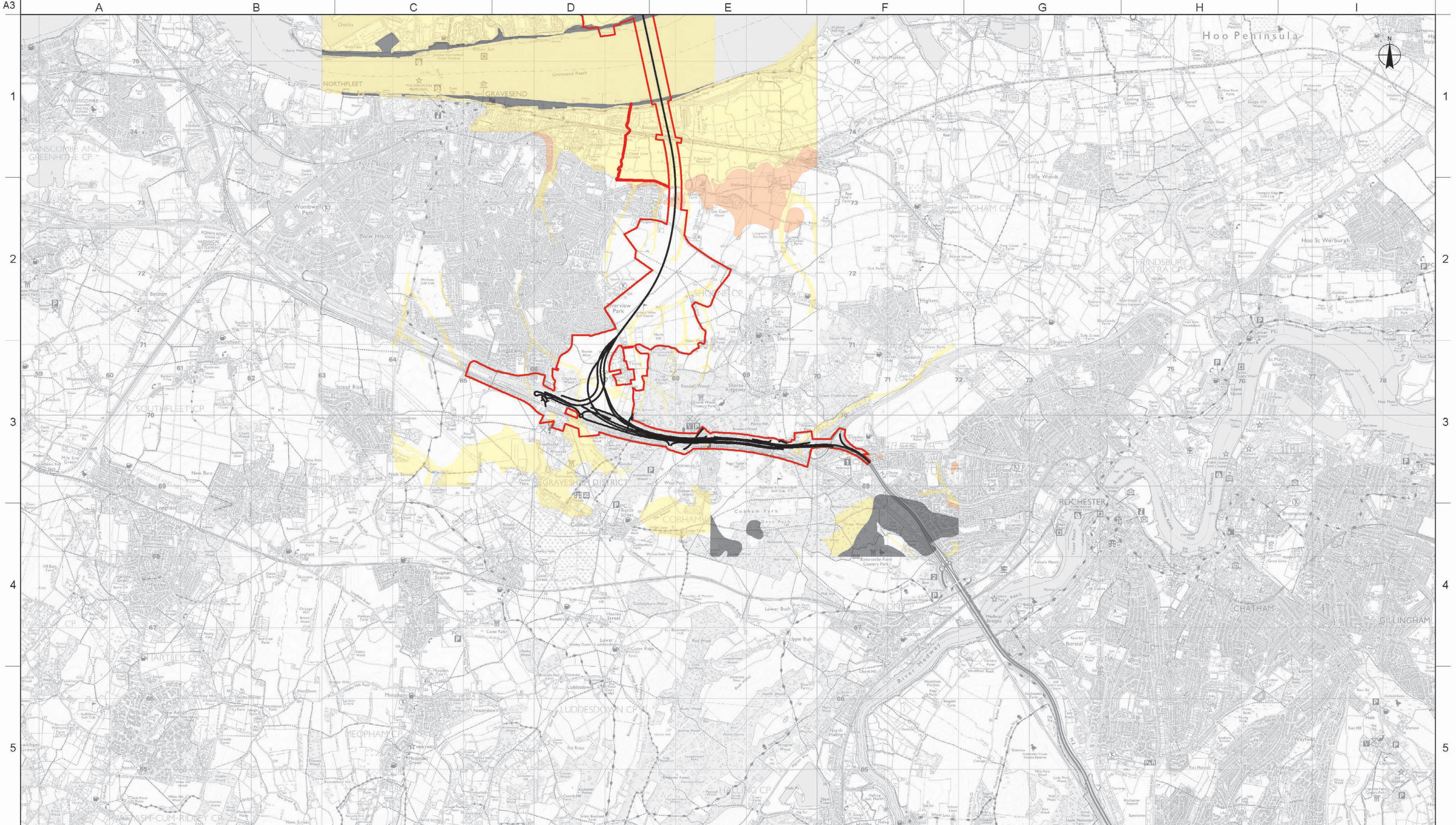


Lower Thames Crossing
**Preliminary Environmental
Information Report**
Figures

List of figures

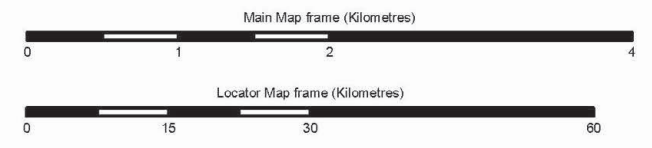
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15.1	Road Drainage and Water Environment	Superficial Aquifer Designations
15.2	Road Drainage and Water Environment	Bedrock Aquifer Designations
15.3	Road Drainage and Water Environment	Surface Water Features, Flood Risk Defences and Road Drainage
15.4	Road Drainage and Water Environment	Aquifer Vulnerability
15.5	Road Drainage and Water Environment	Groundwater Features
15.6	Road Drainage and Water Environment	Water Framework Directive - Surface Water
15.7	Road Drainage and Water Environment	Water Framework Directive - Groundwater
15.8	Road Drainage and Water Environment	Water Feature Survey Phase 1 (September 2017)



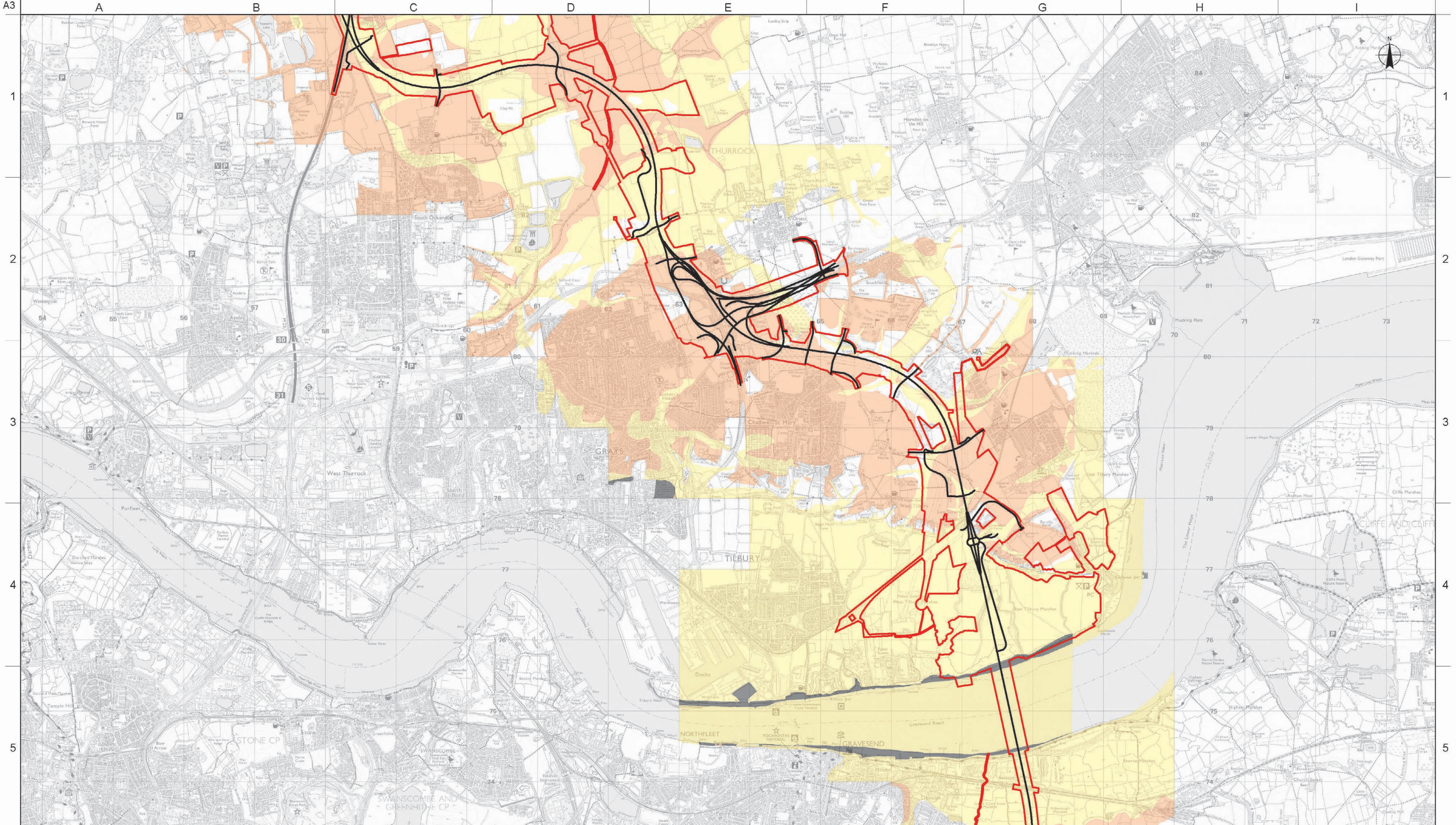
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- LTC Route Alignment
 - Development Boundary
 - Secondary A Aquifer
 - Secondary Undifferentiated Aquifer
 - Unproductive Strata

Note: Current data extent will be superseded prior to ES submission awaiting information from Landmark.

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P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



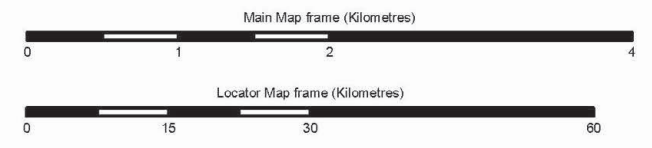
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Drawing Title Figure 15.1 - Superficial Aquifer Designations Sheet 1 of 3		Suitability For Information	Status S2
		Revision P01	Drawing Number HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40017



- Legend**
- LTC Route Alignment
 - Development Boundary
 - Secondary A Aquifer
 - Secondary Undifferentiated Aquifer
 - Unproductive Strata

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Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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Project Title
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STATUTORY CONSULTATION**

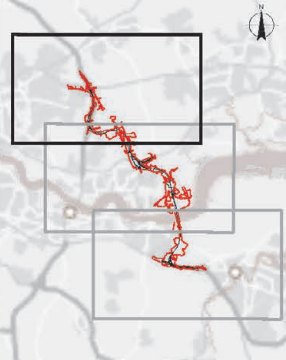
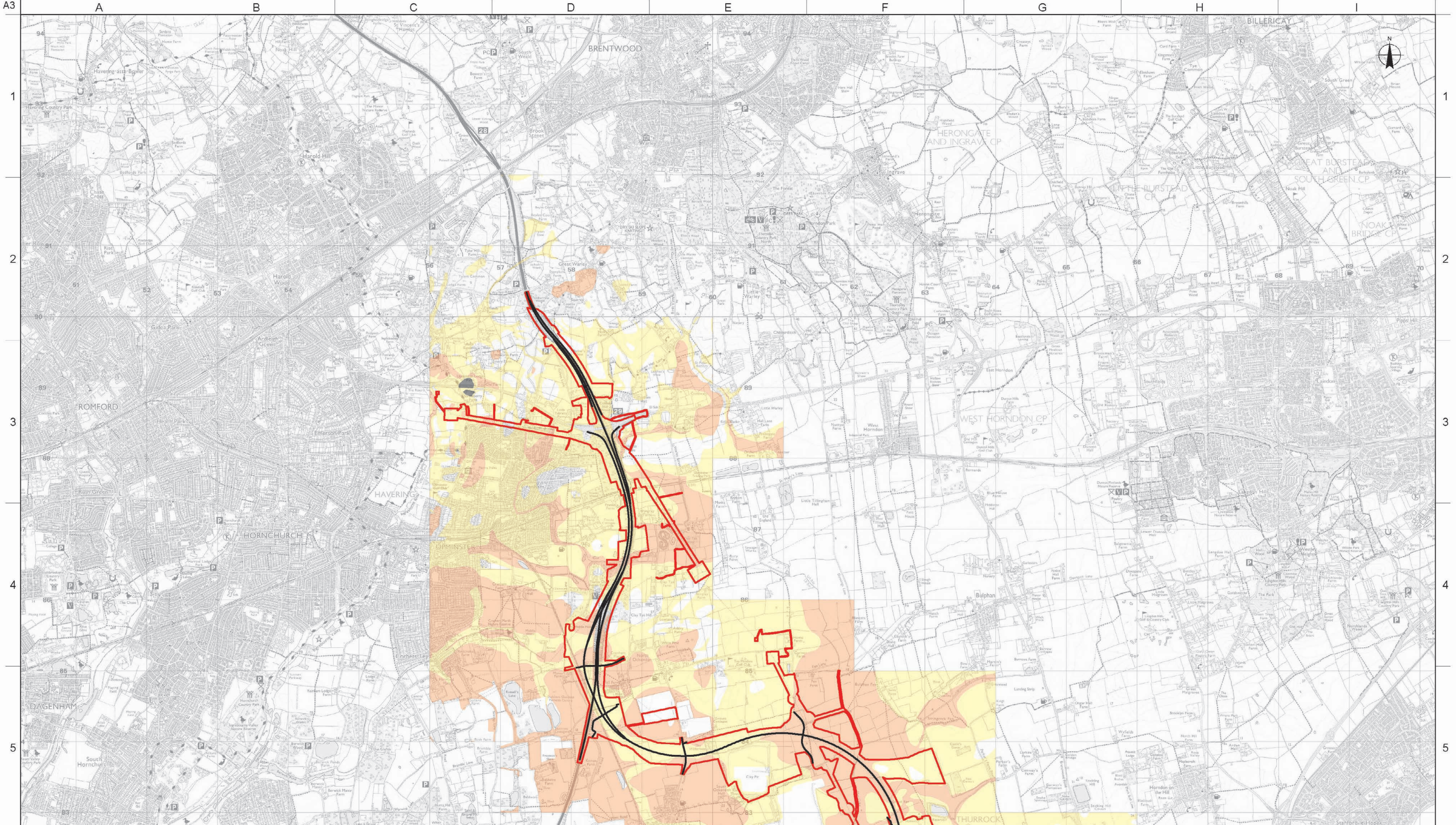
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Designations
Sheet 2 of 3**

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For Information	S2	P01

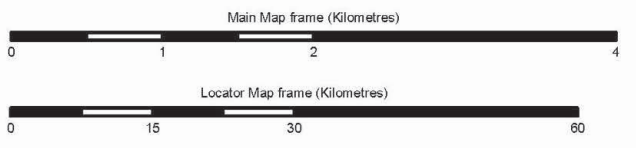
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- Legend**
- LTC Route Alignment
 - Development Boundary
 - Secondary A Aquifer
 - Secondary Undifferentiated Aquifer
 - Unproductive Strata

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Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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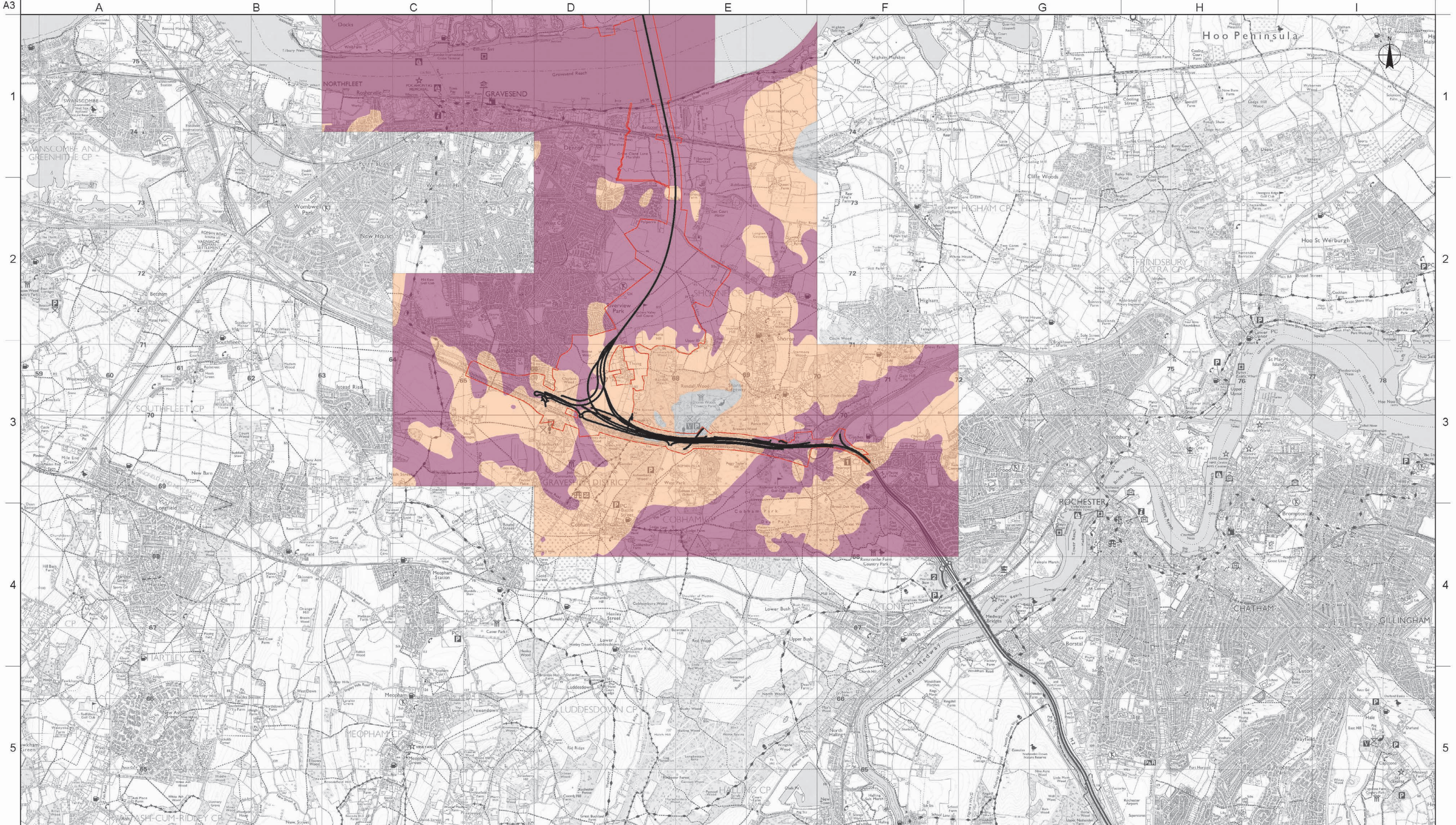
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For Information	S2	P01

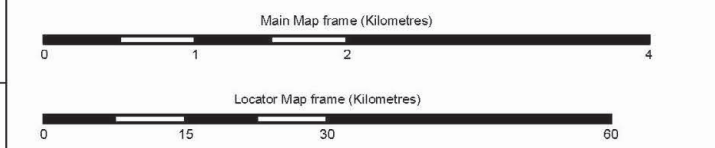
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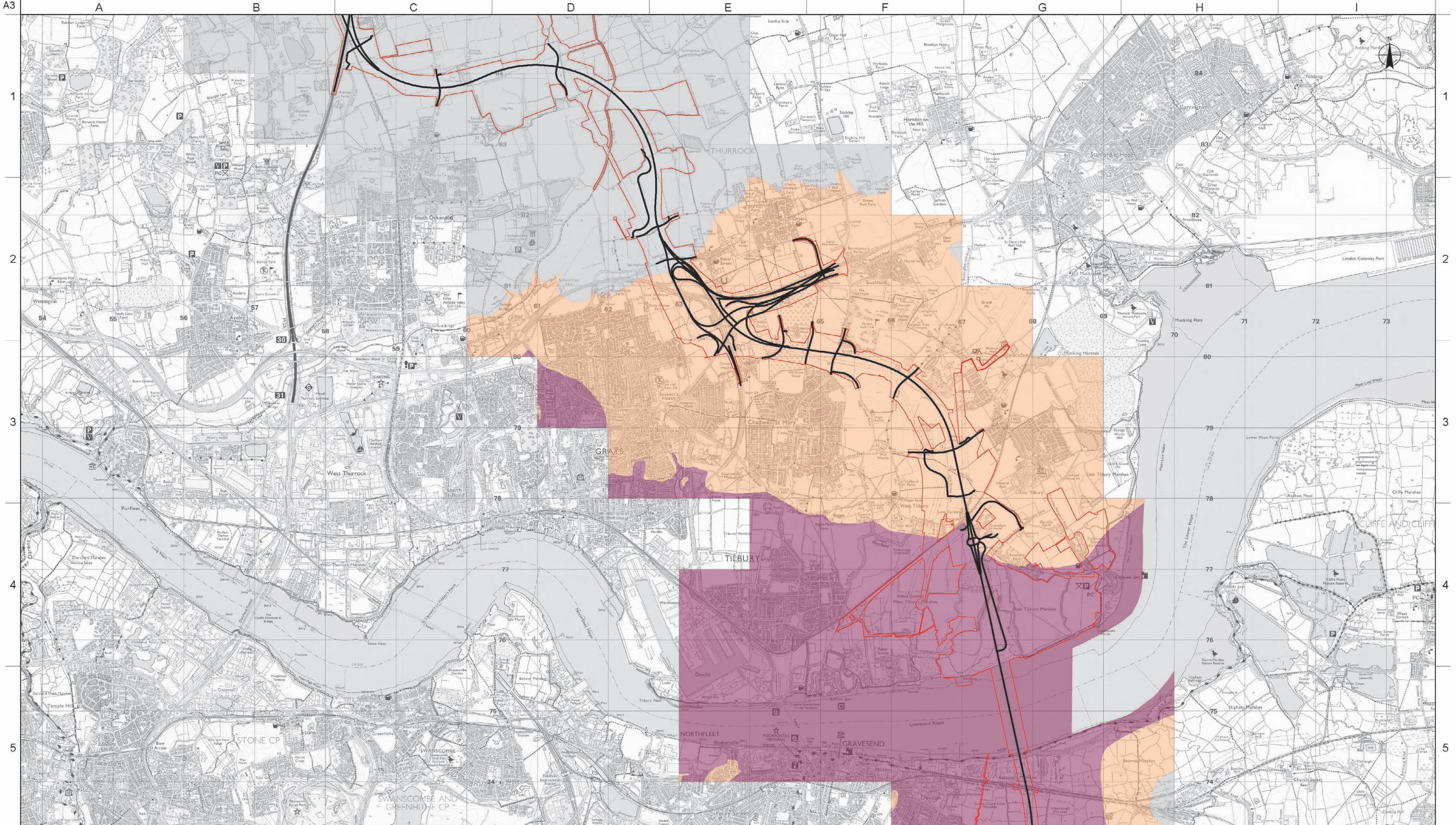
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- LTC Route Alignment
 - Development Boundary
 - Principal Aquifer
 - Secondary A Aquifer
 - Unproductive Strata

Note: Current data extent will be superseded prior to ES submission awaiting information from Landmark.

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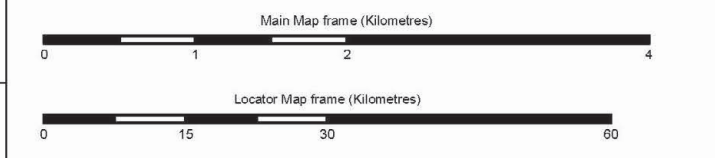
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Drawing Title Figure 15.2 - Bedrock Aquifer Designations Sheet 1 of 3		Suitability For Information	Status S2
		Revision P01	Drawing Number HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40018



- Legend**
- LTC Route Alignment
 - Development Boundary
 - Principal Aquifer
 - Secondary A Aquifer
 - Unproductive Strata

Note: Current data extent will be superseded prior to ES submission awaiting information from Landmark.

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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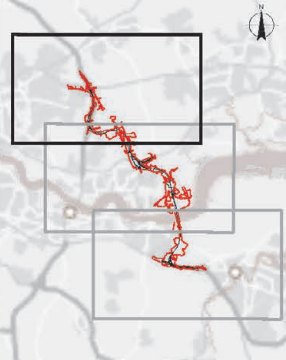
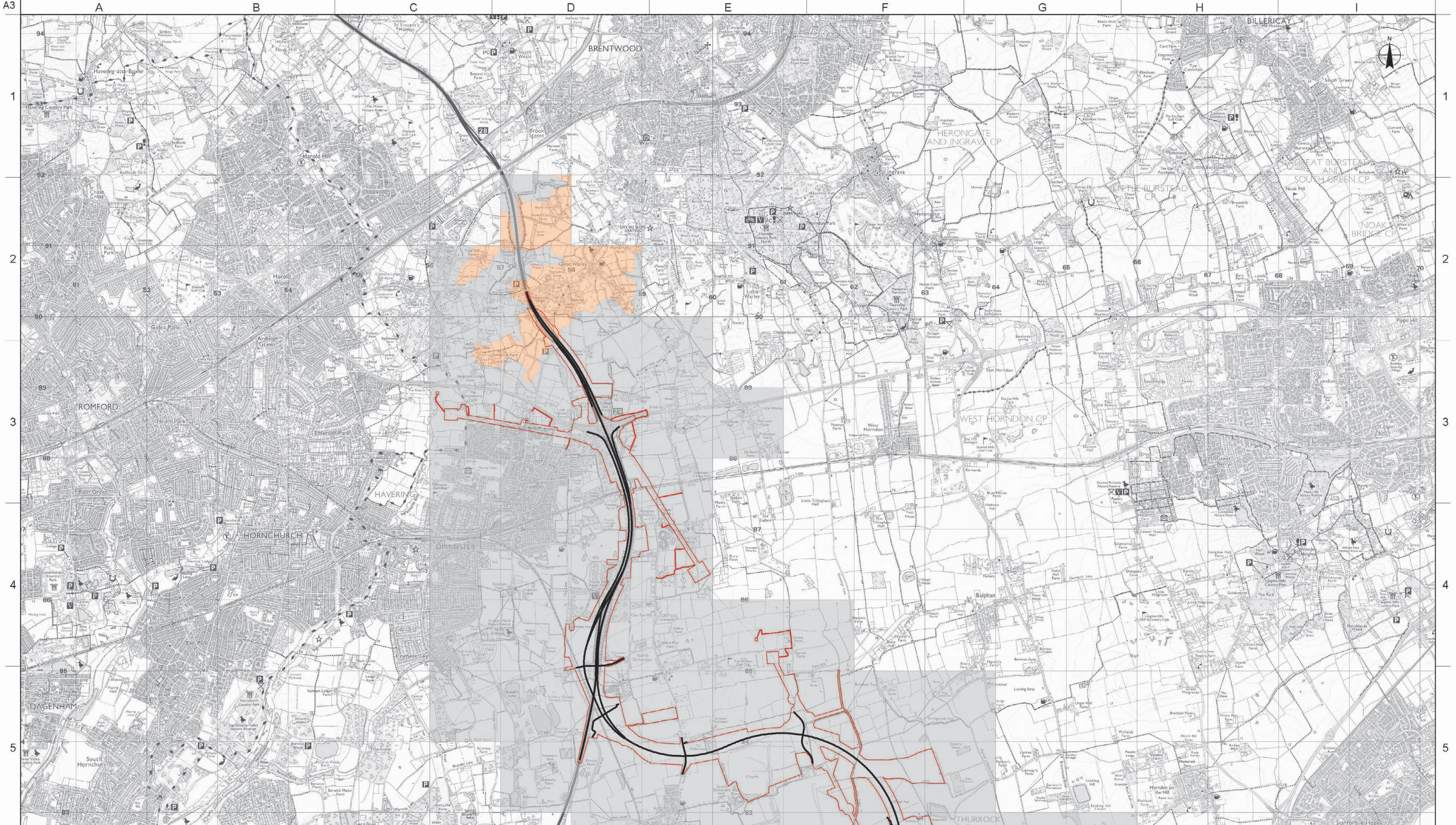
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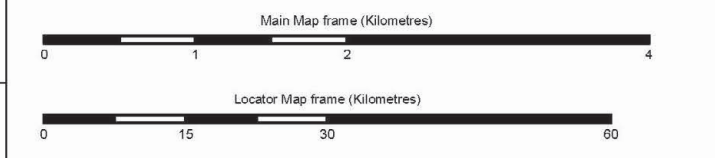
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- Legend**
- LTC Route Alignment
 - Development Boundary
 - Principal Aquifer
 - Secondary A Aquifer
 - Unproductive Strata

Note: Current data extent will be superseded prior to ES submission awaiting information from Landmark.

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Client

Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

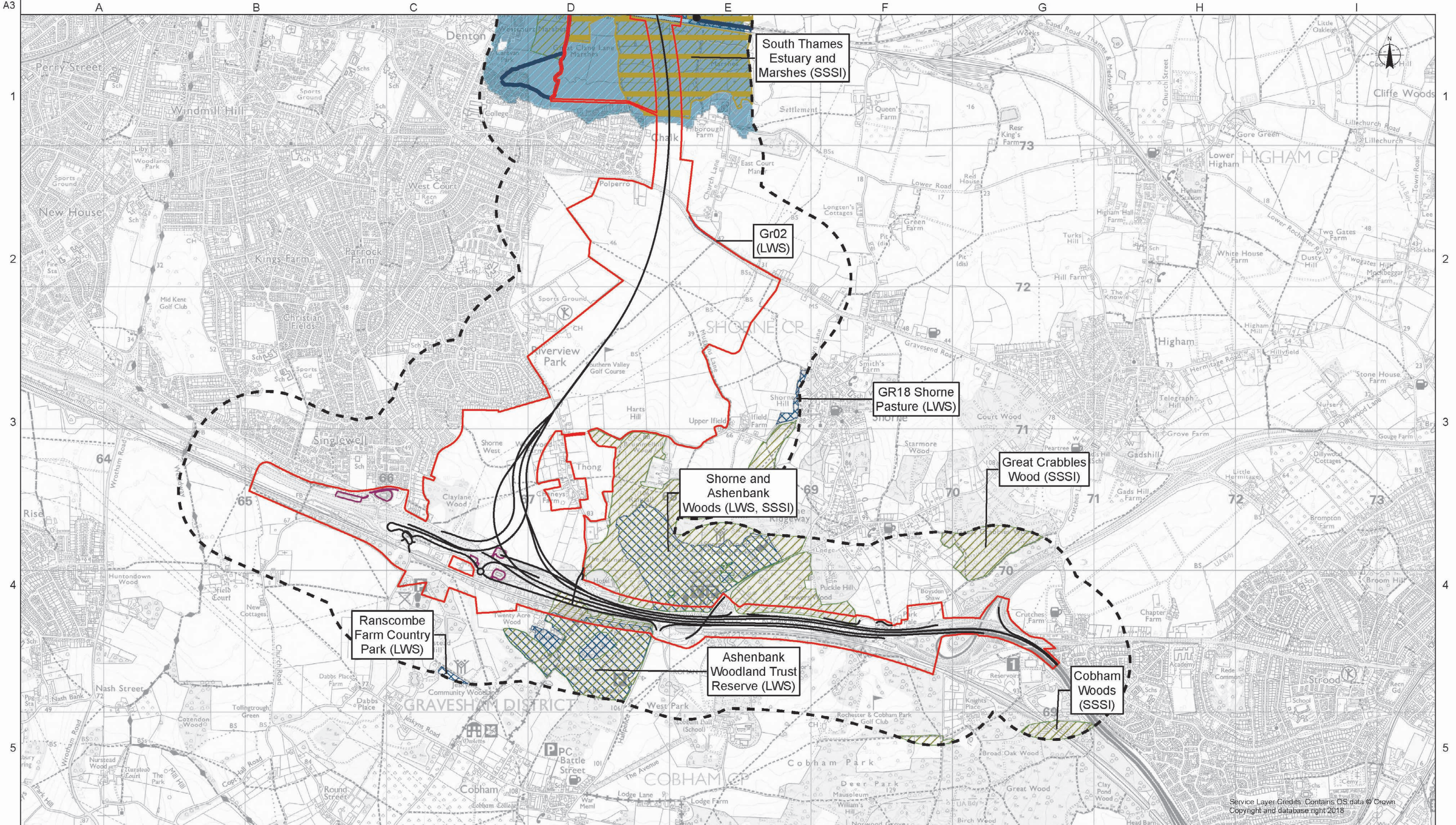
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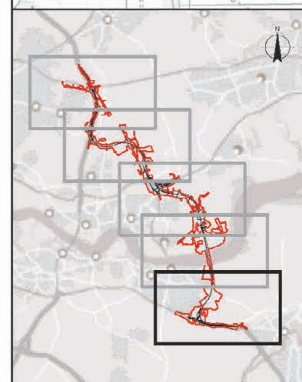
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For Information	S2	P01

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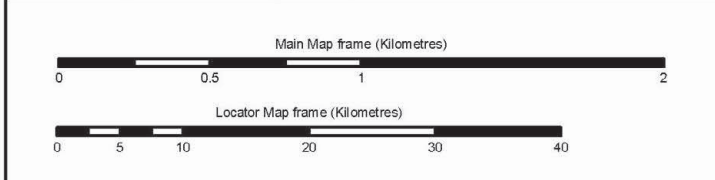
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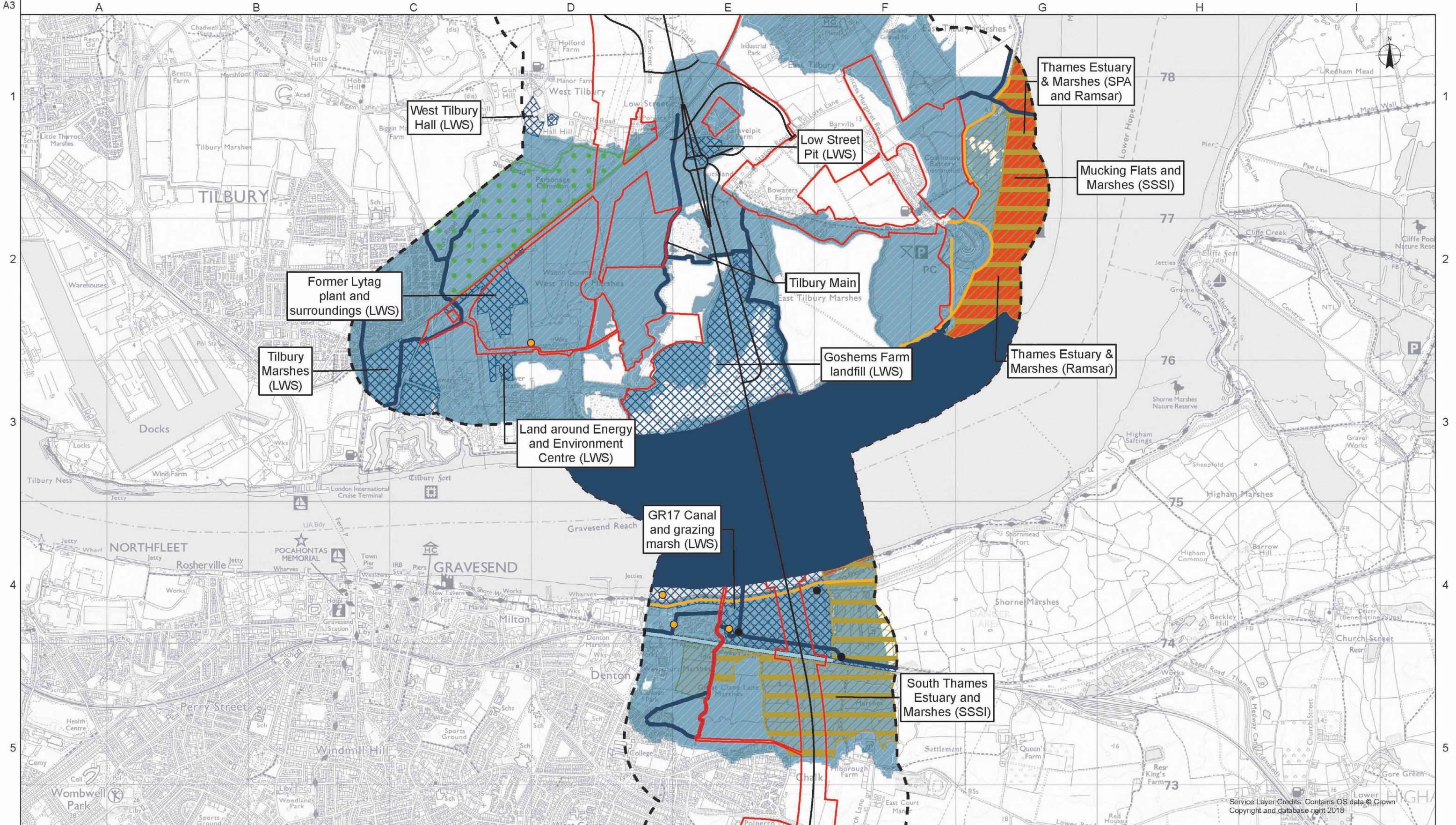
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	Development Boundary		Site of Special Scientific Interest (SSSI)
	500m Study Area		Flood Zone 2
	Licensed Surface Water Abstraction		Flood Zone 3
	Location of Surface Water Consented Discharge		Tillbury Flood Storage Area
	Existing Drainage Feature		Local Wildlife Site (LWS)
	Spatial Flood Defence		
	Statutory Main River		
	Thames and Medway Canal		
	Tillbury Flood Storage Area		
	Local Wildlife Site (LWS)		

Note: All Flood Zone 3 areas that the Development Boundary crosses benefit from flood defences, with the exception of the area where the M25 crosses the Mardyke.

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	27/07/2018	LD	17/08/2018	GSS	17/08/2018	For Information



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Drawing Title	Suitability	Status	Revision
Figure 15.3 - Surface Water Features, Flood Risk Defences and Road Drainage Sheet 1 of 5	For Information	S2	P01
	Drawing Number	HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40020	

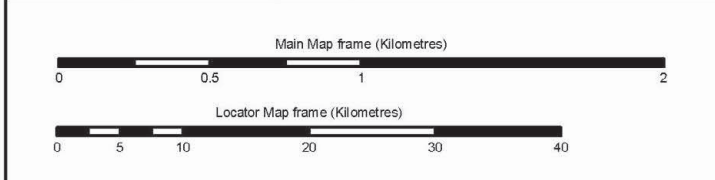


Legend

- LTC Route Alignment
- Development Boundary
- 500m Study Area
- Licensed Surface Water Abstraction
- Location of Surface Water Consented Discharge
- Existing Drainage Feature
- Spatial Flood Defence
- Statutory Main River
- Thames and Medway Canal
- Tilbury Flood Storage Area
- Local Wildlife Site (LWS)
- Ramsar
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Flood Zone 2
- Flood Zone 3

Note: All Flood Zone 3 areas that the Development Boundary crosses benefit from flood defences, with the exception of the area where the M25 crosses the Mardyke.

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

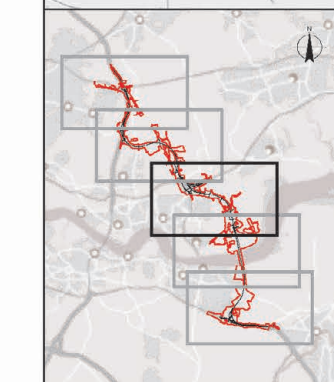
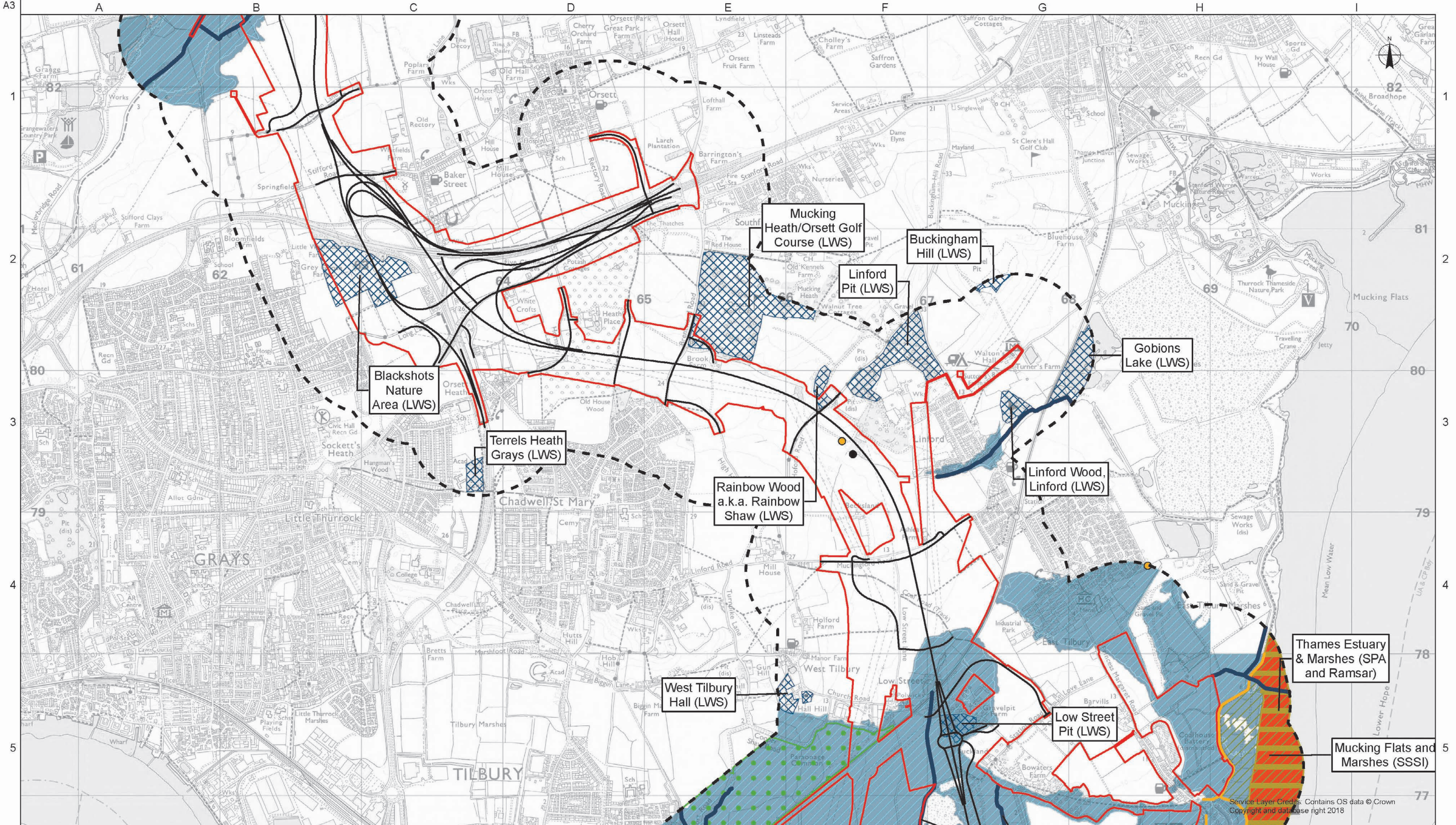
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Suitability	Status	Revision
For Information	S2	P01

Drawing Number: HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40020

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Legend

- LTC Route Alignment
- ▭ Development Boundary
- - - 500m Study Area
- Licenced Surface Water Abstraction
- Location of Surface Water Consented Discharge
- Existing Drainage Feature
- Spatial Flood Defence
- Statutory Main River
- Thames and Medway Canal
- Tillbury Flood Storage Area
- ▨ Local Wildlife Site (LWS)
- ▭ Ramsar
- ▭ Special Protection Area (SPA)
- ▨ Site of Special Scientific Interest (SSSI)
- ▨ Flood Zone 2
- ▨ Flood Zone 3

Note: All Flood Zone 3 areas that the Development Boundary crosses benefit from flood defences, with the exception of the area where the M25 crosses the Mardyke.

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P01	EP	27/07/2018	LD	17/08/2018	GSS	17/08/2018	For Information

Client: **highways england**

Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

Drawing Title: **Figure 15.3 - Surface Water Features, Flood Risk Defences and Road Drainage Sheet 3 of 5**

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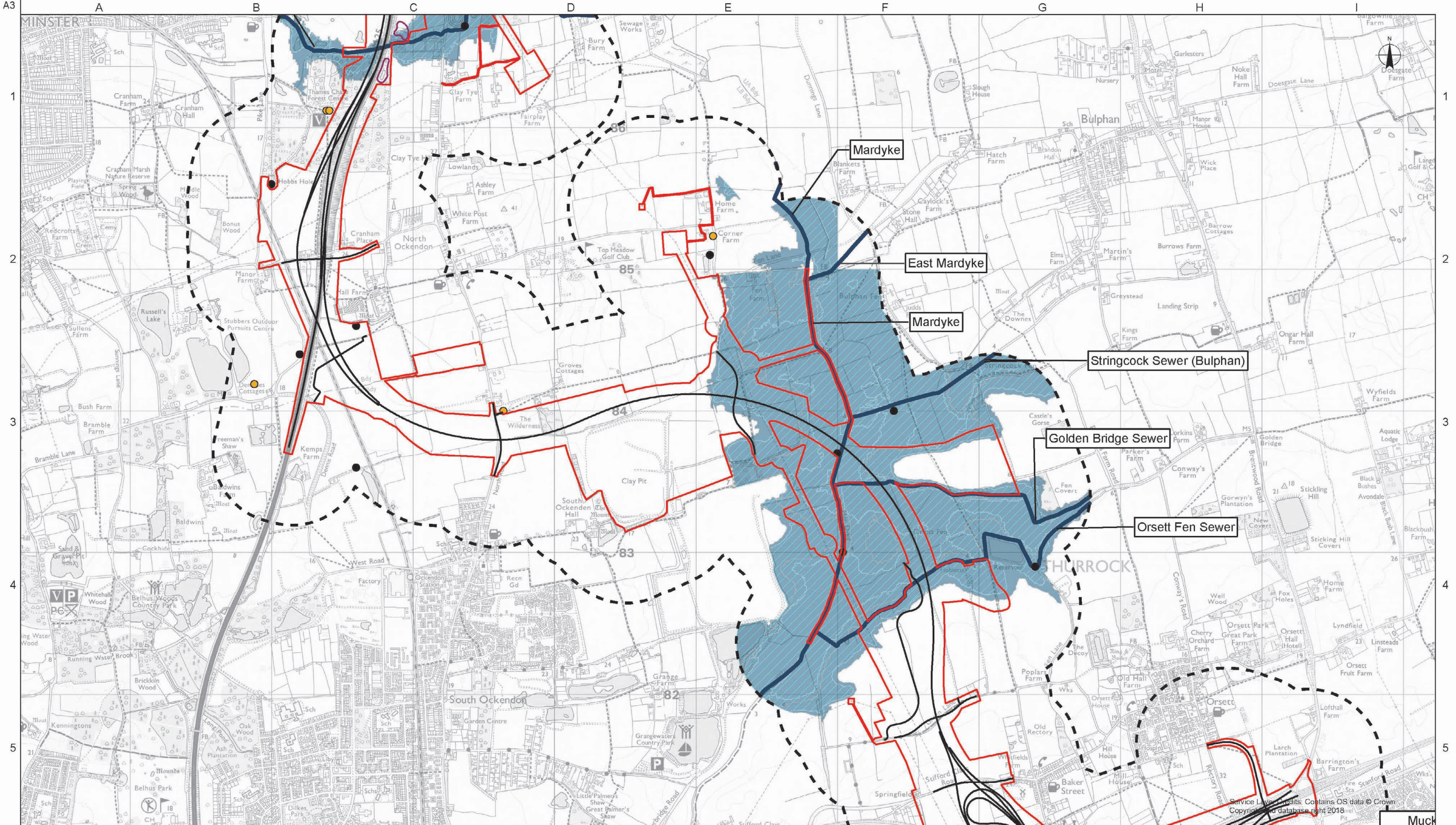
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For Information	S2	P01

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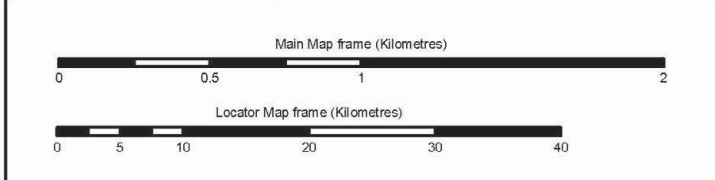


Legend

LTC Route Alignment	Existing Drainage Feature
Development Boundary	Spatial Flood Defence
500m Study Area	Statutory Main River
Licenced Surface Water Abstraction	Thames and Medway Canal
Location of Surface Water Consented Discharge	Tillbury Flood Storage Area
	Flood Zone 2
	Flood Zone 3

Note: All Flood Zone 3 areas that the Development Boundary crosses benefit from flood defences, with the exception of the area where the M25 crosses the Mardyke.

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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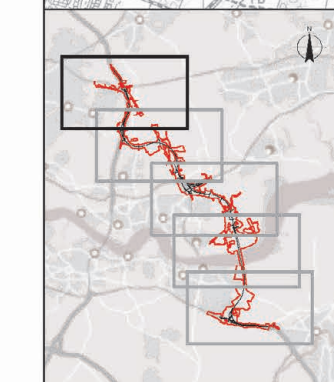
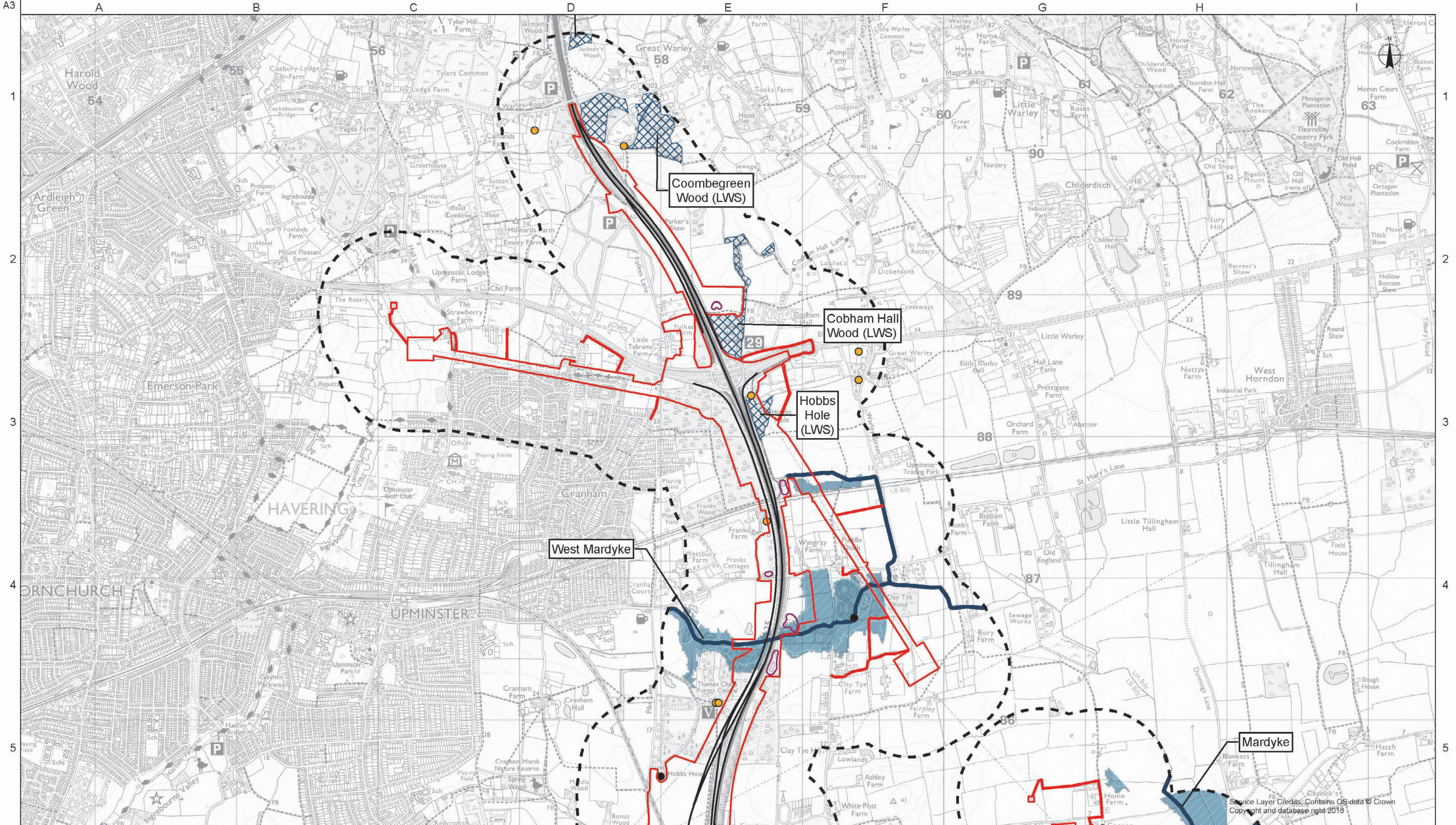
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Figure 15.3 - Surface Water Features, Flood Risk Defences and Road Drainage Sheet 4 of 5

Scale at A3
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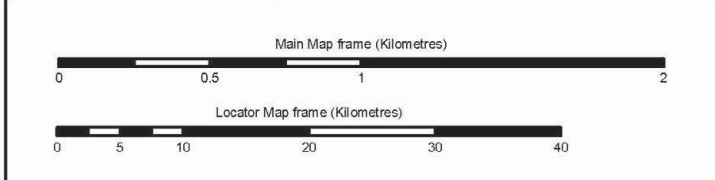


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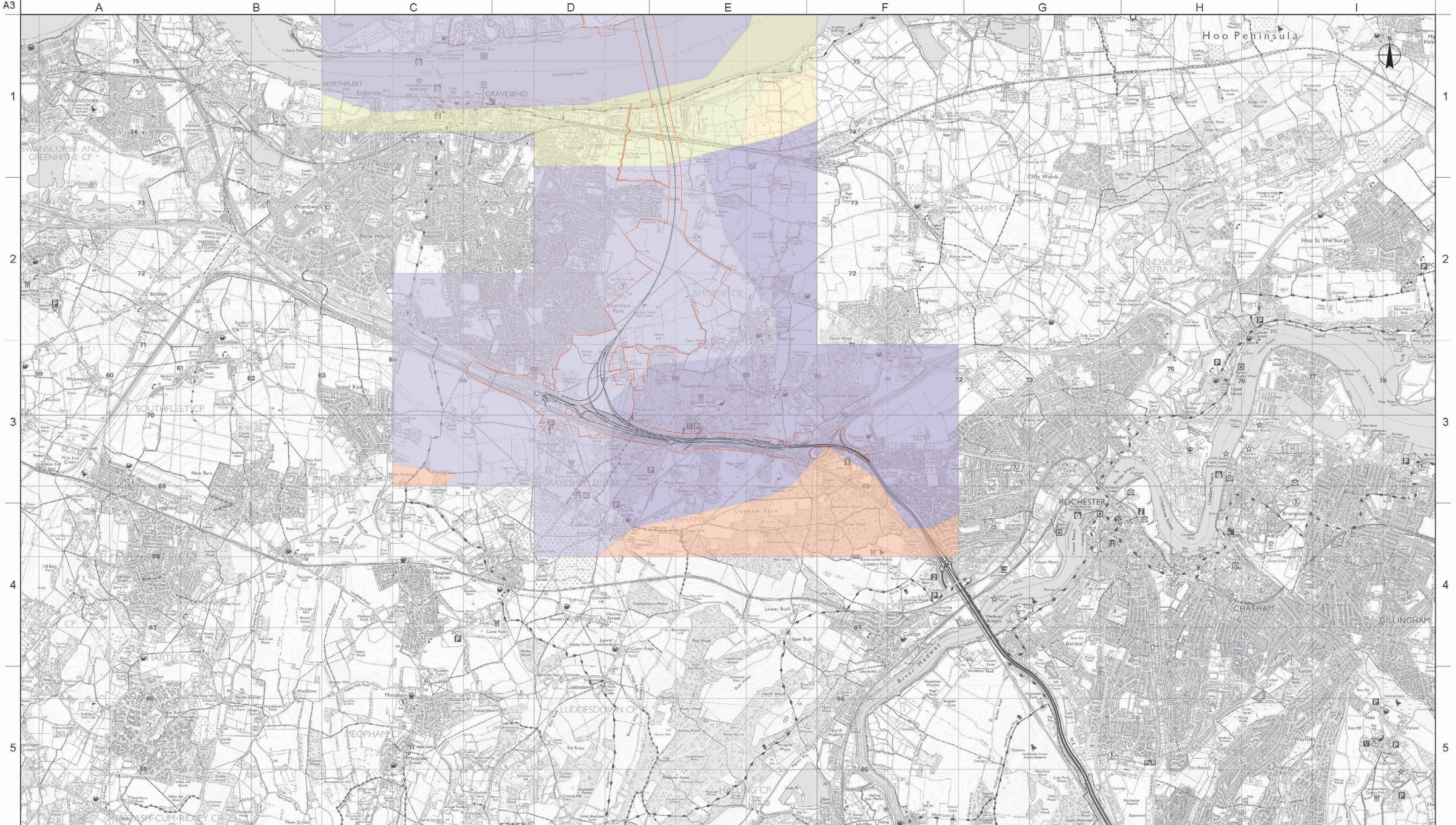
LTC Route Alignment	Existing Drainage Feature	Flood Zone 2
Development Boundary	Spatial Flood Defence	Flood Zone 3
500m Study Area	Statutory Main River	
Licenced Surface Water Abstraction	Thames and Medway Canal	
Location of Surface Water Consented Discharge	Tillbury Flood Storage Area	
	Local Wildlife Site (LWS)	

Note: All Flood Zone 3 areas that the Development Boundary crosses benefit from flood defences, with the exception of the area where the M25 crosses the Mardyke.

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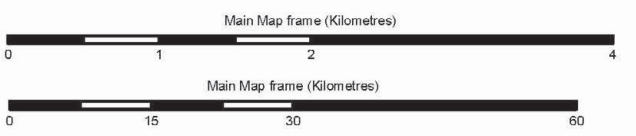
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Client	Suitability	Status
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	Revision	P01
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Legend	
LTC Route Alignment	Major or Highly Permeable Aquifer Soil Class Intermediate
Development Boundary	Minor Aquifer Soil Class High 1
Groundwater Vulnerability	Minor Aquifer Soil Class High Urban
Inland Water or Sea	Minor Aquifer Soil Class Intermediate 1
Major Aquifer Soil Class High 1	Minor Aquifer Soil Class Low
Major Aquifer Soil Class High Urban	Minor or Moderately Permeable Aquifer
Major Aquifer Soil Class Intermediate 1	Non Aquifer
Major or Highly Permeable Aquifer Soil Class High	Non or Weakly Permeable Aquifer

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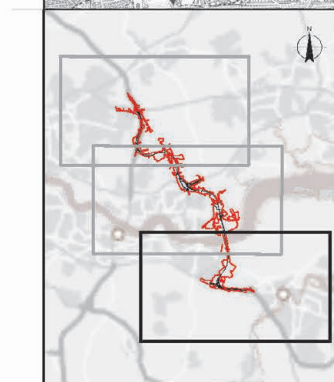
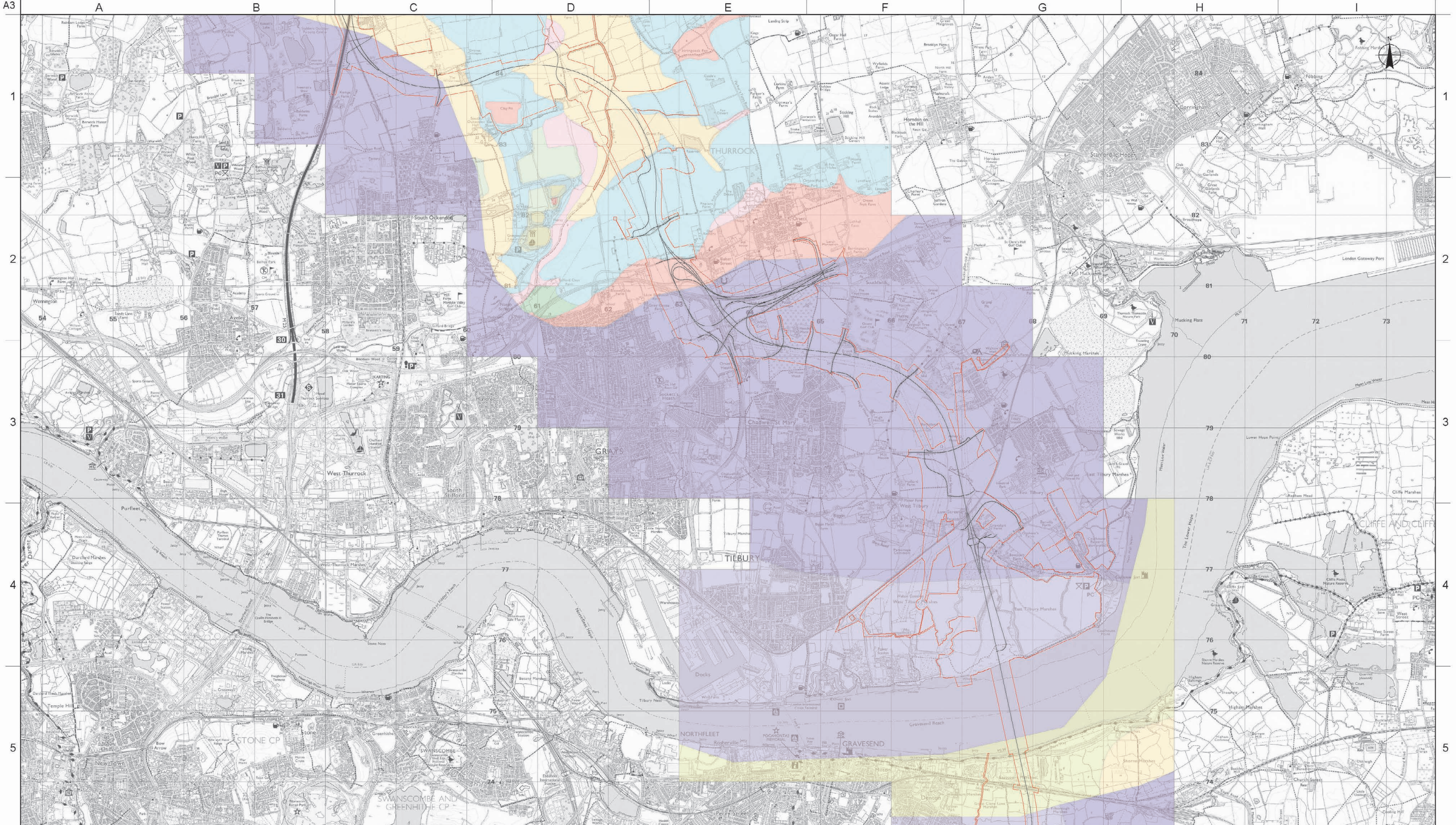
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Figure 15.4 - Aquifer Vulnerability Sheet 1 of 3

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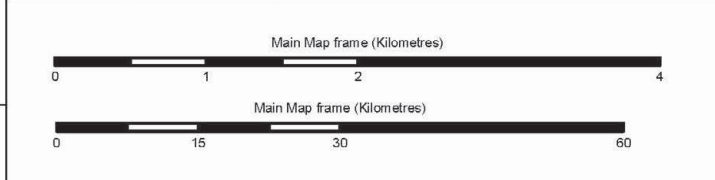
- LTC Route Alignment
- Development Boundary

Groundwater Vulnerability

- Inland Water or Sea
- Major Aquifer Soil Class High 1
- Major Aquifer Soil Class High Urban
- Major Aquifer Soil Class Intermediate 1
- Major or Highly Permeable Aquifer Soil Class High
- Minor Aquifer Soil Class Intermediate
- Minor Aquifer Soil Class High 1
- Minor Aquifer Soil Class Intermediate 1
- Minor Aquifer Soil Class Low
- Minor or Moderately Permeable Aquifer
- Non or Weakly Permeable Aquifer

Note: Current data extent will be superseded prior to ES submission awaiting information from Landmark.

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P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



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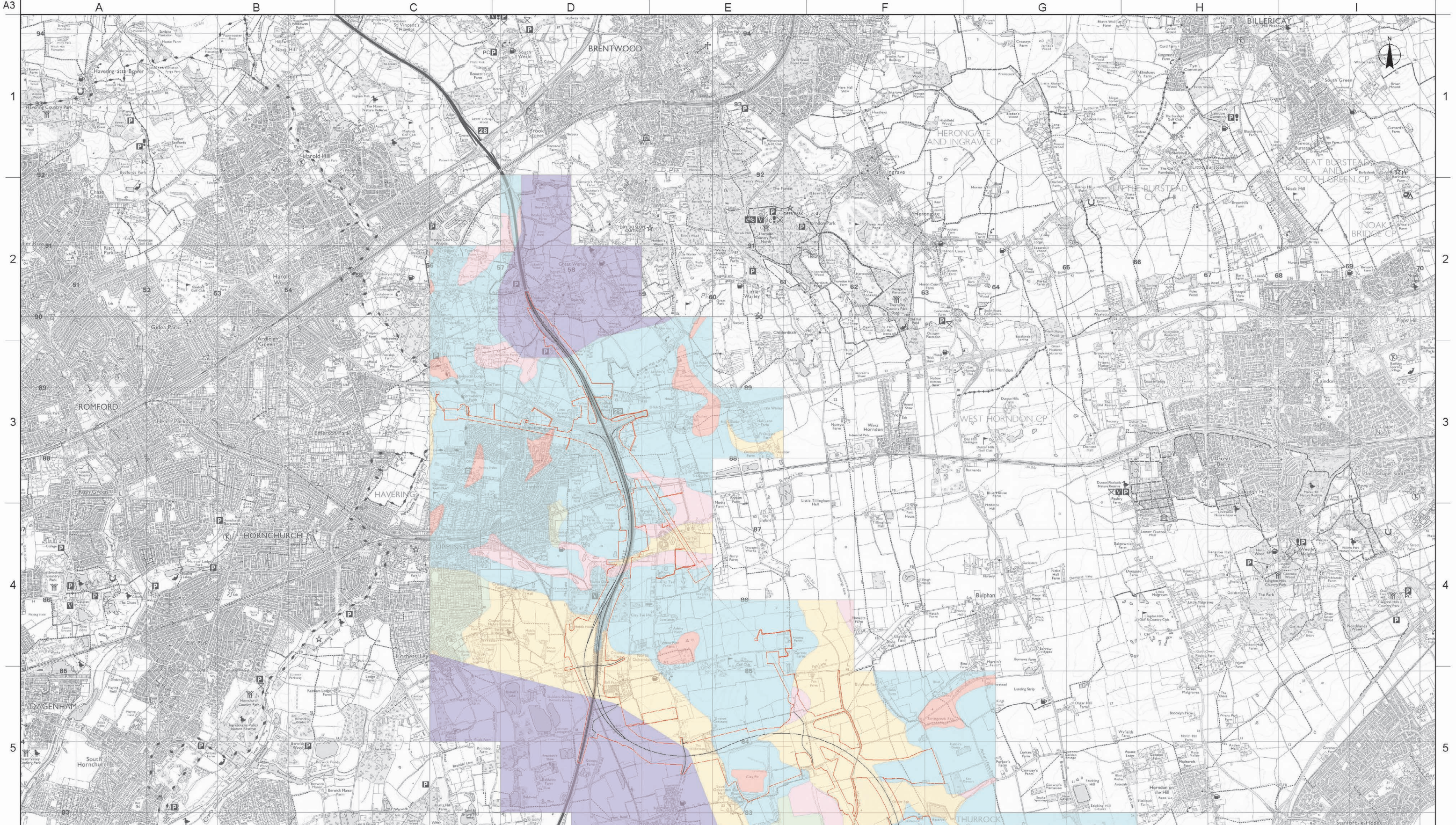
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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 15.4 - Aquifer Vulnerability Sheet 2 of 3

Suitability	Status	Revision
For Information	S2	P01

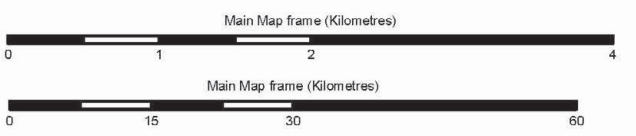
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Legend	
LTC Route Alignment	Major or Highly Permeable Aquifer Soil Class Intermediate
Development Boundary	Minor Aquifer Soil Class High 1
Groundwater Vulnerability	
Inland Water or Sea	Minor Aquifer Soil Class High Urban
Major Aquifer Soil Class High 1	Minor Aquifer Soil Class Intermediate 1
Major Aquifer Soil Class High Urban	Minor Aquifer Soil Class Low
Major Aquifer Soil Class Intermediate 1	Minor or Moderately Permeable Aquifer
Major or Highly Permeable Aquifer Soil Class High	Non Aquifer
	Non or Weakly Permeable Aquifer

Note: Current data extent will be superseded prior to ES submission awaiting information from Landmark.

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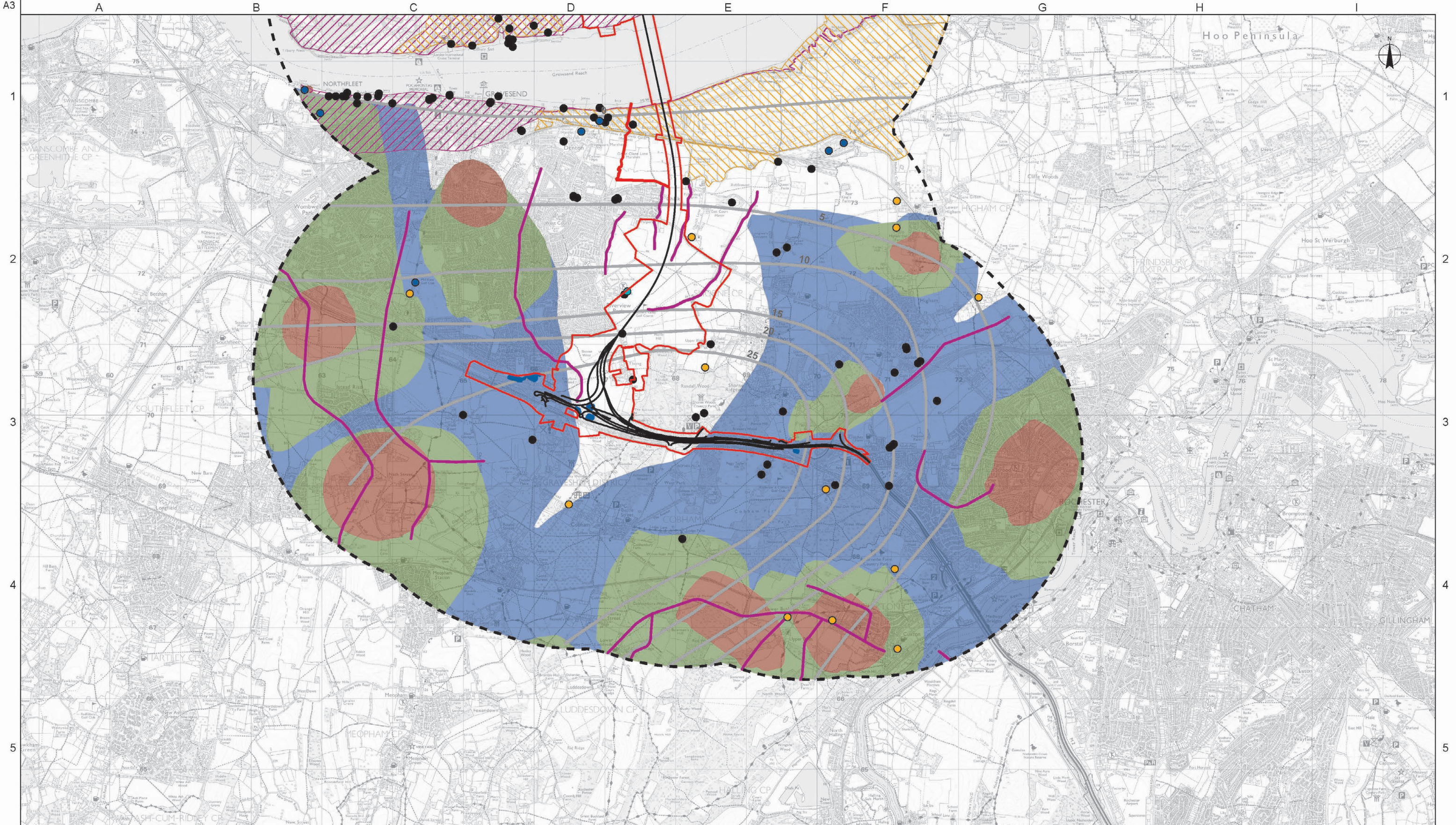
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**Figure 15.4 - Aquifer Vulnerability
Sheet 3 of 3**

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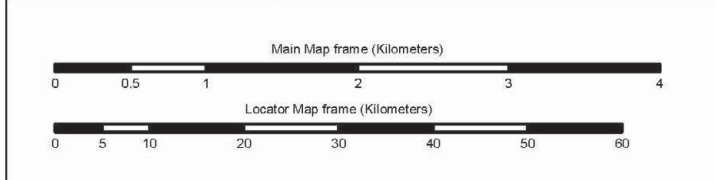
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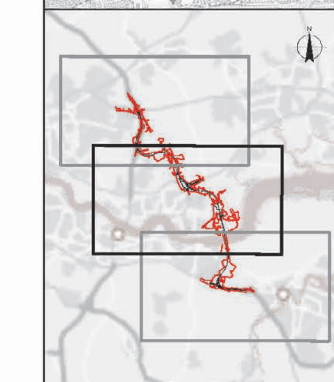
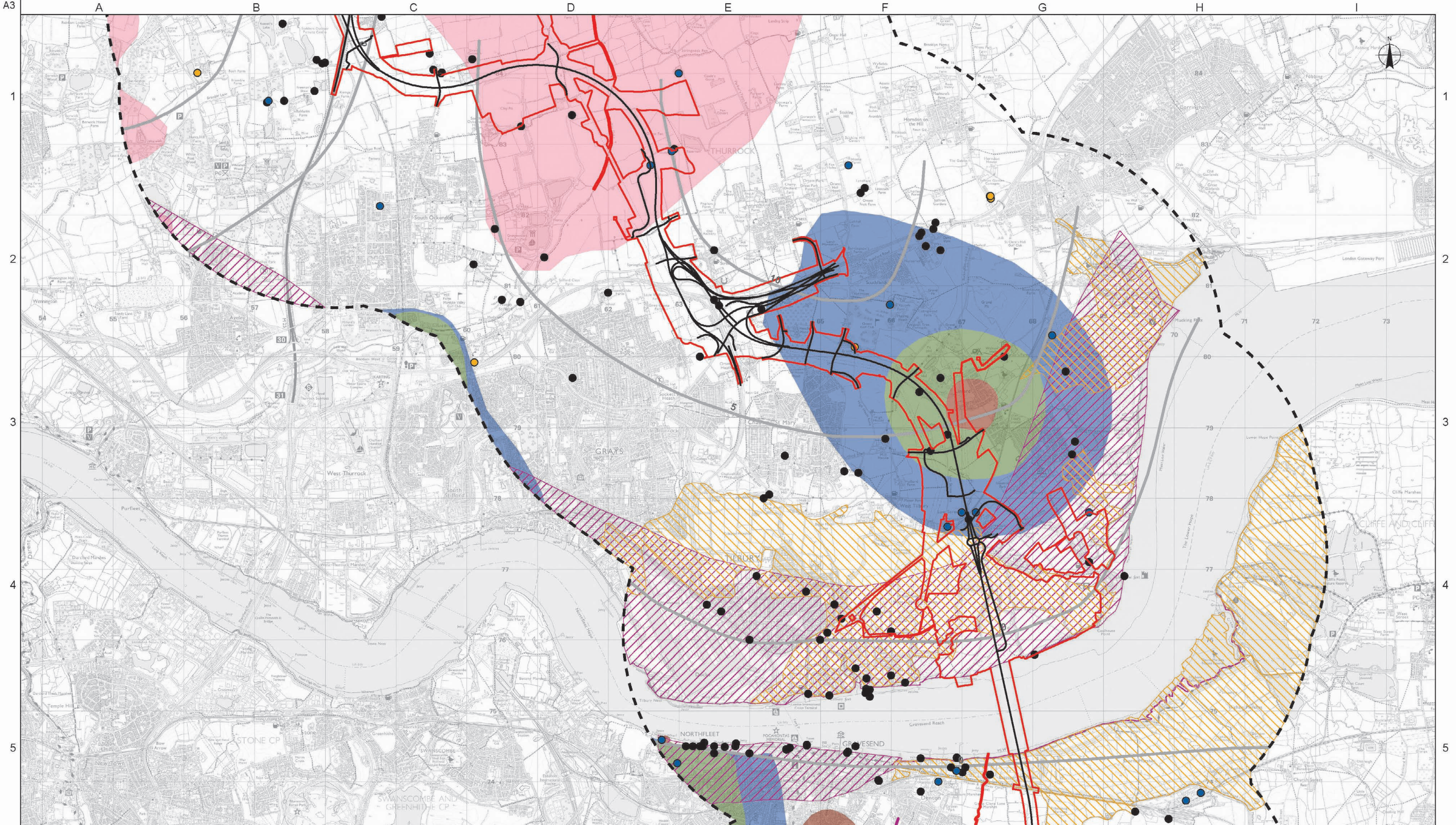
Legend

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- Development Boundary
- 3km Study Area
- Licenced Groundwater Abstractions (public water supply locations not shown)
- Unlicenced Groundwater Abstraction (estimated location)
- Groundwater Level Monitoring Locations
- Discharge Consents (to Ground)
- Dry Valley in Chalk Strata
- Existing Highway Drainage Outfalls to Ground
- Groundwater Level Contours (Chalk Aquifer), February 2014 (approximate)
- Recorded Flood Areas
- Historical Saline Intrusion of Chalk Aquifer, greater than 150mg/l chloride (1965)
- Historical Areas of Artesian Conditions
- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



	Client highways england		Scale at A3 Main Map frame 1:50,000 Locator Map frame: 1:800,000
	Project Title LOWER THAMES CROSSING STATUTORY CONSULTATION		Copyright Contains Ordnance Survey data © Crown copyright 2018 OS 100030649 Contains OS data © Crown Copyright and database right 2018
Drawing Title Figure 15.5 - Groundwater Features Sheet 1 of 3		Suitability For Information	Status S2
		Revision P01	Drawing Number HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40022



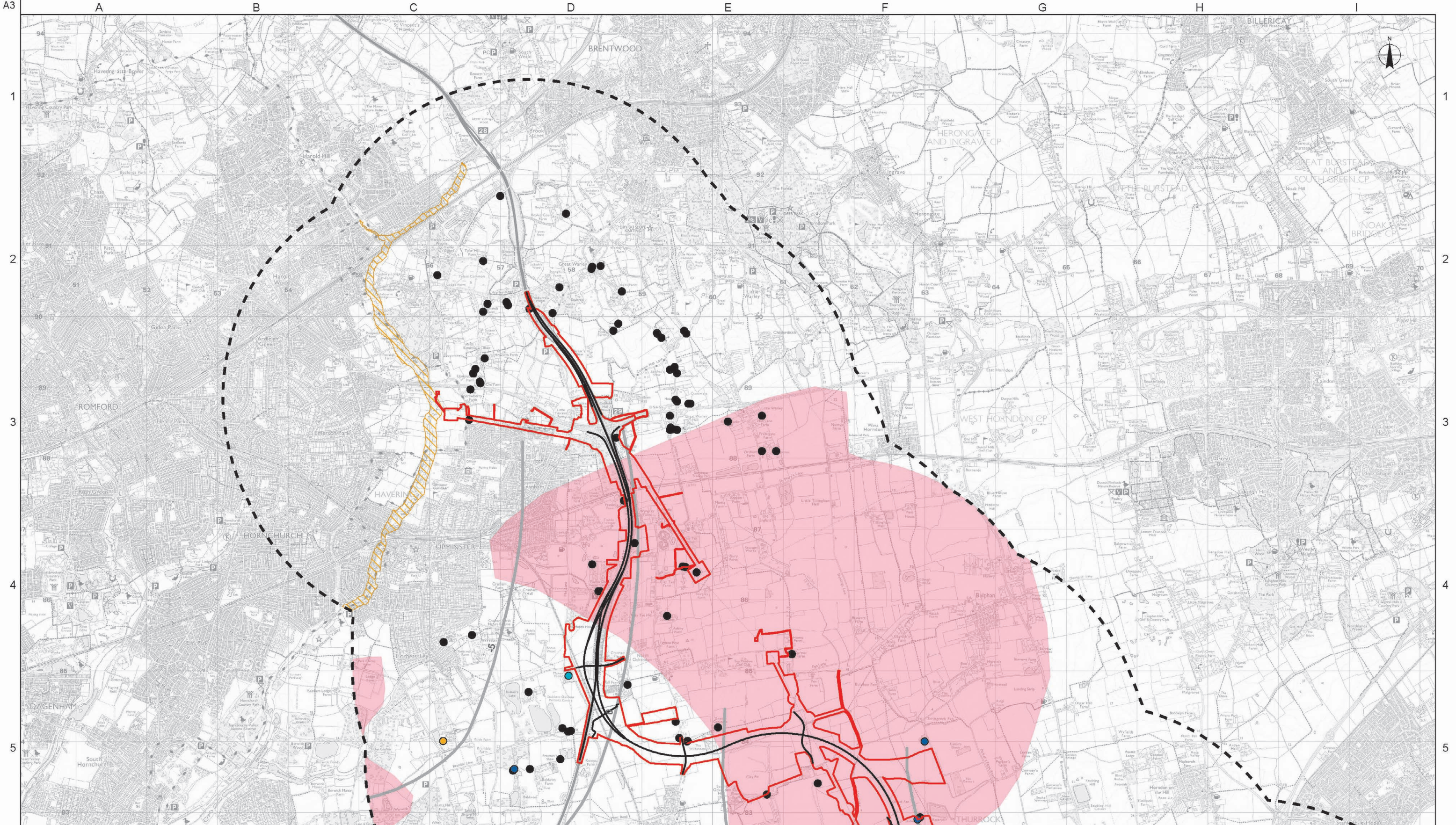
Legend	
LTC Route Alignment	Discharge Consents (to Ground)
Development Boundary	Historical Saline Intrusion of Chalk Aquifer, greater than 150mg/l chloride (1965)
3km Study Area	Historical Areas of Artesian Conditions
Licenced Groundwater Abstractions (public water supply locations not shown)	Source Protection Zone
Unlicenced Groundwater Abstraction (estimated location)	Source Protection Zone I
Groundwater Level Monitoring Locations	Source Protection Zone II
Dry Valley in Chalk Strata	Source Protection Zone III
Existing Highway Drainage Outfalls to Ground	Recorded Flood Areas
Groundwater Level Contours (Chalk Aquifer), February 2014 (approximate)	

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information

Main Map frame (Kilometers)	
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Client	
Project Title	LOWER THAMES CROSSING STATUTORY CONSULTATION
Drawing Title	Figure 15.5 - Groundwater Features Sheet 2 of 3

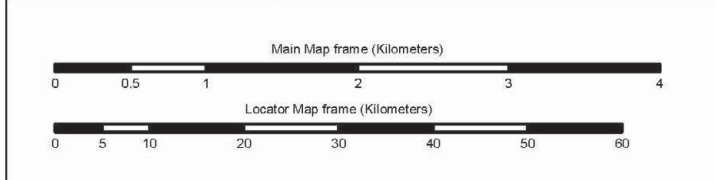
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Suitability	Status	Revision
For Information	S2	P01
Drawing Number	HE540039-CJV-EWE-SZP_EGNE0000000-DR-LE-40022	



Legend

- LTC Route Alignment
- Development Boundary
- 3km Study Area
- Licenced Groundwater Abstractions (public water supply locations not shown)
- Unlicenced Groundwater Abstraction (estimated location)
- Groundwater Level Monitoring Locations
- Discharge Consents (to Ground)
- Dry Valley in Chalk Strata
- Existing Highway Drainage Outfalls to Ground
- Groundwater Level Contours (Chalk Aquifer), February 2014 (approximate)
- Recorded Flood Areas
- Historical Saline Intrusion of Chalk Aquifer, greater than 150mg/l chloride (1965)
- Historical Areas of Artesian Conditions
- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



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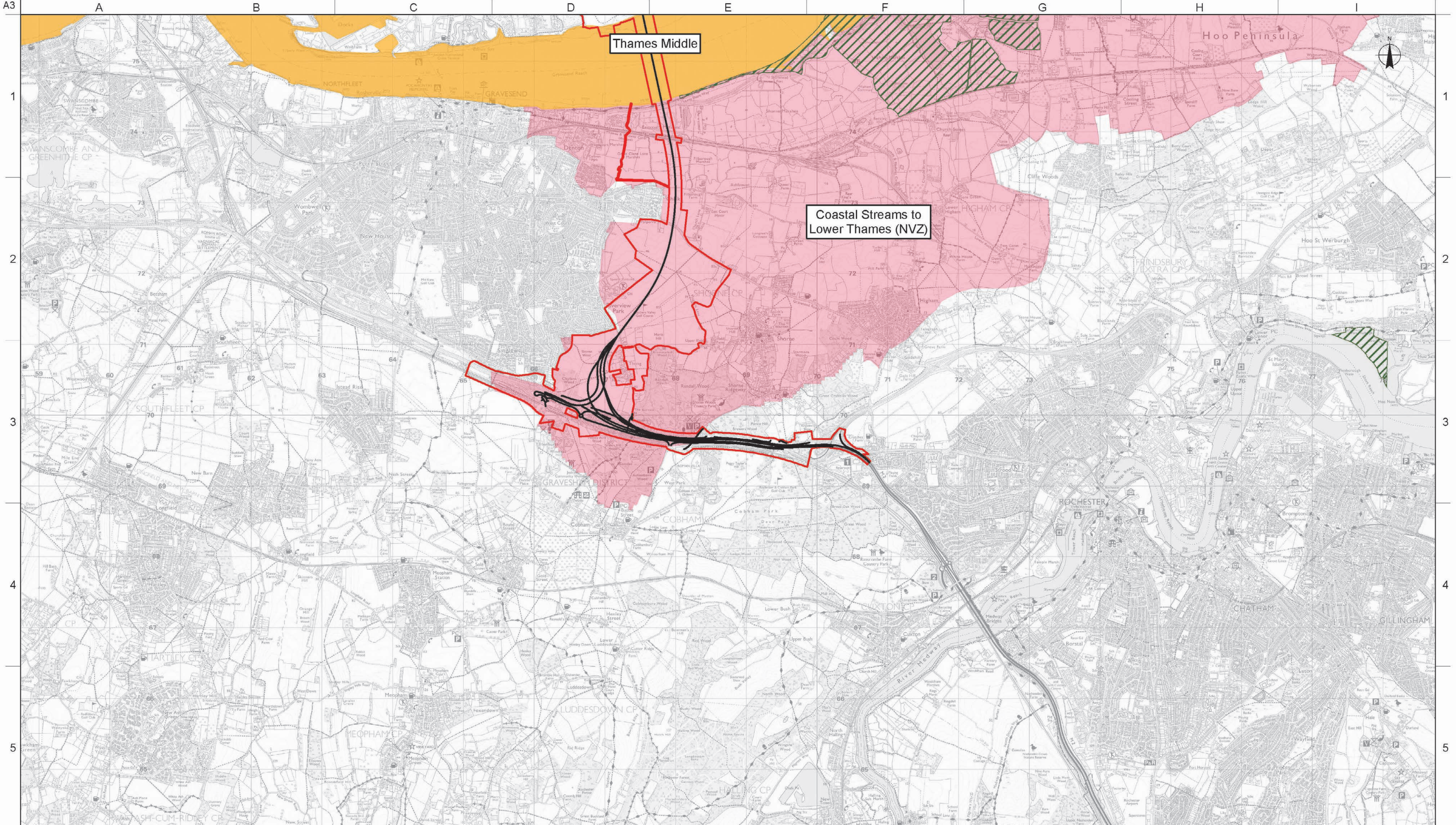
Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 15.5 - Groundwater Features Sheet 3 of 3

Scale at A3
Main Map frame **1:50,000**
Locator Map frame: **1:800,000**

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Suitability	Status	Revision
For Information	S2	P01
Drawing Number HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40022		

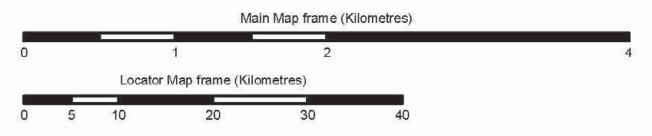


Legend

- LTC Route Alignment
- Development Boundary
- Thames Estuary and Marshes (SPA)
- Thames Middle Zone of Influence (Downstream)
- Surface Water Zone of Influence
- Nitrate Vulnerable Zone

- Ecological Status of Surface Water**
- Poor
 - Moderate
 - Undefined
 - Moderate

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



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Project Title
**LOWER THAMES CROSSING
STATUTORY CONSULTATION**

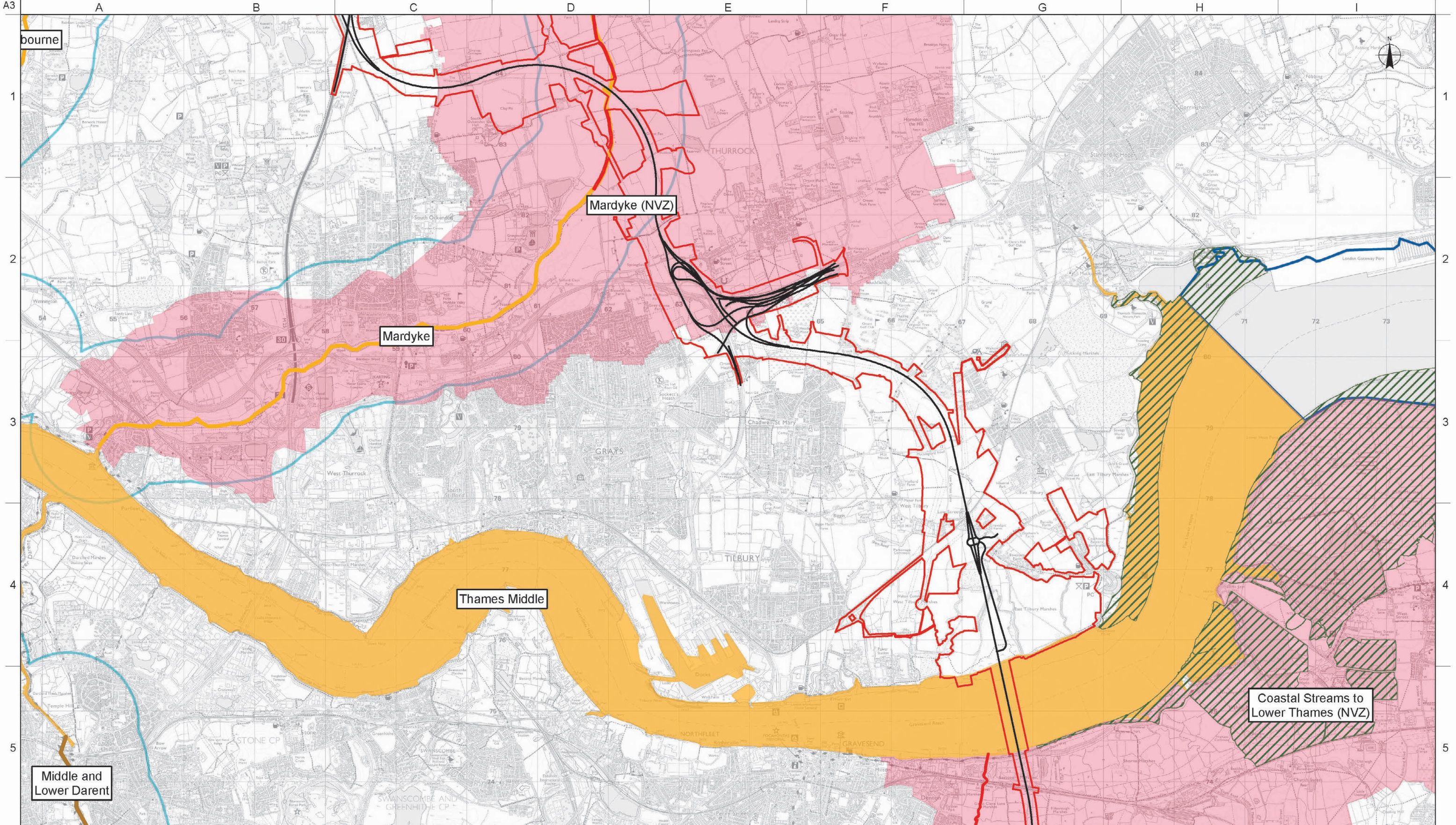
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**Figure 15.6 - Water Framework Directive –
Surface Water
Sheet 1 of 3**

Scale at A3
Main Map frame **1:50,000**
Locator Map frame: **1:800,000**

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Drawing Number
HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40042



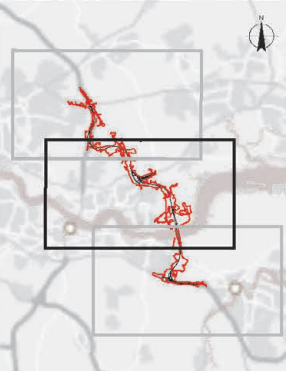
Middle and Lower Darent

Mardyke (NVZ)

Mardyke

Thames Middle

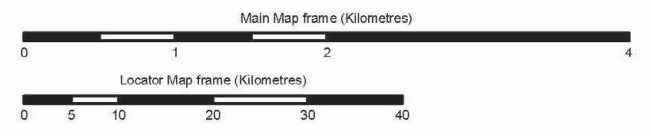
Coastal Streams to Lower Thames (NVZ)



Legend

- LTC Route Alignment
- Development Boundary
- Thames Estuary and Marshes (SPA)
- Thames Middle Zone of Influence (Downstream)
- Surface Water Zone of Influence
- Nitrate Vulnerable Zone
- Ecological Status of Surface Water: Poor
- Ecological Status of Surface Water: Moderate
- Ecological Status of Surface Water: Undefined
- Ecological Status of Surface Water: Moderate

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



Client

Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

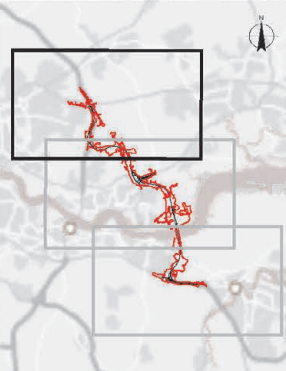
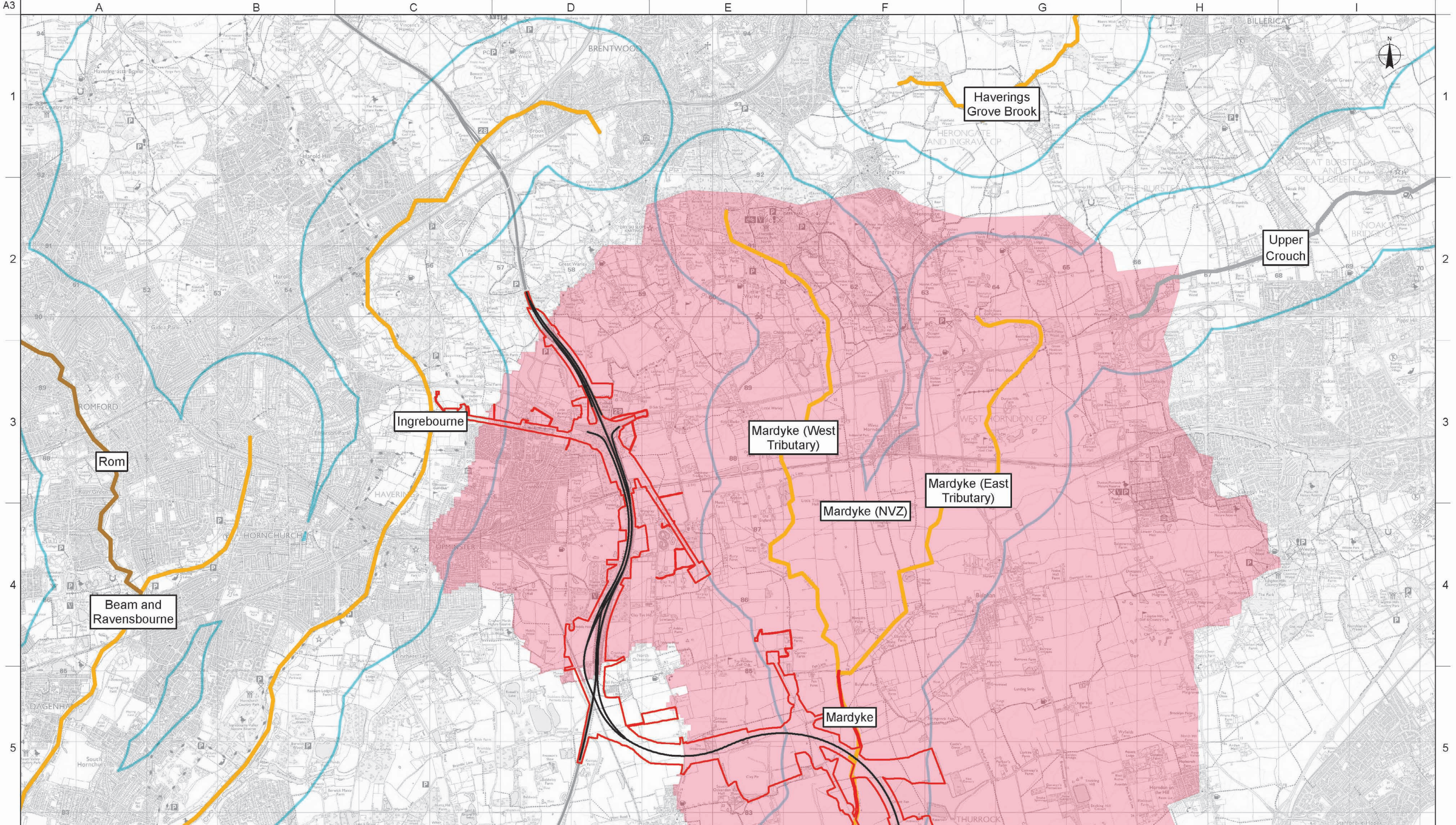
Drawing Title
Figure 15.6 - Water Framework Directive – Surface Water Sheet 2 of 3

Scale at A3
Main Map frame **1:50,000**
Locator Map frame: **1:800,000**

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Suitability	Status	Revision
For Information	S2	P01

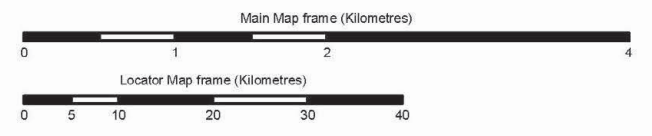
Drawing Number
HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40042



Legend

- LTC Route Alignment
- Development Boundary
- Thames Estuary and Marshes (SPA)
- Thames Middle Zone of Influence (Downstream)
- Surface Water Zone of Influence
- Nitrate Vulnerable Zone
- Ecological Status of Surface Water: Poor
- Ecological Status of Surface Water: Moderate
- Ecological Status of Surface Water: Undefined
- Ecological Status of Surface Water: Moderate

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



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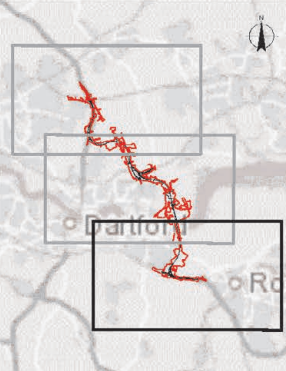
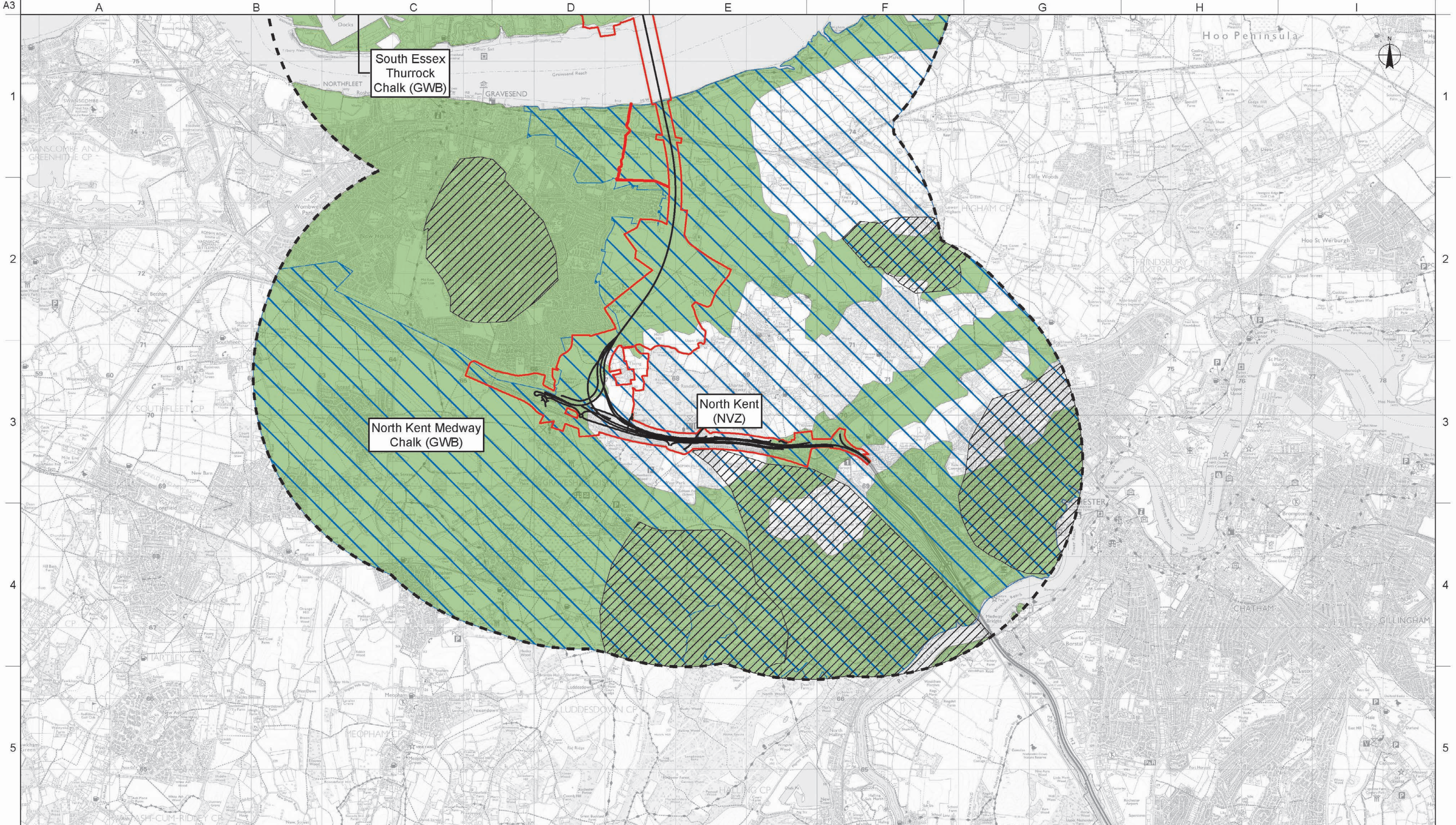
Project Title
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Drawing Title
**Figure 15.6 - Water Framework Directive –
Surface Water
Sheet 3 of 3**

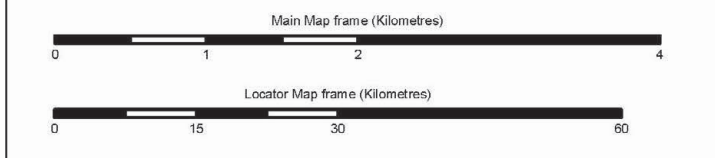
Suitability	Status	Revision
For Information	S2	P01

Drawing Number
HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40042



- Legend**
- LTC Route Alignment
 - Development Boundary
 - 3km Study Area
 - Drinking Water Protected Areas Safeguard Zones
 - Groundwater Nitrate Vulnerable Zones (NVZ)
- Ecological Status of Groundwater Bodies (GWB)**
- Good Ecological Status
 - Poor Ecological Status

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information

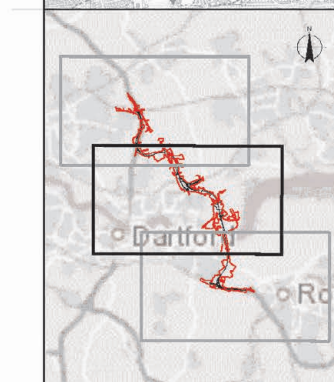
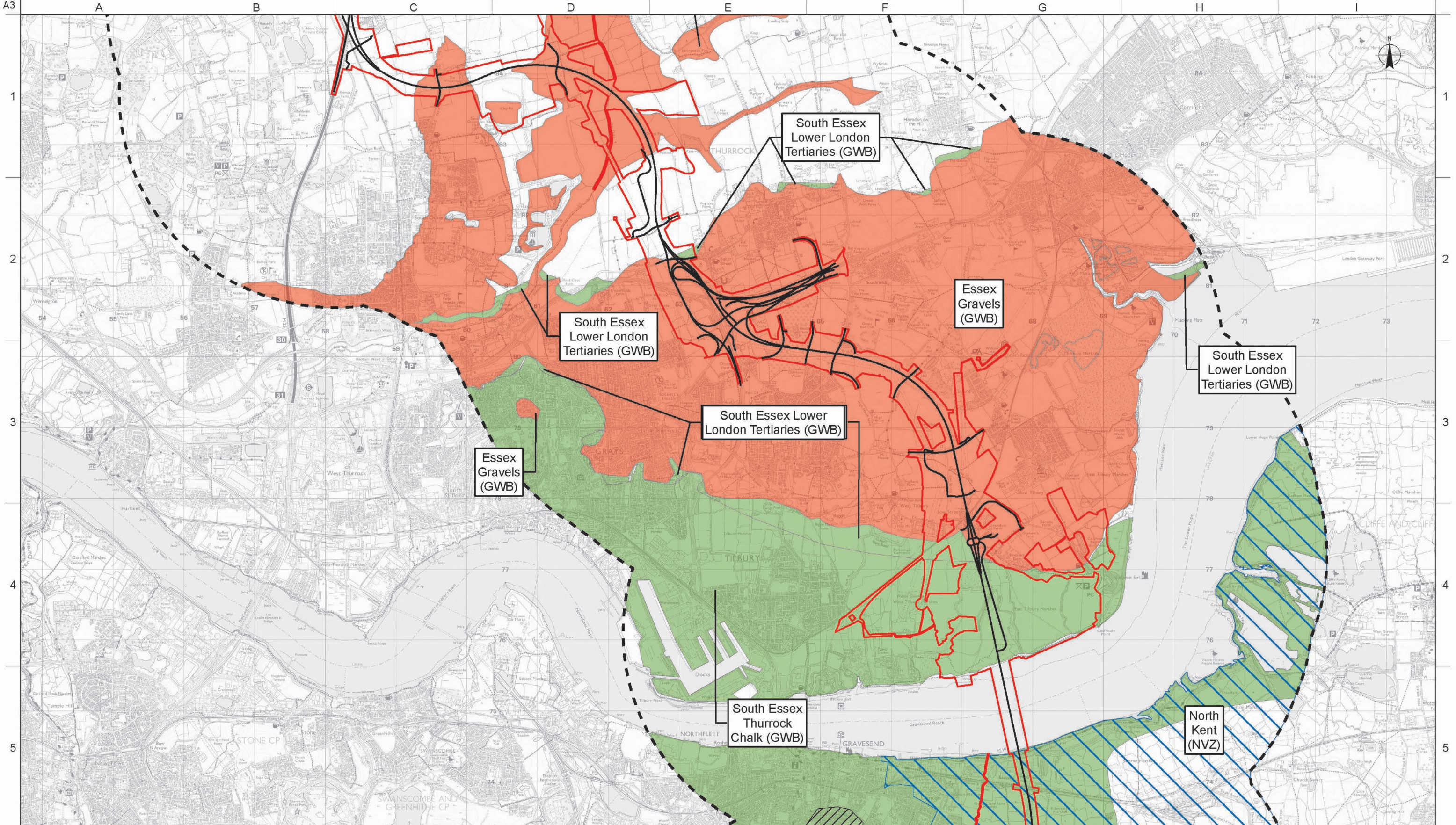


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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 15.7 - Water Framework Directive - Groundwater Sheet 1 of 3

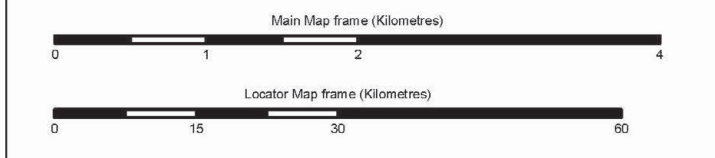
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Suitability	Status	Revision
For Information	S2	P01
Drawing Number HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40044		



Legend

- LTC Route Alignment
- Development Boundary
- 3km Study Area
- Drinking Water Protected Areas Safeguard Zones
- Groundwater Nitrate Vulnerable Zones (NVZ)
- Ecological Status of Groundwater Bodies (GWB)**
- Good Ecological Status
- Poor Ecological Status

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information



Client

Project Title
**LOWER THAMES CROSSING
STATUTORY CONSULTATION**

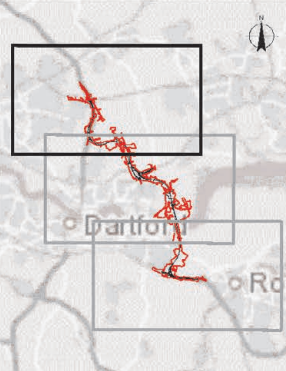
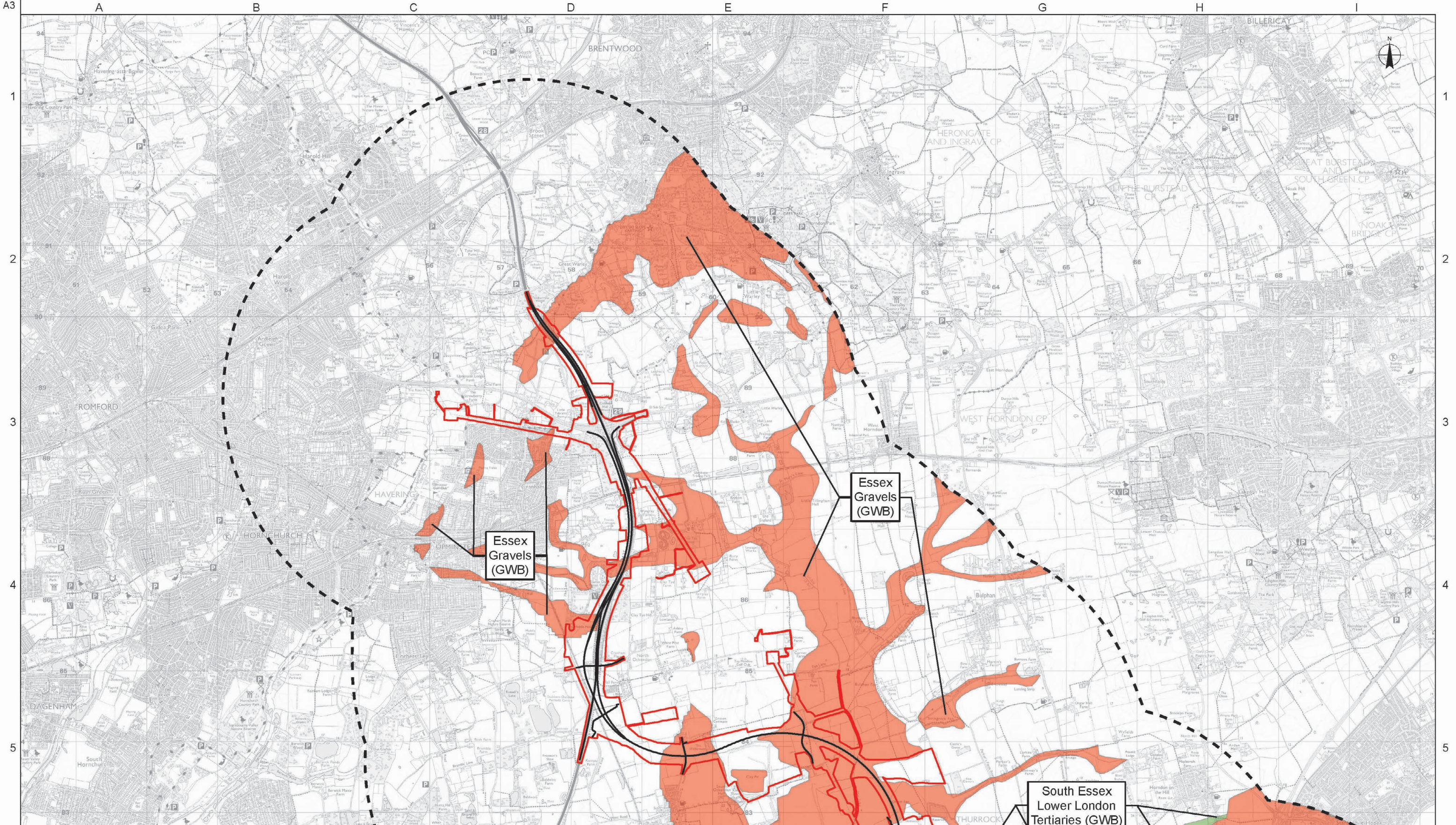
Drawing Title
**Figure 15.7 - Water Framework Directive -
Groundwater
Sheet 2 of 3**

Scale at A3
Main Map frame **1:50,000**
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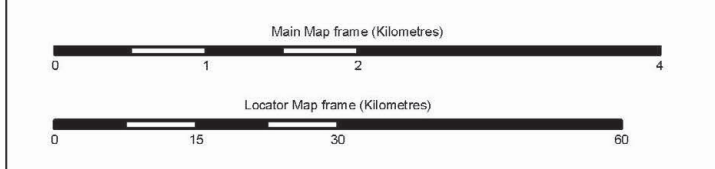
Suitability	Status	Revision
For Information	S2	P01

Drawing Number
HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40044



- Legend**
- LTC Route Alignment
 - Development Boundary
 - 3km Study Area
 - Drinking Water Protected Areas Safeguard Zones
 - Groundwater Nitrate Vulnerable Zones (NVZ)
- Ecological Status of Groundwater Bodies (GWB)**
- Good Ecological Status
 - Poor Ecological Status

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	LD	17/08/2018	CSS	17/08/2018	For Information

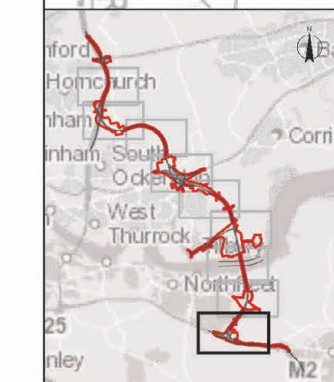
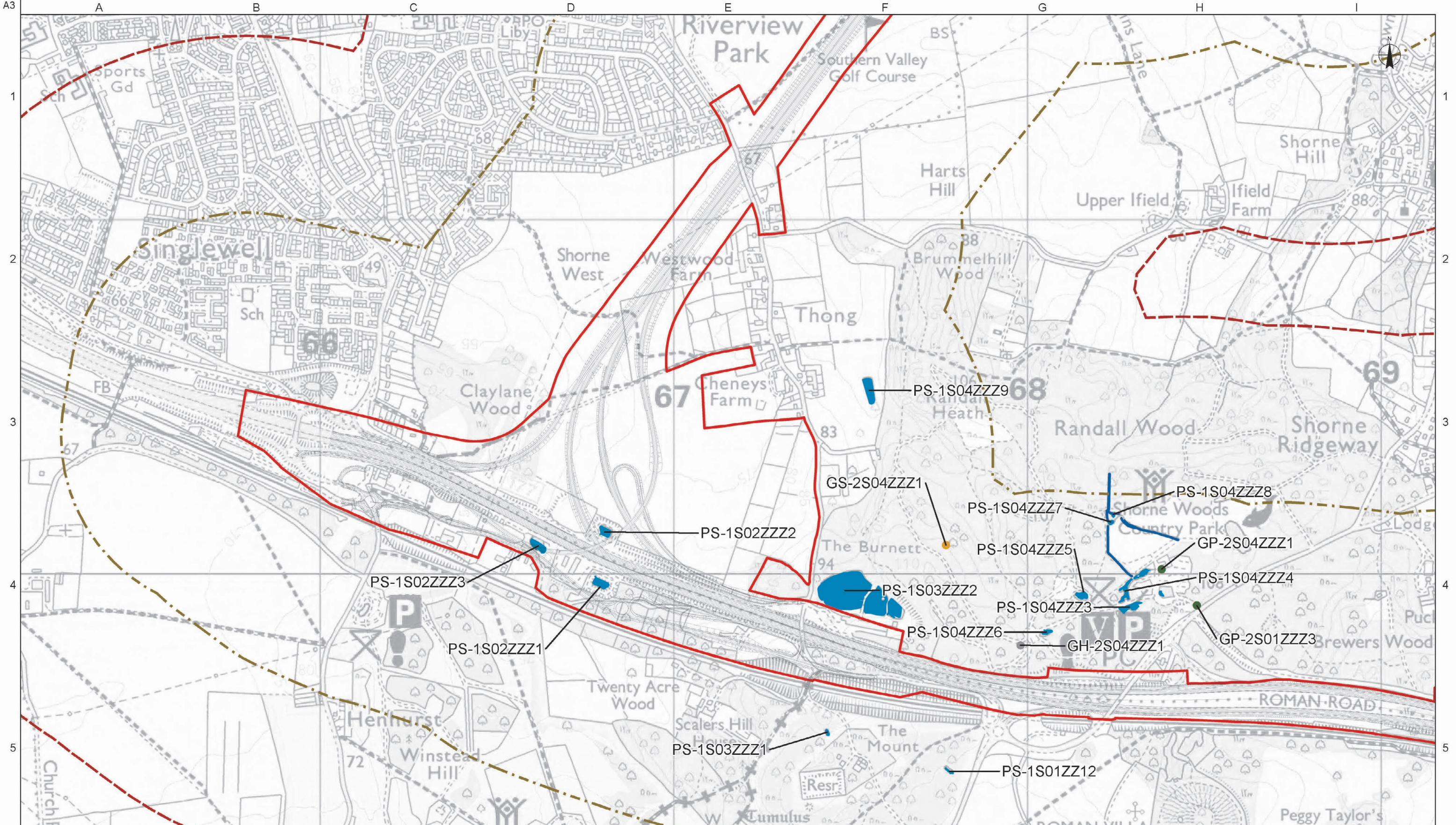


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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 15.7 - Water Framework Directive - Groundwater Sheet 3 of 3

Scale at A3		
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Suitability	Status	Revision
For Information	S2	P01
Drawing Number HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40044		



Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area

Surface Water Features

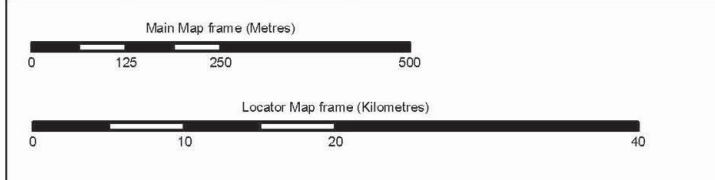
- Surface waterbody, ordinary watercourse
- Surface waterbody, lake or pond

Groundwater Features

- Discharge to ground, permitted
- Spring

- Well, historical, abandoned or decommissioned

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

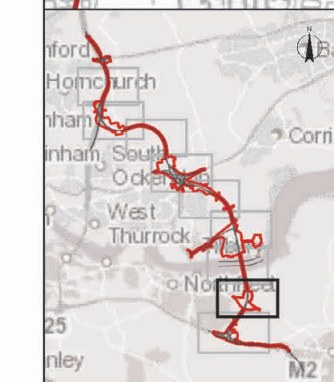
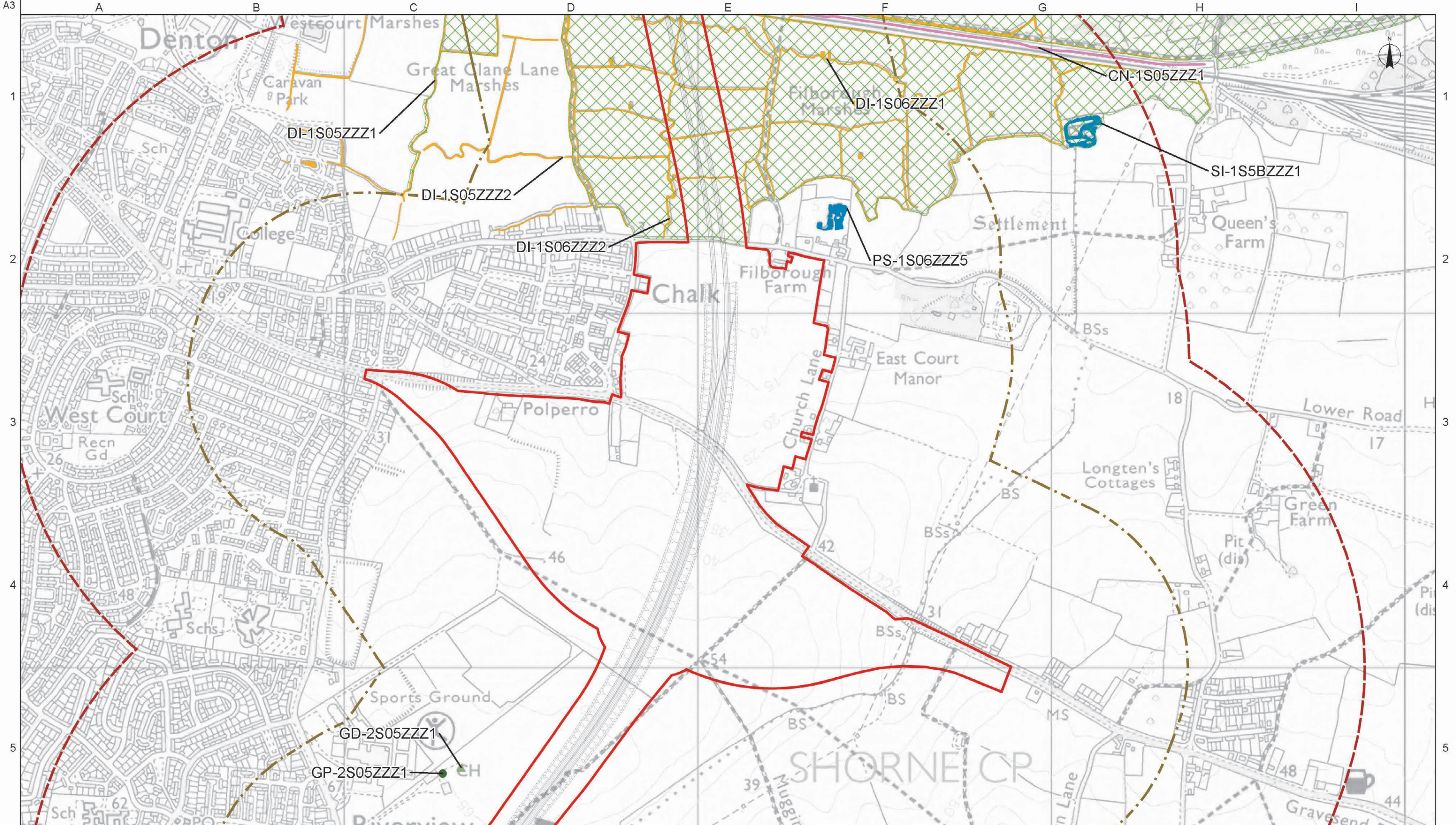


Client **highways england**

Project Title **LOWER THAMES CROSSING STATUTORY CONSULTATION**

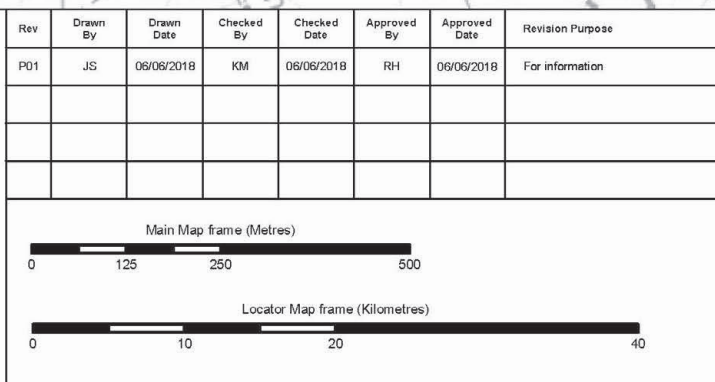
Drawing Title **Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 1 of 9**

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Copyright	Contains Ordnance Survey data © Crown copyright 2018 OS 100030649 Contains OS data © Crown Copyright and database right 2018	
Suitability	Status	Revision
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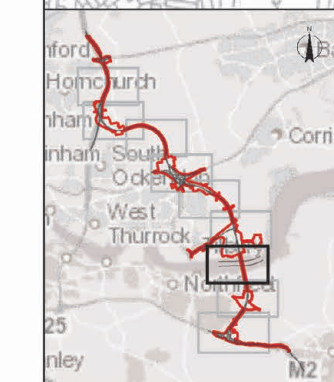
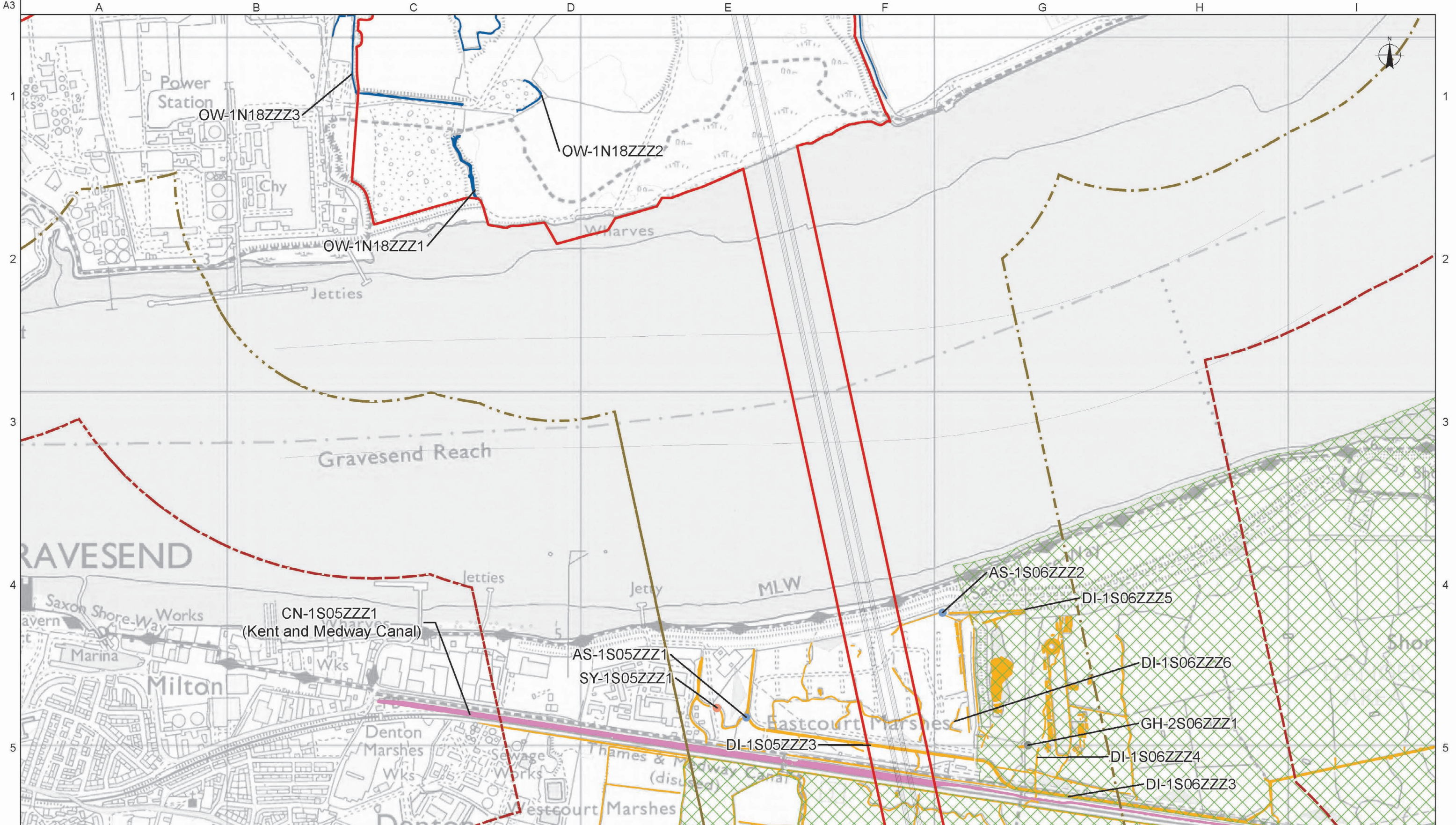


Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

Legend:	
	Design Release 2 (DR2) Route Alignment
	DR2 Development Boundary
	500m Study Area
	1km Study Area
	Ramsar
Surface Water Features	
	Surface waterbody, canal
	Surface waterbody, ditch
	Surface waterbody, lake or pond
Groundwater Features	
	Discharge to ground, permitted
	Groundwater abstraction, well, deregulated/no licence



Client			Scale at A3
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Project Title	LOWER THAMES CROSSING STATUTORY CONSULTATION		Copyright
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Drawing Title	Figure 15.8 - Water Feature Survey Phase 1 (September 2017)	Suitability	Status
	Sheet 2 of 9	For Information	S2
		Revision	P01
		Drawing Number	HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40055



Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area
- Ramsar

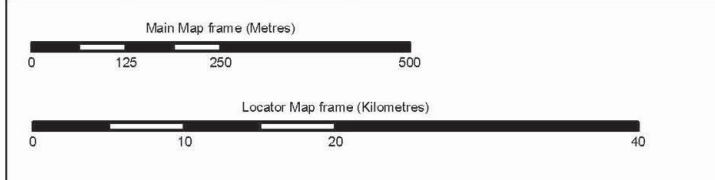
Surface Water Features

- Surface water abstraction, licensed
- Surface water discharge, permitted
- Surface waterbody, canal
- Surface waterbody, canal
- Surface waterbody, ditch
- Surface waterbody, ordinary watercourse

Groundwater Features

- Well, historical, abandoned or decommissioned

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information



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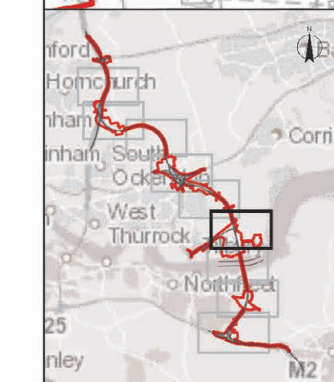
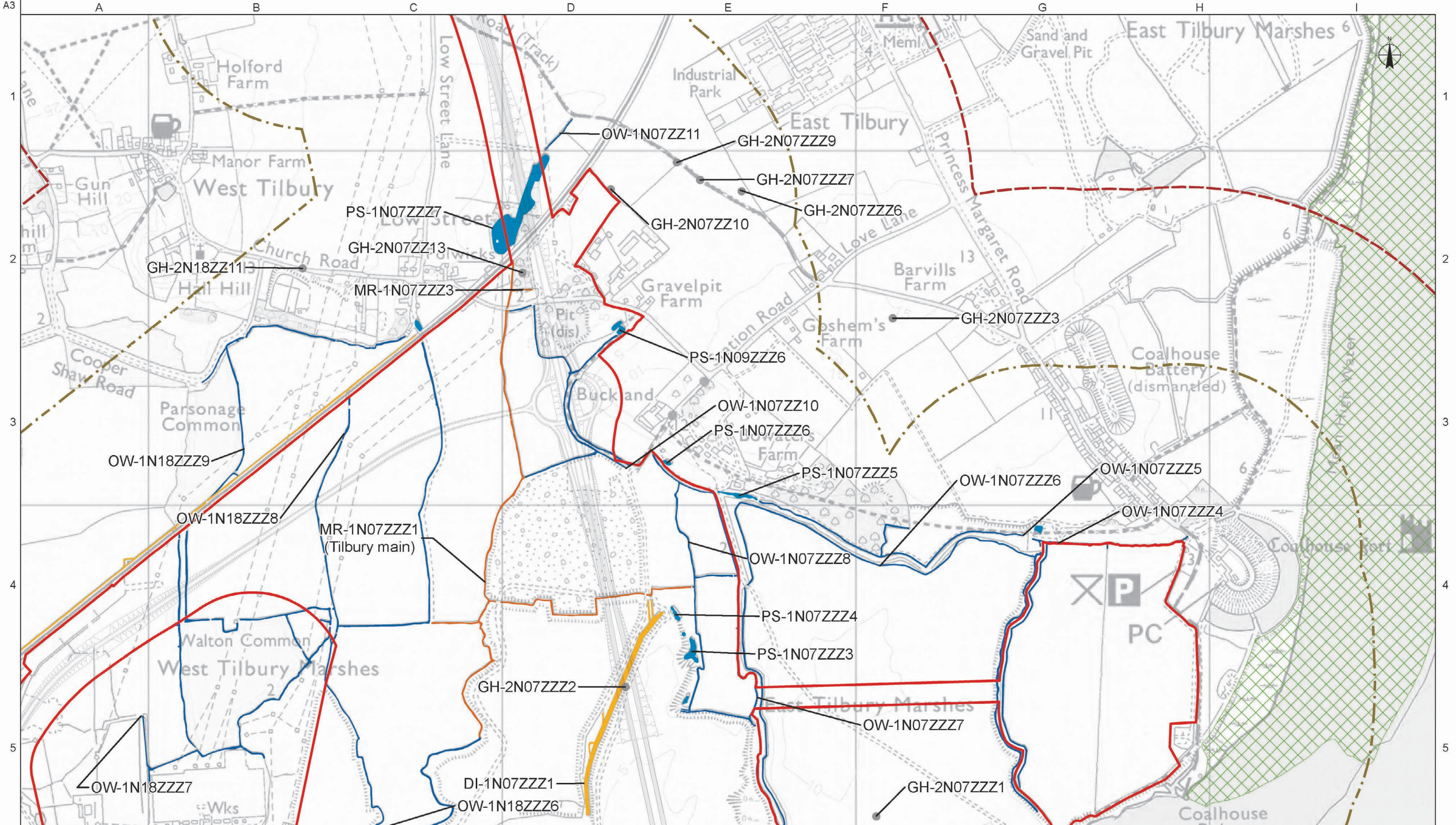
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Drawing Title: **Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 3 of 9**

Suitability	Status	Revision
For Information	S2	P01

Drawing Number: HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40055



Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area
- Ramsar

Surface Water Features

- Surface waterbody, EA designated main river
- Surface waterbody, ditch
- Surface waterbody, lake or pond
- Surface waterbody, ordinary watercourse

Groundwater Features

- Well, historical, abandoned or decommissioned

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

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Locator Map frame (Kilometres)	
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Client: **highways england**

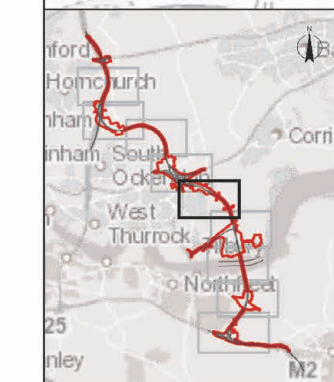
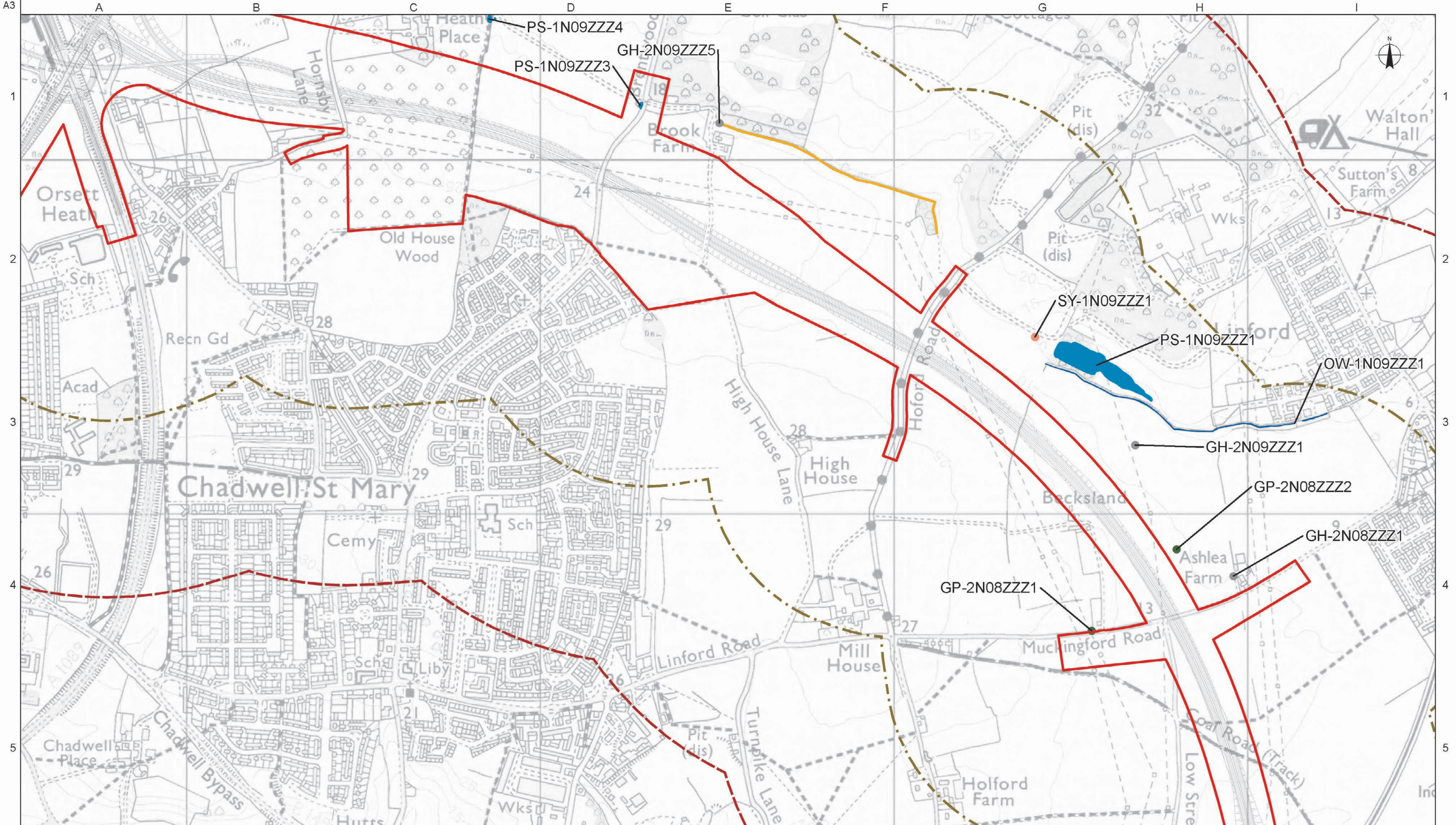
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Drawing Title	Suitability	Status	Revision
Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 4 of 9	For Information	S2	P01

Drawing Number: HE540039-CJV-EWE-SZP_EGNE0000000-DR-LE-40055



Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area

Surface Water Features

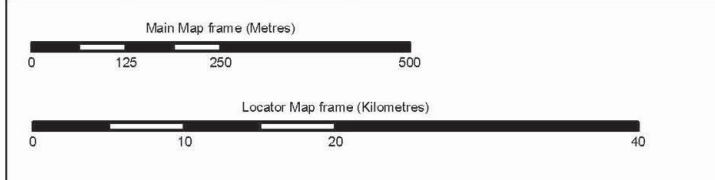
- Surface water discharge, permitted
- Surface waterbody, ditch
- Surface waterbody, lake or pond
- Surface waterbody, ordinary watercourse

Groundwater Features

- Discharge to ground, permitted

- Well, historical, abandoned or decommissioned

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information



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Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

Drawing Title: **Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 5 of 9**

Scale at A3

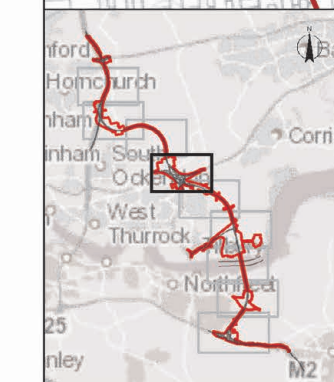
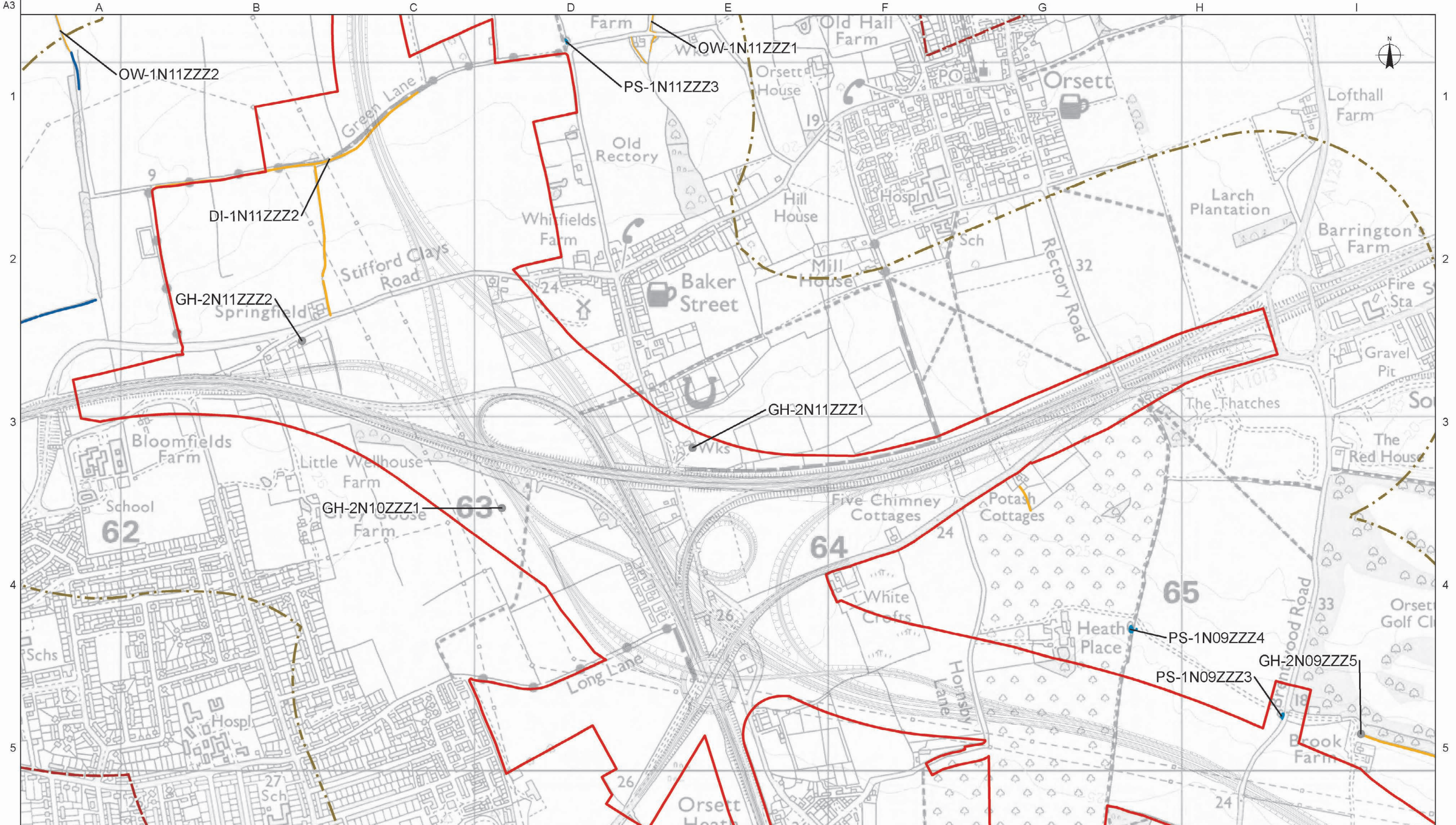
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Suitability	Status	Revision
For Information	S2	P01

Drawing Number: HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40055



Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area

Surface Water Features

- Surface waterbody, ditch
- Surface waterbody, ordinary watercourse
- Surface waterbody, ditch
- Surface waterbody, lake or pond

Groundwater Features

- Well, historical, abandoned or decommissioned

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

Main Map frame (Metres)

Locator Map frame (Kilometres)

Client:

Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

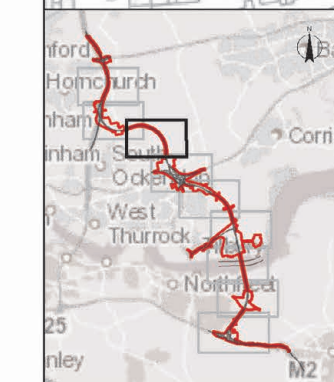
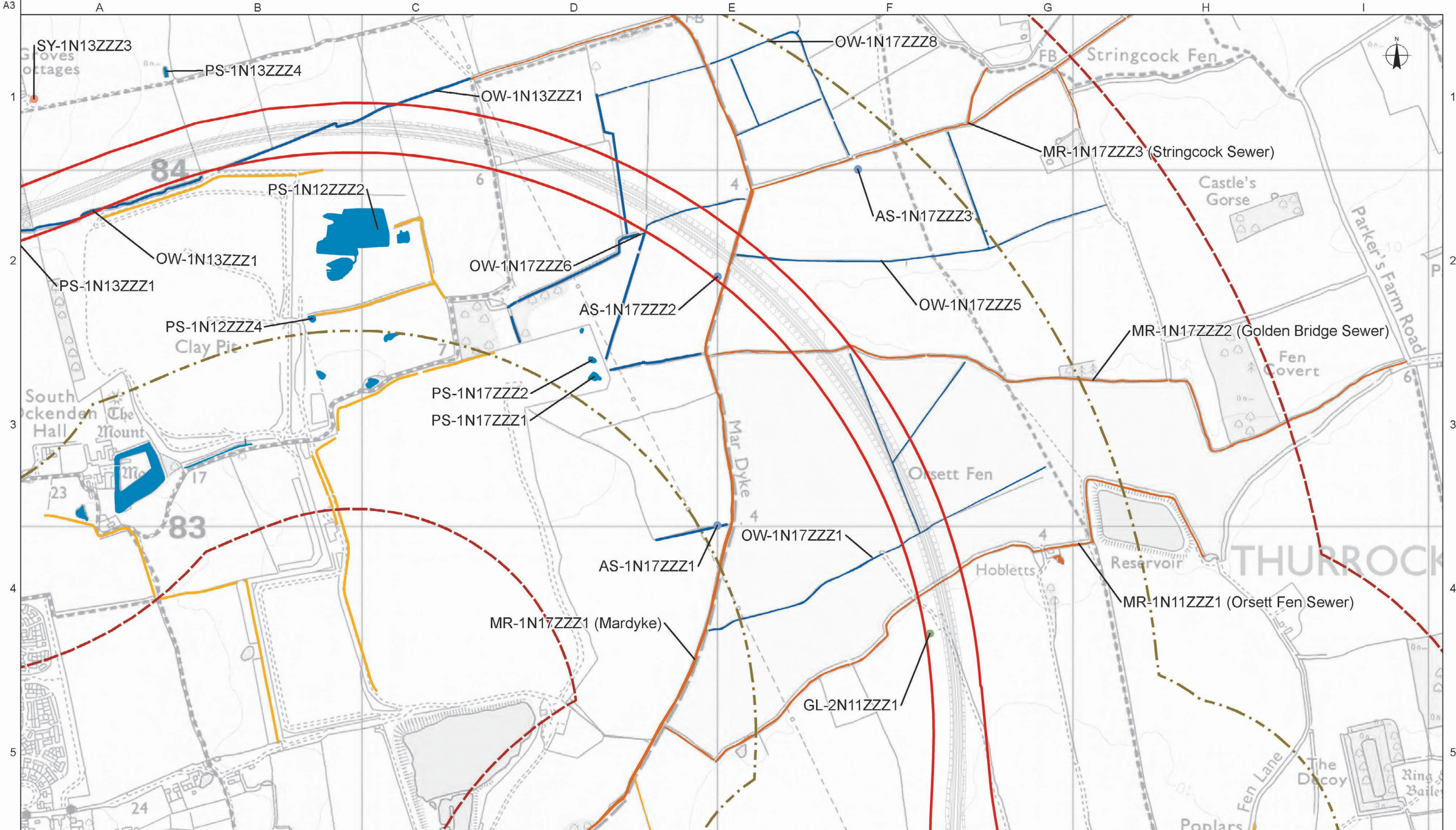
Drawing Title: **Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 6 of 9**

Scale at A3:
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Locator Map frame: **1:500,000**

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For Information	S2	P01

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Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area

Surface Water Features

- Surface water abstraction, licensed
- Surface water discharge, permitted
- Surface waterbody, ditch
- Surface waterbody, ordinary watercourse
- Surface waterbody, EA designated main river
- Surface waterbody, ditch
- Surface waterbody, lake or pond
- Surface waterbody, ordinary watercourse

Groundwater Features

- Groundwater abstraction, well, licensed

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

Main Map frame (Metres)	
0	500

Locator Map frame (Kilometres)	
0	40

Client: **highways england**

Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

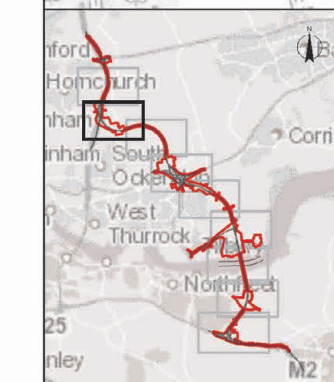
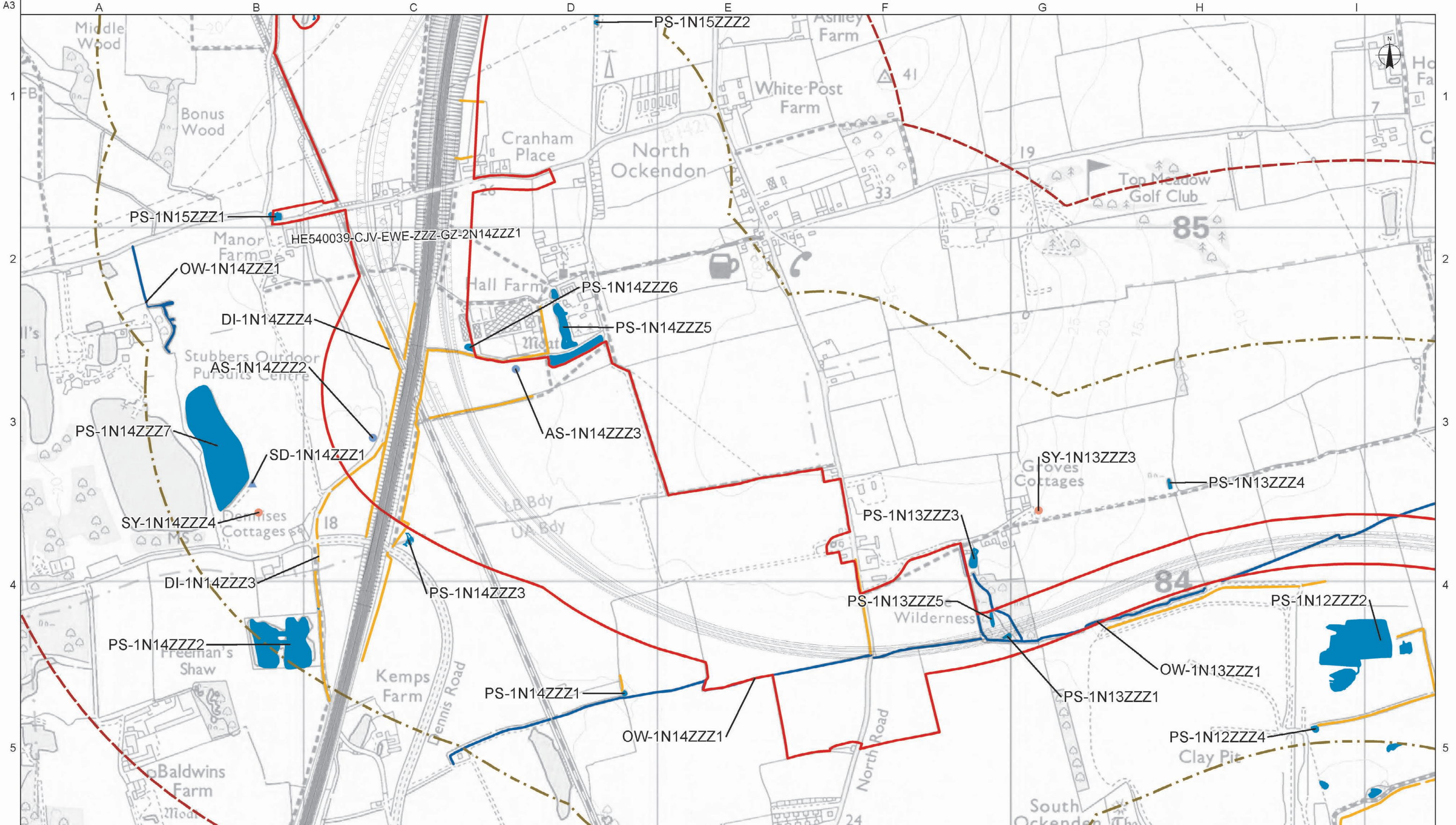
Drawing Title: **Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 7 of 9**

Suitability	Status	Revision
For Information	S2	P01

Drawing Number: HE540039-CJV-EWE-SZP_EGNE00000000-DR-LE-40055

Scale at A3: Main Map frame 1:10,000; Locator Map frame: 1:500,000

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Legend:

- Design Release 2 (DR2) Route Alignment
- DR2 Development Boundary
- 500m Study Area
- 1km Study Area

Surface Water Features

- Surface water abstraction, deregulated/no licence
- Surface water abstraction, licensed
- Surface water discharge, permitted
- Surface waterbody, ditch
- Surface waterbody, ordinary watercourse
- Surface waterbody, ditch
- Surface waterbody, lake or pond
- Surface waterbody, ordinary watercourse

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

Main Map frame (Metres)

0 125 250 500

Locator Map frame (Kilometres)

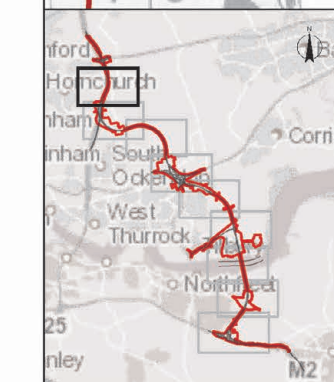
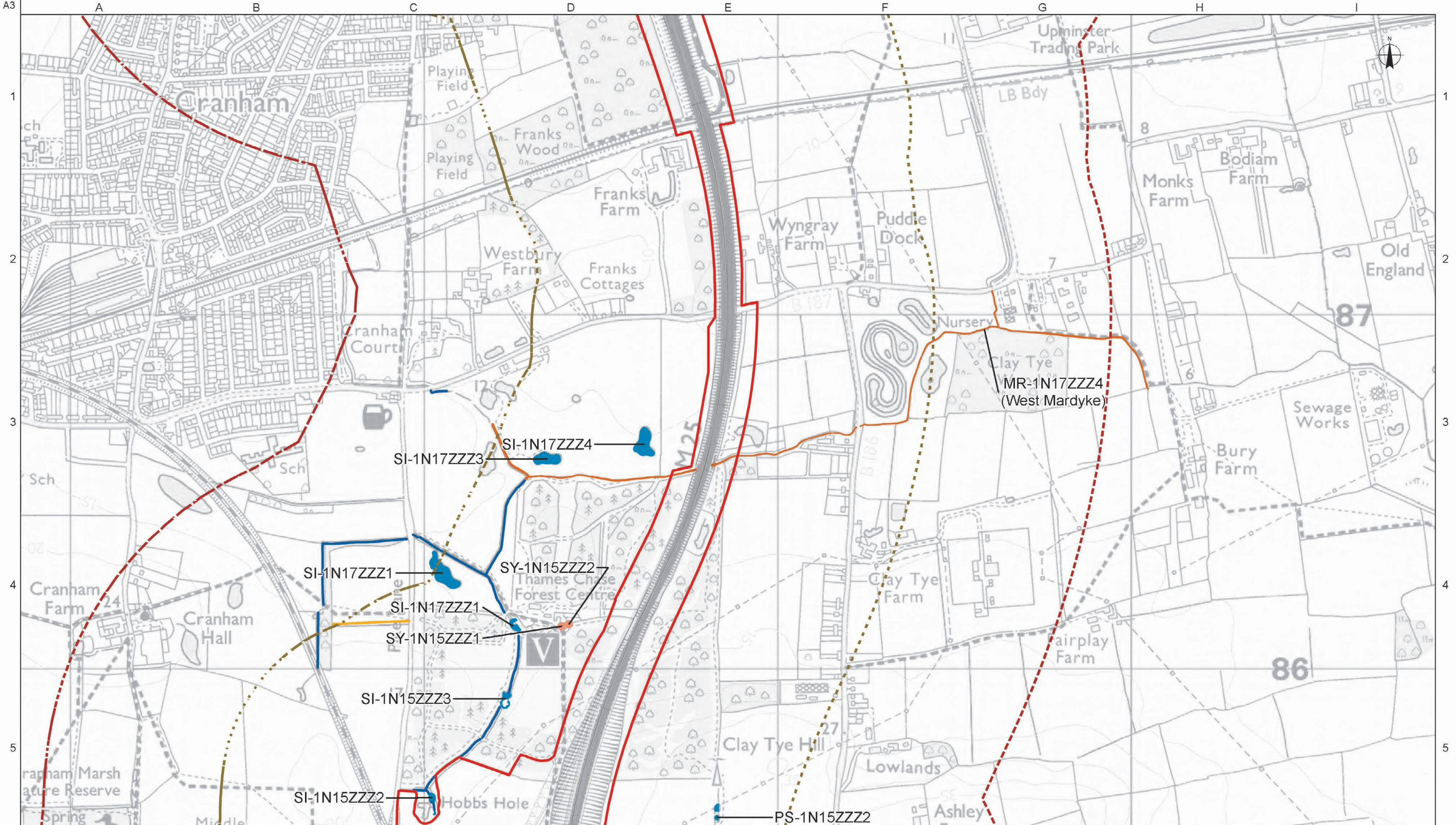
0 10 20 40

Client **highways england**

Project Title **LOWER THAMES CROSSING STATUTORY CONSULTATION**

Drawing Title **Figure 15.8 - Water Feature Survey Phase 1 (September 2017) Sheet 8 of 9**

Scale at A3	Main Map frame 1:10,000	
	Locator Map frame: 1:500,000	
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Suitability	Status	Revision
For Information	S2	P01
Drawing Number: HE540039-CJV-EWE-S2P_EGNE00000000-DR-LE-40055		



Legend:		Surface Water Features	
	Design Release 2 (DR2) Route Alignment		Surface water discharge, permitted
	DR2 Development Boundary		Surface waterbody, lake or pond
	500m Study Area		Surface waterbody, EA designated main river
	1km Study Area		Surface waterbody, ditch
			Surface waterbody, ordinary watercourse
			Surface waterbody, EA designated main river

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	JS	06/06/2018	KM	06/06/2018	RH	06/06/2018	For information

Main Map frame (Metres)	
0	500
Locator Map frame (Kilometres)	
0	40

Client			Scale at A3
			Main Map frame: 1:10,000
			Locator Map frame: 1:500,000
Project Title	LOWER THAMES CROSSING STATUTORY CONSULTATION		Copyright
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Drawing Title	Figure 15.8 - Water Feature Survey Phase 1 (September 2017)	Suitability	Status
	Sheet 9 of 9	For Information	S2
		Revision	P01
		Drawing Number	HE540039-CJV-EWE-SZP_EGNE0000000-DR-LE-40055