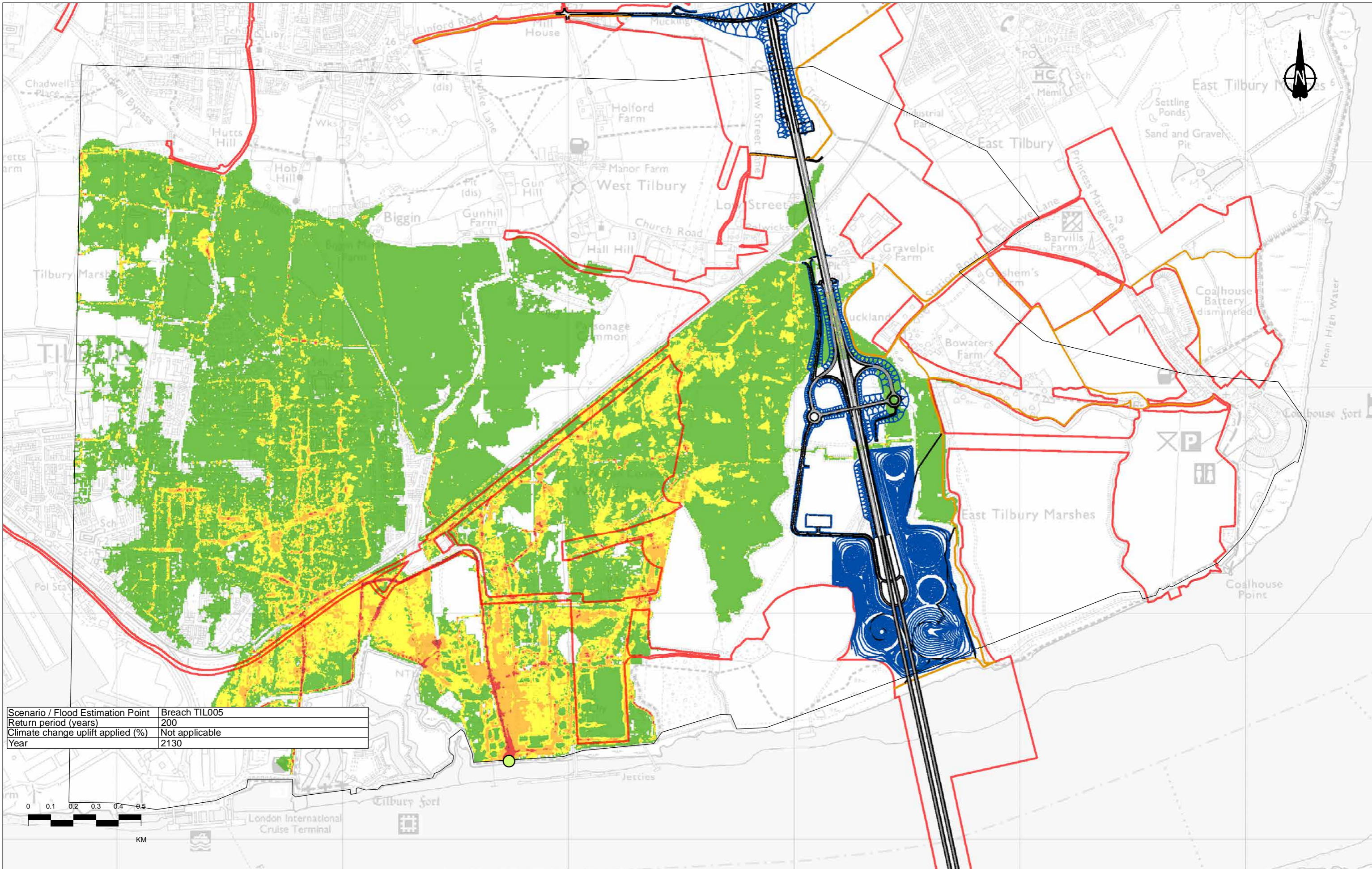
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

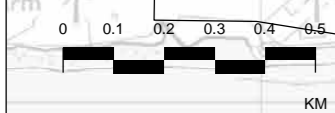
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 9 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01202				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

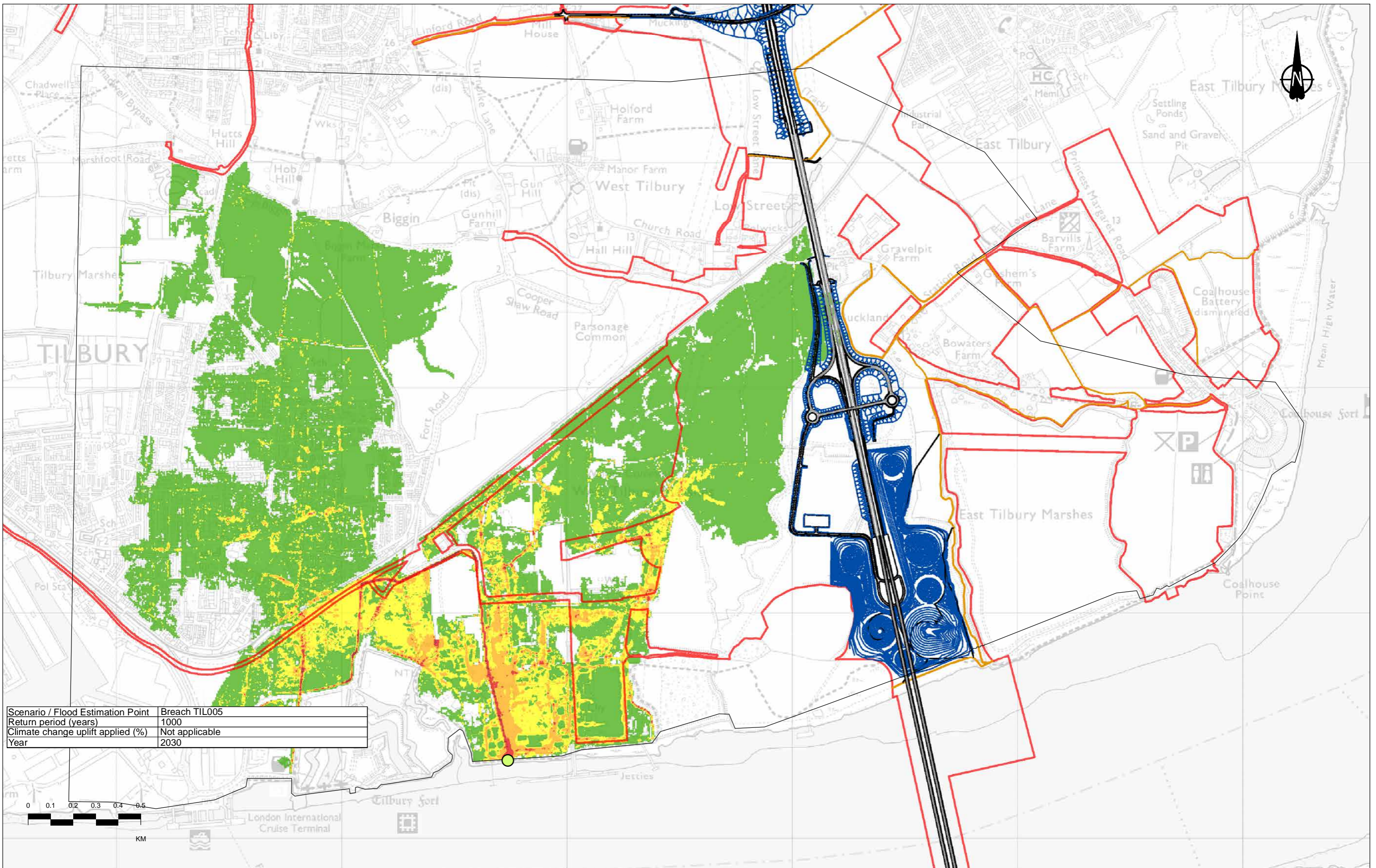
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- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 10 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01203				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030

P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

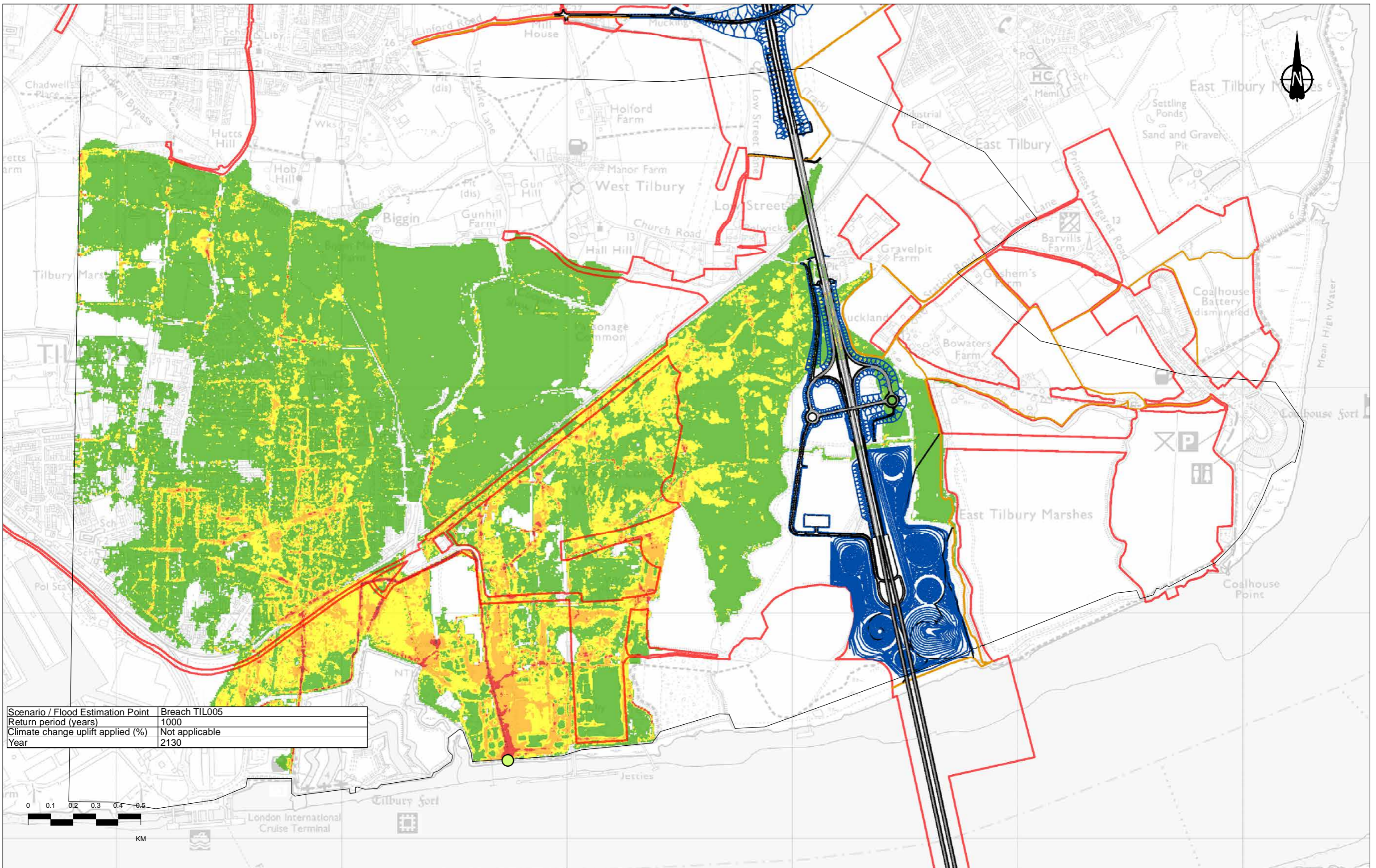
Legend		Proposed LTC alignment		Maximum flood velocity (m/s)	
	TIL005		Alignment		0 - 0.25
	Order Limits		Earthworks		0.25 - 0.5
	2D Model domain		NMU Routes		0.5 - 1.0
					1.0 - 2
					> 2.0

Client:

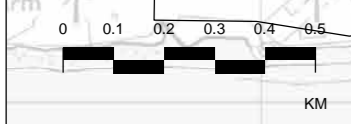
Project:

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 11 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01204				



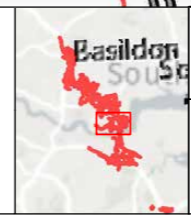
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

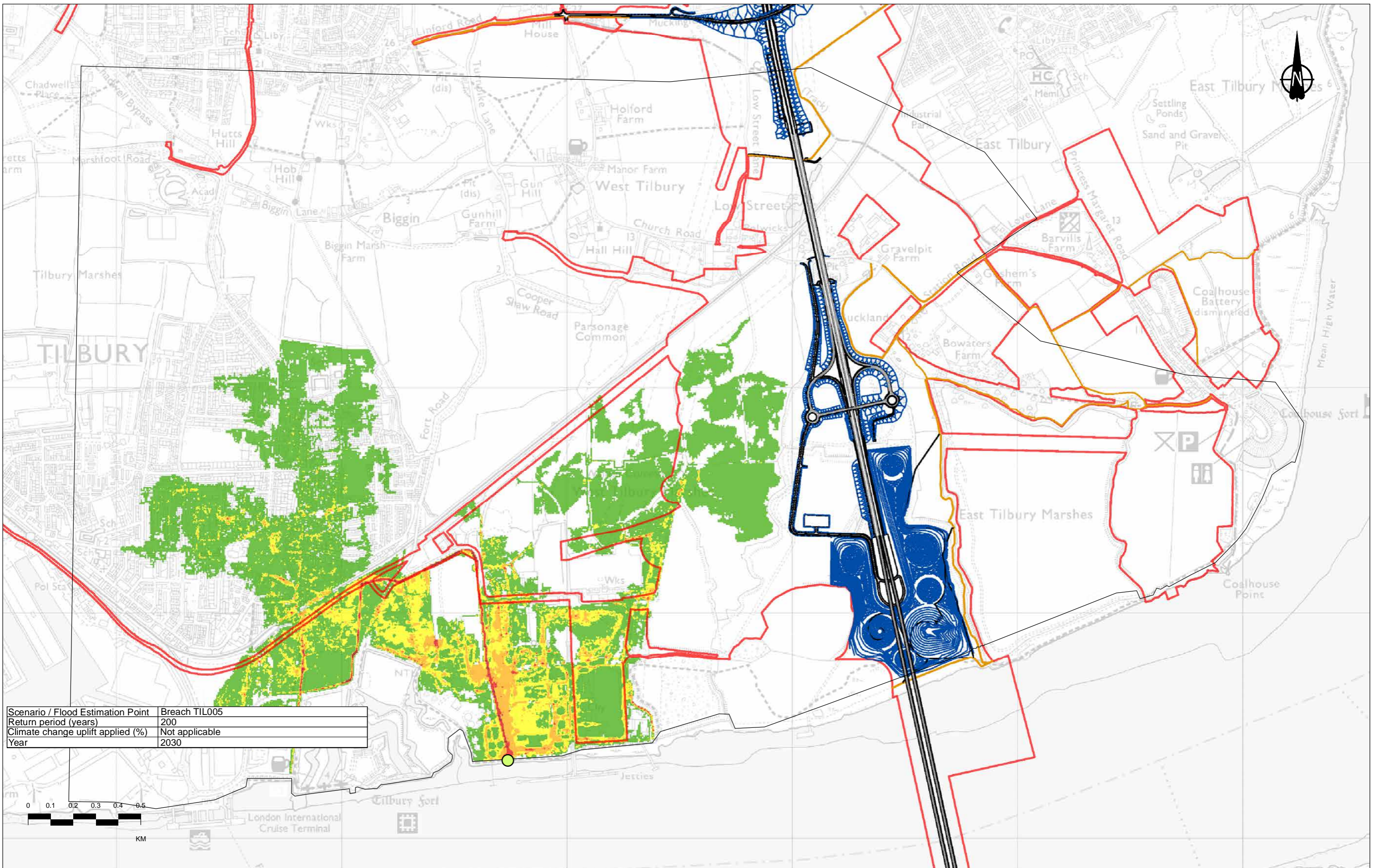


Client

Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Pre-development Sheet 12 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01205				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030

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P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

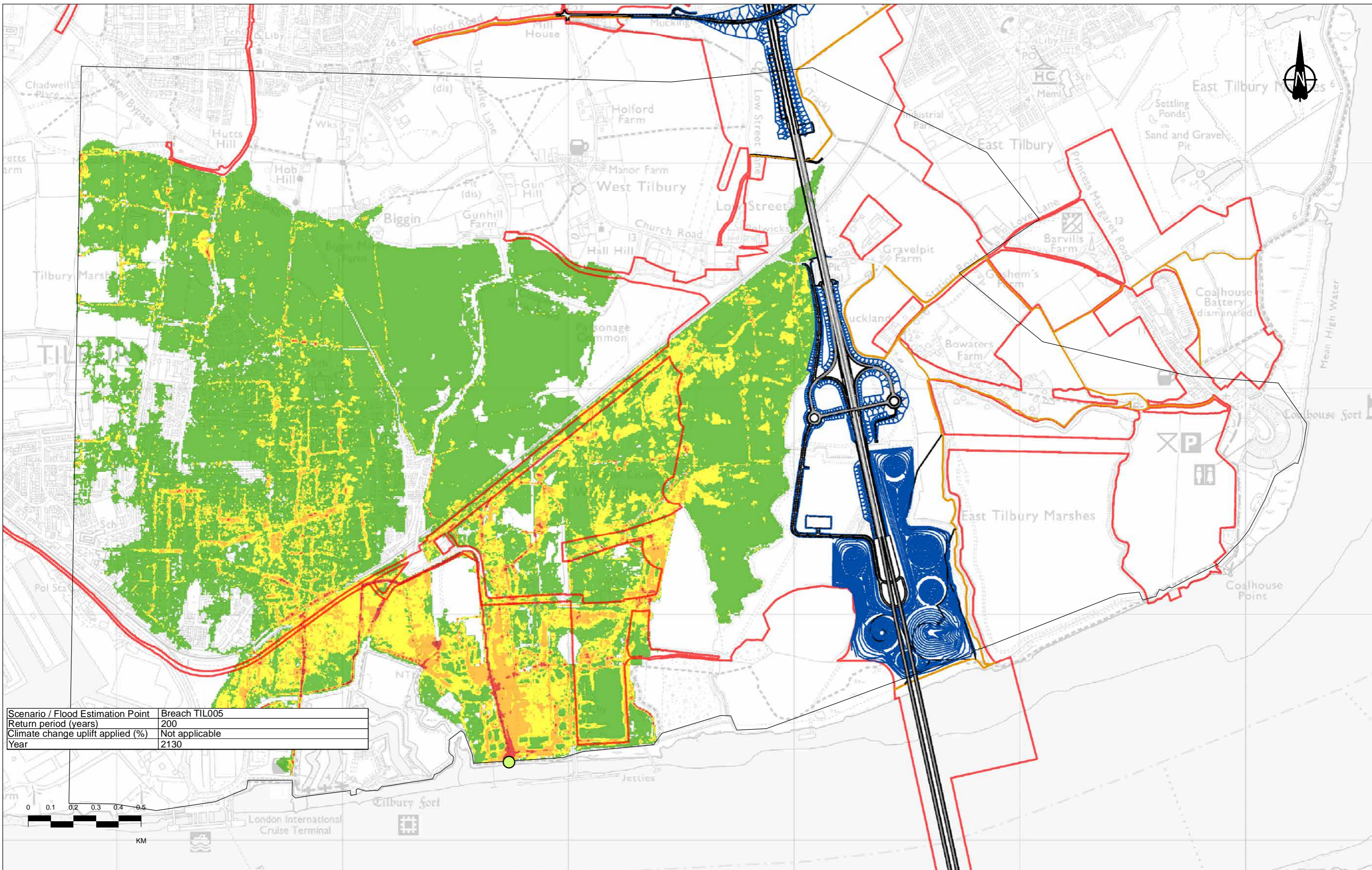
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- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

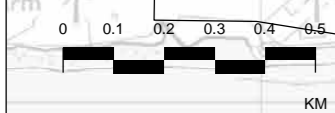
Project: **national highways**

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 13 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01206				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

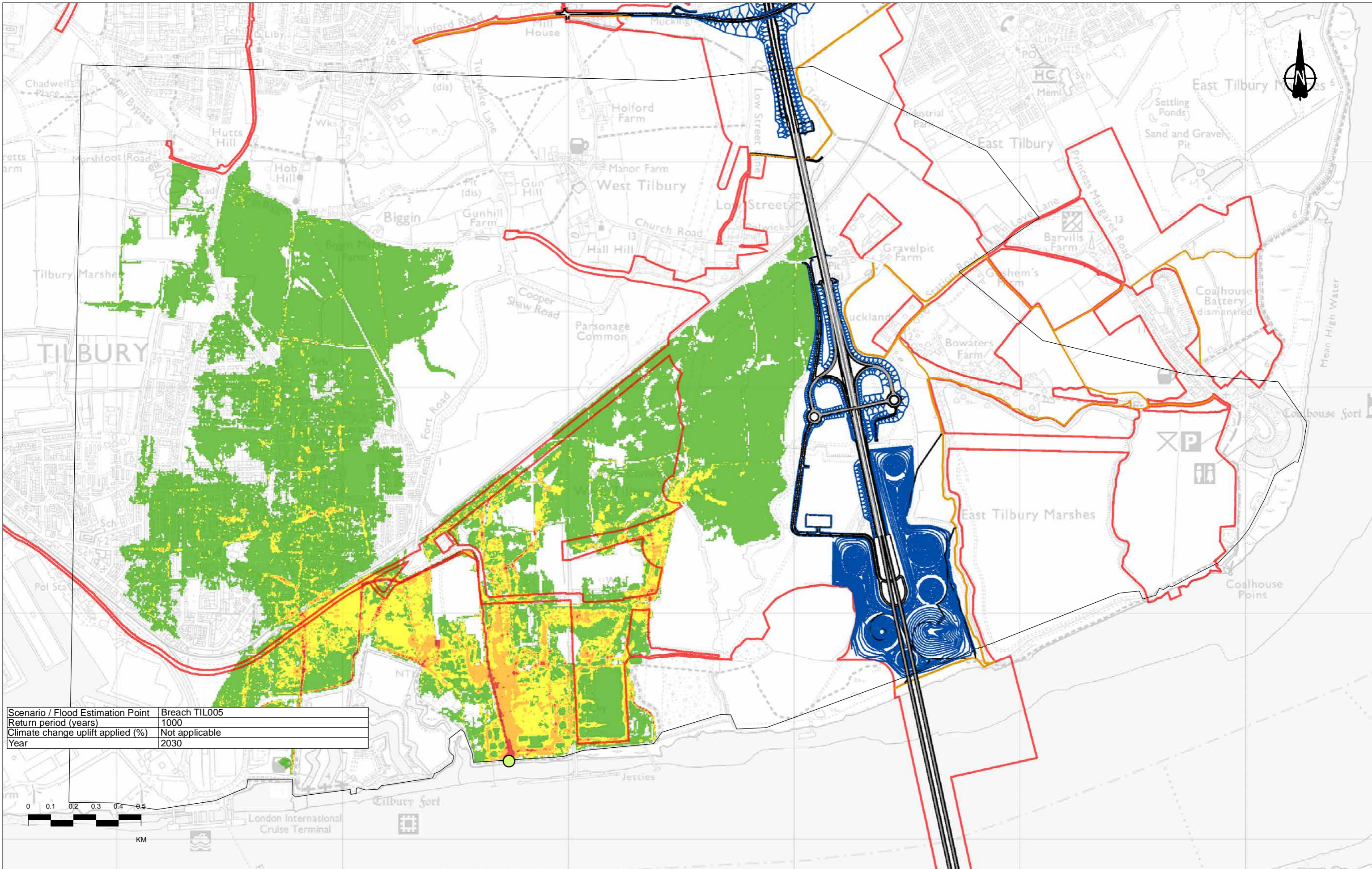
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- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

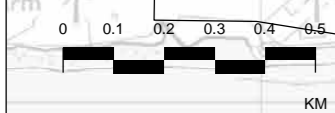
Project: **national highways**

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 14 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01207				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain

Proposed LTC alignment

- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

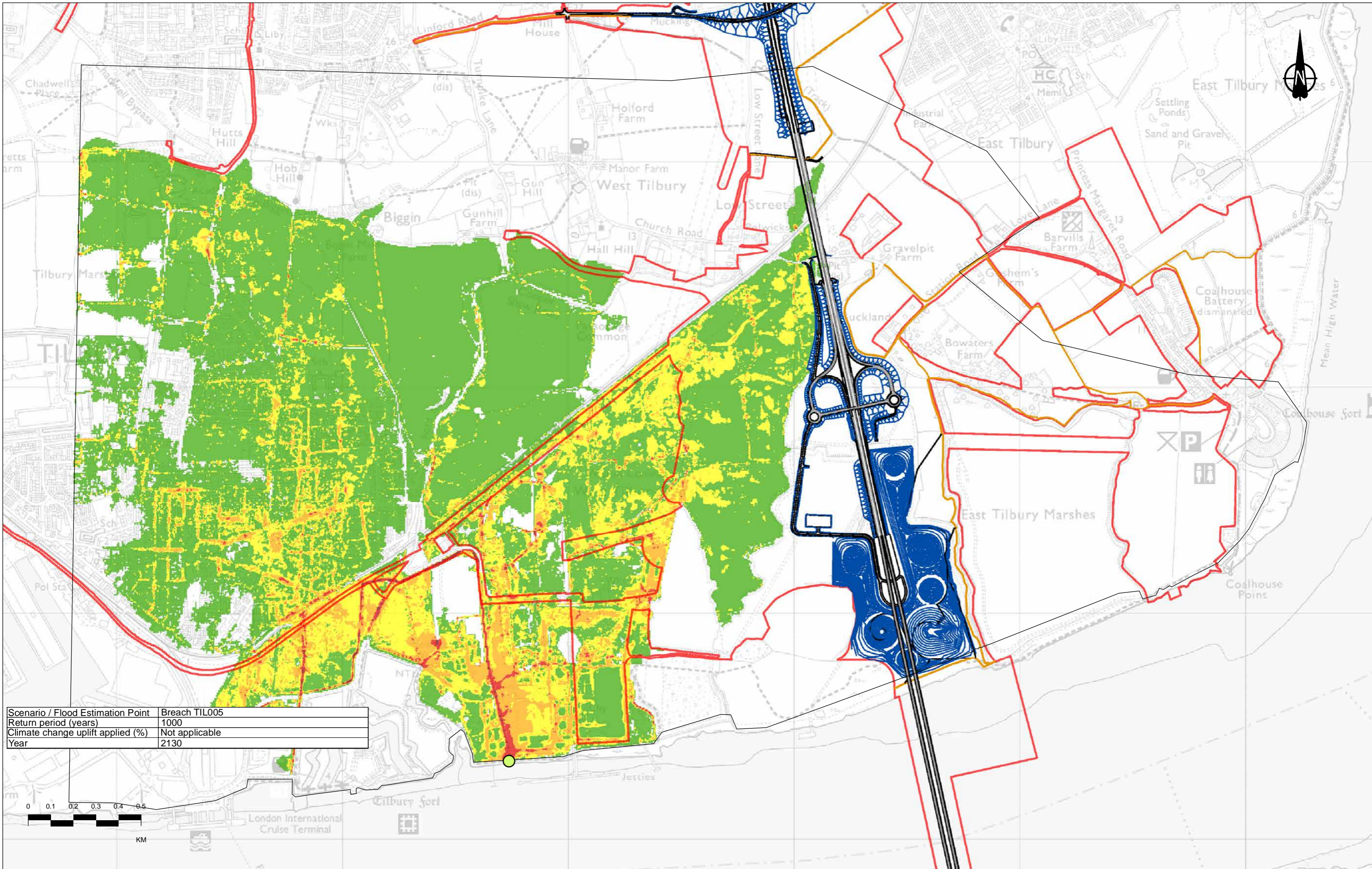
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

Project: **national highways**

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 15 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01208				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130

PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- Alignment
- Earthworks
- NMU Routes

Maximum flood velocity (m/s)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 1.0
- 1.0 - 2
- > 2.0

Client: **Basildon**

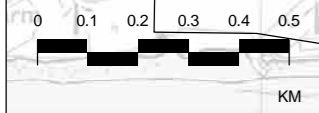
Project: **LOWER THAMES CROSSING**

national highways

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood velocity Post-development (with mitigation) Sheet 16 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01209				



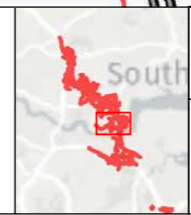
Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



P01	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

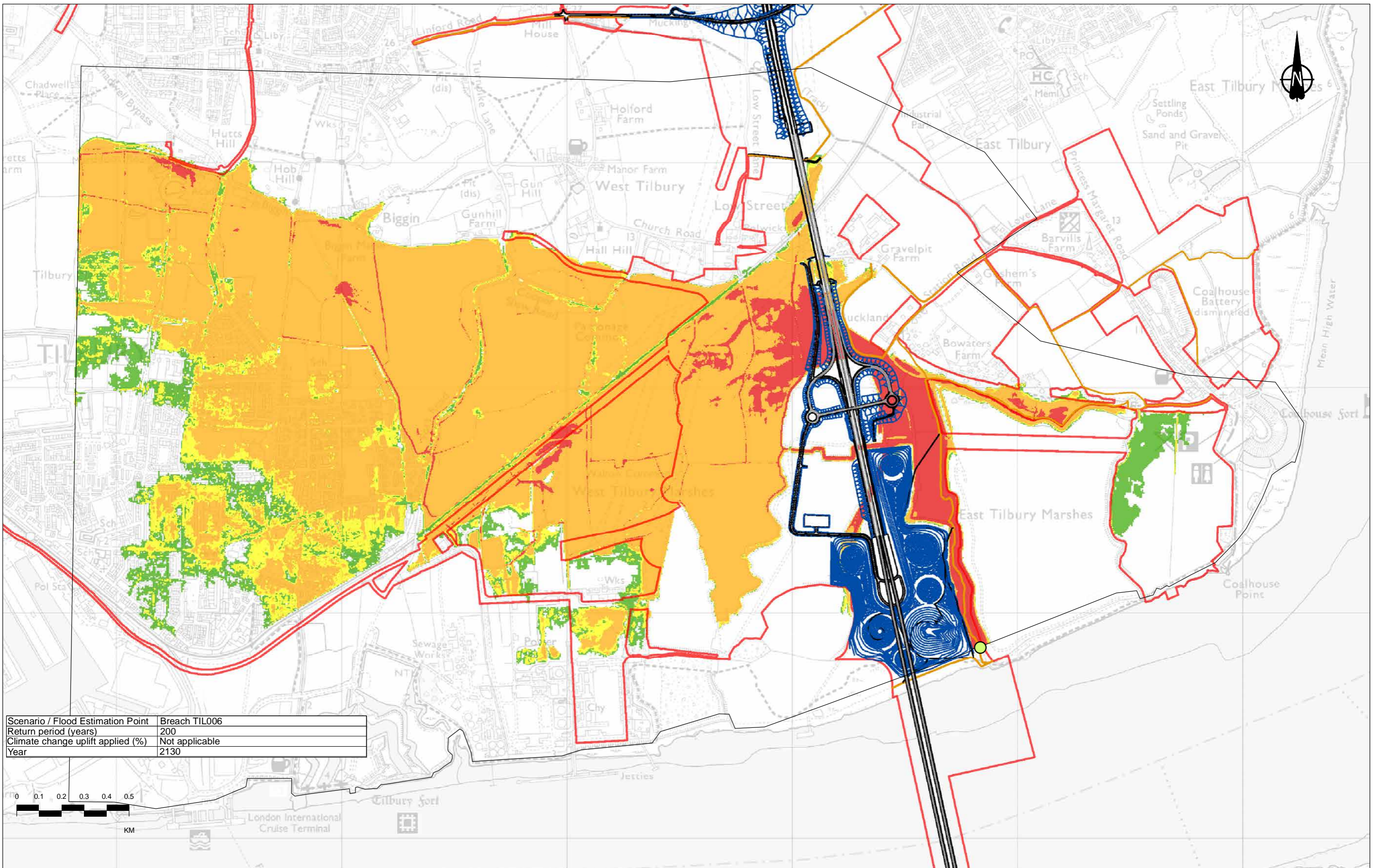
- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



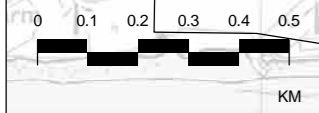
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 1 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZ-DR-LF-01210				



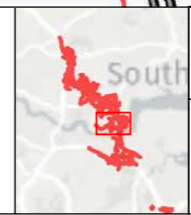
Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



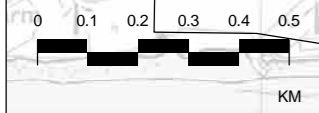
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 2 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01211				



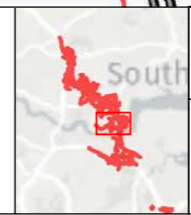
Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

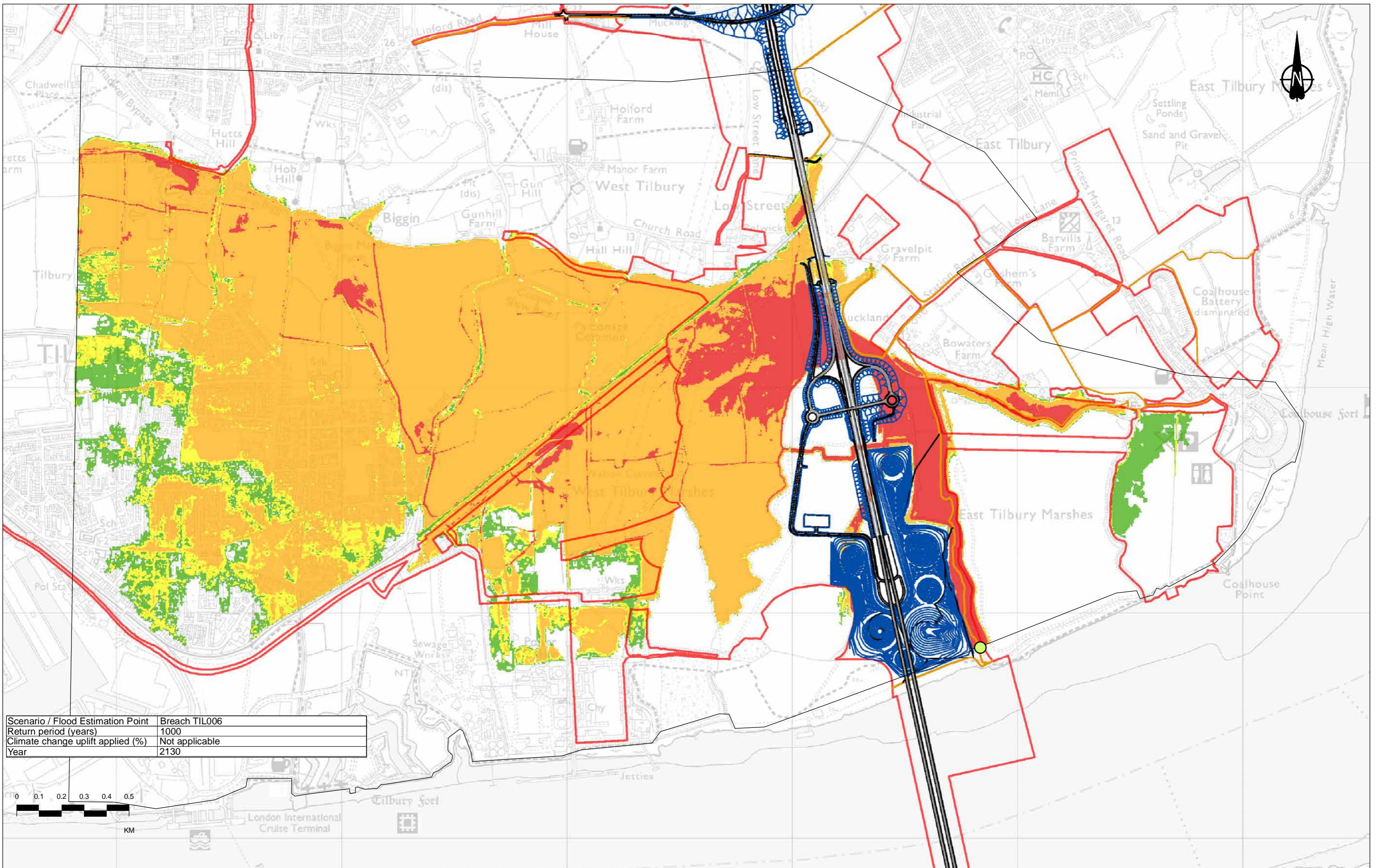
- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Maximum flood hazard category
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



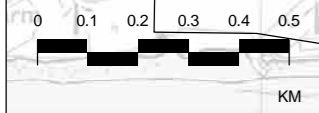
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 3 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZ-DR-LF-01212				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain

Proposed LTC alignment

- Alignment
- Earthworks
- NMU Routes

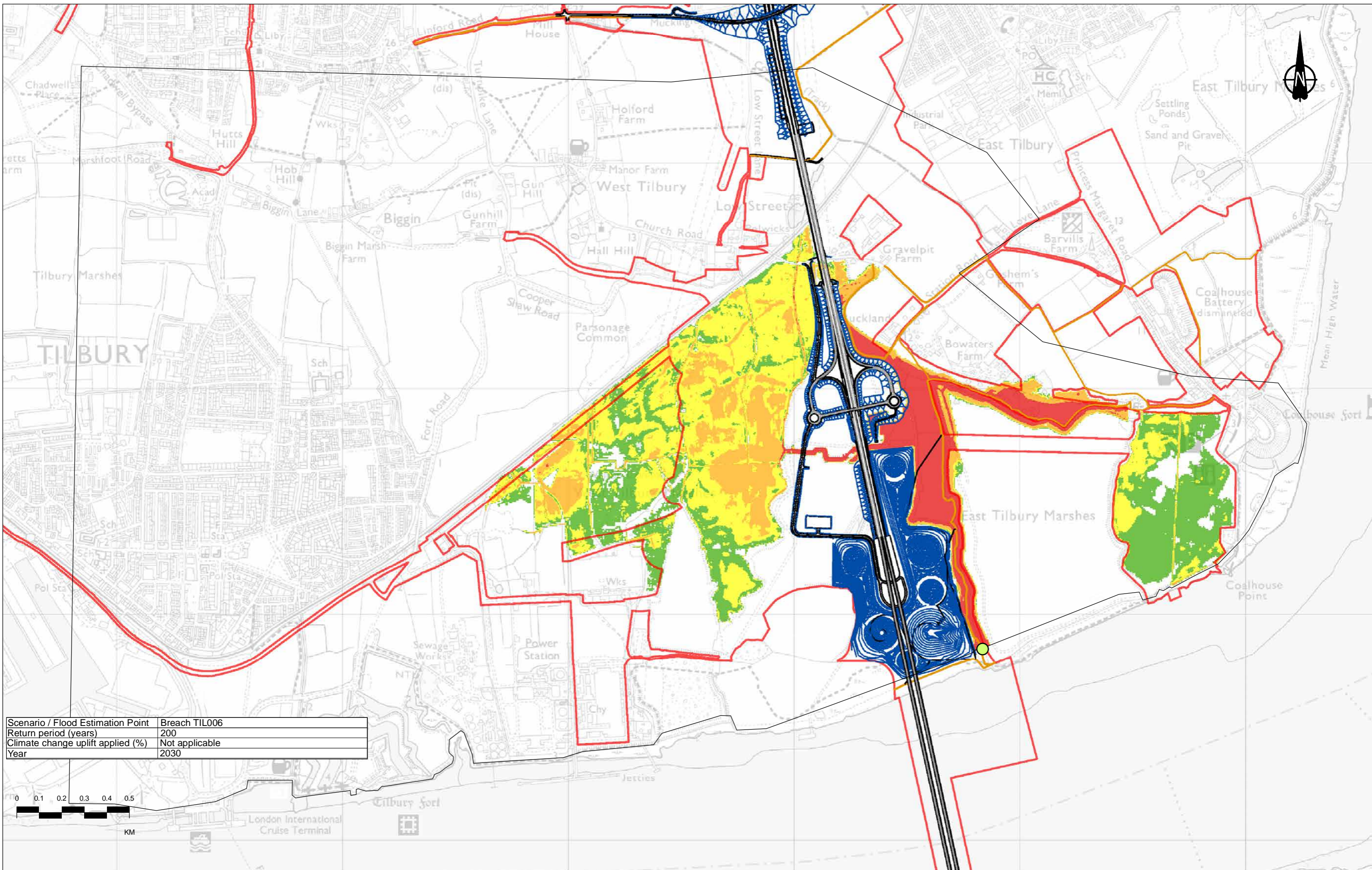
Maximum flood hazard category

- Very low hazard
- Danger for some
- Danger for most
- Danger for all

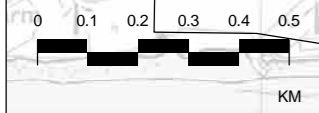
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 4 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01213				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

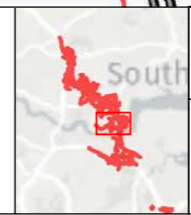
- TIL006
- Order Limits
- 2D Model domain

Proposed LTC alignment

- Alignment
- Earthworks
- NMU Routes

Maximum flood hazard category

- Very low hazard
- Danger for some
- Danger for most
- Danger for all

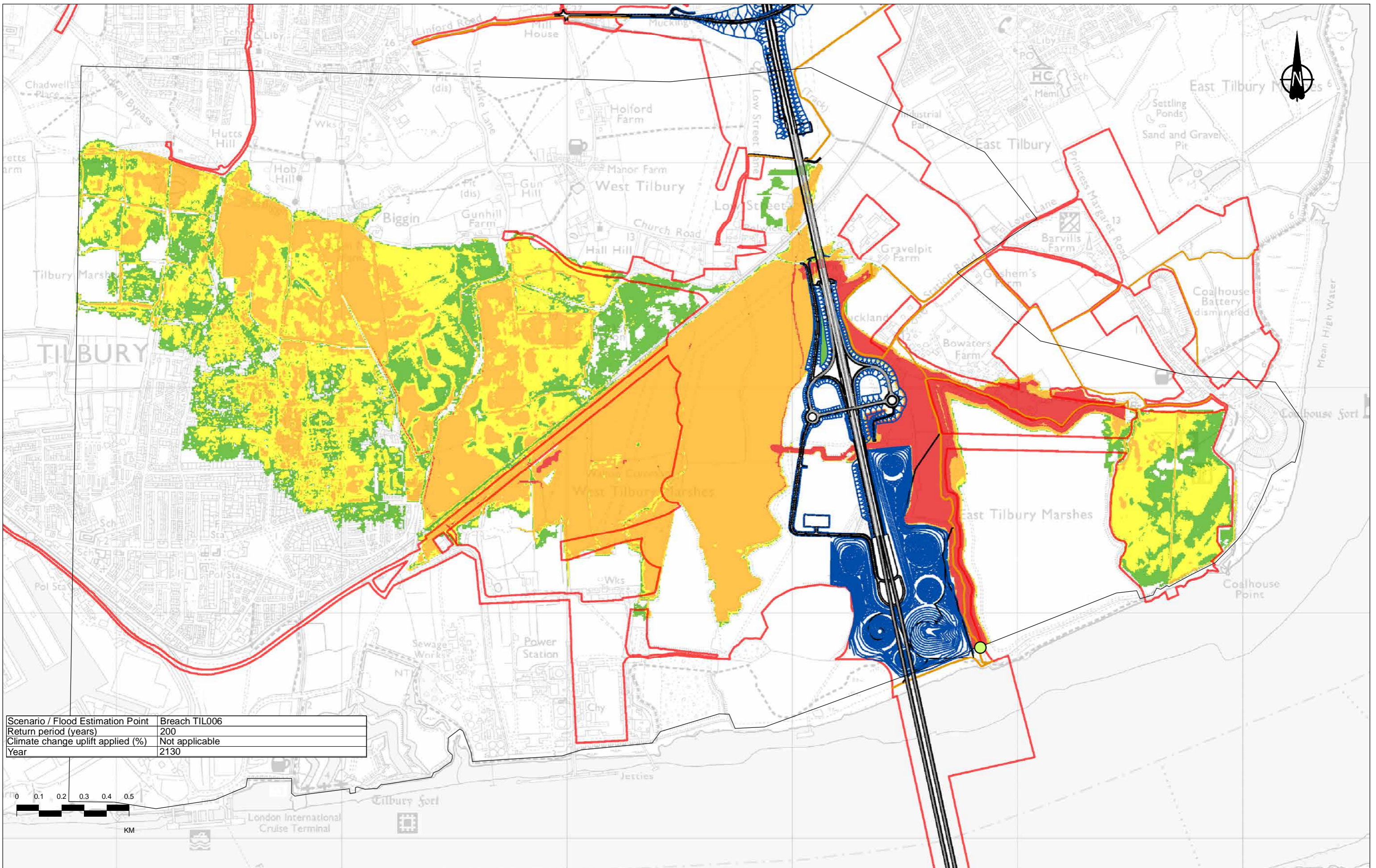


Client

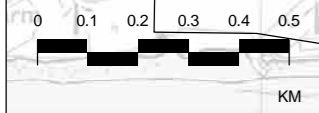
Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 5 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01214				



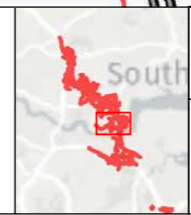
Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

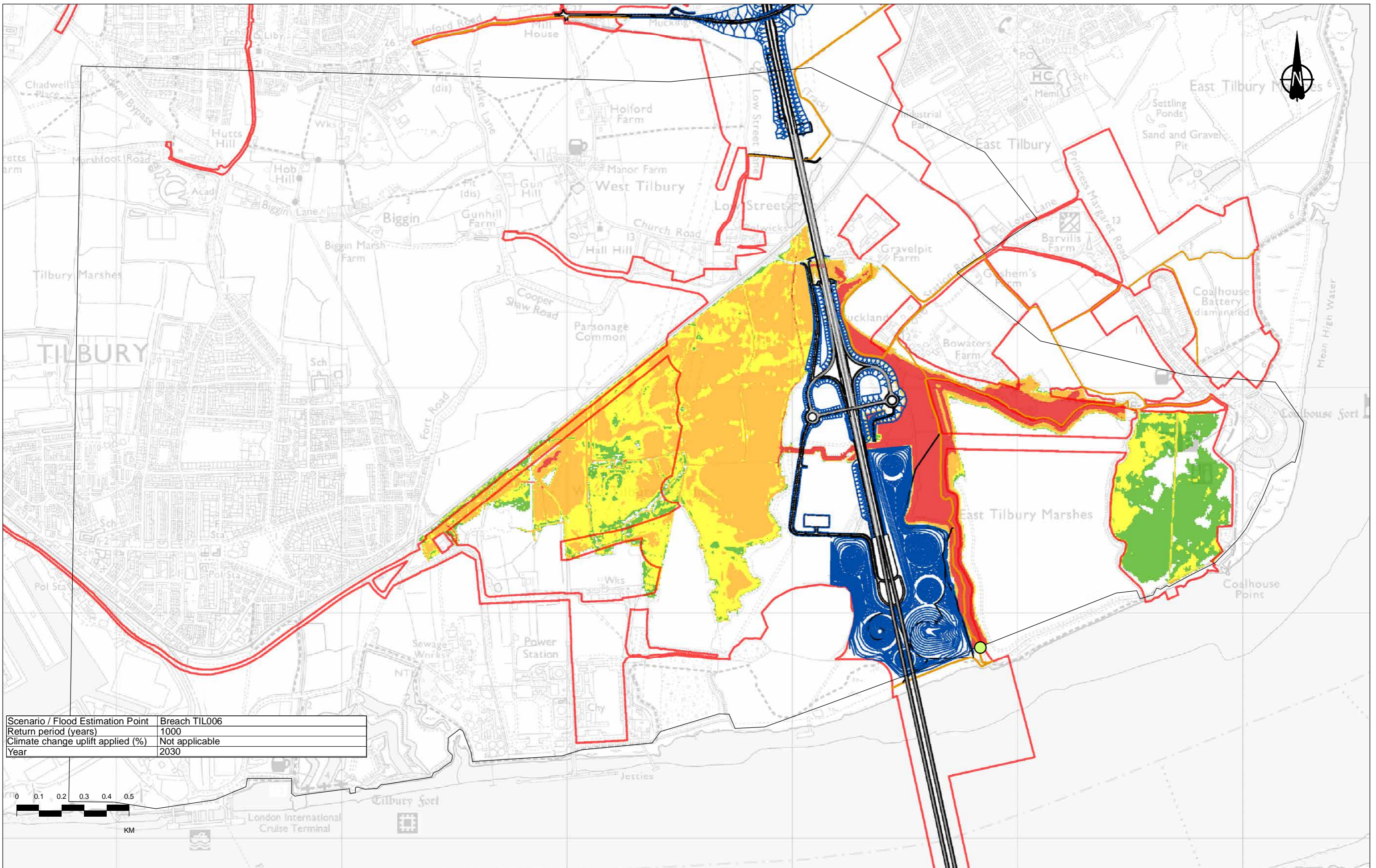
- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Maximum flood hazard category
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



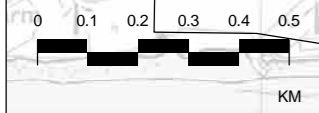
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 6 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01215				



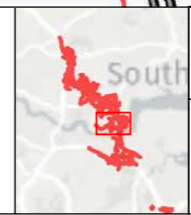
Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

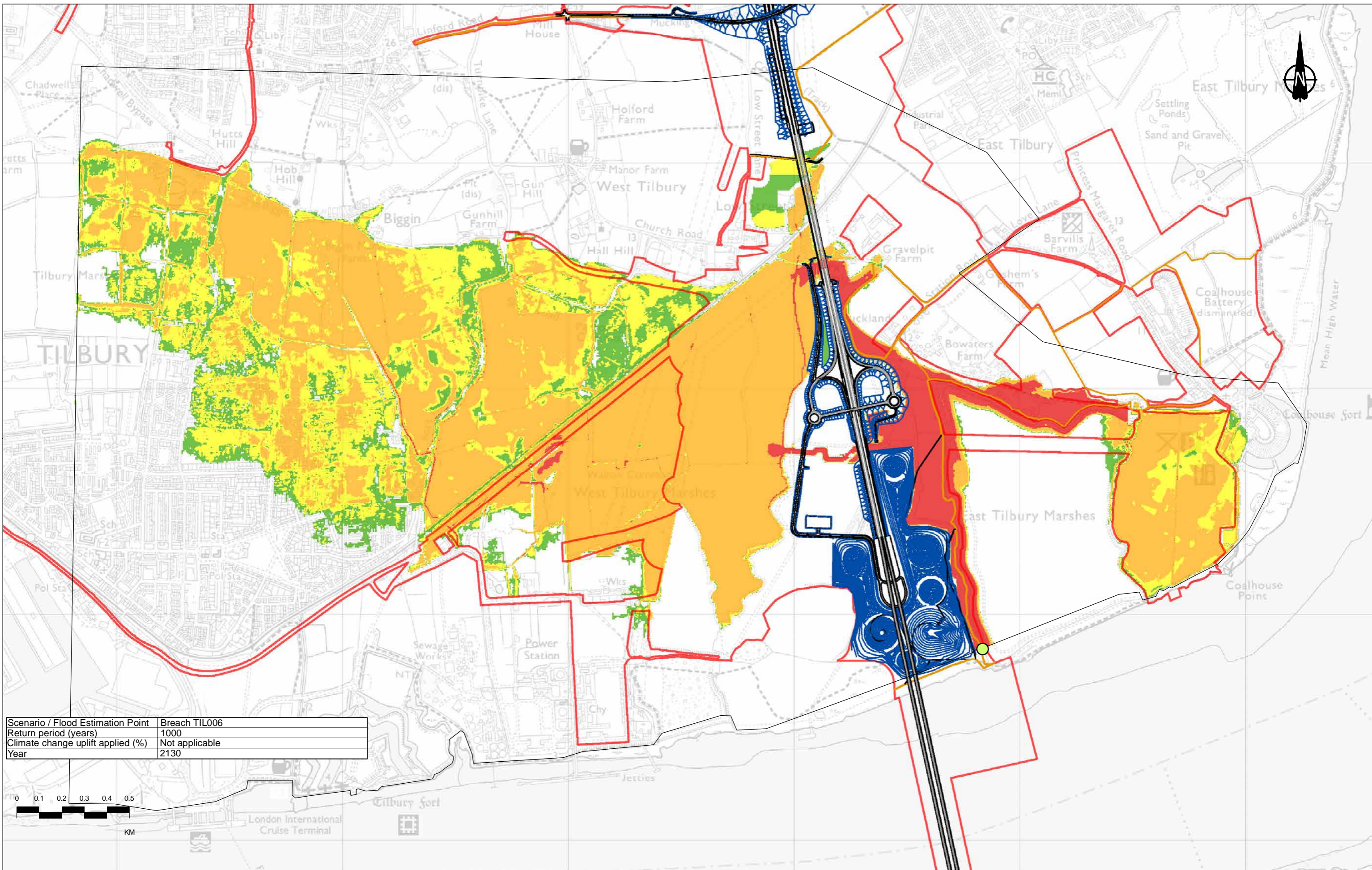
- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Maximum flood hazard category
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



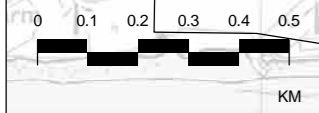
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 7 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01216				



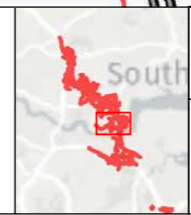
Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

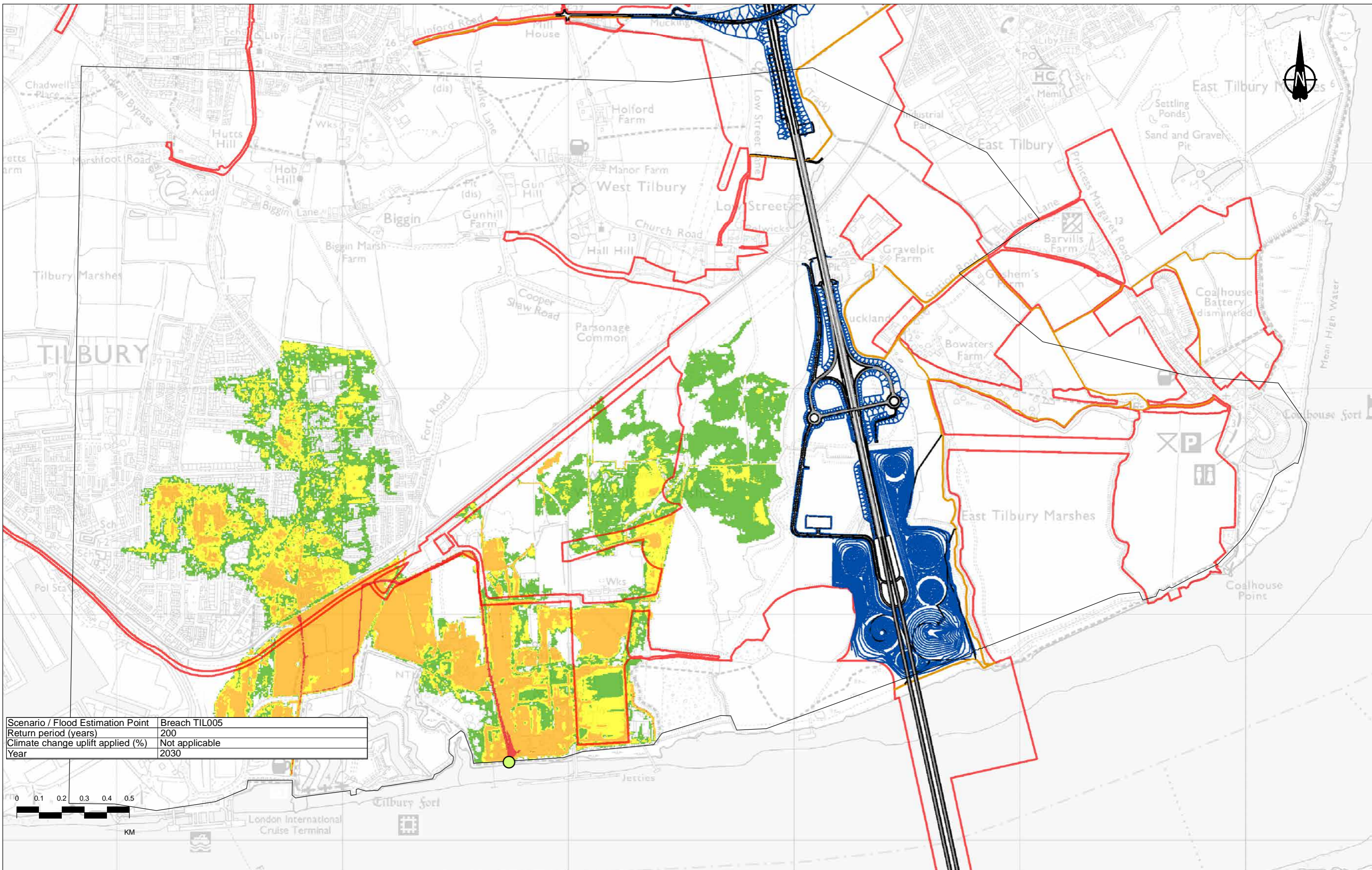
- TIL006
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



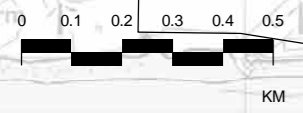
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 8 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01217				



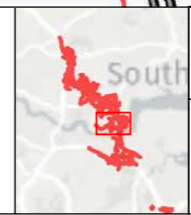
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



COAST	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

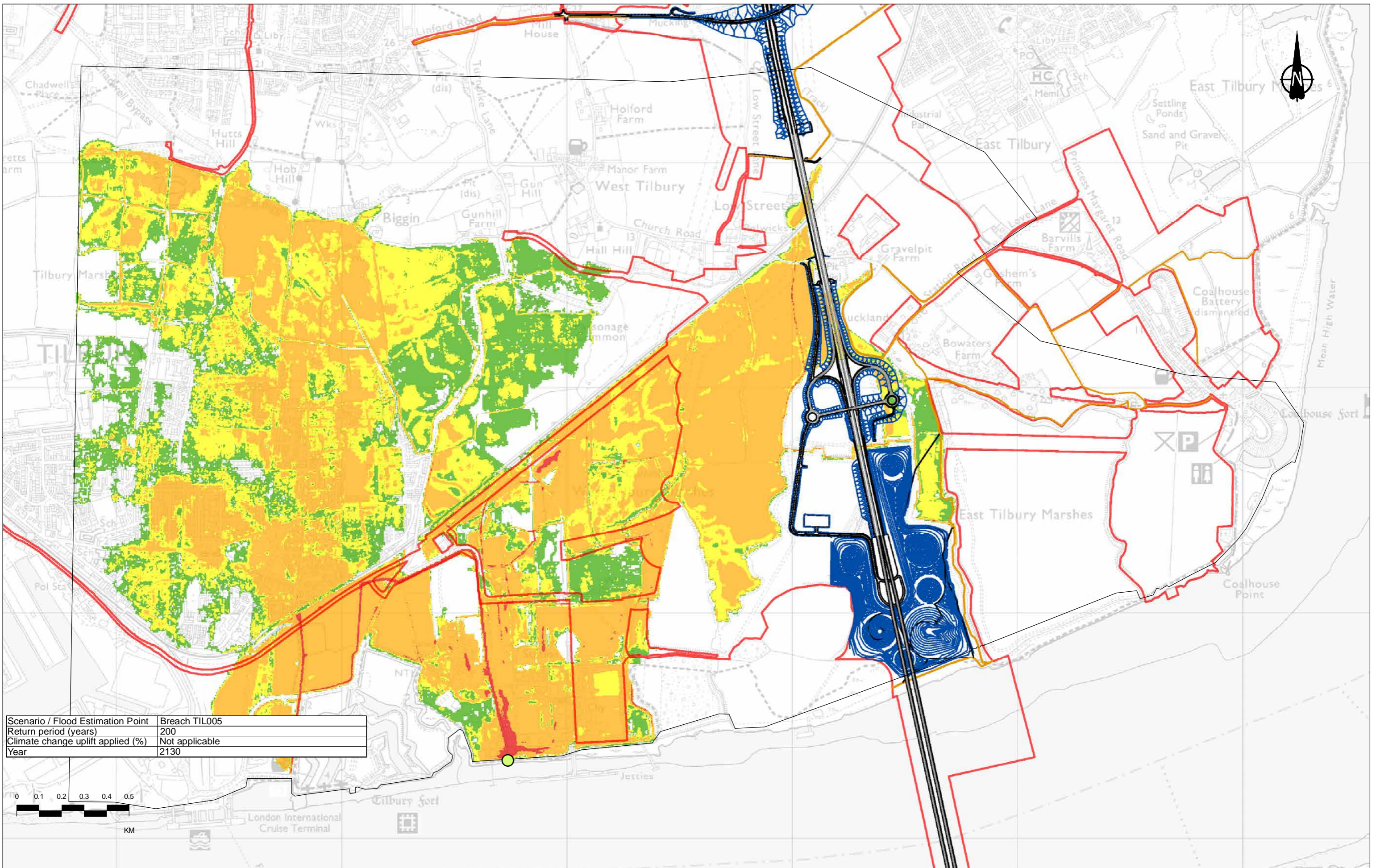


Client

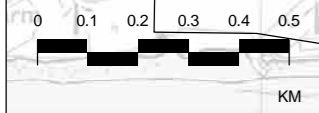
Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 9 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01218				



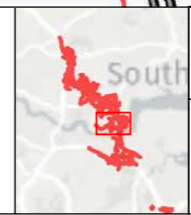
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	02/08/2022	DCO Application	KK	RB	BF

Legend

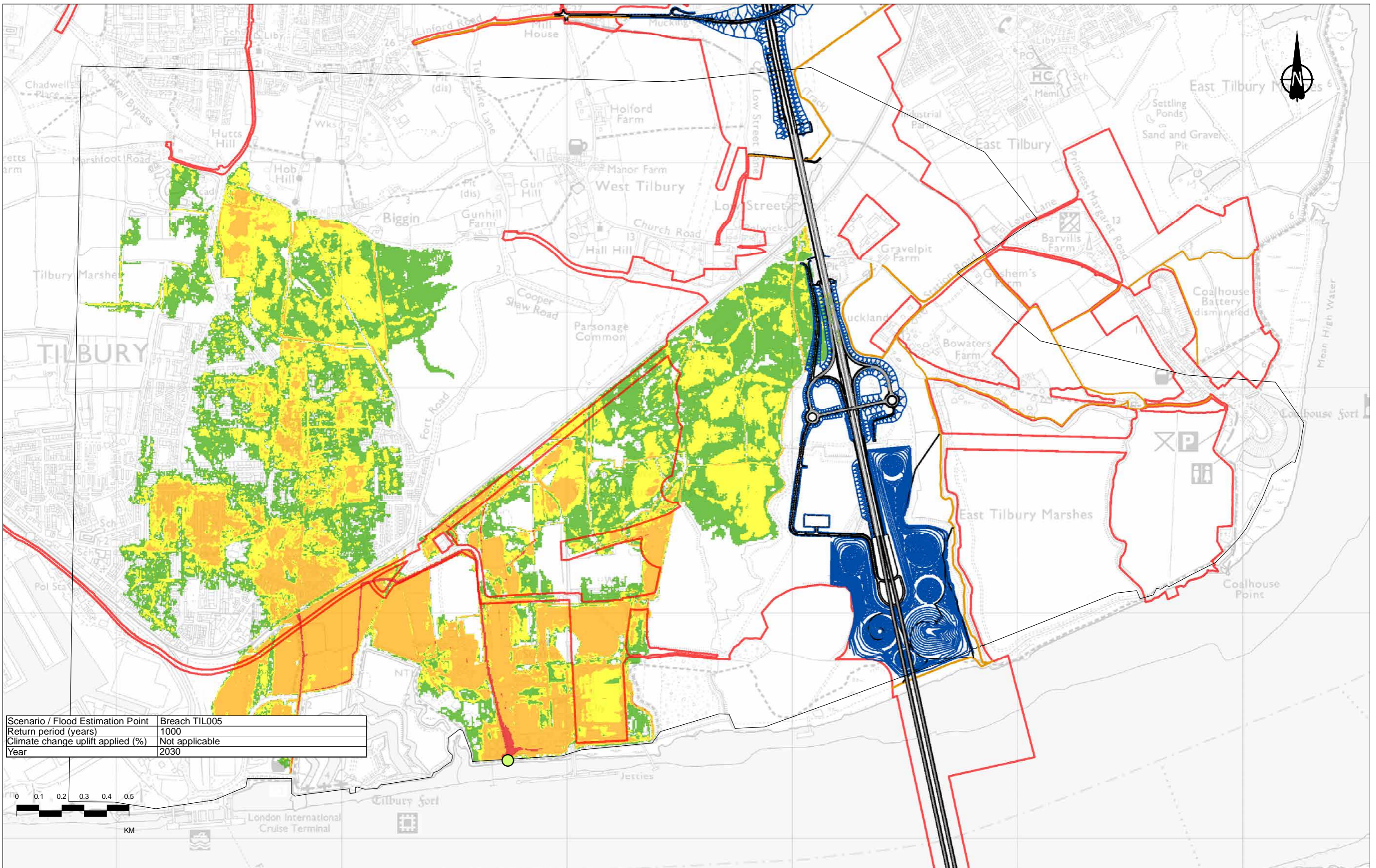
- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
 - Alignment
 - Earthworks
 - NMU Routes
- Maximum flood hazard category**
 - Very low hazard
 - Danger for some
 - Danger for most
 - Danger for all



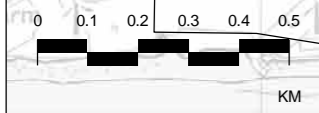
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P01
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 10 of 16		
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01219		



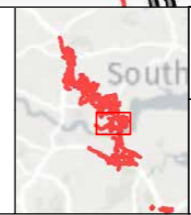
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030



COASTS	OS	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



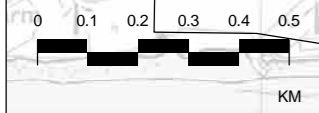
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 11 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZ-DR-LF-01220				



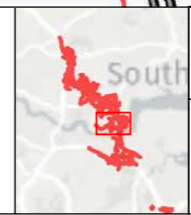
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

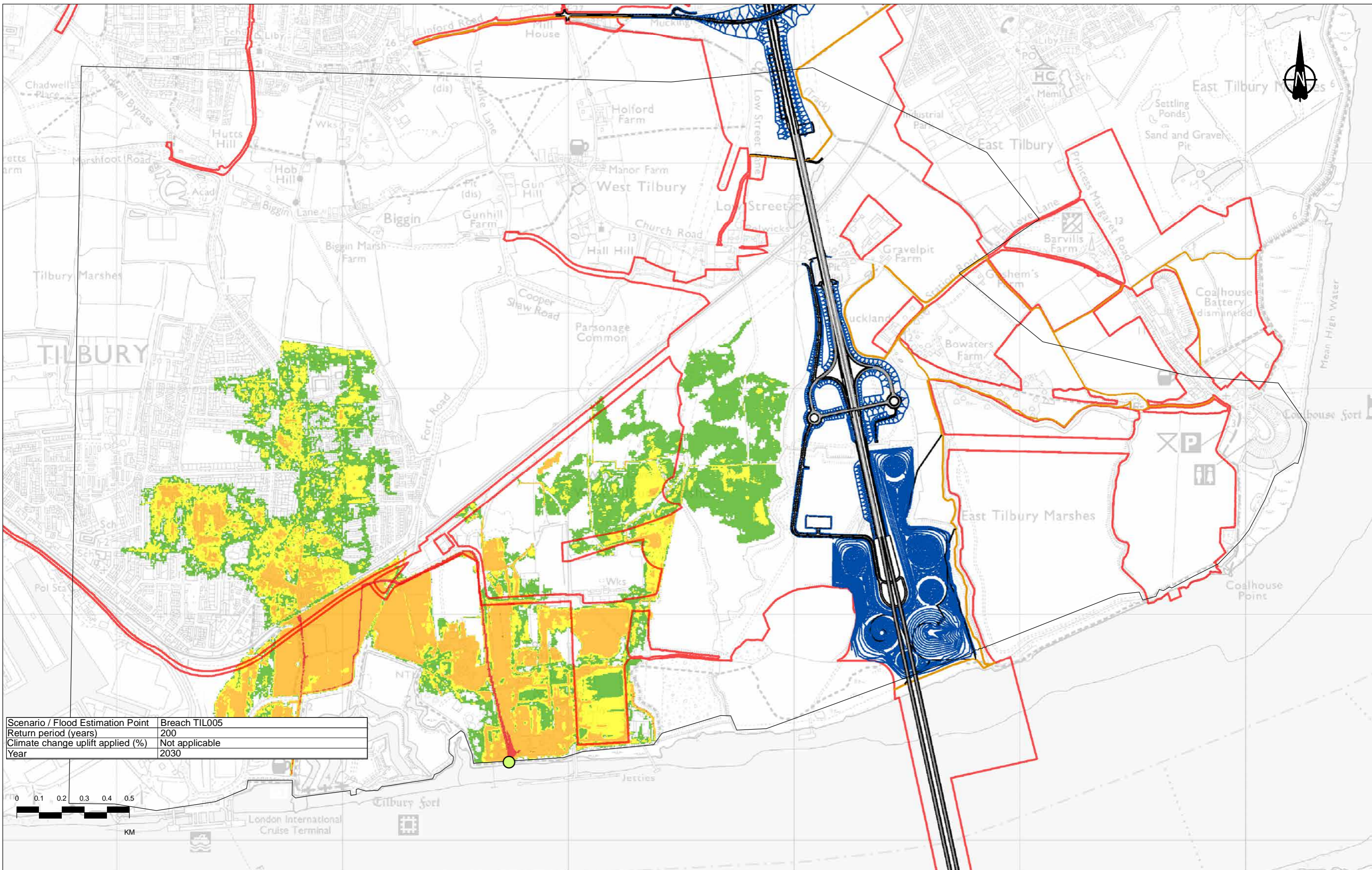
- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



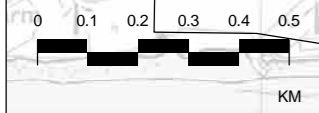
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Pre-development Sheet 12 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01221				



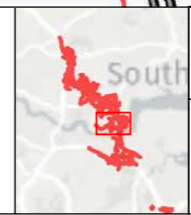
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

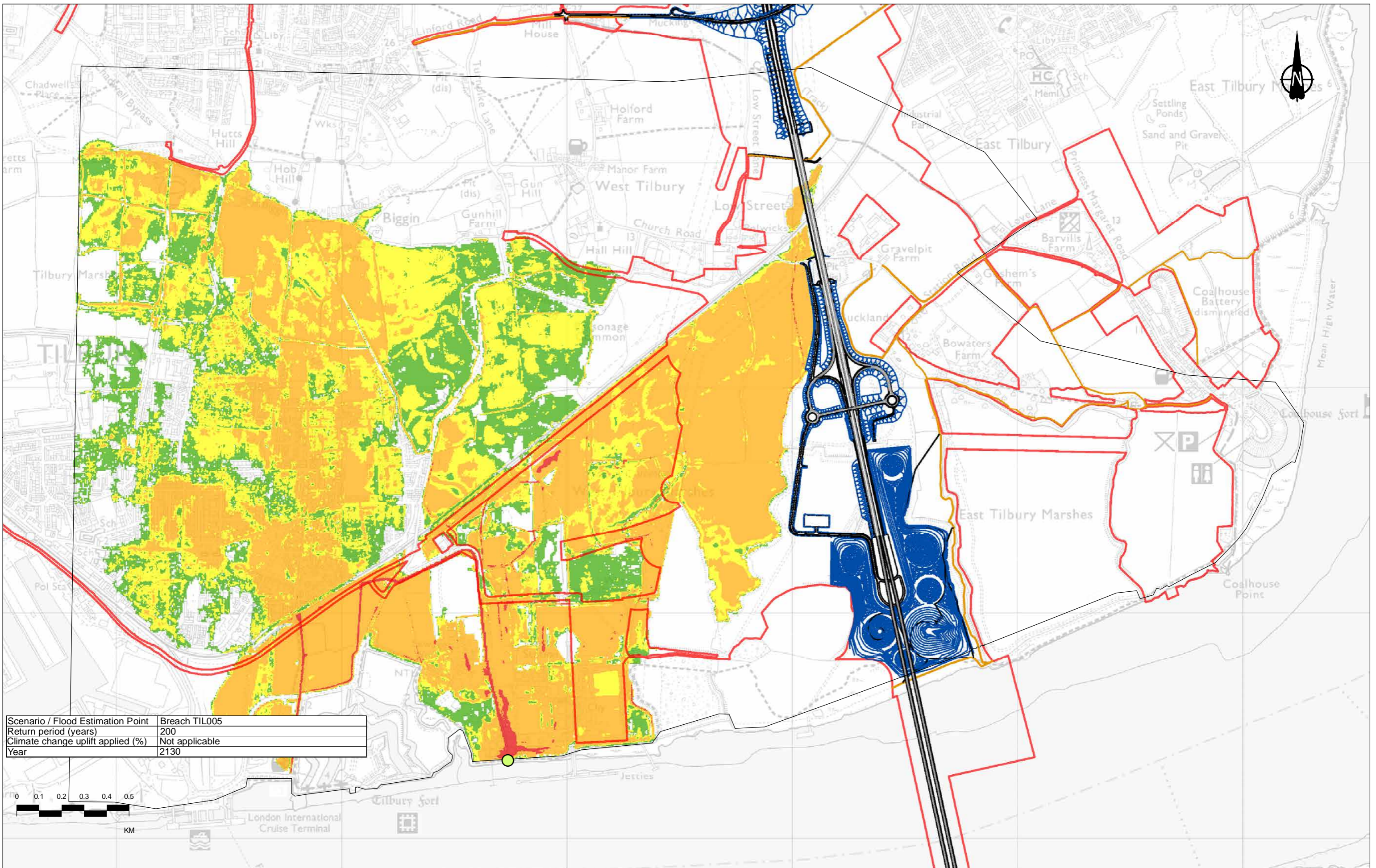
- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
 - Alignment
 - Earthworks
 - NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



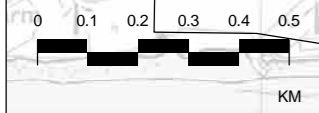
Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 13 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01222				



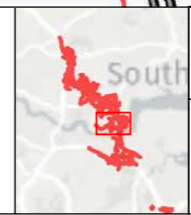
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

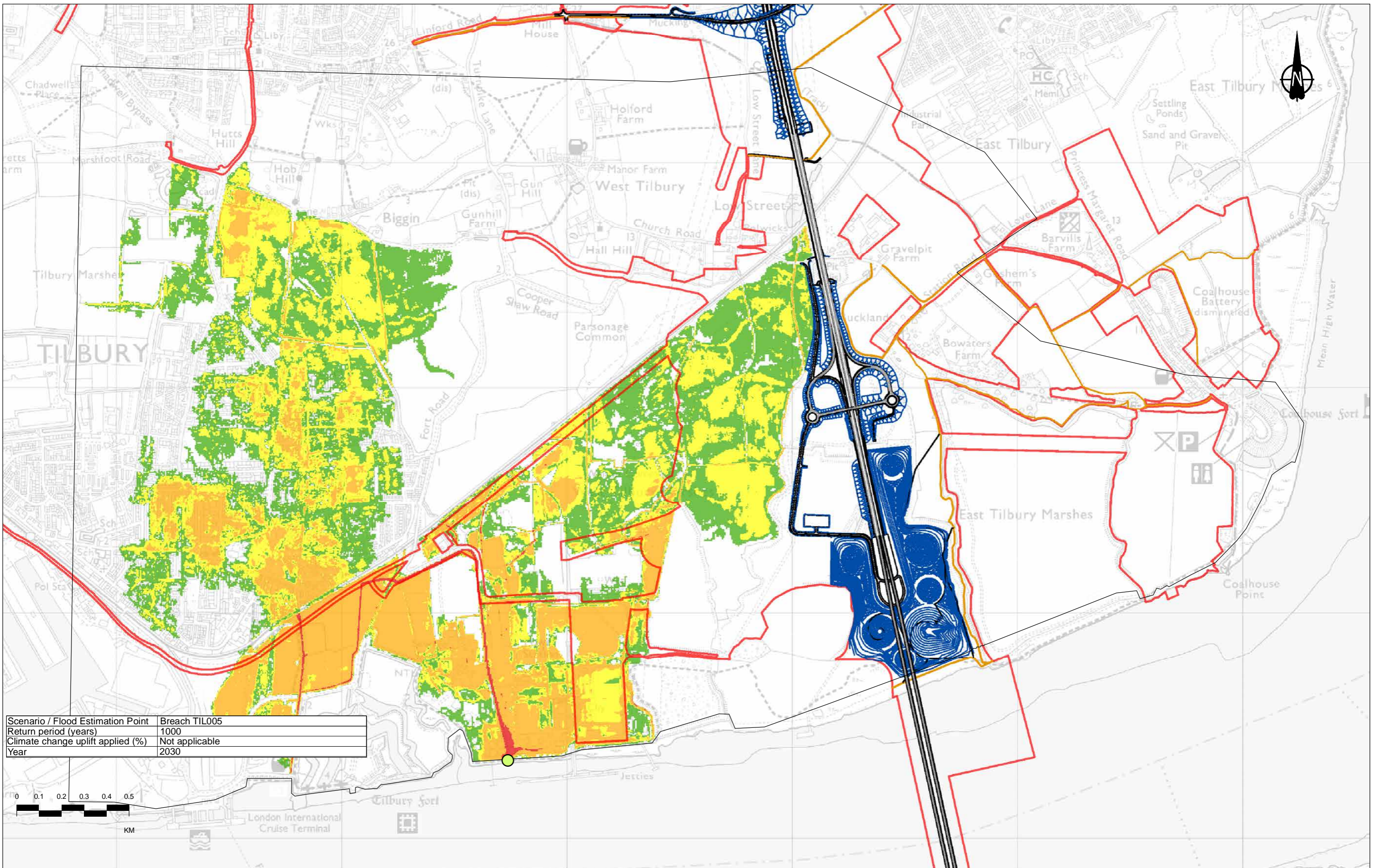
- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
- Alignment
- Earthworks
- NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 14 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZ-DR-LF-01223				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2030

PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

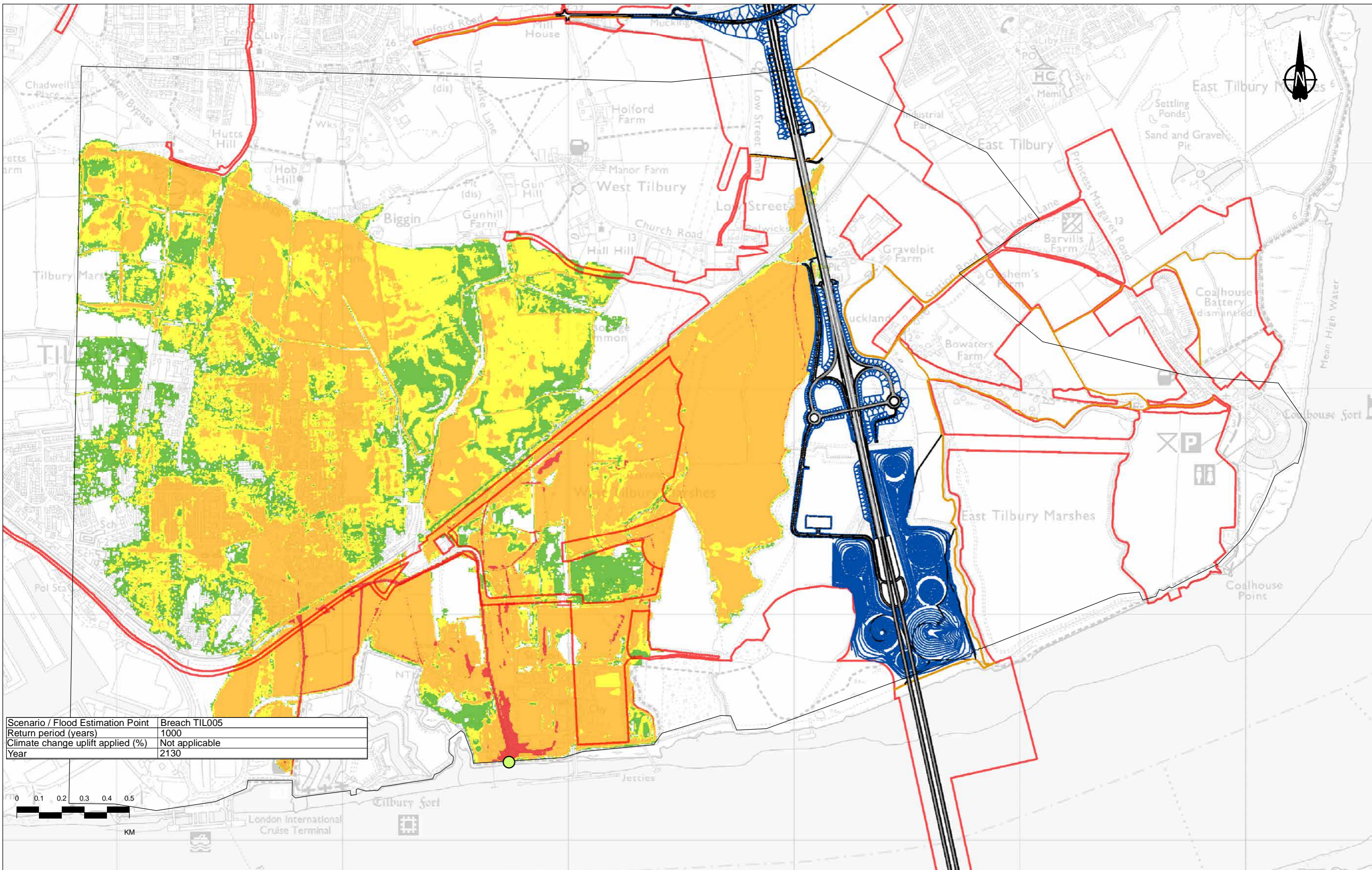
Legend

- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
 - Alignment
 - Earthworks
 - NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all

Client: national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 15 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01224				

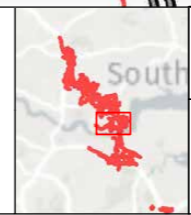


Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	1000
Climate change uplift applied (%)	Not applicable
Year	2130

PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

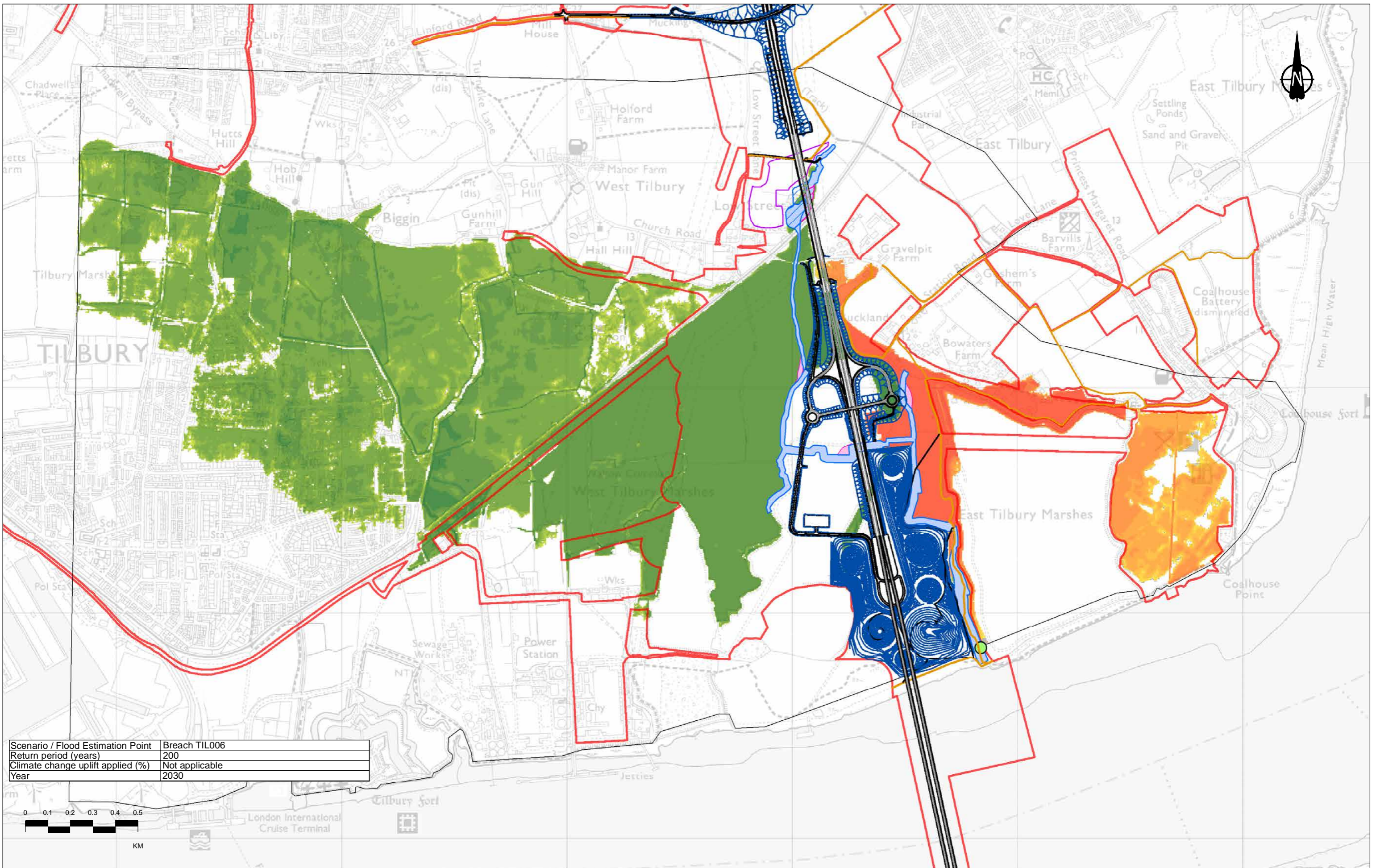
- TIL005
- Order Limits
- 2D Model domain
- Proposed LTC alignment
 - Alignment
 - Earthworks
 - NMU Routes
- Very low hazard
- Danger for some
- Danger for most
- Danger for all



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Maximum flood hazard category Post-development (with mitigation) Sheet 16 of 16				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01225				

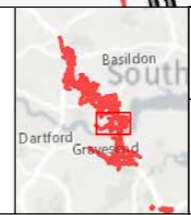


Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	04/11/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

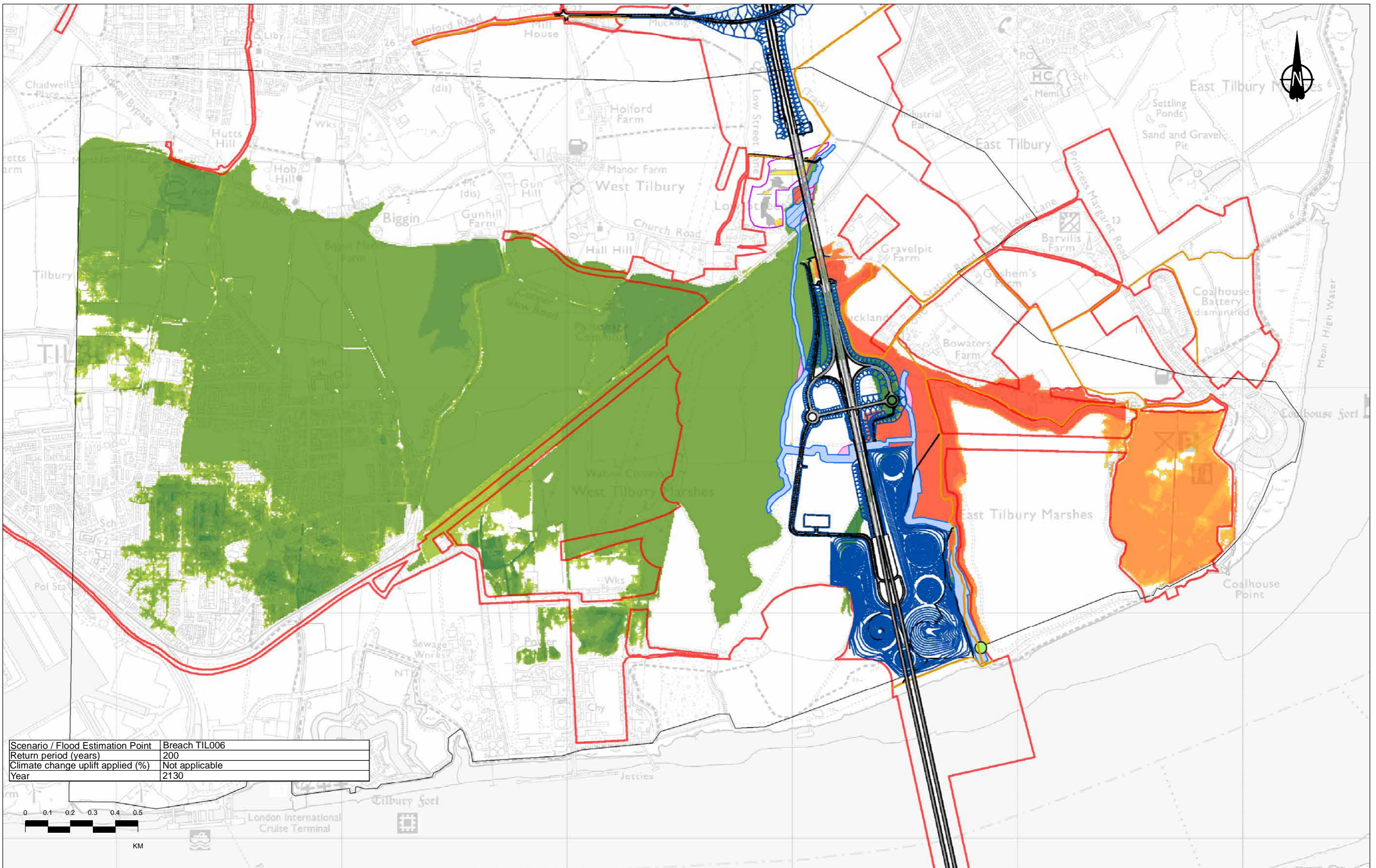
TIL006	Existing reservoir infilled	Proposed LTC alignment	Flood depth difference (m)	< -1.0	-0.1 - -0.05	0.05 - 0.1
2D Model domain	Revised reservoir footprint			-1.0 - -0.5	-0.05 - -0.02	0.1 - 0.2
1D Channel	Order Limits			-0.5 - -0.2	-0.02 - -0.01	0.2 - 0.5
1D Channel diversions	Order Limits			-0.2 - -0.1	-0.01 - 0.01	0.5 - 1
Compensation area		-0.2 - -0.1	0.01 - 0.02	> 1.0		
		Alignment	0.02 - 0.05			
		Earthworks				
		NMU Routes				



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 1 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01226				

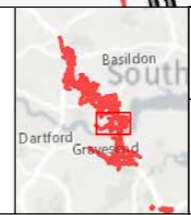


Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	04/11/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd

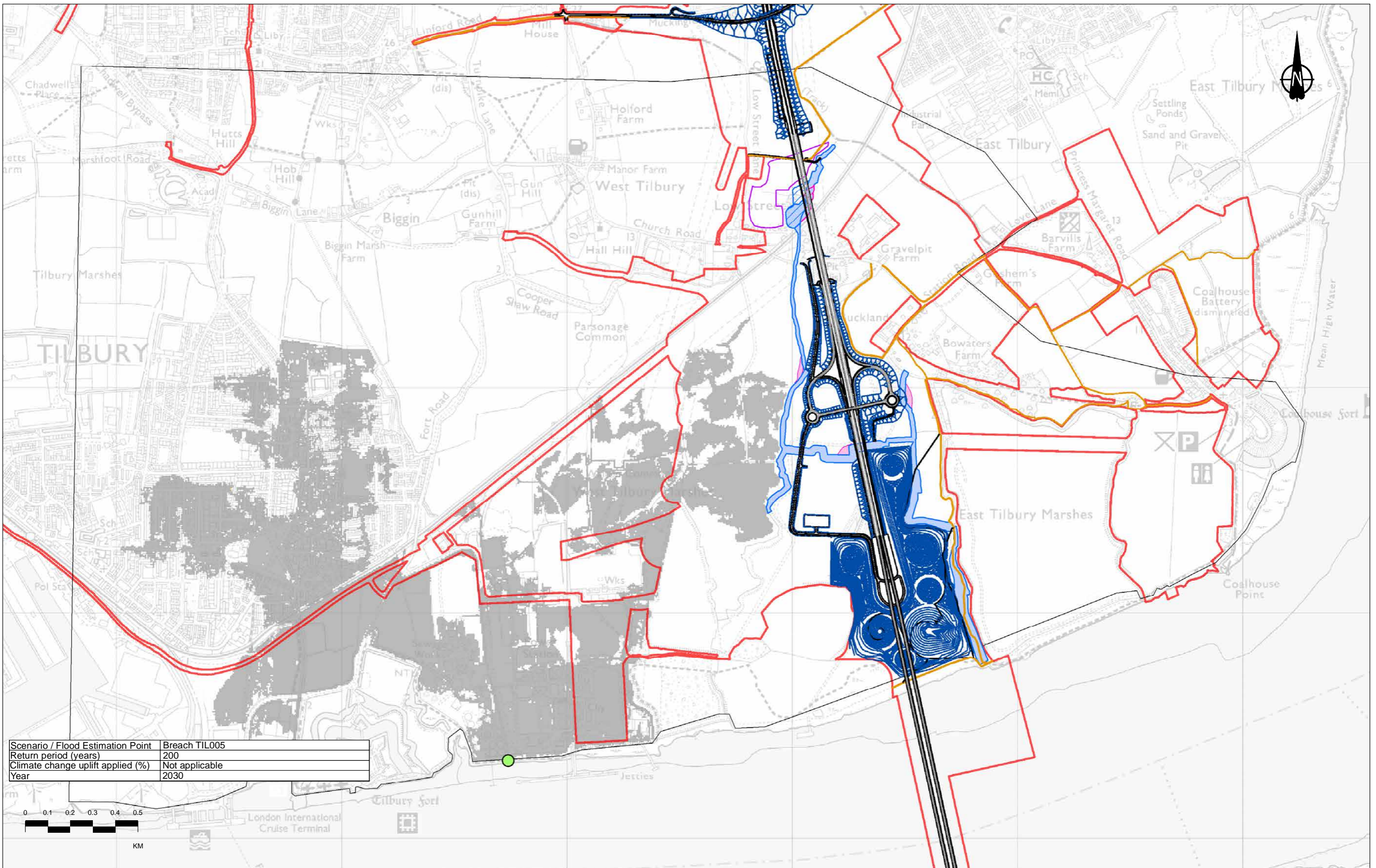
TIL006	Existing reservoir infilled	Proposed LTC alignment	Flood depth difference (m)	< -1.0	0.05 - 0.1
2D Model domain	Revised reservoir footprint			-1.0 - -0.5	0.1 - 0.2
1D Channel	Order Limits			-0.5 - -0.2	0.2 - 0.5
1D Channel diversions	Compensation area			-0.2 - -0.1	> 1.0
Alignment		Earthworks	0.01 - 0.02	0.5 - 1	
NMU Routes			0.02 - 0.05	> 1.0	



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 2 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01227				



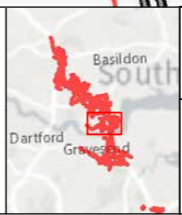
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	04/11/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

TIL005	Existing reservoir infilled	Proposed LTC alignment	Flood depth difference (m)			
2D Model domain	Revised reservoir footprint		< -1.0	-0.1 - -0.05	-0.05 - -0.02	0.05 - 0.1
1D Channel	Order Limits		-1.0 - -0.5	-0.02 - -0.01	-0.01 - 0.01	0.1 - 0.2
1D Channel diversions			-0.5 - -0.2	0.01 - 0.02	0.2 - 0.5	0.5 - 1
Compensation area			-0.2 - -0.1	0.02 - 0.05	> 1.0	

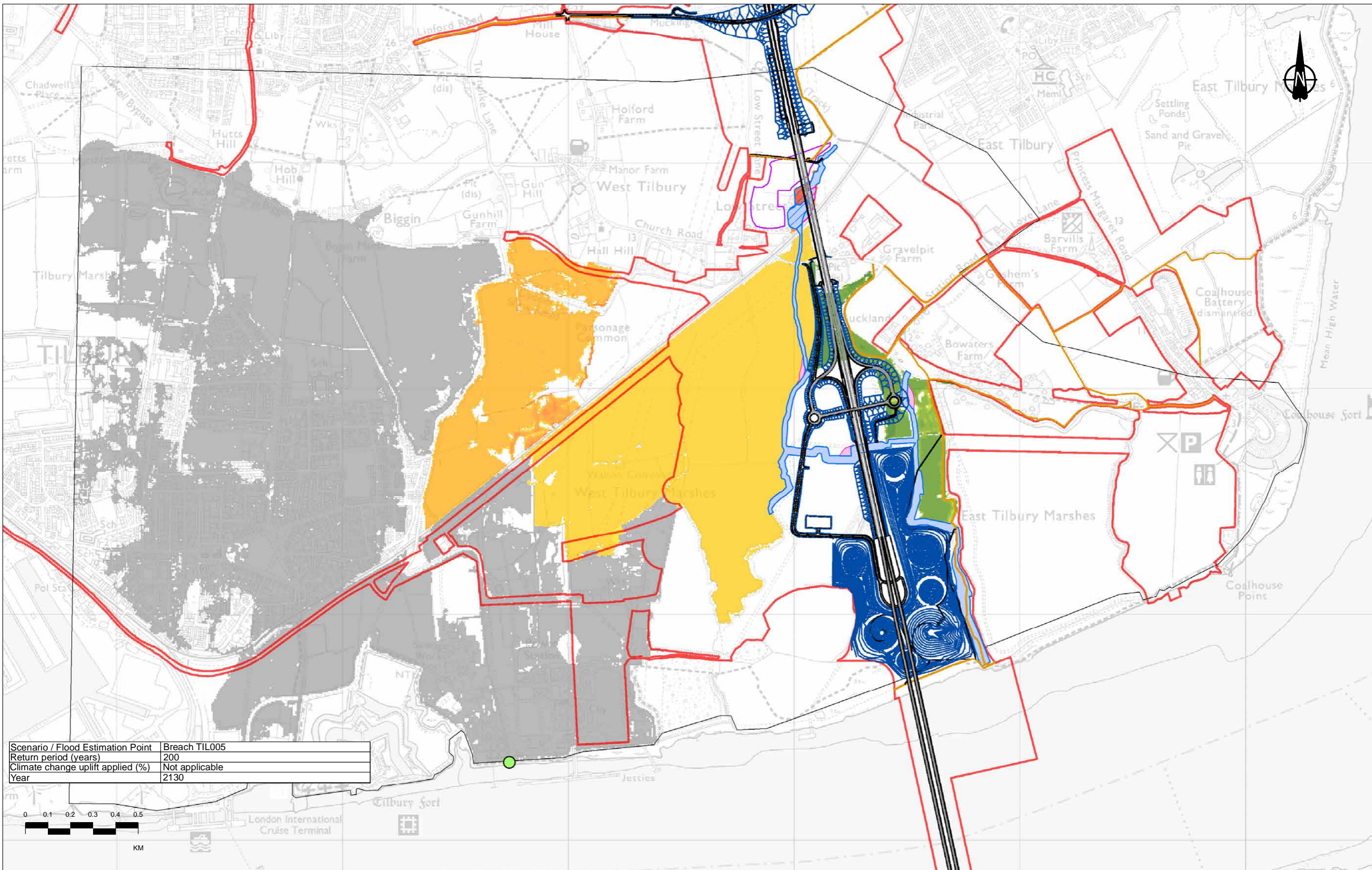
Alignment	Earthworks	NMU Routes
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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 3 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01228				



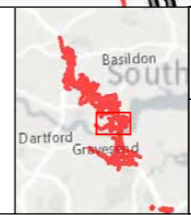
Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	SB	04/11/2022	DCO Application	KK	RB	BF

TIL005	Existing reservoir infilled	Proposed LTC alignment	Flood depth difference (m)	-0.1 - -0.05	0.05 - 0.1
2D Model domain	Revised reservoir footprint			-0.05 - -0.02	0.1 - 0.2
1D Channel	Order Limits			-0.02 - -0.01	0.2 - 0.5
1D Channel diversions	Order Limits			-0.01 - 0.01	0.5 - 1
Compensation area		0.01 - 0.02	> 1.0	-0.2 - -0.1	0.02 - 0.05

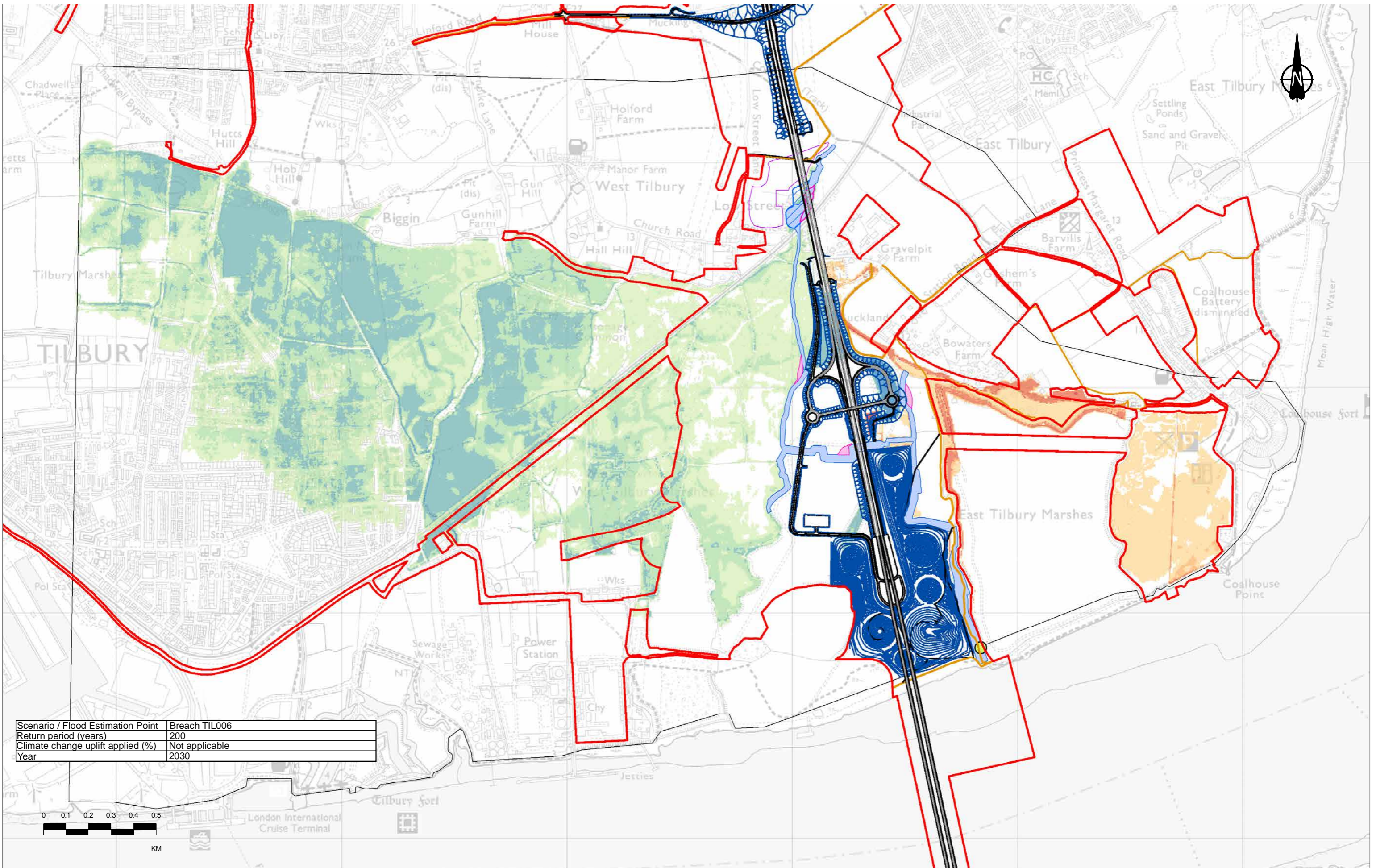
Alignment	Earthworks	NMU Routes
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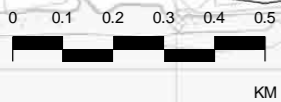
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood depth Post-(with mitigation) minus pre-development Sheet 4 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01229				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- 1D Channel
- 1D Channel diversions
- Compensation area
- Existing reservoir infilled
- Revised reservoir footprint

Proposed LTC alignment

- Alignment
- Earthworks
- NMU Routes

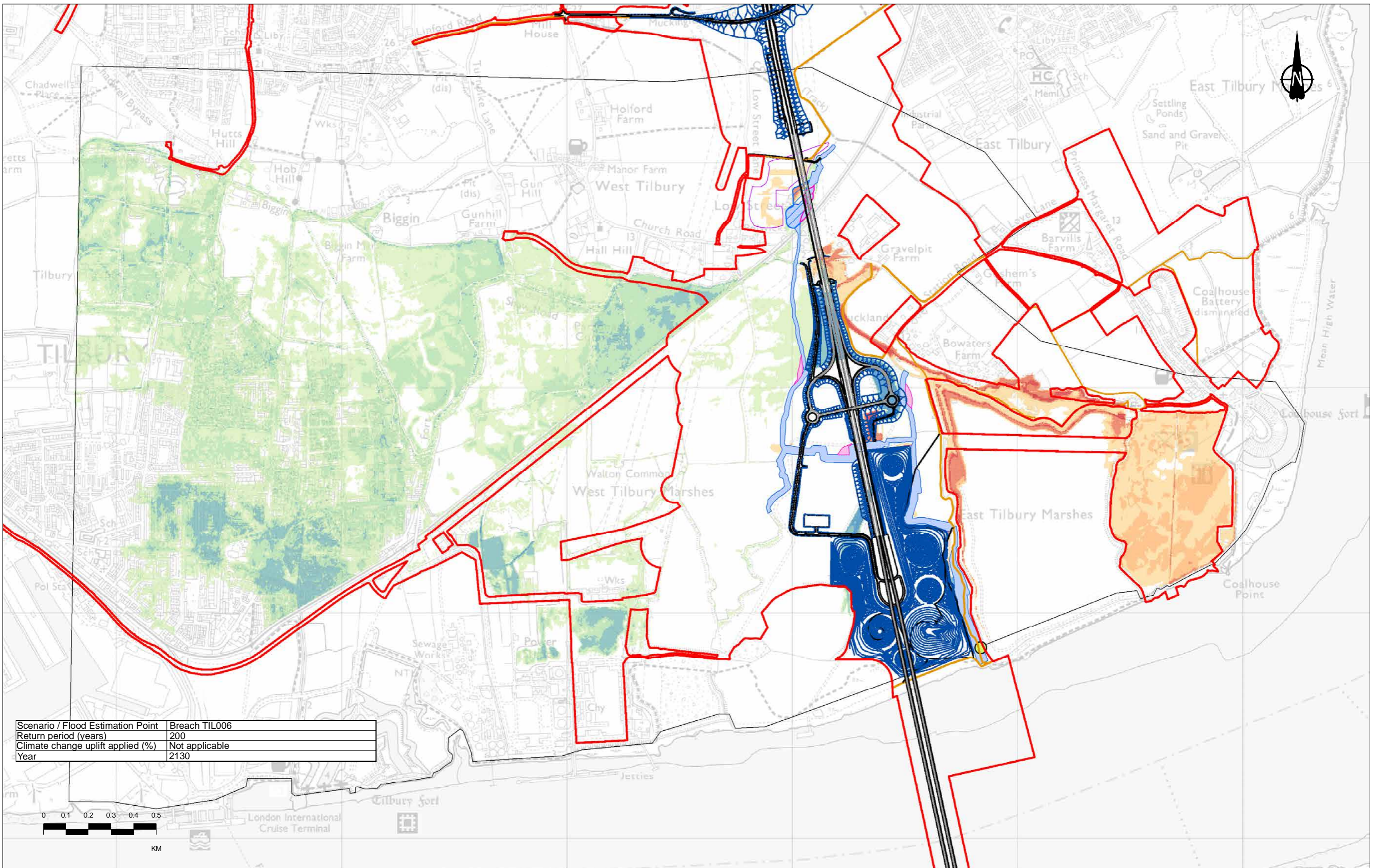
Difference in maximum flood hazard category

- No change on degree of hazard
- Degree of hazard increased by 4 category
- Degree of hazard increased by 3 category
- Degree of hazard increased by 2 category
- Degree of hazard increased by 1 category
- Degree of hazard decreased by 1 category
- Degree of hazard decreased by 2 category
- Degree of hazard decreased by 3 category
- Degree of hazard decreased by 4 category

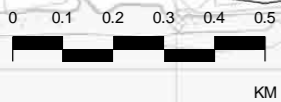
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood hazard category Post-(with mitigation) minus pre-development Sheet 1 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01230				



Scenario / Flood Estimation Point	Breach TIL006
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL006
- Order Limits
- 2D Model domain
- 1D Channel
- 1D Channel diversions
- Compensation area
- Existing reservoir infilled
- Revised reservoir footprint

Proposed LTC alignment

- Alignment
- Earthworks
- NMU Routes

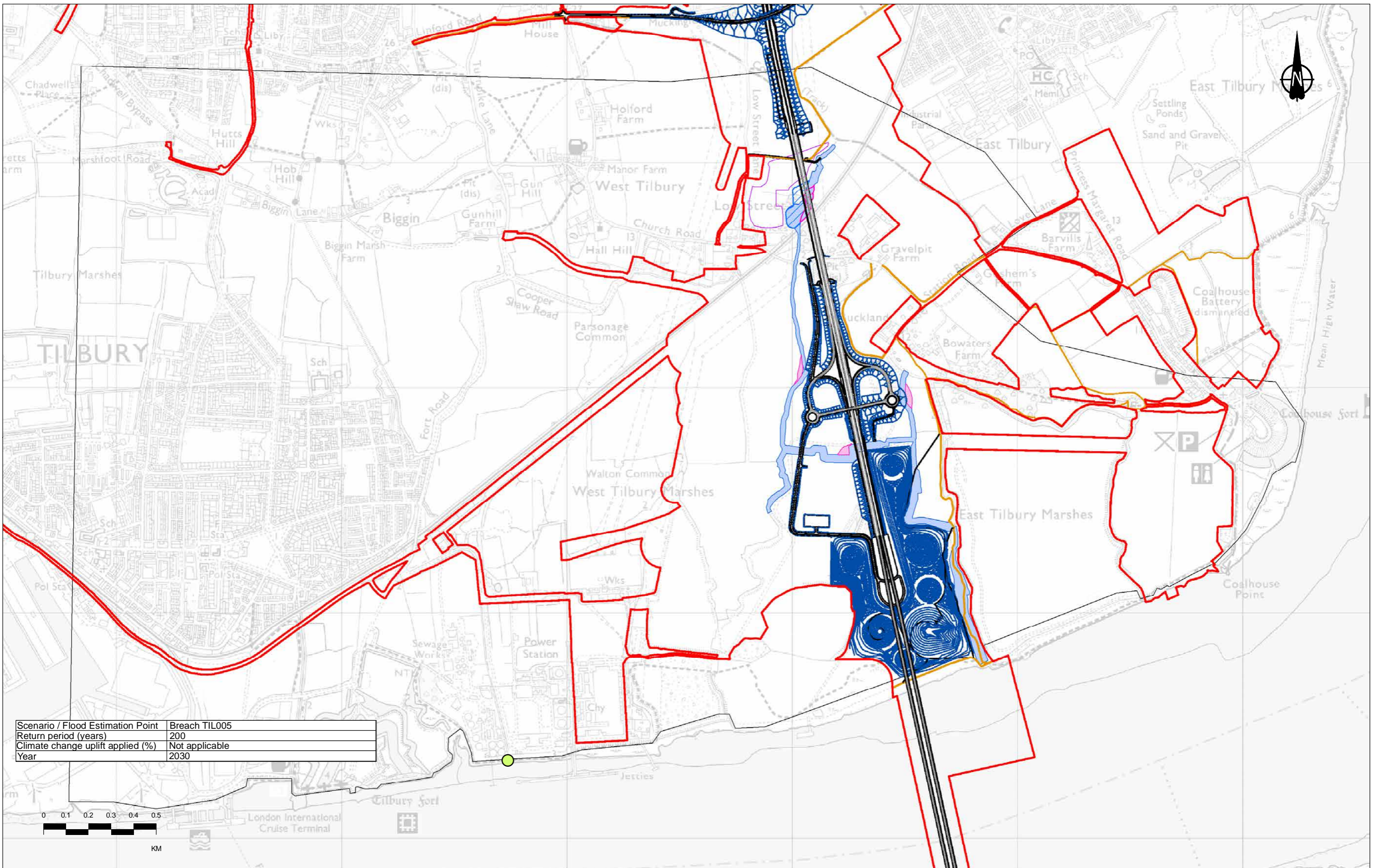
Difference in maximum flood hazard category

- Degree of hazard increased by 4 category
- Degree of hazard increased by 3 category
- Degree of hazard increased by 2 category
- Degree of hazard increased by 1 category
- No change on degree of hazard
- Degree of hazard decreased by 1 category
- Degree of hazard decreased by 2 category
- Degree of hazard decreased by 3 category
- Degree of hazard decreased by 4 category

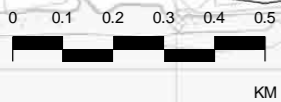
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood hazard category Post-(with mitigation) minus pre-development Sheet 2 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01231				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2030



PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

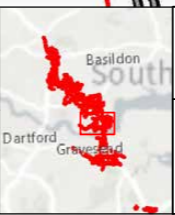
- TIL005
- Order Limits
- 2D Model domain
- 1D Channel
- 1D Channel diversions
- Compensation area
- Existing reservoir infilled
- Revised reservoir footprint

Proposed LTC alignment

- Alignment
- Earthworks
- NMU Routes

Difference in maximum flood hazard category

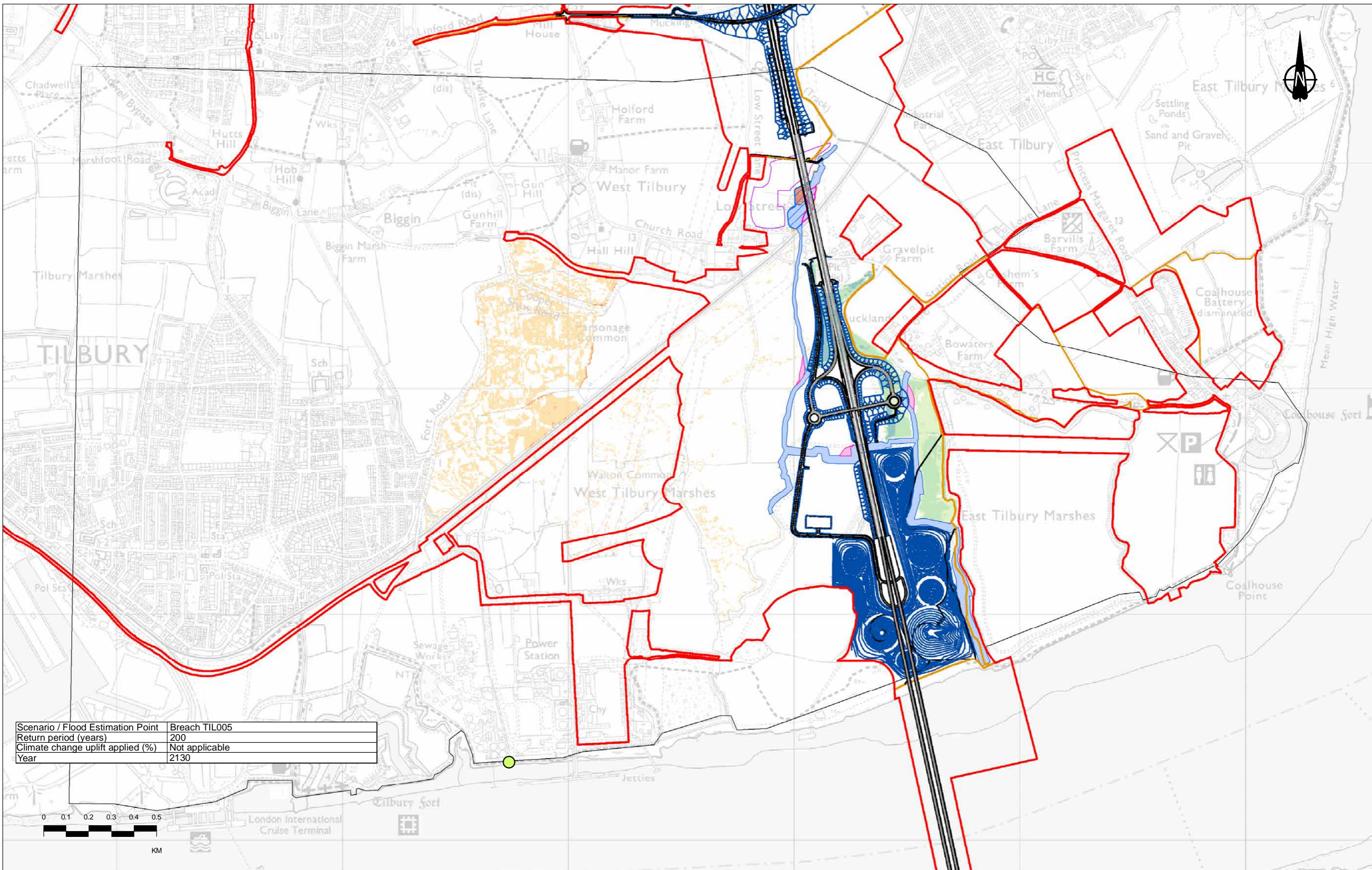
- Degree of hazard increased by 4 category
- Degree of hazard increased by 3 category
- Degree of hazard increased by 2 category
- Degree of hazard increased by 1 category
- Degree of hazard decreased by 1 category
- Degree of hazard decreased by 2 category
- Degree of hazard decreased by 3 category
- Degree of hazard decreased by 4 category
- No change on degree of hazard



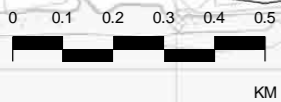
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood hazard category Post-(with mitigation) minus pre-development Sheet 3 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01232				



Scenario / Flood Estimation Point	Breach TIL005
Return period (years)	200
Climate change uplift applied (%)	Not applicable
Year	2130



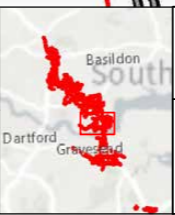
PO1	SB	02/08/2022	DCO Application	KK	RB	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Legend

- TIL005
- Order Limits
- 2D Model domain
- 1D Channel
- 1D Channel diversions
- Compensation area
- Existing reservoir infilled
- Revised reservoir footprint
- Alignment
- Earthworks
- NMU Routes

Proposed LTC alignment Difference in maximum flood hazard category

- Degree of hazard increased by 4 category
- Degree of hazard increased by 3 category
- Degree of hazard increased by 2 category
- Degree of hazard increased by 1 category
- Degree of hazard decreased by 1 category
- Degree of hazard decreased by 2 category
- Degree of hazard decreased by 3 category
- Degree of hazard decreased by 4 category
- No change on degree of hazard



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A3	Revision	P01
Application Document Number	TR010032/APP/6.3	Scale	1:115,000		
Drawing title	FRA - Tilbury Modelling Results Difference in maximum flood hazard category Post-(with mitigation) minus pre-development Sheet 4 of 4				
Drawing number	HE540039-CJV-EFR-SZP_GNZZZZZZZ-DR-LF-01233				

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