The Sizewell C Project

8.14 Water Framework Directive Compliance Assessment Report Appendix 3A Extended Water Body Summary Reports

Revision: 1.0

Applicable Regulation: Regulation 5(2)(q)

PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

APPENDIX 3A:

EXTENDED WATER BODY SUMMARY REPORTS

Contents

A1 Alde - Ore (d/s confluence) (GB105035045950)

Extended Waterbody Summary Report

20 December 2018
11:31:10

Environment Agency

Alde - Ore (d/s confluence)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035045950	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	637624	
AREA (km2)		NORTHING	258185	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Moderate	Moderate	Good		High	Moderate		Moderate	High	Good	High	DNSG
2014	Poor	Poor	Good		High	Poor	Good	Moderate	High	Good	High	DNSG
2015	Moderate	Moderate	Good		High	Moderate	Good	Moderate	High	Poor	High	DNSG
2016	Moderate	Moderate	Good		High	Moderate	Good	Moderate	High	Moderate	High	DNSG

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

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Environment Agency

Alde - Ore (d/s confluence)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good		Good	Moderate	Good	Moderate	Good	Good	Good	DNSG
- Objective Year	2015	2015	2015		2015	2015	2015	2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good		High	Moderate	Good	Moderate	High	Good	High	DNSG
2027 - Predicted	Moderate	Moderate	Good		High	Moderate	Good	Moderate	High	Good	High	DNSG

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Abstraction & Flow
Probably Not At Risk	Eutrophication, Physical modification, Sediment

Alde - Ore (d/s confluence)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Alde - Ore (d/s confluence)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor soil management	Fish	Agriculture - Arable	Sediment
			Agriculture and rural land management	Not applicable
Confirmed	**Confirmed**		**Confirmed**	
Diffuse source	Poor soil management	Phosphate	Agriculture - Arable	
			Agriculture and rural land management	
Confirmed	**Confirmed**		**Confirmed**	
Diffuse source	Livestock	Phosphate	Agriculture - Livestock	
			Agriculture and rural land management	
Probable	**Probable**		**Suspected**	
Flow	Groundwater abstraction	Fish		Hydrology
			Agriculture and rural land management	Not applicable
Suspected	**Suspected**		**Suspected**	
Flow	Groundwater abstraction	Fish	Not applicable	Hydrology
			Water Industry	Not applicable
Suspected	**Suspected**		**Suspected**	
Flow	Groundwater abstraction	Hydrological Regime		
			Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	
Flow	Groundwater abstraction	Hydrological Regime	Not applicable	
			Water Industry	
Suspected	**Suspected**		**Suspected**	

Alde - Ore (d/s confluence)

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Point source	Sewage discharge (continuous)	Dissolved oxygen	Waste water treatment Water Industry	
Probable	**Probable**		**Probable**	
Point source	Sewage discharge (continuous)	Fish	Waste water treatment Water Industry	Nutrients Phosphate
Confirmed	**Confirmed**		**Confirmed**	
Point source	Sewage discharge (continuous)	Phosphate	Waste water treatment Water Industry	
Confirmed	**Confirmed**		**Confirmed**	
Point source	Sewage discharge (intermittent)	Phosphate	Waste water treatment Water Industry	
Probable	**Probable**		**Suspected**	

Waterbody Level Measure Actions

Wider Area Measures Actions

Alde - Ore (d/s confluence)

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Alde - Ore (d/s confluence)

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Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
33	ALDE & ORE CATCHMENT/RIVER ALDE (MAIN REACHES)/U/S	NFPD	Site in adjacent downstream water body	635900	260200	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Moderate
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info

Alde - Ore (d/s confluence)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

150126	LANGHAM BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	637500	258100	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Macrophytes Sub Element	Good

Alde - Ore (d/s confluence)

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54769	LANGHAM BRIDGE	BIOSYS	Site in water body	637500	258150	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	High

Alde - Ore (d/s confluence)

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35	ALDE & ORE CATCHMENT/RIVER ALDE (MAIN REACHES)/U/S	NFPD	Site in water body	637292	258117	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Extended Waterbody Summary Report

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Alde - Ore (d/s confluence)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

ALD030	R.ALDE LANGHAM BRIDGE	WIMS	Unknown	637500	258150	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Moderate
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

A2 Alde & Ore (GB520503503800)

Extended Waterbody Summary Report

20 December 2018
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Environment Agency

ALDE & ORE

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB520503503800	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	Transitional	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	641502	
AREA (km2)		NORTHING	257141	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Anglian TraC
OP CATCHMENT	Suffolk TraC

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	YES	NO	YES	NO	YES

Classifications

Year	Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Opportunistic Macroalgae	Rocky Shore Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
2013	Moderate	Moderate	Good	Good							High		High	Moderate	DNSG	High
2014	Moderate	Moderate	Good	Good							High		High	Moderate	DNSG	High
2015	Moderate	Moderate	Good	Good		Good	Good		Good		High		High	Moderate	DNSG	High
2016	Moderate	Moderate	Good	Good		Good	Good		Good		High		High	Moderate	DNSG	High

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

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ALDE & ORE

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Objectives and Predicted Outcomes

Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
- Objective														
Moderate	Moderate	Good	Good		Good	Good				Good	Good	Moderate	Sup Good	High
- Objective Year														
2015	2015	2015	2015		2015	2015				2015	2015	2015	2027	2015
2021 - Predicted														
Moderate	Moderate	Good	Good		Good	Good				High	High	Moderate	DNSG	High
2027 - Predicted														
Moderate	Moderate	Good	Good		Good	Good				High	High	Moderate	Sup Good	High

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow
Not Assessed	
Not At Risk	Eutrophication
Probably At Risk	Abstraction & Flow
Probably Not At Risk	

Extended Waterbody Summary Report

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Environment Agency

ALDE & ORE

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Element Level

Risk	Elements
At Risk	
Not Assessed	Benzo(a)pyrene, Di(2-ethylhexyl)phthalate (DEHP), Fluoranthene, Mercury, Nonylphenol, Polybrominateddiphenylether (PBDE), Tributyltin (TBT), Triclosan
Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Colonial tunicate (non-native Didemnum spp.), Copper, Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Giant hogweed (Heracleum mantegazzianum), Lead, Leathery sea squirt (Styela clava), Nickel, Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora), Zebra mussel (Dreissena polymorpha), Zinc
Probably At Risk	Chinese mitten crab (Eriocheir sinensis), Overall INNS pressure
Probably Not At Risk	American oyster drill (Urosalpinx cinerea), Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Common carp (Cyprinus carpio), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Freshwater amphipod (Dikerogammarus villosus), Giant knotweed (Fallopia sachalensis), Goldfish (Carassius auratus), Himalayan balsam (Impatiens glandulifera), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Marine tubeworm (Ficopomatus enigmaticus), Mysid crustacean (Hemimysis anomola), North American signal crayfish (Pacifastacus leniusculus), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis)

ALDE & ORE

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor nutrient management	Dissolved Inorganic Nitrogen	Agriculture - Arable Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	
Point source	Sewage discharge (continuous)	Dissolved Inorganic Nitrogen	Waste water treatment Water Industry	
Suspected	**Suspected**		**Suspected**	
Unknown (pending investi	Unknown (pending investigation)	Dissolved Inorganic Nitrogen	Not applicable Unknown (pending investigation)	
Not applicable	Not applicable		Not applicable	
Unknown (pending investi	Unknown (pending investigation)	Hydrological Regime	Not applicable Unknown (pending investigation)	
Not applicable	Not applicable		Not applicable	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
30858	GEP MEASURES IN PLACE AS AT GOOD	**1. Mitigation Measure** **2.** **3.**		Completed (cost beneficial) AN Eastern, Catchment Delivery Team

Wider Area Measures Actions

ALDE & ORE

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Extended Waterbody Summary Report

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Environment Agency

ALDE & ORE

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Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function												Structural modification						Operations and maintenance																	Water management					Habitat creation	Navigation		Education		Recreation	
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Flood protection use	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable						Not Applicable			Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable							Not Applicable								

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
OAE029	R.ORE/ALDE HOME REACH SW OF MARTELLO TWR	WIMS	Site in water body	646100	254700	TraC Chemicals C1

Classifications

Zinc	High

ALDE & ORE

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

OAE050	BUTLEY R. OYSTERAGE (ORE/ALDE ESTUARY)	WIMS	Site in water body	639600	248500	TraC Chemicals C1

Classifications

Zinc	High

A3 Blyth (S) (GB510503503700)

Extended Waterbody Summary Report

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Environment Agency

BLYTH (S)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB510503503700	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	Transitional	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	646818	
AREA (km2)		NORTHING	275782	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Anglian TraC
OP CATCHMENT	Suffolk TraC

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	YES

Classifications

Year	Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Opportunistic Macroalgae	Rocky Shore Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
2013	Moderate	Moderate	Good	Good									High		Sup Good	Moderate
2014	Moderate	Moderate	Good	Good									High	Moderate	Sup Good	Moderate
2015	Moderate	Moderate	Good	Good							Good		High	Moderate	Sup Good	
2016	Moderate	Moderate	Good	Good							Good		High	Moderate	Sup Good	

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
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Environment Agency

BLYTH (S)

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Objectives and Predicted Outcomes

Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
- Objective														
Moderate	Moderate	Good	Good							Good	Good	Moderate	Sup Good	Not assessed
- Objective Year														
2015	2015	2015	2015							2015	2015	2015	2015	2015
2021 - Predicted														
Moderate	Moderate	Good	Good							Good	High	Moderate	Sup Good	Not assessed
2027 - Predicted														
Moderate	Moderate	Good	Good							Good	High	Moderate	Sup Good	Not assessed

Risks

Pressure Level

Risk	Elements
At Risk	
Not Assessed	Eutrophication
Not At Risk	Abstraction & Flow
Probably At Risk	
Probably Not At Risk	

BLYTH (S)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Colonial tunicate (non-native Didemnum spp.), Overall INNS pressure
Not Assessed	Benzo(a)pyrene, Copper, Di(2-ethylhexyl)phthalate (DEHP), Fluoranthene, Mercury, Nonylphenol, Polybrominateddiphenylether (PBDE), Tributyltin (TBT), Triclosan
Not At Risk	Australian swamp stonecrop (Crassula helmsii), Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Giant hogweed (Heracleum mantegazzianum), Leathery sea squirt (Styela clava), Parrot's feather (Myriophyllum aquaticum), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora), Zebra mussel (Dreissena polymorpha)
Probably At Risk	Chinese mitten crab (Eriocheir sinensis), Zinc
Probably Not At Risk	American oyster drill (Urosalpinx cinerea), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Common carp (Cyprinus carpio), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Freshwater amphipod (Dikerogammarus villosus), Giant knotweed (Fallopia sachalensis), Goldfish (Carassius auratus), Himalayan balsam (Impatiens glandulifera), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Marine tubeworm (Ficopomatus enigmaticus), Mysid crustacean (Hemimysis anomola), Nickel, North American signal crayfish (Pacifastacus leniusculus), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Slipper limpet (Crepidula fornicata), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis)

BLYTH (S)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor nutrient management	Dissolved Inorganic Nitrogen	Agriculture - Arable Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	
Other pressures	Unknown (pending investigation)	Dissolved Inorganic Nitrogen	Not applicable Unknown (pending investigation)	
Confirmed	Not applicable		Not applicable	
Point source	Sewage discharge (continuous)	Dissolved Inorganic Nitrogen	Waste water treatment Water Industry	
Suspected	**Suspected**		**Suspected**	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
32919	Mitigation measures deemed to be in place fRBMP	**1. Mitigation Measure** **2.** **3.**		Completed (cost beneficial) AN Eastern, Catchment Delivery Team

Wider Area Measures Actions

BLYTH (S)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Extended Waterbody Summary Report

20 December 2018
11:33:42

BLYTH (S)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function													Structural modification							Operations and maintenance																									Water management					Habitat creation	Navigation		Education		Recreation
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Coast protection use	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable						Not Applicable			Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable									Not Applicable											Not Applicable								
Flood protection use	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not Applicable			Not Applicable	In Place	Not Applicable	Not Applicable						Not Applicable			Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable									Not Applicable											Not Applicable								

BLYTH (S)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
168703	BLYTH (S) (WHOLE WB) MACROALGAE	BIOSYS	Site in water body	646800	275800	

Classifications

A4 Bucklesham Mill River GB105035040280

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Environment Agency

Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035040280	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	625155	
AREA (km2)		NORTHING	243180	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Deben

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	YES	YES

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Poor	Poor	Good		High	Poor			High	High	High	DNSG
2014	Poor	Poor	Fail		High	Poor	Good	High	High	High	High	DNSG
2015	Poor	Poor	Good		High	Poor	Good	High	High	Good	High	DNSG
2016	Poor	Poor	Good		High	Poor	Good	High	High	Good	High	DNSG

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

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Environment Agency

Bucklesham Mill River

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Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Poor	Poor	Good		Good	Poor	Good	Good	Good	Good	Good	Sup Good
- Objective Year	2015	2015	2015		2015	2015	2015	2015	2015	2015	2015	2021
2021 - Predicted	Poor	Poor	Good		High	Poor	Good	High	High	High	High	Sup Good
2027 - Predicted	Poor	Poor	Good		High	Poor	Good	High	High	High	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Sediment
Probably Not At Risk	Eutrophication, Physical modification

Bucklesham Mill River

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Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Copper, Giant knotweed (Fallopia sachalensis), Lead, Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Nickel, Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Mysid crustacean (Hemimysis anomola), Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Flow	Surface water abstraction	Hydrological Regime	Water supply Water Industry	
Confirmed	**Probable**		**Probable**	
Flow	Surface water abstraction	Hydrological Regime	Agriculture - Arable Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	
Natural	Natural conditions - other	Fish	Not applicable Not applicable	Not applicable Not applicable
Confirmed	**Confirmed**		Not applicable	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
38779	Change in abs lic condtn(s) to addrss pot. serious damage at full license, Bucklesham Mill River	**1. To control or manage abstraction** **2. Control pattern/timing of abstraction** **3. Hands Off Flow**		Confirmed cost beneficial Integrated Environment Planning

Wider Area Measures Actions

Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
152575	BRIGHTWELL BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	625013	243183	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Macrophytes Sub Element	Good

Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

54879	BRIGHTWELL BRIDGE (A1093)	BIOSYS	Site in water body	625000	243200	River Invertebrates C1, River diatoms (Phytobenthos) C1, River Macrophytes C1

Classifications

Invertebrates	High

54880	IPSWICH INTAKE	BIOSYS	Site in water body	627000	242000	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Bucklesham Mill River

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53	DEBEN CATCHMENT/TIDAL DEBEN SUB CATCHMENT/BUCKLESHAM	NFPD	Site in water body	625002	243202	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Moderate
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Bucklesham Mill River

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54	DEBEN CATCHMENT/TIDAL DEBEN SUB CATCHMENT/BUCKLESHAM	NFPD	Site in water body	627100	242000	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

MIL020	BUCKLESHAM MILL R.A1093 BRIGHTWELL RD.BR	WIMS	Unknown	625000	243200	River Phys-Chem C1, River Chemicals C1

Classifications

Acid Neutralising Capacity	High
Ammonia (Phys-Chem)	High
Arsenic	High
Cadmium and Its Compounds	Good
Copper	High
Dissolved oxygen	High
Iron	High
Lead and Its Compounds	Good
Mercury and Its Compounds	Good
Nickel and Its Compounds	Good
pH Lower	High
pH Upper	High
Phenol	High
Phosphate	High
Temperature	High
Zinc	High

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Bucklesham Mill River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

MIL030	BUCKLESHAM MILL R. IPSWICH WATER INTAKE	WIMS	Unknown	627000	242000	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Biochemical Oxygen Demand (BOD)	High
Copper	High
Dissolved oxygen	Moderate
pH Lower	High
pH Upper	High
Phosphate	High
Temperature	High

A5 Coddenham Watercourse GB105035046100

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17 July 2019
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Environment Agency

Coddenham Watercourse

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046100	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	614045	
AREA (km2)		NORTHING	253669	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Gipping

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Good	Good	Good									High
2014	Good	Good	Good									High
2015	Moderate	Moderate	Good					Moderate	High	High	High	High
2016	Moderate	Moderate	Good					Moderate	High	High	High	High

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

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Environment Agency

Coddenham Watercourse

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good					Moderate	Good	Good	Good	Sup Good
- Objective Year	2015	2015	2015					2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good					Moderate	High	High	High	High
2027 - Predicted	Moderate	Moderate	Good					Moderate	High	High	High	High

Risks

Pressure Level

Risk	Elements
At Risk	
Not Assessed	Phosphorus
Not At Risk	Abstraction & Flow, Sanitary pollutants
Probably At Risk	
Probably Not At Risk	Eutrophication, Physical modification, Sediment

Coddenham Watercourse

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Freshwater amphipod (Dikerogammarus villosus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), North American signal crayfish (Pacifastacus leniusculus), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Floating pennywort (Hydrocotyle ranunculoides), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, North American signal crayfish (Pacifastacus leniusculus), Parrot's feather (Myriophyllum aquaticum), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Virile crayfish (Orconectes virilis), Zebra mussel (Dreissena polymorpha), Zinc

Coddenham Watercourse

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor Livestock Management	Phosphate	Agriculture - Livestock Agriculture and rural land management	
Confirmed	Confirmed		Confirmed	
Diffuse source	Poor nutrient management	Phosphate	Agriculture - Arable Agriculture and rural land management	
Confirmed	Confirmed		Confirmed	
Point source	Sewage discharge (continuous)	Phosphate	Waste water treatment Water Industry	
Confirmed	Confirmed		Confirmed	
Point source	Private Sewage Treatment	Phosphate	Urban Urban and Transport	
Probable	Probable		Probable	

Waterbody Level Measure Actions

Wider Area Measures Actions

Coddenham Watercourse

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Coddenham Watercourse

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Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
160490	BRIDGE PLACE BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	611199	254808	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

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Coddenham Watercourse

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

GIP146	CODDENHAM W\C B1078 NEEDHAM ROAD BR.	WIMS	Unknown	611996	254457	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	High
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

A6 Deben (GB520503503900)

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Environment Agency

DEBEN

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB520503503900	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	Transitional	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	629509	
AREA (km2)		NORTHING	244015	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Anglian TraC
OP CATCHMENT	Suffolk TraC

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	YES	NO	NO	NO	YES

Classifications

Year	Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Opportunistic Macroalgae	Rocky Shore Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
2013	Moderate	Moderate	Good	Mod/less	High	Good					High		High	Moderate	Sup Good	Moderate
2014	Moderate	Moderate	Good	Mod/less	High	Good					High		High	Moderate	Sup Good	Moderate
2015	Moderate	Moderate	Good	Mod/less	High	Good					High		High	Moderate	Sup Good	High
2016	Moderate	Moderate	Good	Mod/less	High	Good					High		High	Moderate	Sup Good	High

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

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Environment Agency

DEBEN

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
- Objective														
Moderate	Moderate	Good	Good	Good	Good					Good	Good	Moderate	Sup Good	High
- Objective Year														
2015	2015	2015	2027	2015	2015					2015	2015	2015	2015	2015
2021 - Predicted														
Moderate	Moderate	Good	Mod/less	High	Good					High	High	Moderate	Sup Good	High
2027 - Predicted														
Moderate	Moderate	Good	Good	High	Good					High	High	Moderate	Sup Good	High

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow
Not Assessed	
Not At Risk	Eutrophication
Probably At Risk	Abstraction & Flow
Probably Not At Risk	

DEBEN

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Overall INNS pressure, Slipper limpet (Crepidula fornicata)
Not Assessed	Benzo(a)pyrene, Di(2-ethylhexyl)phthalate (DEHP), Fluoranthene, Mercury, Nonylphenol, Polybrominateddiphenylether (PBDE), Tributyltin (TBT), Triclosan
Not At Risk	Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Copper, Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Giant hogweed (Heracleum mantegazzianum), Leathery sea squirt (Styela clava), Parrot's feather (Myriophyllum aquaticum), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora), Zebra mussel (Dreissena polymorpha)
Probably At Risk	Chinese mitten crab (Eriocheir sinensis), Zinc
Probably Not At Risk	American oyster drill (Urosalpinx cinerea), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Common carp (Cyprinus carpio), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Freshwater amphipod (Dikerogammarus villosus), Giant knotweed (Fallopia sachalensis), Goldfish (Carassius auratus), Himalayan balsam (Impatiens glandulifera), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Marine tubeworm (Ficopomatus enigmaticus), Mysid crustacean (Hemimysis anomola), Nickel, North American signal crayfish (Pacifastacus leniusculus), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis)

DEBEN

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor nutrient management	Dissolved Inorganic Nitrogen	Agriculture - Arable Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	
Physical modification	Other (not in list, must add details in com	Mitigation Measures Assessment	Not applicable Central Government	Flood protection use
Confirmed	**Confirmed**		**Confirmed**	
Point source	Sewage discharge (continuous)	Dissolved Inorganic Nitrogen	Waste water treatment Water Industry	
Suspected	**Suspected**		**Suspected**	
Unknown (pending investi	Unknown (pending investigation)	Dissolved Inorganic Nitrogen	Not applicable Unknown (pending investigation)	
Not applicable	Not applicable		Not applicable	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
32920	Managed realignment of flood defence	**1. Mitigation Measure** **2.** **3.**		Scheduled for implementation (not cost AN Eastern, Coastal Management

DEBEN

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32921	Mitigation measures deemed to be in place fRBMP	**1. Mitigation Measure** **2.** **3.**	Completed (cost beneficial) AN Eastern, Catchment Delivery Team

Wider Area Measures Actions

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Environment Agency

DEBEN

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function												Structural modification						Operations and maintenance																					Water management							Habitat creation	Navigation		Education			Recreation	
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Flood protection use	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not Applicable			Not Applicable	In Place	Not Applicable	Not Applicable						Not In Place			Not Applicable			Not Applicable	Not Applicable																		Not Applicable							Not Applicable										

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
DEB120	R.DEBEN METHERSGATE QUAY	WIMS	Site in water body	628200	246400	TraC Chemicals C1

Classifications

Copper	High

DEBEN

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

159862 **Classifications**	DEBEN ESTUARY OPPORTUNISTIC MACROALGAE	BIOSYS	Site in water body	630640	241182
159861 **Classifications**	ALDE & ORE OPPORTUNISTIC MACROALGAE	BIOSYS	Site in water body	632800	238300

DEBEN

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

A7 Felixstowe Peninsula Crag & Chalk GB40501G401800

Extended Waterbody Summary Report

17 July 2019
14:04:16

Environment Agency

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB40501G401800	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	Groundwater	DESIGNATION	Not Applicable	
LENGTH (km)		EASTING	622800	
AREA (km2)		NORTHING	243018	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Anglian GW
OP CATCHMENT	Felixstowe Peninsula Crag and Chalk

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	YES	NO

Classifications

Yea	Overall	Chemical	Quantitative	Trend Assessment	Supporting Elements (Groundwater)
2013	Poor	Poor	Good	No trend	
2014	Poor	Poor	Good	No trend	
2015	Poor	Poor	Good	No trend	
2016	Poor	Poor	Good	No trend	

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

17 July 2019
14:04:17

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Chemical	Quantitative	Trend Assessment	Supporting Elements (Groundwater)
- Objective	Poor	Poor	Good		
- Objective Year	2015	2015	2015		
2021 - Predicted	Poor	Poor	Good		
2027 - Predicted	Poor	Poor	Good		

Risks

Pressure Level

Risk	Elements
At Risk	
Not At Risk	
Probably At Risk	
Probably Not At Risk	

Extended Waterbody Summary Report

17 July 2019
14:04:17

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Abstraction impact on saline intrusion, General chemical assessment, Overall chemical assessment, Overall quantitative assessment, Saline intrusion
Not At Risk	Impact on surface water chemistry and ecology
Probably At Risk	Abstraction impact on dependent terrestrial ecocsystems, Abstraction impact on surface water, Abstraction impact on water balance, Impact on dependent terrestrial ecosystems
Probably Not At Risk	Impact on Drinking Water protected areas, Trend assessment

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor Livestock Management	General Chemical Test	Agriculture - Livestock Agriculture and rural land management	
Confirmed	**Probable**		**Probable**	
Diffuse source	Poor nutrient management	General Chemical Test	Agriculture - Arable Agriculture and rural land management	
Confirmed	**Probable**		**Probable**	
Point source	Farm/site infrastructure	General Chemical Test	Agriculture and rural land management	
Confirmed	**Suspected**		**Suspected**	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
14128	Field & Crop - Arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**		New AN Eastern, EM Land & Water
14132	Field & Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**		New AN Eastern, EM Land & Water

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

14130	Field & Crop - Nutrients / Other Rural sources	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Nutrients**	New AN Eastern, EM Land & Water
14083	Generic action - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, Integrated Environment Planning
14091	Generic action - Field & Crop - Nutrients/ Other Rural Nutrient Sources	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Nutrients**	New AN Eastern, Integrated Environment Planning
14090	Generic action - Field and Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, Integrated Environment Planning
14082	Generic Action for Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, Integrated Environment Planning

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

14127	Surface Run-off and drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water

Wider Area Measures Actions

Felixstowe Peninsula Crag & Chalk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Monitoring Sites

A8 Hundred River (GB 105035046260)

Extended Waterbody Summary Report

20 December 2018
11:29:44

Environment Agency

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046260	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	644066	
AREA (km2)		NORTHING	260879	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Bad	Bad	Good	Mod/less	Good	Bad						DNSG
2014	Poor	Poor	Good	Mod/less	High	Poor						DNSG
2015	Bad	Bad	Good	Good		Bad	Good	Moderate	High	Bad	High	DNSG
2016	Moderate	Moderate	Good	Good		Bad		Moderate	High	Bad	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
11:29:45

Environment Agency

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Bad	Bad	Good	Good		Bad	Good	Moderate	Good	Bad	Good	DNSG
- Objective Year	2015	2015	2015	2015		2015	2015	2015	2015	2015	2015	2015
2021 - Predicted	Bad	Bad	Good	Good		Bad	Good	Moderate	High	Bad	High	DNSG
2027 - Predicted	Bad	Bad	Good	Good		Bad	Good	Moderate	High	Bad	High	DNSG

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow, Physical modification, Sediment
Not Assessed	Phosphorus
Not At Risk	Abstraction & Flow, Sanitary pollutants
Probably At Risk	
Probably Not At Risk	Eutrophication

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Hundred River

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Natural	Drought	Dissolved oxygen	Not applicable	
			Not applicable	
Confirmed	Confirmed		Not applicable	
Natural	Drought	Fish	Not applicable	Other (not in list)
			Not applicable	Not applicable
Confirmed	Confirmed		Not applicable	
Point source	Sewage discharge (continuous)	Phosphate	Waste water treatment	
			Water Industry	
Confirmed	Confirmed		Confirmed	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
32944	Mitigation measures deemed to be in place fRBMP	**1. Mitigation Measure**		Completed (cost beneficial)
		2.		
		3.		AN Eastern, Catchment Delivery Team
32943	Retain woody debris where appropriate	**1. Mitigation Measure**		Confirmed cost beneficial
		2.		
		3.		AN Eastern, Asset Performance

Wider Area Measures Actions

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Wider Area Measures Actions

Extended Waterbody Summary Report

20 December 2018
11:29:46

Environment Agency

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function													Structural modification							Operations and maintenance																					Water management							Habitat creation		Navigation			Education			Recreation	
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Flood protection	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not Applicable			Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable				Not Applicable		Not Applicable	Not Applicable	Not Applicable													In Place	In Place	In Place	In Place	Not Applicable	In Place	Not Applicable	In Place	Not Applicable						Not Applicable						Not Applicable		

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
631	YOX & MINSMERE CATCHMENT/THORPENESS HUNDRED	NFPD	Site in water body	643400	260800	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Bad
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

149973	PRIORY MARSHES (A12 BRIDGE) MACROPHYTE SURVEY SITE	BIOSYS	Unknown	646300	279100

Classifications

Macrophytes Sub Element	High

54974	HILL FARM BRIDGE	BIOSYS	Unknown	646100	277900

Classifications

Hundred River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

THP006	THORPENESS HUNDRED R. B1122 ALDRINGHAM	WIMS	Unknown	644600	260700	River Chemicals C1, River Phys-Chem C1

Classifications

Iron	High

THP020	THORPENESS HUNDRED R. AT TIDAL SLUICE	WIMS	Unknown	646780	258320	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Bad
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

A9 Leiston Beck (GB105035046271)

Extended Waterbody Summary Report

20 December 2018
11:28:48

Environment Agency

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046271	CYCLE / LATEST VERSION	Cycle 2	1
TYPE	River	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	646927	
AREA (km2)		NORTHING	264490	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	YES	NO	YES

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Moderate	Moderate	Good					Bad	High	Good	High	DNSG
2014	Moderate	Moderate	Good		Good			Bad	High	Good	High	DNSG
2015	Moderate	Moderate	Good	Mod/less	Good			Good	High	Good	High	Sup Good
2016	Moderate	Moderate	Good	Mod/less	Good			Poor	Good	Bad	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
11:28:48

Environment Agency

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Good	Good	Good	Good	Good		Not assessed	Good	Good	Good	Good	Sup Good
- Objective Year	2027	2027	2015	2027	2015		2015	2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good	Mod/less	Good		Not assessed	Good	High	Good	High	Sup Good
2027 - Predicted	Good	Good	Good	Good	Good		Not assessed	Good	High	Good	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow, Physical modification
Not Assessed	Phosphorus
Not At Risk	Sediment
Probably At Risk	Abstraction & Flow, Eutrophication, Sanitary pollutants
Probably Not At Risk	

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Physical modification	Other (not in list, must add details in com	Mitigation Measures Assessment	Not applicable Unknown (pending investigation)	Land drainage
Confirmed	Confirmed		Confirmed	
Point source	Sewage discharge (continuous)	Dissolved oxygen	Waste water treatment Water Industry	
Confirmed	Confirmed		Confirmed	
Point source	Sewage discharge (continuous)	Phosphate	Waste water treatment Water Industry	
Confirmed	Confirmed		Confirmed	

Waterbody Level Measure Actions

Wider Area Measures Actions

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Extended Waterbody Summary Report

20 December 2018
11:28:49

Environment Agency

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function													Structural modification							Operations and maintenance																					Water management						Habitat creation	Navigation		Education		Recreation	
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Land drainage	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not In Place			Not In Place	Not In Place	Not In Place		Not In Place	Not In Place	Not In Place	Not In Place	Not In Place				Not In Place		Not In Place	Not In Place	Not In Place													Not In Place	Not In Place	Not In Place	Not In Place	Not In Place	Not In Place	Not In Place	Not In Place	Not In Place						Not In Place								

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
MIN035	LEISTON BECK AT RECKHAM PITS WOOD BR.	WIMS	Site in water body	646130	263730	

Classifications

Ammonia (Phys-Chem)	Good
Dissolved oxygen	Bad
pH Lower	High
pH Upper	High

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Phosphate	Poor
Temperature	High

149964	RECKFORD BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Unknown	643700	267700

Classifications

Macrophytes Sub Element	Moderate

54882	YOXFORD BRIDGE (A12)	BIOSYS	Unknown	639900	268900

Classifications

Invertebrates	Good

Extended Waterbody Summary Report

20 December 2018
11:28:50

Leiston Beck

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

54884	EAST BRIDGE	BIOSYS	Unknown	645300	266400

Classifications

Invertebrates	Good

A10 Minsmere Old River (GB105035046270)

Extended Waterbody Summary Report

20 December 2018
11:29:16

Environment Agency

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046270	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	646552	
AREA (km2)		NORTHING	266200	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	YES	NO	YES

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Moderate	Moderate	Good	Mod/less					High	Good	High	Sup Good
2014	Moderate	Moderate	Good	Mod/less	Good				High	Good	High	Sup Good
2015	Moderate	Moderate	Good	Mod/less	Good	Poor		Good	High	Good	High	Sup Good
2016	Moderate	Moderate	Good	Mod/less	Good	Poor		Good	High	Good	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
11:29:16

Environment Agency

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Good	Good	Good	Good	Good	Poor	Not assessed	Good	Good	Good	Good	Sup Good
- Objective Year	2027	2027	2015	2027	2015	2015	2015	2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good	Mod/less	Good	Poor	Not assessed	Good	High	Good	High	Sup Good
2027 - Predicted	Good	Good	Good	Good	Good	Poor	Not assessed	Good	High	Good	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	Physical modification
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Abstraction & Flow, Eutrophication, Sediment
Probably Not At Risk	Abstraction & Flow

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Physical modification	Barriers - ecological discontinuity	Fish	Not applicable	Morphology
			Conservation	Not applicable
Confirmed	Confirmed		Confirmed	
Physical modification	Land drainage - operational management	Fish	Not applicable	Morphology
			Agriculture and rural land management	Not applicable
Suspected	Suspected		Suspected	
Physical modification	Other (not in list, must add details in com	Mitigation Measures Assessment		Land drainage
			Agriculture and rural land management	
Confirmed	Confirmed		Confirmed	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
32945	Mitigation measures deemed to be in place fRBMP	1. Mitigation Measure 2. 3.		Completed (cost beneficial) AN Eastern, Catchment Delivery Team

Wider Area Measures Actions

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Extended Waterbody Summary Report

20 December 2018
11:29:18

Environment Agency

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function													Structural modification							Operations and maintenance																					Water management							Habitat creation		Navigation			Education			Recreation	
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Land drainage	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not In Place			Not In Place	Not In Place	Not In Place		Not In Place	Not In Place	Not In Place	Not In Place	Not In Place				Not In Place		Not In Place	Not In Place	Not In Place													In Place	In Place	In Place	In Place	Not In Place	In Place	Not In Place	Not In Place	Not In Place						Not In Place						Not In Place			

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
149964	RECKFORD BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	643700	267700	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Macrophytes Sub Element	Moderate

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

54882	YOXFORD BRIDGE (A12)	BIOSYS	Site in water body	639900	268900	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	Good

54884	EAST BRIDGE	BIOSYS	Site in water body	645300	266400	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	Good

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

47163	YOX & MINSMERE CATCHMENT/RIVER YOX / MINSMERE RIVER/A12	NFPD	Site in water body	639969	268929

Classifications

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

632	BLYTH CATCHMENT/DUNWICH RIVER/BRIDGE FARM/	NFPD	Unknown	647300	270700	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

MIN006	MINSMERE RIVER A12 RD.BR.YOXFORD	WIMS	Unknown	639900	268900	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Biochemical Oxygen Demand (BOD)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Good
Temperature	High

MIN010	MINSMERE RIVER RECKFORD BRIDGE	WIMS	Unknown	643700	267700	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Good
Temperature	High

Extended Waterbody Summary Report

20 December 2018
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Minsmere Old River

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

MIN020	MINSMERE RIVER EAST BRIDGE	WIMS	Unknown	645300	266400	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Poor
pH Lower	High
pH Upper	High
Phosphate	Good
Temperature	High

A11 River Alde (GB105035046060)

Extended Waterbody Summary Report

20 December 2018
11:30:12

Environment Agency

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046060	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	634154	
AREA (km2)		NORTHING	264913	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Poor	Poor	Good		High	Poor		High	High	Poor	High	DNSG
2014	Poor	Poor	Good		High	Poor	Moderate	High	High	Poor	High	DNSG
2015	Poor	Poor	Good		High	Poor	Moderate	High	High	Poor	High	Sup Good
2016	Poor	Poor	Good		High	Poor	Moderate	Good	High	Poor	High	DNSG

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
11:30:13

Environment Agency

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Good	Good	Good		Good	Good	Good	Good	Good	Good	Good	Sup Good
- Objective Year	2027	2027	2015		2015	2027	2027	2015	2015	2027	2015	2015
2021 - Predicted	Poor	Poor	Good		High	Poor	Moderate	High	High	Moderate	High	Sup Good
2027 - Predicted	Good	Good	Good		High	Good	Good	High	High	Good	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Abstraction & Flow, Sediment
Probably Not At Risk	Abstraction & Flow, Eutrophication, Physical modification

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Alde

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor soil management	Fish	Agriculture - Arable	Sediment
			Agriculture and rural land management	Not applicable
Probable	Probable		Probable	
Diffuse source	Riparian/in-river activities (inc bankside er	Macrophytes and Phytobenthos Com	Agriculture - Arable	Morphology
			Agriculture and rural land management	Not applicable
Confirmed	Confirmed		Confirmed	
Diffuse source	Track/rural road	Macrophytes and Phytobenthos Com	Roads	Morphology
			Agriculture and rural land management	Not applicable
Confirmed	Confirmed		Confirmed	
Flow	Unknown (pending investigation)	Hydrological Regime	Not applicable	
			Unknown (pending investigation)	
Suspected	Not applicable		Not applicable	
Natural	Drought	Fish	Not applicable	Dissolved oxygen
			Not applicable	Not applicable
Confirmed	Confirmed		Not applicable	
Physical modification	Barriers - ecological discontinuity	Fish	Environment, Farming, Rural	Morphology
			Central Government	Not applicable
Confirmed	Confirmed		Confirmed	
Point source	Domestic drainage	Dissolved oxygen	Not applicable	
			Domestic/General public	
Suspected	Suspected		Suspected	

Alde

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Point source	Farm/site infrastructure	Fish		Sediment
			Agriculture and rural land management	Not applicable
Probable	**Probable**		**Probable**	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
14082	Generic Action for Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**		New AN Eastern, Integrated Environment Planning
14080	Generic Barriers to Migration	**1. To improve modified habitat** **2. Removal or easement of barriers to fish migration** **3. Enable fish passage (e.g. fish pass)**		New AN Eastern, Integrated Environment Planning
14085	Generic Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**		New AN Eastern, Integrated Environment Planning
39237	Habitat improvement - East Suffolk Watershed Initiative	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Improvements to longitudinal connectivity**		Affordable Environment Programme

Alde

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40282	River Restoration at Benhall	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	Completed (cost beneficial) Integrated Environment Planning
19270	WB - Enable fish passage	**1. To improve modified habitat** **2. Removal or easement of barriers to fish migration** **3. Enable fish passage (e.g. fish pass)**	New AN Eastern, Fisheries, Recreation & Biodiversity
14129	WB specific increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Asset Performance
14123	WB specific measure-Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water
14136	WB specific-Surface Run-Off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water

Wider Area Measures Actions

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
54767	BRUISYARD ARCH	BIOSYS	Site in water body	633440	265600	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

54768	FARNHAM BRIDGE	BIOSYS	Site in water body	636000	260100	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	High

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

625	ALDE & ORE CATCHMENT/RIVER ALDE (HEADWATERS)/COLSTON	NFPD	Site in water body	631400	266600	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

626	ALDE & ORE CATCHMENT/RIVER ALDE (HEADWATERS)/BRUISYAR	NFPD	Site in water body	633300	265600	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

160494	U/S MARLESFORD BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	632700	257700	

Classifications

Macrophytes Sub Element	Moderate

ALD004	R.ALDE BRUISYARD ARCH	WIMS	Unknown	633400	265600	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Bad
pH Lower	High
pH Upper	High
Phosphate	Good
Temperature	High

Alde

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

ALD020	R.ALDE FARNHAM BRIDGE	WIMS	Unknown	636000	260100	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Moderate
pH Lower	High
pH Upper	High
Phosphate	High
Temperature	High

A12 River Deben (Brandeston Bridge - Melton) (GB105035046310)

Extended Waterbody Summary Report

17 July 2019
14:03:47

Environment Agency

Deben (Brandeston Bridge - Melton)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046310	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	629571	
AREA (km2)		NORTHING	256815	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Deben

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	YES

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Moderate	Moderate	Good	Mod/less	Good			Moderate	High	Moderate	High	DNSG
2014	Moderate	Moderate	Good	Mod/less	Good			Moderate	High	Moderate	High	DNSG
2015	Moderate	Moderate	Good	Mod/less	Good		Moderate	Moderate	High	Good	High	DNSG
2016	Moderate	Moderate	Good	Mod/less	Good			Moderate	High	Good	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

17 July 2019
14:03:48

Environment Agency

Deben (Brandeston Bridge - Melton)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good	Good	Good		Good	Moderate	Good	Good	Good	Sup Good
- Objective Year	2015	2015	2015	2027	2015		2015	2015	2015	2015	2015	2021
2021 - Predicted	Moderate	Moderate	Good	Mod/less	Good		Not assessed	Moderate	High	Good	High	Sup Good
2027 - Predicted	Moderate	Moderate	Good	Good	Good		Not assessed	Moderate	High	Good	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow, Eutrophication, Physical modification
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Sediment
Probably Not At Risk	

Deben (Brandeston Bridge - Melton)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Copper, Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Deben (Brandeston Bridge - Melton)

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor Livestock Management	Phosphate	Agriculture - Livestock Agriculture and rural land management	
Probable	Probable		Suspected	
Diffuse source	Poor nutrient management	Phosphate	Agriculture - Arable Agriculture and rural land management	
Probable	Probable		Probable	
Diffuse source	Riparian/in-river activities (inc bankside er	Phosphate	Agriculture and rural land management	
Suspected	Suspected		Suspected	
Physical modification	Other (not in list, must add details in com	Mitigation Measures Assessment	Not applicable Central Government	Flood protection
Confirmed	Confirmed		Confirmed	
Point source	Sewage discharge (continuous)	Phosphate	Waste water treatment Water Industry	
Confirmed	Confirmed		Confirmed	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
38782	Change in abs lic condtn(s) to address pot. serious damage at full license,Brandeston Bridge,Melton	**1. To control or manage abstraction** **2. Control pattern/timing of abstraction** **3. Hands Off Flow**		Confirmed cost beneficial Integrated Environment Planning

Deben (Brandeston Bridge - Melton)

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32954	Enable fish passage	**1. Mitigation Measure** **2.** **3.**	Confirmed cost beneficial AN Eastern, Asset Performance
14083	Generic action - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, Integrated Environment Planning
14090	Generic action - Field and Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, Integrated Environment Planning
14082	Generic Action for Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, Integrated Environment Planning
14085	Generic Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Integrated Environment Planning

Deben (Brandeston Bridge - Melton)

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14077	Generic Point Source P reduction	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning
14088	Generic Tree Planting	**1. To improve modified habitat** **2. Vegetation management** **3. Plant new vegetation**	New AN Eastern, Integrated Environment Planning
32956	Mitigation measures deemed to be in place fRBMP	**1. Mitigation Measure** **2.** **3.**	Completed (cost beneficial) AN Eastern, Catchment Delivery Team
32953	Mitigation measures investigated and screened out as not required	**1. Mitigation Measure** **2.** **3.**	Completed (cost beneficial) AN Eastern, Catchment Delivery Team
32955	River Restoration at Easton	**1. Mitigation Measure** **2.** **3.**	Confirmed cost beneficial Environment Programme

Deben (Brandeston Bridge - Melton)

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18284	WB - Tree Planting	**1. To improve modified habitat** **2. Vegetation management** **3. Plant new vegetation**	New AN Eastern, Operations Delivery
14313	WB Specifc arable measure	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, EM Land & Water
14314	WB specific livestock measure	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, EM Land & Water
14315	WB Specific Pathway Measure	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water
14312	WB Specific Point Source Phosphorus Improvement	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning

Wider Area Measures Actions

Deben (Brandeston Bridge - Melton)

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Deben (Brandeston Bridge - Melton)

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Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function													Structural modification							Operations and maintenance																					Water management						Habitat creation	Navigation		Education		Recreation	
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Flood protection	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	Not Applicable			Not Applicable	Not Applicable	Not In Place		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not In Place				Not In Place		Not Applicable	Not Applicable	Not Applicable													In Place	In Place	In Place	In Place	In Place	In Place	In Place	Not Applicable	Not In Place	Not Applicable						Not Applicable							Not Applicable		

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
149959	BRANDESTON BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	623800	260300	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Deben (Brandeston Bridge - Melton)

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54826	BRANDESTON BRIDGE CRETINGHAM	BIOSYS	Site in water body	623800	260100	River Invertebrates C1, River diatoms (Phytobenthos) C1, River Macrophytes C1

Classifications

Invertebrates	Good

54827	EASTON FARM PARK BRIDGE	BIOSYS	Site in water body	627700	257900	River Invertebrates C1, River diatoms (Phytobenthos) C1, River Macrophytes C1

Classifications

Invertebrates	High

Deben (Brandeston Bridge - Melton)

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54830	EYKE FORD	BIOSYS	Site in water body	631320	252750	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	Good

DEB075	R.DEBEN D/S PETTISTREE WTW	WIMS	Site in water body	631348	254628	River Chemicals C1, River Phys-Chem C1

Classifications

Deben (Brandeston Bridge - Melton)

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DEB042	LETHERINGHAM MILL	WIMS	Site in water body	627950	258170	

Classifications

Copper	High

DEB030	R.DEBEN BRANDESTON BR.CRETINGHAM	WIMS	Unknown	623800	260300	River Phys-Chem C1, River Chemicals C1

Classifications

Acid Neutralising Capacity	High
Ammonia (Phys-Chem)	High
Biochemical Oxygen Demand (BOD)	High
Copper	High
Cypermethrin	Info
Dissolved oxygen	Good
Mecoprop	High
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

Deben (Brandeston Bridge - Melton)

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DEB040	R.DEBEN LETHERINGHAM BRIDGE	WIMS	Unknown	627200	258600	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Bad
pH Lower	High
pH Upper	High
Phosphate	Good
Temperature	High

DEB050	R.DEBEN GLEVERING BRIDGE	WIMS	Unknown	629500	256600	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Good
Temperature	High

Deben (Brandeston Bridge - Melton)

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DEB070	R.DEBEN WHITE BRIDGE LOUDHAM	WIMS	Unknown	631500	255300	River Phys-Chem C1, River Chemicals C1

Classifications

Acid Neutralising Capacity	High
Ammonia (Phys-Chem)	High
Dissolved oxygen	Moderate
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

DEB085	R.DEBEN NAUNTON HALL GAUGING STATION	WIMS	Unknown	632200	253400	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

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Deben (Brandeston Bridge - Melton)

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DEB090	R.DEBEN UFFORD BRIDGE	WIMS	Unknown	630000	251900	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dimethoate	High
Dissolved oxygen	Moderate
pH Lower	High
pH Upper	High
Phosphate	Moderate
Temperature	High

A13 River Fromus (GB105035045980)

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WATERBODY ID	GB105035045980	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	638755	
AREA (km2)		NORTHING	262658	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Poor	Poor	Good		Good	Poor						Sup Good
2014	Bad	Bad	Good		Bad	Poor	Good				High	Sup Good
2015	Poor	Poor	Good		Moderate	Poor	Good	Poor	High	Poor	High	Sup Good
2016	Poor	Poor	Good		Moderate	Poor	Good	Poor	High	Bad	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

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Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good		Good	Good	Good	Poor	Good	Moderate	Good	Sup Good
- Objective Year	2027	2027	2015		2027	2027	2015	2015	2015	2015	2015	2015
2021 - Predicted	Poor	Poor	Good		Moderate	Poor	Good	Poor	High	Moderate	High	Sup Good
2027 - Predicted	Moderate	Moderate	Good		Good	Good	Good	Poor	High	Moderate	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Abstraction & Flow, Eutrophication, Physical modification, Sediment
Probably Not At Risk	Abstraction & Flow

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Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Fromus

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Transport Drainage	Fish	Urban	Sediment
			Urban and Transport	Not applicable
Probable	Probable		Probable	
Diffuse source	Poor soil management	Invertebrates	Agriculture - Livestock	Sediment
			Agriculture and rural land management	Not applicable
Probable	Probable		Probable	
Diffuse source	Poor Livestock Management	Phosphate	Agriculture - Livestock	
			Agriculture and rural land management	
Confirmed	Confirmed		Confirmed	
Natural	Drought	Dissolved oxygen	Not applicable	
			Not applicable	
Probable	Probable		Not applicable	
Physical modification	Other (not in list, must add details in com	Fish	Not applicable	Morphology
			Other (not in list)	Not applicable
Confirmed	Confirmed		Confirmed	
Physical modification	Barriers - ecological discontinuity	Fish	Environment, Farming, Rural	Nutrients
			Central Government	Phosphate
Confirmed	Confirmed		Confirmed	
Physical modification	Barriers - ecological discontinuity	Fish	Not applicable	Nutrients
			Urban and Transport	Phosphate
Confirmed	Confirmed		Confirmed	

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Point source	Trade/Industry discharge	Fish	Not applicable	Dissolved oxygen
			Industry, Manufacturing and other Busi	Not applicable
Confirmed	**Confirmed**		**Confirmed**	
Point source	Sewage discharge (continuous)	Invertebrates	Not applicable	Nutrients
			Water Industry	Phosphate
Probable	**Probable**		**Probable**	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
14083	Generic action - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**		New AN Eastern, Integrated Environment Planning
14091	Generic action - Field & Crop - Nutrients/ Other Rural Nutrient Sources	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Nutrients**		New AN Eastern, Integrated Environment Planning
14090	Generic action - Field and Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**		New AN Eastern, Integrated Environment Planning

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14256	Generic action- Field & Crop- Pesticides	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Pesticide management**	New AN Eastern, EM Land & Water
14082	Generic Action for Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, Integrated Environment Planning
14080	Generic Barriers to Migration	**1. To improve modified habitat** **2. Removal or easement of barriers to fish migration** **3. Enable fish passage (e.g. fish pass)**	New AN Eastern, Integrated Environment Planning
14085	Generic Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Integrated Environment Planning
14077	Generic Point Source P reduction	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning

Fromus

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14088	Generic Tree Planting	**1. To improve modified habitat** **2. Vegetation management** **3. Plant new vegetation**	New AN Eastern, Integrated Environment Planning
19259	WB - Enable Fish Passage	**1. To improve modified habitat** **2. Removal or easement of barriers to fish migration** **3. Enable fish passage (e.g. fish pass)**	New AN Eastern, Fisheries, Recreation & Biodiversity
19250	WB - Field & Crop - Arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, EM Land & Water
19255	WB - Field & Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, EM Land & Water
19254	WB - Field & Crop - Pesticides	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Pesticide management**	New AN Eastern, EM Land & Water

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19262	WB - Increase In Channel Morphological Diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Operations Delivery
19253	WB - Other Nutrient Sources	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Nutrients**	New AN Eastern, EM Land & Water
19248	WB - Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water
19264	WB - Tree Planting	**1. To improve modified habitat** **2. Vegetation management** **3. Plant new vegetation**	New AN Eastern, Fisheries, Recreation & Biodiversity
19247	WB Specific Point Source Phosphorus Improvement	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning

Wider Area Measures Actions

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Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
149961	GROMFORD FORD MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	638230	258810	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Fromus

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54843	BENHALL GREEN BRIDGE	BIOSYS	Site in water body	638700	261100	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	Moderate

54845	GROMFORD	BIOSYS	Site in water body	638500	258600	River Invertebrates C1, River diatoms (Phytobenthos) C1, River Macrophytes C1

Classifications

Invertebrates	Good

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618	ALDE & ORE CATCHMENT/RIVER FROMUS/SAXMUNDHAM/	NFPD	Site in water body	638700	263000	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Fromus

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619	ALDE & ORE CATCHMENT/RIVER FROMUS/SNAPE	NFPD	Site in water body	638200	259900	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Moderate
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

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FRO020	R.FROMUS BENHALL GREEN BRIDGE	WIMS	Site in water body	638700	261100	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Bad
pH Lower	High
pH Upper	High
Phosphate	High
Temperature	High

FRO030	R.FROMUS THE WATERING SNAPE	WIMS	Site in water body	638300	259900	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Poor
pH Lower	High
pH Upper	High
Phosphate	Poor
Temperature	High

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FRO040	R.FROMUS GROMFORD	WIMS	Site in water body	638500	258600	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Poor
pH Lower	High
pH Upper	High
Phosphate	Poor
Temperature	High

A14 River Lark GB105035040360

Extended Waterbody Summary Report

17 July 2019
14:06:12

Environment Agency

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035040360	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	622923	
AREA (km2)		NORTHING	250990	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Deben

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Moderate	Moderate	Good			Moderate						Sup Good
2014	Moderate	Moderate	Good		High	Moderate	Good					Sup Good
2015	Moderate	Moderate	Good		High	Moderate	Good	Poor	High	Moderate	High	Sup Good
2016	Moderate	Moderate	Good		High	Moderate	Good	Poor	High	Moderate	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

17 July 2019
14:06:12

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good		Good	Good	Good	Poor	Good	Good	Good	Sup Good
- Objective Year	2015	2015	2015		2015	2027	2015	2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good		High	Moderate	Good	Poor	High	High	High	Sup Good
2027 - Predicted	Moderate	Moderate	Good		High	Good	Good	Poor	High	High	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	
Not Assessed	Phosphorus
Not At Risk	Abstraction & Flow, Sanitary pollutants
Probably At Risk	
Probably Not At Risk	Abstraction & Flow, Eutrophication, Physical modification, Sediment

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor Livestock Management	Fish	Agriculture - Livestock	Sediment
			Agriculture and rural land management	Not applicable
Probable	Probable		Probable	
Diffuse source	Poor soil management	Fish	Agriculture - Arable	Sediment
			Agriculture and rural land management	Not applicable
Probable	Probable		Probable	
Diffuse source	Poor Livestock Management	Phosphate	Agriculture - Livestock	
			Agriculture and rural land management	
Probable	Probable		Probable	
Diffuse source	Poor soil management	Phosphate	Agriculture - Arable	
			Agriculture and rural land management	
Probable	Probable		Probable	
Physical modification	Land drainage - operational management	Fish	Not applicable	Morphology
			Agriculture and rural land management	Not applicable
Confirmed	Probable		Probable	
Point source	Sewage discharge (continuous)	Dissolved oxygen	Waste water treatment	
			Water Industry	
Probable	Probable		Suspected	
Point source	Sewage discharge (continuous)	Fish	Not applicable	Dissolved oxygen
			Water Industry	Not applicable
Probable	Probable		Probable	

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Point source	Private Sewage Treatment	Phosphate	Urban Urban and Transport
Probable	**Probable**		**Suspected**
Point source	Sewage discharge (continuous)	Phosphate	Waste water treatment Water Industry
Probable	**Probable**		**Probable**

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
14083	Generic action - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**		New AN Eastern, Integrated Environment Planning
14091	Generic action - Field & Crop - Nutrients/ Other Rural Nutrient Sources	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Nutrients**		New AN Eastern, Integrated Environment Planning
14090	Generic action - Field and Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**		New AN Eastern, Integrated Environment Planning

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

14082	Generic Action for Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, Integrated Environment Planning
14085	Generic Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Integrated Environment Planning
18583	WB - Field & Crop - Arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, EM Land & Water
18585	WB - Field & Crop - Nutrients	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Nutrients**	New AN Eastern, EM Land & Water
18584	WB - Field and Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, EM Land & Water

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

18786	WB - Increase In Channel Morphological Diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Operations Delivery
18582	WB - Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water

Wider Area Measures Actions

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
54849	GREAT BEALINGS	BIOSYS	Site in water body	623400	248400	River Invertebrates C1, River diatoms (Phytobenthos) C1, River Macrophytes C1

Classifications

Invertebrates	High

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

616	DEBEN CATCHMENT/FYNN & LARK SUB CATCHMENT/RIVER	NFPD	Site in water body	622898	249007	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Moderate
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

FYN045	HASKETON W\C BOULGE BRIDGE	WIMS	Site in water body	625731	252158	

Classifications

161098	BOOT STREET MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	622915	248907	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Macrophytes Sub Element	Good

Extended Waterbody Summary Report

17 July 2019
14:06:14

Lark

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

FYN050	R.LARK GREAT BEALINGS BRIDGE (R.FYNN)	WIMS	Unknown	623400	248400	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Moderate
pH Lower	High
pH Upper	High
Phosphate	Poor
Temperature	High

A15 River Ore (GB105035045970)

Extended Waterbody Summary Report

20 December 2018
11:30:41

Environment Agency

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035045970	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	630850	
AREA (km2)		NORTHING	260434	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Poor	Poor	Good		High	Poor		Poor	High	Moderate		DNSG
2014	Poor	Poor	Good		Good	Poor	Moderate	Poor	High	Good	High	DNSG
2015	Poor	Poor	Good		Good	Poor	Moderate	Poor	High	High	High	DNSG
2016	Poor	Poor	Good		Good	Poor	Moderate	Poor	High	Good	High	DNSG

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
11:30:42

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good		Good	Good	Good	Poor	Good	Good	Good	DNSG
- Objective Year	2021	2021	2015		2015	2027	2027	2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good		Good	Moderate	Moderate	Poor	High	High	High	DNSG
2027 - Predicted	Moderate	Moderate	Good		Good	Good	Good	Poor	High	High	High	DNSG

Risks

Pressure Level

Risk	Elements
At Risk	Abstraction & Flow, Eutrophication
Not Assessed	Phosphorus
Not At Risk	Sanitary pollutants
Probably At Risk	Abstraction & Flow, Sediment
Probably Not At Risk	Physical modification

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor soil management	Macrophytes and Phytobenthos Com	Agriculture - Arable	Morphology
			Agriculture and rural land management	Not applicable
Confirmed	Confirmed		Confirmed	
Diffuse source	Livestock	Macrophytes and Phytobenthos Com	Agriculture - Livestock	Morphology
			Agriculture and rural land management	Not applicable
Probable	Probable		Probable	
Diffuse source	Livestock	Phosphate	Agriculture - Livestock	
			Agriculture and rural land management	
Probable	Probable		Probable	
Diffuse source	Poor nutrient management	Phosphate	Agriculture - Arable	
			Agriculture and rural land management	
Probable	Probable		Probable	
Flow	Groundwater abstraction	Hydrological Regime		
			Agriculture and rural land management	
Suspected	Suspected		Suspected	
Flow	Groundwater abstraction	Hydrological Regime	Not applicable	
			Water Industry	
Suspected	Suspected		Suspected	
Natural	Barriers - ecological discontinuity	Fish	Not applicable	Morphology
			Not applicable	Not applicable
Probable	Probable		Not applicable	

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Physical modification	Urbanisation - urban development	Fish	Local authorities	Morphology
			Local Government	Not applicable
Probable	**Probable**		**Probable**	
Physical modification	Land drainage	Macrophytes and Phytobenthos Com	Agriculture - Arable	Morphology
			Agriculture and rural land management	Not applicable
Probable	**Probable**		**Probable**	
Point source	Sewage discharge (continuous)	Phosphate	Not applicable	
			Water Industry	
Confirmed	**Confirmed**		**Confirmed**	
Point source	Sewage discharge (intermittent)	Phosphate	Waste water treatment	
			Water Industry	
Probable	**Probable**		**Suspected**	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
14083	Generic action - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**		New AN Eastern, Integrated Environment Planning
14082	Generic Action for Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**		New AN Eastern, Integrated Environment Planning

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

14085	Generic Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Integrated Environment Planning
14077	Generic Point Source P reduction	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning
39236	Habitat improvement - ESufflk Catch. Partnshp project to reduce impact of structures on water course	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Improvements to longitudinal connectivity**	Affordable Environment Programme
19187	WB - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, EM Land & Water
19186	WB - Surface Run-off and Drainage	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution pathways (i.e. control entry to water environment)** **3. Surface run-off & drainage management**	New AN Eastern, EM Land & Water

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

14268	WB Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Asset Performance
19188	WB Specific Point Source Phosphorus Improvement	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning

Wider Area Measures Actions

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
54892	MARLESFORD BRIDGE	BIOSYS	Site in water body	632700	257700	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Invertebrates	Good

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

54893	BEVERSHAM BRIDGE	BIOSYS	Site in water body	635800	258300	River Invertebrates C1, River Macrophytes C1, River diatoms (Phytobenthos) C1

Classifications

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

620	ALDE & ORE CATCHMENT/RIVER ORE (HEADWATERS)/U/S	NFPD	Site in water body	628400	264000	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

621	ALDE & ORE CATCHMENT/RIVER ORE (HEADWATERS)/D/S	NFPD	Site in water body	628400	263200	River Fish C1

Classifications

Barbel	Info
Bleak	Info
Bream	Info
Bullhead	Info
Carp	Info
Chub	Info
Dace	Info
Eel	Info
Fish	Poor
Grayling	Info
Gudgeon	Info
Lamprey	Info
Minnow	Info
Perch	Info
Pike	Info
Roach	Info
Rudd	Info
Ruffe	Info
Salmon	Info
Spined loach	Info
Stickleback	Info
Stone loach	Info
Tench	Info
Trout	Info

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

160106	U/S BEVERSHAM BRIDGE MACROPHYTE SURVEY SITE	BIOSYS	Site in water body	635890	258170	River Macrophytes C1, River Invertebrates C1, River diatoms (Phytobenthos) C1

Classifications

Macrophytes Sub Element	Moderate

ORE020	R.ORE BROADWATER BRIDGE	WIMS	Unknown	628905	261568	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Bad
Temperature	High

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

ORE025	DITCH D/S PARHAM WTW	WIMS	Unknown	631559	260012	

Classifications

ORE030	R.ORE MARLESFORD BRIDGE	WIMS	Unknown	632717	257739	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Poor
Temperature	High

Ore

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

ORE040	R.ORE BEVERSHAM BRIDGE	WIMS	Unknown	635943	258203	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Good
pH Lower	High
pH Upper	High
Phosphate	Poor
Temperature	High

A16 Suffolk (GB650503520002)

Extended Waterbody Summary Report

20 December 2018
11:31:48

Environment Agency

Suffolk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB650503520002	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	Coastal	DESIGNATION	Heavily Modified	
LENGTH (km)		EASTING	646705	
AREA (km2)		NORTHING	252695	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Anglian TraC
OP CATCHMENT	Suffolk TraC

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
YES	YES	NO	NO	NO	YES	NO	YES

Classifications

Year	Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Opportunistic Macroalgae	Rocky Shore Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
2013	Moderate	Moderate	Good	Good	Good								High	Moderate		High
2014	Moderate	Moderate	Good	Good	Good								High	Moderate		High
2015	Moderate	Moderate	Good	Good	Good								High	Moderate		
2016	Moderate	Moderate	Good	Good	Good								High	Moderate		

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

20 December 2018
11:31:49

Suffolk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Objectives and Predicted Outcomes

Overall	Ecological	Chemical	MMA	Phytoplankton Blooms	Invertebrates	Fish	Seagrass	Saltmarsh	Flucoid Extent	Macroalgae	Dissolved Oxygen	DIN	Hydrological Regime	Specific Pollutants
- Objective														
Moderate	Moderate	Good	Good	Good							Good	Moderate		Not assessed
- Objective Year														
2015	2015	2015	2015	2015							2015	2015		2015
2021 - Predicted														
Moderate	Moderate	Good	Good	Good							High	Moderate		Not assessed
2027 - Predicted														
Moderate	Moderate	Good	Good	Good							High	Moderate		Not assessed

Risks

Pressure Level

Risk	Elements
At Risk	
Not Assessed	
Not At Risk	
Probably Not At Risk	Eutrophication

Suffolk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Element Level

Risk	Elements
At Risk	Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Overall INNS pressure
Not Assessed	Benzo(a)pyrene, Copper, Di(2-ethylhexyl)phthalate (DEHP), Fluoranthene, Mercury, Nonylphenol, Polybrominateddiphenylether (PBDE), Tributyltin (TBT), Triclosan
Not At Risk	Australian swamp stonecrop (Crassula helmsii), Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Colonial tunicate (non-native Didemnum spp.), Common carp (Cyprinus carpio), Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), Giant hogweed (Heracleum mantegazzianum), Giant knotweed (Fallopia sachalensis), Himalayan balsam (Impatiens glandulifera), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Mysid crustacean (Hemimysis anomola), North American signal crayfish (Pacifastacus leniusculus), Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Slipper limpet (Crepidula fornicata), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora), Zebra
Probably Not At Risk	American oyster drill (Urosalpinx cinerea), Cadmium, Chinese mitten crab (Eriocheir sinensis), Goldfish (Carassius auratus), Lead, Nickel, Zinc

Suffolk

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source **Suspected**	Livestock **Suspected**	Dissolved Inorganic Nitrogen	Agriculture - Livestock Agriculture and rural land management **Suspected**	
Diffuse source **Suspected**	Poor nutrient management **Suspected**	Dissolved Inorganic Nitrogen	Agriculture - Arable Agriculture and rural land management **Suspected**	
Point source **Suspected**	Sewage discharge (continuous) **Suspected**	Dissolved Inorganic Nitrogen	Waste water treatment Water Industry **Suspected**	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
30860	GEP MEASURES IN PLACE AS AT GOOD	**1. Mitigation Measure** **2.** **3.**		Completed (cost beneficial) AN Eastern, Catchment Delivery Team

Wider Area Measures Actions

Suffolk

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Suffolk

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Mitigation Measures (if applicable)

Designated Hydromorph Use	Working with physical form and function													Structural modification							Operations and maintenance																									Water management					Habitat creation	Navigation		Education		Recreation
	1.Modify channel	2.Remove obsolete structure	3.Re-engineer river	4.Remove or soften hard bank	5.Preserve or restore habitats	6.In-channel morph diversity	7.Bank rehabilitation	8.Re-opening culverts	9.Alter culvert channel bed	10.Flood bunds	11.Set-back embankments	12.Floodplain connectivity	13.Realign flood defence	14.Modify structure	15.Flow manipulation	16.Fish passes	17.Fish pass flow releases	18.Reduce fish entrainment	19.Enhance ecology	20.Changes to locks etc	21.Avoid the need to dred	22.Dredging disposal strategy	23.Reduce impact of dredging	24.Reduce sediment resuspension	25.Retime dredging or disposal	26.Sediment management	27. Dredge disposal site sel	28.Manage disturbance	29.Sediment management regime	30.Manage artificial drawdown	31.Manage seasonal water levels	32.Phased de-watering	33.Selective vegetation control	34.Vegetation control	35.Vegetation control timing	36.Invasive species techniques	37.Retain habitats	38.Sediment management strategy	39.Maintain channel bed/margins	40.Woody debris	41.Water level management	42.Access to feeder-streams	43.Downstream flow regime	44.Flows to move sediment	45.Good downstream DO levels	46.Good downstream temperature	47.Align and attenuate flo	48.Indirect mitigation	49.Modify vessel design	50.Vessel Management	51.Boats in central track	52.Invasive species awareness	53.Boat wash awareness	54.Educate landowners	55.Recreation awareness	56.Enhance ecology (recre
Coast protection use	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
		Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable						Not Applicable			Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable								
Flood protection use	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
		Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable						Not Applicable			Not Applicable			Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable								

Suffolk

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Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
157169	SUFFOLK NO.33 SUF001P	BIOSYS	Site in water body	657800	295400	
Classifications						
157170	SUFFOLK NO.34 SUF002P	BIOSYS	Site in water body	657400	291200	
Classifications						

Suffolk

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157171	SUFFOLK NO.43B SUF003P	BIOSYS	Site in water body	647600	251700

Classifications

157172	SUFFOLK NO.46 SUF004P	BIOSYS	Site in water body	643700	246400

Classifications

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Suffolk

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157173	SUFFOLK NO.51 SUF005P	BIOSYS	Site in water body	635300	236600

Classifications

A17 Waveney & East Suffolk Chalk and Crag (GB40501G400600)

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Environment Agency

Waveney and East Suffolk Chalk & Crag

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WATERBODY ID	GB40501G400600	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	Groundwater	DESIGNATION	Not Applicable	
LENGTH (km)		EASTING	628292	
AREA (km2)		NORTHING	245384	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Anglian GW
OP CATCHMENT	Waveney and Suffolk East Chalk and Crag

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	NO	YES	NO

Classifications

Yea	Overall	Chemical	Quantitative	Trend Assessment	Supporting Elements (Groundwater)
2013	Poor	Poor	Poor	Upward	
2014	Poor	Poor	Poor	Upward	
2015	Poor	Poor	Poor	Upward	
2016	Poor	Poor	Poor	Upward	

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

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Waveney and East Suffolk Chalk & Crag

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Objectives and Predicted Outcomes

Type	Overall	Chemical	Quantitative	Trend Assessment	Supporting Elements (Groundwater)
- Objective	Poor	Poor	Good		
- Objective Year	2015	2015	2027		
2021 - Predicted	Poor	Poor	Poor		
2027 - Predicted	Poor	Poor	Good		

Risks

Pressure Level

Risk	Elements
At Risk	
Not At Risk	
Probably At Risk	

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Waveney and East Suffolk Chalk & Crag

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Element Level

Risk	Elements
At Risk	Abstraction impact on saline intrusion, Abstraction impact on surface water, General chemical assessment, Impact on Drinking Water protected areas, Overall chemical assessment, Overall quantitative assessment, Saline intrusion, Trend assessment
Not At Risk	Impact on surface water chemistry and ecology
Probably At Risk	Abstraction impact on dependent terrestrial ecocsystems, Abstraction impact on water balance, Impact on dependent terrestrial ecosystems

Waveney and East Suffolk Chalk & Crag

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Livestock	Chemical Drinking Water Protected A	Agriculture - Livestock Agriculture and rural land management	
Confirmed	**Confirmed**		**Confirmed**	
Diffuse source	Livestock	General Chemical Test	Agriculture - Livestock Agriculture and rural land management	
Confirmed	**Confirmed**		**Confirmed**	
Diffuse source	Livestock	Trend Assessment	Agriculture - Livestock Agriculture and rural land management	
Confirmed	**Confirmed**		**Confirmed**	
Flow	Groundwater abstraction	Quantitative Water Balance	Agriculture - Arable Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	
Flow	Surface water abstraction	Quantitative Water Balance	Agriculture - Arable Agriculture and rural land management	
Suspected	**Suspected**		**Suspected**	

Waterbody Level Measure Actions

Waveney and East Suffolk Chalk & Crag

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Wider Area Measures Actions

Waveney and East Suffolk Chalk & Crag

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Mitigation Measures (if applicable)

Monitoring Sites

A18 Wenhaston Watercourse (GB105035046010)

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Environment Agency

Wenhaston Watercourse

Please be aware that data is based on the best available information as of the date shown above, and may be subject to change

WATERBODY ID	GB105035046010	CYCLE / LATEST VERSION	Cycle 2	2
TYPE	River	DESIGNATION	Not Designated A/HMWB	
LENGTH (km)		EASTING	641351	
AREA (km2)		NORTHING	274353	
Alkalinity		CATCHMENT AREA (Ha)		

Geographical Boundaries	
EA AREA	Essex Norfolk and Suffolk
RBD	Anglian
MAN CATCHMENT	Suffolk East
OP CATCHMENT	Suffolk Coastal

Bathing Water Directive	Nitrates Directive	Safeguard Zone	Shellfish Water Directive	Freshwater Fish Directive	Habitats and Species Directive	Drinking Water Protected Area	Conservation of Wild Birds Directive
NO	YES	NO	NO	NO	YES	NO	NO

Classifications

Yea	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
2013	Good	Good	Good		Good							Sup Good
2014	Moderate	Moderate	Good		Moderate							Sup Good
2015	Moderate	Moderate	Good					Poor	High	Poor	High	Sup Good
2016	Moderate	Moderate	Good		Moderate			Poor	High	Bad	High	Sup Good

Note: DNSG = 'Does Not Support Good', DNRA = 'Does Not Require Assessment'

Extended Waterbody Summary Report

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Environment Agency

Wenhaston Watercourse

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Objectives and Predicted Outcomes

Type	Overall	Ecological	Chemical	MMA	Invertebrates	Fish	Macrophytes and Phytobenthos Combined	Phosphate	Ammonia	Dissolved Oxygen	pH	Hydrological Regime
- Objective	Moderate	Moderate	Good					Poor	Good	Poor	Good	Sup Good
- Objective Year	2015	2015	2015					2015	2015	2015	2015	2015
2021 - Predicted	Moderate	Moderate	Good					Poor	High	Poor	High	Sup Good
2027 - Predicted	Moderate	Moderate	Good					Poor	High	Poor	High	Sup Good

Risks

Pressure Level

Risk	Elements
At Risk	Sediment
Not Assessed	Phosphorus
Not At Risk	Abstraction & Flow, Sanitary pollutants
Probably At Risk	Eutrophication
Probably Not At Risk	Physical modification

Wenhaston Watercourse

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Element Level

Risk	Elements
At Risk	Curly water-thyme (Lagarosiphon major), Floating pennywort (Hydrocotyle ranunculoides), Freshwater amphipod (Dikerogammarus villosus), North American signal crayfish (Pacifastacus leniusculus), Overall INNS pressure, Water primrose (Ludwigia grandiflora)
Not Assessed	Fluoranthene
Not At Risk	American oyster drill (Urosalpinx cinerea), Australian swamp stonecrop (Crassula helmsii), Colonial tunicate (non-native Didemnum spp.), Common cord-grass, Townsend's grass or ricegrass (Spartina anglica), Giant knotweed (Fallopia sachalensis), Leathery sea squirt (Styela clava), Marine tubeworm (Ficopomatus enigmaticus), Parrot's feather (Myriophyllum aquaticum), Slipper limpet (Crepidula fornicata)
Probably At Risk	Benzo(a)pyrene, Curly water-thyme (Lagarosiphon major), Himalayan balsam (Impatiens glandulifera), Mysid crustacean (Hemimysis anomola), Polybrominateddiphenylether (PBDE), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Topmouth gudgeon (Pseudorasbora parva), Virile crayfish (Orconectes virilis), Water fern (Azolla filiculoides and Azolla caroliniana), Water primrose (Ludwigia grandiflora)
Probably Not At Risk	Australian swamp stonecrop (Crassula helmsii), Cadmium, Canadian pondweed and Nuttall's pondweeds (Elodea Canadensis and Elodea nuttallii), Chinese mitten crab (Eriocheir sinensis), Common carp (Cyprinus carpio), Copper, Di(2-ethylhexyl)phthalate (DEHP), Giant hogweed (Heracleum mantegazzianum), Goldfish (Carassius auratus), Japanese knotweed (Fallopia japonica), Japanese knotweed/ Giant knotweed hybrid (Fallopia x bohemica), Lead, Mysid crustacean (Hemimysis anomola), Nickel, Nonylphenol, Parrot's feather (Myriophyllum aquaticum), Ponto Caspian shrimp (Dikerogammarus haemobaphes), Red swamp crayfish (Procambarus clarkii), Rhododendron (Rhododendron ponticum), Tributyltin (TBT), Triclosan, Zebra mussel (Dreissena polymorpha), Zinc

Wenhaston Watercourse

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Reasons for not achieving Good

Significant Water Management Issue	Reason	Element	Sector/Business Category	Pressures
Diffuse source	Poor Livestock Management	Invertebrates	Agriculture - Livestock Agriculture and rural land management	Dissolved oxygen Not applicable
Suspected	Suspected		Suspected	
Diffuse source	Poor nutrient management	Invertebrates	Agriculture - Arable Agriculture and rural land management	Dissolved oxygen Not applicable
Suspected	Suspected		Suspected	
Diffuse source	Poor Livestock Management	Phosphate	Agriculture - Livestock Agriculture and rural land management	
Confirmed	Confirmed		Confirmed	
Diffuse source	Poor nutrient management	Phosphate	Agriculture - Arable Agriculture and rural land management	
Confirmed	Confirmed		Confirmed	
Point source	Sewage discharge (continuous)	Dissolved oxygen	Not applicable Water Industry	
Probable	Probable		Probable	

Waterbody Level Measure Actions

CPS Action ID	Title	Measure Aim	Easting/Northing	Action Status / EA Team
14083	Generic action - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**		New AN Eastern, Integrated Environment Planning

Wenhaston Watercourse

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14090	Generic action - Field and Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, Integrated Environment Planning
14085	Generic Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	New AN Eastern, Integrated Environment Planning
14077	Generic Point Source P reduction	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning
14088	Generic Tree Planting	**1. To improve modified habitat** **2. Vegetation management** **3. Plant new vegetation**	New AN Eastern, Integrated Environment Planning
14269	Tree Planting	**1. To improve modified habitat** **2. Vegetation management** **3. Plant new vegetation**	New AN Eastern, Catchment Delivery Team

Wenhaston Watercourse

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19189	WB - Field & Crop - arable soils	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Arable soils**	New AN Eastern, EM Land & Water
19190	WB - Field & Crop - Livestock	**1. To control or manage diffuse source inputs** **2. Reduce diffuse pollution at source** **3. Field & Crop - Livestock**	New AN Eastern, EM Land & Water
14270	WB Increase in channel morphological diversity	**1. To improve modified habitat** **2. Improvement to condition of channel/bed and/or banks/shoreline** **3. Increase in-channel morphological diversity**	Affordable Integrated Environment Planning
14144	WB Specific Point Source Phosphorus Improvement	**1. To control or manage point source inputs** **2. Mitigate/Remediate point source impacts on receptor** **3. Install nutrient reduction**	New AN Eastern, Integrated Environment Planning

Wider Area Measures Actions

Wenhaston Watercourse

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Wenhaston Watercourse

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Mitigation Measures (if applicable)

Monitoring Sites

Site ID	Site Name	Site Type	Site Waterbody Link	Easting	Northing	Elements Monitored
54792	BLACKHEATH BRIDGE	BIOSYS	Site in water body	643300	274600	River Invertebrates C1, River diatoms (Phytobenthos) C1, River Macrophytes C1

Classifications

Invertebrates	Moderate

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Wenhaston Watercourse

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BLY046	WENHASTON W/C. BLACKHEATH BR.(R.BLYTH)	WIMS	Unknown	643260	274619	River Phys-Chem C1, River Chemicals C1

Classifications

Ammonia (Phys-Chem)	High
Dissolved oxygen	Bad
pH Lower	High
pH Upper	High
Phosphate	Poor
Temperature	High