



*Suffolk Minerals & Waste Local Plan  
Submission Draft*

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For more information about our minerals and waste planning policy go to:

<https://www.suffolk.gov.uk/planning-waste-and-environment/planning-applications/minerals-and-waste-policy/>

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## Contents

1.	Executive summary .....	4
2.	Introduction .....	6
3.	Vision, aims and objectives .....	8
4.	General polices .....	10
	Policy GP1: Presumption in favour of sustainable development .....	11
	Policy GP2: Climate change mitigation and adaptation .....	12
	Policy GP3: Spatial strategy .....	14
	Policy GP4: General environmental criteria .....	16
5.	Minerals policies .....	17
	Policy MP1: Provision of land won sand and gravel .....	21
	Policy MP2: Proposed sites for sand and gravel extraction .....	22
	Policy MP3: Borrow pits .....	23
	Policy MP4: Agricultural and public supply reservoirs .....	23
	Policy MP5: Cumulative environmental impacts and phasing of workings ....	24
	Policy MP6: Progressive working and restoration .....	24
	Policy MP7: Aftercare .....	25
	Policy MP8: Concrete batching plants and asphalt plants .....	25
	Policy MP9: Safeguarding of port and rail facilities, and facilities for the manufacture of concrete and asphalt .....	26
	Policy MP10: Minerals consultation and safeguarding areas .....	28
6.	Waste policies .....	29
	Policy WP1: Management of waste (Mt) .....	31
	Policy WP2: Proposed site for radioactive waste management .....	31
	Policy WP3: Existing or designated land-uses potentially suitable for waste development .....	32
	Policy WP4: Household waste recycling centres .....	33
	Policy WP5: Open air composting .....	33
	Policy WP6: In-vessel composting facilities .....	34
	Policy WP7: Anaerobic digestion .....	35
	Policy WP8: Proposals for recycling or transfer of inert and construction, demolition and excavation waste .....	35
	Policy WP9: Waste transfer stations, materials recycling facilities, end of life vehicle facilities and waste electrical and electronic equipment recovery facilities .....	36

Policy WP10: Residual waste treatment facilities .....	37
Policy WP11: Approval of sites for disposal of inert waste by landfilling or landraise.....	38
Policy WP12: Disposal of non-hazardous or hazardous waste by landfilling or landraising .....	38
Policy WP13: Mining or excavation of landfill waste.....	39
Policy WP14: Waste water treatment facilities .....	40
Policy WP15: Transfer, storage, processing & treatment of hazardous waste.	40
Policy WP16: Treatment and storage of radioactive waste at Sizewell nuclear power stations .....	41
Policy WP 17: Design of waste management facilities.....	42
Policy WP18: Safeguarding of waste management sites.....	43
7. Proposed minerals sites.....	44
8. Policy MS1: Barham.....	45
9. Policy MS2: Barnham .....	50
10. Policy MS3: Belstead .....	56
11. Policy MS4: Cavenham.....	61
12. Policy MS5: Layham .....	67
13. Policy MS6: Tattingstone .....	71
14. Policy MS7: Wangford .....	76
15. Policy MS8: Wetherden .....	82
16. Policy MS9: Wherstead.....	86
17. Policy MS10: Worlington.....	92
18. Proposed waste sites .....	95
19. Policy WS1: Sizewell “A” Nuclear Power Station.....	97
20. Appendix 1. Acronyms & glossary.....	101
21. Appendix 2. Policy monitoring framework .....	109
22. Appendix 3: Safeguarding maps .....	115
Map Pocket. Proposals Map	



## **1. Executive summary**

- 1.1 The Suffolk Minerals & Waste Local Plan (SMWLP) contains planning policies for determining planning applications for minerals and waste development, as well as safeguarding the same from other forms of competing development. Policies include those that specify sites for future minerals and waste development.
- 1.2 The SWMLP takes a positive approach to minerals and waste development that reflects the presumption in favour of sustainable development.
- 1.3 Minerals are vital for continued economic growth including house building. Besides indigenous land-won sand and gravel, the supply of aggregates to Suffolk is made up from sand & gravel imported from surrounding counties, imported crushed rock, marine dredged sand & gravel, and indigenous and imported recycled construction, demolition & excavation waste.
- 1.4 The SMWLP has allocated ten sites for the extraction of sand and gravel sufficient to supply 9.300 Mt over the Plan period to the end of 2036. Policy also states that the County Council will seek to maintain a landbank of permitted reserves of at least 7 years based upon the average of the last ten years' sales.
- 1.5 The proposed sites for sand and gravel extraction are located at:
  - a) Barham
  - b) Barnham
  - c) Belstead
  - d) Cavenham
  - e) Layham
  - f) Tattingstone
  - g) Wangford
  - h) Wetherden
  - i) Wherstead
  - j) Worlington

- 1.6 Although there are significant quantities of Local Authority Collected Waste, Commercial & Industrial Waste, Construction, Demolition & Excavation Waste, and Hazardous Waste managed within Suffolk, the Suffolk Waste Study concluded that there is no immediate shortfall in waste management capacity for these waste streams. Applications for new facilities would however be considered in the normal way.
- 1.7 Only one site for waste development has been allocated at Sizewell “A” Nuclear Power Station for the treatment and temporary storage of radioactive material removed as part of decommissioning. Future waste development proposals not allocated in the plan would be considered against criteria-based policies.
- 1.8 Policies for the consideration of planning applications for minerals and waste development have been refreshed, as have safeguarding policies to protect minerals and waste development and minerals resources from other forms of competing development.

## 2. Introduction

- 2.1 Suffolk County Council is the minerals and waste planning authority for the whole of Suffolk. It is therefore responsible for the determination of planning applications for minerals and waste development, enforcing planning control, and for producing minerals and waste planning policy documents.
- 2.2 The SMWLP contains planning policies for determining planning applications for minerals and waste development, as well as safeguarding the same from other forms of competing development. Policies include those that specify sites for future minerals and waste development.
- 2.3 The format of the SMWLP is intended to be concise and links to supporting documents in the evidence base are provided where appropriate rather than duplicating much of the supporting evidence in the SMWLP itself. The SMWLP develops the theme of sustainable development through general policies, minerals policies, waste policies and site proposals. Appendix 3 includes maps of all the safeguarded minerals and waste sites.
- 2.4 Important supporting evidence for the Plan is contained in the following documents:
- a) the SMWLP Submission Draft Sustainability Appraisal provides detailed consideration of the impacts of the plans vision, aims, objectives, policies and proposals upon the baseline economic, social and environmental conditions;
  - b) the Suffolk Local Aggregates Assessment (2017 data) discusses in detail the provision of aggregates in Suffolk;
  - c) the Suffolk Waste Study provides an analysis of the existing waste management provision in Suffolk and makes projections of future waste arisings over the SMWLP plan period, and;
  - d) the Site Selection Reports which bring together the information that was considered when selecting sites considered suitable for inclusion in the SMWLP;
  - e) the SMWLP Habitats Regulations Assessment assess the impact of the Plan in terms of the Regulations, and;
  - f) the SMWLP Strategic Flood Risk Assessment assesses the flood risk at each of the sites proposed in the Plan.

- 2.5 The above documents can be reached by following the link provided.  
<https://www.suffolk.gov.uk/council-and-democracy/consultations-petitions-and-elections/consultations/minerals-and-waste-local-plan-issues-and-options-consultation/>
- 2.6 The Plan has been in primarily been drafted within the context of the following Government policy and guidance (see links):
- a) National Planning Policy Framework, which contains the Government's policy on planning;  
<https://www.gov.uk/government/publications/national-planning-policy-framework--2>
  - b) National Planning Policy for Waste, which contains the Government's policy on waste planning, and;  
<https://www.gov.uk/government/publications/national-planning-policy-for-waste>
  - c) Planning Practice Guidance, which is a website containing the Government's planning practice guidance.  
<https://www.gov.uk/government/collections/planning-practice-guidance>

### 3. Vision, aims and objectives

- 3.1 The draft Vision below is intended to be a high level strategic overview of the intentions of the Plan, without the detail that would be developed later in the Plan through the aims, objectives, policies and proposed sites.
- 3.2 It is written within the context of Government requirements for the planned provision of aggregates, management of waste and environmental protection.
- 3.3 The County Council is required to plan for the provision of aggregates. This includes developing policies for the provision of land-won sand & gravel, aggregates rail depots and wharves, and aggregates recycling depots.
- 3.4 The County Council is also required to plan for net self-sufficiency in waste management whereby it should plan for the equivalent amount of waste to that arising within the County. A limitation on this being the economies of scale particularly where specialist waste streams are concerned.
- 3.5 The plan covers the period to 2036 which would align it with the surrounding counties minerals and waste plan reviews and allow for a time horizon of 15 years and take account of longer term requirements in accordance with the National Planning Policy Framework.

#### **Suffolk minerals and waste local plan vision 2036**

“Suffolk will continue to meet its statutory obligation as required by national policy for the supply of aggregates and the management of waste in a sustainable manner.

Minerals and waste management sites will only be permitted in appropriate locations and will be required to be operated to high standards, so that they do not cause a significantly adverse impact upon the environment, historic environment or local amenity or endanger human health.

Temporary minerals and waste management sites will be restored to a quality and state conducive to an appropriate after-use such as flood alleviation, reservoirs, agriculture, forestry, ecology, geomorphological interest or recreation.”

- 3.6 The Vision has been developed further into the following practical Aims & Objectives below. The Aims and Objectives have also taken into account the requirements of the National Planning Policy Framework (NPPF), the National Planning Policy for Waste (NPPW) and the Planning Practice Guidance (PPG) website. The objectives have been translated into policies and proposals for specific sites later in the SMWLP.



## **Aims and objectives**

**Aim 1: To make adequate provision for minerals and waste development within Suffolk by:**

**Objective 1:** providing Policies that set out the provision to be made for minerals and waste development within Suffolk, taking into account the waste hierarchy and the contribution that can be made from recycled aggregates.

**Objective 2:** providing a Key Diagram that indicates proposed minerals and waste development, centres of population (as an indication of sources of waste arisings and aggregates demand), transport links and areas of constraint.

**Objective 3:** identifying environmentally acceptable sites for sand & gravel extraction and sites for waste management on the Proposals Map.

**Objective 4:** providing general Policies for the consideration for planning applications for minerals and waste management development.

**Aim 2: To minimise and mitigate the impact of minerals and waste development on the environment by:**

**Objective 5:** including environmental protection policies for the consideration of minerals proposals that make reference to the impact upon nature conservation, the historic environment or human health from noise, dust, air quality, visual intrusion, traffic, tip and quarry slope stability, differential settlement of quarry backfill, flood risk, water resources, contamination and cumulative impacts.

**Objective 6:** including a policy for the consideration of proposals for borrow pits, agricultural reservoirs, flood alleviation and/or public water supply.

**Objective 7:** including environmental protection policies for the consideration of waste proposals that make reference to the impact upon water quality, flood risk, land instability, landscape character, visual impact, nature conservation, historic environment, traffic and access, dust, air quality, odour, vermin and birds, noise, light vibration, litter, land-use conflict and cumulative impacts.

**Aim 3: To safeguard minerals and waste development from other development other forms of development by:**

**Objective 8:** identifying all existing and potential minerals and waste development including rail depots, and port facilities, and added value plant sites e.g. concrete batching, coated stone and aggregate recycling that require safeguarding from other forms of development, directly or by proximity, and providing an accompanying appropriate safeguarding policy.

**Objective 9:** providing minerals safeguarding plan showing those sand and gravel resources which require safeguarding from other forms of development, directly or by proximity, and an accompanying appropriate safeguarding policy.

## **4. General policies**

### **Presumption in favour of sustainable development**

- 4.1 At the heart of the NPPF is the “presumption in favour of sustainable development” which should be seen as a golden thread running through both the plan-making and decision-taking. Sustainable development is also at the heart of the NPPW.
- 4.2 Sustainable development is defined in the NPPF and is seen as having three equal components: economic; social, and; environmental.
- 4.3 In the economic role, sustainable development means contributing to building a strong, responsive and competitive economy, by ensuring that sufficient land of the right type is available in the right places and at the right time to support growth and innovation; and by identifying and co-ordinating development requirements, including the provision of infrastructure.
- 4.4 The social role means supporting strong, vibrant and healthy communities, by providing the supply of housing required to meet the needs of present and future generations; and by creating a high quality-built environment, accessible local services that reflect the community’s needs and support its health, social and cultural well-being.
- 4.5 The environmental role means contributing to protecting and enhancing our natural, built and historic environment; and, as part of this, helping to improve biodiversity, use natural resources prudently, minimise waste and pollution, and mitigate and adapt to climate change including moving to a low carbon economy.
- 4.6 An example of how the Plan relates to the historic environment would be by securing archaeological evaluation and recording at a site prior to minerals extraction takes place.
- 4.7 Reflecting this national guidance, Policy GP1 below sets out the County Council’s interpretation of decision making in the context of sustainable development.

## **Policy GP1: Presumption in favour of sustainable development**

The County Council will take a positive approach to minerals and waste development that reflects the presumption in favour of sustainable development.

It will work proactively with applicants to find solutions which mean that proposals can be approved wherever possible, and to secure minerals and waste development that improves the economic, social and environmental conditions in the area.

Planning applications that accord with the site allocations and policies in this Plan will be approved without delay, unless material considerations indicate otherwise.

Where there are no policies relevant to the application or the relevant policies are demonstrably out-of-date at the time of making the decision, the County Council will grant permission unless material considerations indicate otherwise – taking into account whether:

- a) Any adverse impacts of granting planning permission would significantly and demonstrably outweigh the benefits, when assessed against the policies in the National Planning Policy Framework and National Planning Policy for Waste taken; or
- b) Specific policies in the National Planning Policy Framework or National Planning Policy for Waste indicate that development should be restricted.

## Climate change mitigation and adaptation

- 4.8 Proposed minerals and/or waste development should take into account climate change issues. The Minerals Product Association for example has calculated the average figure for the amount of carbon dioxide (CO<sub>2</sub>) produced per tonne of sand and gravel of 3.5kg of CO<sub>2</sub>/t of sand and gravel. A significant factor for minimising CO<sub>2</sub> is the use of the latest modular plant which complies with lower emission limits.
- 4.9 Waste development can for example contribute to reducing methane (CH<sub>4</sub>) by capturing and utilizing landfill gas to generate electricity. Policy GP2 below sets out the criteria for the consideration of proposals for climate change mitigation and adaptation.

### **Policy GP2: Climate change mitigation and adaptation**

New minerals and waste management facilities should through their construction and operation minimise their potential contribution to climate change through reducing carbon and methane emissions, incorporate energy and water efficient design strategies and be adaptable to future climatic conditions.

Proposals for new minerals and waste facilities should where appropriate:

- a) take account of landform, layout, building orientation, massing and landscaping to minimise energy consumption, including maximising cooling and avoiding solar gain in the summer;
- b) be planned so as to minimise carbon dioxide and methane emissions, and support opportunities for decentralised and renewable or low-carbon energy supply;
- c) give priority to the use of sustainable drainage systems, paying attention to the potential contribution to be gained to water harvesting from impermeable surfaces and encourage layouts that accommodate waste water recycling;
- d) take account of potential changes in climate including pluvial and fluvial flooding, rising sea levels and coastal erosion, and;
- e) incorporate proposals for sustainable travel including travel plans where appropriate.

## **Spatial strategy and key diagram**

4.10 The Key Diagram and Policy GP3 below set out a spatial strategy for minerals and waste development within Suffolk. These following factors have been considered in drafting the key diagram and spatial strategy:

- a) minerals can only be worked where they occur;
- b) crushed rock is imported, primarily by rail from outside of the County via rail heads located along the lines than run between Newmarket and Ipswich;
- c) marine borne crushed rock is landed at wharves at Ipswich and Lowestoft docks;
- d) marine dredged sand and gravel aggregates are landed at Ipswich docks;
- e) aggregates are landed at Ipswich docks are exported by rail;
- f) aggregates recycling facilities should be located with suitable access to the road network and in proximity to centres of population and therefore sources of waste;
- g) in the past landfill dependant on temporary waste management uses followed minerals extraction, whereas waste is increasingly being managed at permanent facilities that are located with suitable highways access in proximity to centres of population and therefore sources of waste;
- h) the Suffolk Lorry Route Network provides a recognised hierarchy of routes and aims to promote safety, protect amenity and avoid poorly located sites;
- i) significant areas of the county are within the statutory landscape designations of the Norfolk & Suffolk Broads, the Suffolk Coast & Heaths and Dedham Vale Areas of Outstanding Natural Beauty;
- j) significant areas of the east and west of the County within statutory ecological designations of Ramsar, Special Protection Areas, Special Areas of Conservation and Sites of Special Scientific Interest;
- k) the assumption is that future patterns of development including house building will be concentrating on existing centres of population;
- l) the Key Diagram is a broad-brush approach and will not show local designations or small-scale constraints.



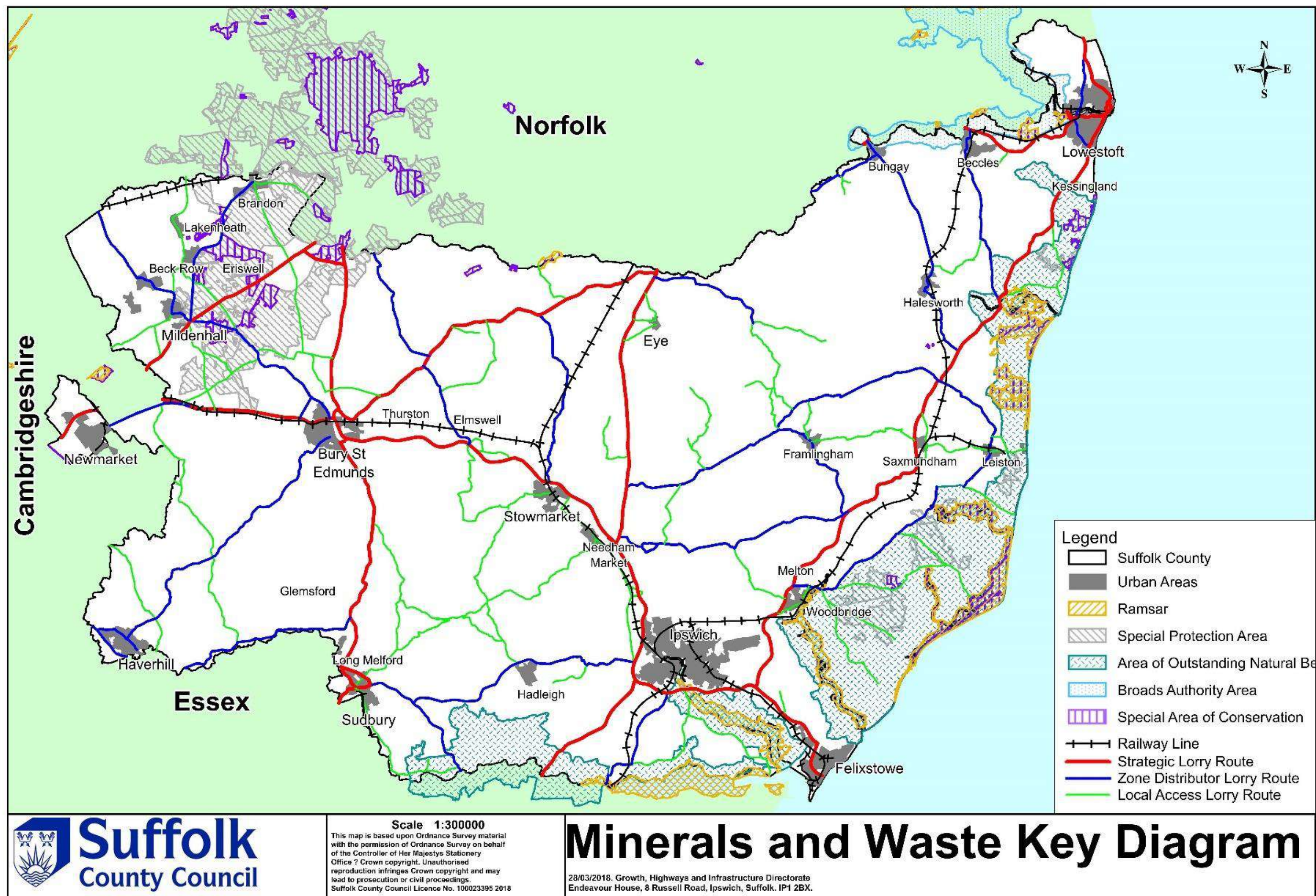
### **Policy GP3: Spatial strategy**

Preference will be given to proposals for minerals and waste development in accordance with the Key Diagram where individual sites are well related to the Suffolk Lorry Route Network (or rail network or navigation) major centres of population and do not have potentially significant adverse impacts upon features of environmental importance (natural or man-made) or endanger human health.

#### **Environmental criteria**

- 4.11 Policy GP4 below provides an environmental checklist for all planning proposals. The County Council will where appropriate consult widely on proposed developments and in doing will seek and take into account the views of statutory bodies including Historic England, Natural England, Environment Agency, the Highways Agency, the Marine Management Organisation and non-statutory bodies including the Royal Society for the Protection of Birds, as well as the local community.
- 4.12 The County Council recommends that applicants engage in pre-application discussions with the County Council and the relevant statutory and non-statutory organisations as a way of establishing the scope and the level of detail of the supporting information to be provided.
- 4.13 It is not the intention of the County Council to restate other policy documents or legislation within this policy, but to provide a general list of issues that would be appropriate to be taken into account when reaching a decision upon a particular planning application. This list has been derived from the issues that the NPPF, NPPW and PPG indicate should be taken into account.
- 4.14 Policy GP4 uses the phrase “potentially significant adverse impacts” which could be for example the loss or damage to designated sites of ecological value or to the setting of Scheduled Monument. The views of statutory and non-statutory consultees are of course vital in reaching a decision as to level of impact.







## **Policy GP4: General environmental criteria**

Minerals and waste development will be acceptable so long as the proposals, adequately access and address the potentially significant adverse impacts upon:

- a) pluvial, fluvial, tidal and groundwater flood risk;
- b) vehicle movements, access and the wider highways network;
- c) landscape character, visual impact, and protected landscapes;
- d) biodiversity;
- e) geodiversity;
- f) historic environment, heritage assets and their setting;
- g) public rights of way;
- h) neighbouring land-use;
- i) soil resources including the best and most versatile agricultural land;
- j) noise and vibration;
- k) air quality including dust and odour;
- l) light pollution;
- m) the local water environment;
- n) land instability;
- o) airfield safeguarding;
- p) the differential settlement of quarry backfilling;
- q) mud and aggregates on the road;
- r) litter, vermin and birds.
- s) (or the use of) alternative forms of transport including the use of rail freight shipping;

Proposals should where applicable meet or exceed the appropriate national or local guidelines for each criterion, including reference to any hierarchy of importance, and also comply with other policies of the development plan.

## 5. Minerals policies

### Provision of aggregates

- 5.1 The NPPF requires that Minerals Planning Authorities, including Suffolk County Council, should plan for a steady and adequate supply of aggregates.
- 5.2 Besides indigenous land-won sand and gravel, the supply of aggregates to Suffolk is made up from sand & gravel imported from surrounding counties, imported crushed rock, marine dredged sand & gravel, and indigenous and imported recycled construction, demolition & excavation waste (C, D & E waste).
- 5.3 Aggregates are vital for continued economic growth including house building. Aggregates are sold loose in an as-raised form or processed into different grades of fine and coarse aggregate, or they may be used to make concrete, mortar and asphalt or other products.
- 5.4 The issues to be taken into account in the provision of aggregates are set out in the NPPF and the PPG. This includes the preparation of a Local Aggregates Assessment based upon a rolling average of ten years' sales and a careful analysis of other factors.
- 5.5 The recently published draft Suffolk Local Aggregates Assessment (LAA) (2017 data) sets out in detail how the demand for construction aggregates is met within Suffolk. <https://www.suffolk.gov.uk/council-and-democracy/consultations-petitions-and-elections/consultations/minerals-and-waste-local-plan-issues-and-options-consultation/>
- 5.6 The LAA indicates the following.
  - a) Recycling is making an important contribution although potential further growth in use is limited by available C, D & E waste and limitations imposed by the quality of the recycled aggregates.
  - b) Imported crushed rock is also making an important contribution although further growth in use is uncertain due to constraints on the productive capacity of existing resources in the East Midlands, the capacity of transport infrastructure in the South West, the unfavourable currency exchange rate of resources in Europe, and the considerable demand for aggregates from projects such as HS2 and Hinkley Point C Nuclear Power Station.
  - c) Although there are large permitted reserves of marine dredged sand and gravel off the coast of East Anglia market forces dictate that the vast majority of this is landed in London or landed elsewhere and transported by rail to London.

- d) The long-term trend is that less land-won sand and gravel is being extracted due to diminishing resources of higher quality material, planning constraints, less intensive use of aggregates in construction.
- e) House building is often used as a proxy for forecasting the future demand for aggregates. However, housing completion rates continue to be significantly lower than Adopted Local Plan projections let alone ambitious future house building projections. Based on local authority figures, housing delivery across Suffolk is averaging at 2,228 each year. The total number of homes required to be delivered each year is around 3,000. Therefore, in order to achieve the planned number of homes, the current rate of delivery needs to increase by 35%. Further information is included in a report about Local Plans that went Suffolk County Council Cabinet on the 10 October 2017 which can be viewed by following the link.

<https://www.suffolk.gov.uk/council-and-democracy/consultations-petitions-and-elections/consultations/minerals-and-waste-local-plan-issues-and-options-consultation/>

- f) There are also number of significant infrastructure projects planned in Suffolk. However, how much aggregate will be required from local sources is unclear. Major road schemes have in the past relied upon imported crushed rock rather than sand and gravel from local quarries or borrow pits. Sizewell C may well do likewise if in fact it is ever built. Further information on Nationally Significant Infrastructure Projects (NSIP) can be found by following the link provided.

<https://www.suffolk.gov.uk/planning-waste-and-environment/major-infrastructure-projects/>

- g) The three-year sand and gravel sales average at 1.117 Mt per year is similar to the ten-year sales average of 1.112 Mt per year.
- h) Considering the above therefore, the approach taken has been to build in some flexibility into future provision to be made in the Plan.

## **Recycled Aggregates**

- 5.7 Over the last twenty years since the introduction of the Landfill Tax there has been a marked increase in the levels of recycled aggregates being produced, mainly from Construction, Demolition & Excavation waste (CD&E).



- 5.8 The recently published Suffolk Waste Study (SWS) sets out in detail the levels of waste management activity within Suffolk. <https://www.suffolk.gov.uk/council-and-democracy/consultations-petitions-and-elections/consultations/minerals-and-waste-local-plan-issues-and-options-consultation/>
- 5.9 In 2015 for example the SWS indicates that there were 0.529 Mt of C, D&E waste managed within Suffolk of which over 91.4% would be recycled, giving a total figure of 0.484 Mt of recycled aggregates per annum.
- 5.10 In addition, the energy from waste facility at Gt Blakenham recycles 0.060 Mt of bottom ash from Local Authority Collected Waste (LACW) into aggregates per annum.
- 5.11 The types of facilities where recycled aggregates are produced vary from purpose built fixed installations to temporary operations on construction sites. The latter does not require planning permission separately from the County Council. Although the SWS does not indicate a specific capacity gap for aggregates recycling facilities in Suffolk, a proposal for such a facility is included at in the Plan at Cavenham Quarry.
- 5.12 If, in the future proposals for aggregates recycling facilities requiring planning permission are made, then there are criteria-based policies included within the Plan.
- 5.13 All permitted recycled aggregates facilities are safeguarded within the Plan from other forms of competing development.

### **Importation of crushed rock**

- 5.14 Suffolk has no indigenous resources of crushed rock and therefore relies on supplies imported by road, rail or sea. Crushed rock is used primarily in the production of asphalt for road maintenance and construction due to its strength and roughness.
- 5.15 There are a number of railheads located along the A14 and wharves at Ipswich and Lowestoft used for the importation of crushed rock. There is also a wharf at Lowestoft that is used for the importation of armour stone for use in sea defence works.
- 5.16 Although it is not possible to reveal the precise tonnages of crushed rock imported due to commercial confidentiality, it is significant.
- 5.17 Generally speaking planning permission is not required for wharves or railheads handling crushed rock except where significant infrastructure is required.

- 5.18 All railheads and wharves handling crushed rock are safeguarded within the Plan from other forms of competing development.

#### **Landing of marine dredged sand & gravel**

- 5.19 There are licences for the dredging of up to 9 Mt of sand & gravel off the coast of the East Anglia on an annual basis. Although a significant proportion of this total is dredged, the vast majority of this is landed in London, or sent to London by rail having been landed elsewhere. This is due to the lack of indigenous supplies of aggregates in London.
- 5.20 Although it is not possible to reveal the precise tonnages of marine dredged sand and gravel sold in Suffolk due to commercial confidentiality, it is not very significant compared to the overall level of licenced resources.
- 5.21 Generally speaking planning permission is not required for wharves or railheads handling sand and gravel except where significant infrastructure is required.
- 5.22 All aggregates railheads and wharves handling marine dredged sand & gravel are safeguarded within the Plan from other forms of competing development.

#### **Provision of land won sand & gravel**

- 5.23 In the 1990s the first Suffolk Minerals Local Plan was based on an annual sub-regional apportionment figure for sand & gravel of 2.43 Mt per annum. In the 2000s the Suffolk Minerals Core Strategy was based initially upon a sub-regional apportionment of 1.73 Mt per annum, which was later revised to 1.62 Mt per annum based on the revised national guidelines.
- 5.24 Suffolk has always sought to meet the sub-regional apportionment, and national guidelines in past Plans and will seek to meet the projected level of sales based on an average of the last ten years' sales within this Plan.
- 5.25 Suffolk has also always sought to maintain a landbank of permitted sand and gravel reserves of at least 7 years which is still a requirement of the NPPF. Historically the annual figure was based on the sub-regional apportionment or the revised national guidelines. The intention now is that this to will be based upon the average of the last ten years' sales in accordance with the NPPF and will be calculated in the annual LAA each year.
- 5.26 The average sales of sand and gravel in Suffolk for the ten years to the 31 December 2017 was 1.112 Mt.
- 5.27 The landbank of permitted sand and gravel reserves on the 31 December 2017 was 11.822 Mt.

- 5.28 If the landbank of permitted reserves is divided by the average of the last ten years' sales, this would be equivalent to 10.63 years' sales, so that in theory if the average of sales was projected forwards then all of the presently permitted reserves of sand and gravel would run out in July 2028.
- 5.29 The Plan period ends on the 31 December 2036. Therefore, the shortfall in permitted reserves is equivalent to 8.37 years or 9.300 Mt based on the 10-year average of 1.112 Mt.
- 5.30 The following policy sets the level of provision for land won for sand and gravel in the Plan period.

#### **MP1: Provision of land won sand and gravel**

The County Council will allocate sites for the extraction of sand and gravel sufficient to supply 9.300 Mt over the Plan period to the end of 2036. It will also seek to maintain a landbank of permitted reserves of at least 7 years based upon the average of the last ten years' sales and calculated in the annual Local Aggregates Assessment.

#### **Proposed sites for sand and gravel extraction**

- 5.31 The SMLWP allocates the following sites listed in Policy MP2 for sand and gravel extraction. Policy MP1 above states that the County Council will allocate sites containing 9.300 Mt of sand and gravel. Analysis of the submitted information in the relevant Site Assessment Reports indicates that these sites in total contain 14.770 Mt.
- 5.32 However, taking into account the proposed start dates and levels of production at new sites, it is estimated that at least 2.59 Mt of the 14.770 Mt will still remain to be worked which reduces the resources likely to be worked within the plan period to 12.180 Mt.
- 5.33 This would leave a safety margin of 31% which is not considered excessive when considering the uncertainties of future demand for sand and gravel and potential future problems that might arise that prevent one or more of the proposed sites from being developed.
- 5.34 A further reduction to the potential resources is likely due to planning constraints introduced by the Plan. This mainly relates to the requirement to safeguarding existing field boundaries within sites because of the landscape and ecological importance.

## **Policy MP2: Proposed sites for sand and gravel extraction**

The County Council will grant planning permission for sand and gravel extraction from within the following specific sites, as shown on the proposals map, subject to the other relevant policies of the Development Plan.

- a) Site M1 Barham
- b) Site M2 Barnham
- c) Site M3 Belstead
- d) Site M4 Cavenham
- e) Site M5 Layham
- f) Site M6 Tattingstone
- g) Site M7 Wangford
- h) Site M8 Wetherden
- i) Site M9 Wherstead
- j) Site M10 Worlington

### **Borrow Pits**

- 5.35 Borrow pits are in the Suffolk context sand and gravel workings used exclusively for a particular construction project, typically new road construction. The term “borrow pit” comes from the fact that sometimes the extracted sand and gravel is replaced in the resulting void space by surplus low-quality materials such as silt which are not strong enough to carry the weight of the new road or other structure. The main advantage of borrow pits is that they are normally very close to the construction project and are often connected to that project by routes which do not use the public highway.

### **Policy MP3: Borrow pits**

Borrow pits to provide sand and gravel to serve major civil engineering projects will be acceptable as long as:

- a) they are within 10 km of the project site;
- b) the borrow pit is worked and reclaimed as part of the project;
- c) they comply with the general environmental criteria Policy GP4.

### **Agricultural and public supply reservoirs**

- 5.36 From time to time proposals are made for the creation of reservoirs or flood alleviation schemes that involves the extraction of sand gravel and its removal from site. These reservoirs besides providing water storage capacity can also be a significant source of sand and gravel to supply the general market.

### **Policy MP4: Agricultural and public supply reservoirs**

Proposals for the extraction of minerals (which would involve the removal of mineral off site) to enable the construction of a reservoir for agriculture, flood alleviation and/or public water supply will be permitted where there is a demonstrated need for the storage of water at the capacity proposed at the given location and subject to the proposals complying with the general environmental criteria Policy GP4.

### **Cumulative environmental impacts and phasing of workings**

- 5.37 Minerals can only be worked where they occur, which is not everywhere. Where viable minerals deposits are present, sometimes more than one minerals company may wish to exploit them at sites which are located closely. This can multiply the impacts of operations to an extent that they become unacceptable. This policy aims to provide clarity as to how the County Council will consider such circumstances.



### **Policy MP5: Cumulative environmental impacts and phasing of workings**

Where a proposed minerals site is considered acceptable (in its own right) but the cumulative impact of a proposal in conjunction with other existing, permitted or allocated minerals sites or other development in the proximity is considered unacceptable, the proposal may be considered acceptable if phased so that one site follows the completion of the other or it can be demonstrated that the adverse cumulative impacts can be adequately mitigated.

### **Progressive working and restoration**

- 5.38 Progressive working and restoration refers to the working of a quarry in phases. For example, some phases of the quarry might be as yet undisturbed. One phase of the quarry would be having the soils and overburden stripped off to reveal the underlying sand and gravel. Another phase would be subject to sand and gravel extraction operations. One phase would be having the soils and overburden replaced following sand and gravel extraction. Another phase would be under a five-year aftercare period following the replacement of the soils. In this way, the area of land actively being worked for sand and gravel is only a part of the overall site at any one time.
- 5.39 In terms of the proposed after-use, applicants should note that ecological interest can be incorporated into most schemes that are primarily for another after-use, such as agriculture for example.

### **Policy MP6: Progressive working and restoration**

Proposals for new mineral workings should be accompanied by a scheme for the progressive working and restoration of the site throughout its life.

Preference will be given to restoration proposals that incorporate a net gain for biodiversity with the creation and management of priority habitats and that support protected priority and Red Data Book Species and/or that conserve geological and geomorphological resources. Such habitats, species and resources should be appropriately and sustainably incorporated into restoration proposals focussed on flood alleviation, reservoirs, agriculture, forestry, amenity, or ecology. Providing links to surrounding habitats is also encouraged.

## **Aftercare**

- 5.40 The outline strategy sets the general parameters of the proposed action required to bring the restored land up to the required standard for the intended after-use. For agricultural after-use for example this can entail a particular pattern of cultivation etc. During the five-year period annual reports are submitted for the approval of the County Council following a site meeting to establish any further action that is required such as the installation of land drainage etc.

### **Policy MP7: Aftercare**

Where the proposed restoration is to an agriculture, forestry, amenity or ecology after-use following minerals extraction, an outline aftercare strategy of five years or more is required prior to the determination of the planning application. The outline strategy should set out the land management proposed to bring the restored land up to the required standard for the proposed after-use. The outline strategy should also allow for additional measures that may be required following the annual aftercare inspection and the subsequent submission of a finalised version of the annual aftercare report detailing the actions required.

## **Concrete batching plants and asphalt plants**

- 5.41 Minerals can only be worked where they occur, which normally within the open countryside. Ancillary development such as concrete batching plants and asphalt plants would not normally be allowed in the open countryside in the absence of adjacent minerals workings and therefore should be removed once minerals extraction has ceased.

### **Policy MP8: Concrete batching plants and asphalt plants**

Proposals for concrete batching plants or asphalt plants at sand and gravel quarries must stipulate the proportion of indigenous sand and gravel that will be used in the production of ready mixed concrete or asphalt.

At sand and gravel quarries, planning permission will be limited to the end date of the quarry planning permission or the when the indigenous material is no longer being used, whichever is the sooner.

Any proposals for concrete batching plants or asphalt plants that are County matters must also comply with the environmental criteria set out in Policy GP4.

## **Safeguarding of port and rail facilities, and facilities for the manufacture of concrete and asphalt**

- 5.42 As important as proposing new minerals development is safeguarding existing, planned or potential facilities from other forms of competing development.
- 5.43 The Government's East Inshore and East Offshore Marine Plans published in 2014 includes Policy PS3 which also refers to the safeguarding of port facilities and can be viewed by following the link provided:

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/312496/east-plan.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/312496/east-plan.pdf)

### **Policy MP9: Safeguarding of port and rail facilities, and facilities for the manufacture of concrete, asphalt and recycled materials**

When proposals are made which would result in the loss of or might potentially compromise the use of:

- a) an existing, planned or potential rail head, wharf or associated storage, handling or processing facilities for the bulk transport by rail or sea of minerals, including recycled, secondary and marine-dredged materials, and/or;
- b) an existing, planned or potential site for concrete batching, the manufacture of coated materials, other concrete products or the handling, processing and distribution of substitute, recycled and secondary aggregate material;

applicants will be required to demonstrate to the County Council that those sites no longer meet the needs of the aggregates industry. Where this is not the case, satisfactory alternative handling facilities should be made available by the developer. Development proposals in close proximity to the above minerals related facilities should demonstrate that they would not prejudice or be prejudiced by those facilities.

Any mitigation required falls on the development that receives planning permission last.

District and Borough Councils should consult the County Council when a potentially conflicting proposal falls within the 250 metre safeguarding zones as defined in the Appendix 3 Safeguarding Maps. The County Council will then refer to Policies MP9 before providing a consultation response.

## **Minerals consultation and safeguarding areas**

- 5.44 Paragraph 143 of the NPPF states that in preparing local plans, local authorities should:

“define Minerals Safeguarding Areas and adopt appropriate policies in order that known locations of specific minerals resources of local and national importance are not needlessly sterilised by non-mineral development, whilst not creating a presumption that resources defined will be worked; and define Minerals Consultation Areas based on these Minerals Safeguarding Areas.”

- 5.45 The County Council has defined the Minerals Safeguarding Areas (MSAs) based upon sand and gravel resource information provided by the British Geological Survey. The Minerals Consultation Areas (MCAs) are slightly larger because a buffer of 250 metres has been added around the edges. This additional buffer is designed to avoid potential sterilisation issues arising because of conflicts with potentially sensitive land-uses such as proposed residential development. It is expected that Local Plans will include policies that safeguard minerals if the County Council highlights particular sites during their consultation stages.

### **Policy MP10: Minerals consultation and safeguarding areas**

The County Council will safeguard:

- a) those Minerals Safeguarding Areas located within the Minerals Consultation Areas identified on the Proposals Map from proposed development in excess of five hectares which is not in accordance with the Development Plan. The County Council will, when consulted by the Local Planning Authority, object to such development unless it can be shown that the sand and gravel present is not of economic value, or not practically or environmentally feasible to extract, or that the mineral will be worked before the development takes place;
- b) areas falling within 250m of an existing, planned or potential site allocated in the Plan for sand and gravel extraction. The MPA will advise the Local Planning Authority whether any proposed development might prejudice the future extraction of minerals and should be refused, or whether such development itself might be prejudiced by proposed mineral working.

District and Borough Councils should consult the County Council when a potentially conflicting proposal falls within the Minerals Safeguarding Area as defined on the Proposals Map. The County Council will then refer to Policy MP10 before providing a consultation response

## **6. Waste policies**

### **Provision of waste management facilities**

- 6.1 The NPPW requires that Waste Planning Authorities, including Suffolk County Council, should identify sufficient opportunities to meet the identified needs for their area for the management of waste streams.
- 6.2 Since the introduction of the Landfill Tax in 1996 there has been a radical change in the way in which waste is managed. Before Landfill Tax was introduced in 1996 most waste was landfilled. Now waste management options further up the waste hierarchy predominate. In order of preference the waste hierarchy is:
- a) prevention;
  - b) preparing for re-use;
  - c) recycling;
  - d) other recovery, and;
  - e) disposal.
- 6.3 In terms of planning this means a change from continually planning for new and extended temporary landfills in former quarries and instead the emphasis is now upon permanent fixed facilities in employment areas or on other suitable sites. This Plan is mainly concerned with recycling, other recovery and disposal.
- 6.4 An important goal in the Plan is to aim for net self-sufficiency. Whereby the County Council aims to manage an amount of waste equal to that arising in Suffolk, whilst acknowledging that waste is transported between different areas of the Country. The Plan also has to take into account of the potential to receive London Waste.
- 6.5 The recently published Suffolk Waste Study (SWS) sets out the existing and projected levels of waste arising together with the existing waste management capacity for the following waste streams:
- a) Local Authority Collected Waste (LACW);
  - b) Commercial and Industrial Waste (C&I);
  - c) Construction, Demolition and Excavation Waste (CD&E);
  - d) Hazardous Waste;
  - e) Radioactive Waste, and:

f) London Waste

6.6 The SWS can be found by follow the link provided below.  
<https://www.suffolk.gov.uk/council-and-democracy/consultations-petitions-and-elections/consultations/minerals-and-waste-local-plan-issues-and-options-consultation/>

6.7 The SWS indicates that:

- a) there is no identified shortfall in waste management facilities at the present time;
- b) there is sufficient landfill capacity within Suffolk to last until the end of the Plan period in 2036;
- c) LACW arisings will potentially rise to 0.470 Mt per annum in 2036 from 0.397Mt in 2015;
- d) projections for C&I waste diverge to the extent that by 2036 the high scenario would be 1.039 Mt per annum and the low scenario would be 0.531 Mt per annum from a figure of 0.785 Mt in 2015;
- e) the projections for CD&E indicates that levels of arisings per annum will decrease from 0.517 Mt in 2015 to 0.350 Mt in 2036;
- f) hazardous waste (HAZ) is projected to decrease from 0.044 Mt in 2015 to 0.031 in 2036.
- g) no London Waste has been landfilled within Suffolk for a number of years and therefore it is not considered necessary to plan to receive any;
- h) the amount of radioactive waste to be managed is very small and because it can either be accepted at normal landfills or at very specialised national facilities elsewhere it is not considered necessary to plan any provision.

### **Management of waste**

6.8 The following policy indicates the levels of waste management development that is expected over the Plan period to 2036. The figures are derived from the SWS and further detail is available within that document. The figures are not limits but are indicative. Although there is not an immediate identified shortfall in waste management facilities when the need arises the following policies are in place.

**Policy WP1: Management of waste (Mt)**

The County Council anticipates the following annual levels of waste arisings for which appropriate waste management facilities will be granted planning permission, provided they are in accordance with the Waste Hierarchy and the policies of the Development Plan and there are no other material considerations which indicate otherwise.

	<b>2015/16</b>	<b>2020/21</b>	<b>2025/26</b>	<b>2030/31</b>	<b>2035/36</b>
LACW	0.397	0.415	0.433	0.452	0.470
C&I	0.795 to 0.769	0.857 to 0.697	0.960 to 0.632	1.039 to 0.574	1.039 to 0.531
CD&E	0.517	0.469	0.434	0.386	0.350
HAZ	0.044	0.039	0.034	0.031	0.031

**Proposed sites for radioactive waste management**

- 6.9 This policy applies to all sites proposed for waste management. Only one site is named in the policy. Unnamed sites would be determined in accordance with Policy GP1.
- 6.10 Sizewell A Nuclear Power Station is currently undergoing decommissioning. This involves the treatment and temporary storage of radioactive waste. The reactor has been de-fuelled already with the fuel being transported off site to Sellafield. Other less radioactive materials remain on site. Policy WP16 below specifically refers to applications for the treatment and storage of waste at Sizewell Nuclear Power Station. Only if the proposal includes the importation of radioactive waste from elsewhere would it be determined by the County Council.

**Policy WP2: Proposed site for radioactive waste management**

The County Council will grant planning permission for radioactive waste management on the following specific site, as shown on the proposals map, subject to the other relevant policies of the Development Plan.

- a) Site W1 Sizewell A Nuclear Power Station



## **Existing or designated land-uses potentially suitable for waste development**

- 6.11 Only one site has been proposed for waste development in the SMWLP. Planning applications for waste development on other sites will need to comply with policy WP3.

### **Policy WP3: Existing or designated land-uses potentially suitable for waste development**

General waste management facilities (other than landfill sites and waste water treatment facilities) may be acceptable within the following areas:

- a) land in existing waste management use;
- b) land in existing general industrial use (B2 use class) or in existing storage or distribution use (B8 use class) (excluding open air composting);
- c) land allocated for B2 and B8 purposes in a local plan or development plan document (excluding open air composting);
- d) within or adjacent to agricultural and forestry buildings;
- e) agricultural and forestry land (open air composting only);
- f) brownfield land (excluding open air composting);
- g) former airfields (open air composting only);
- h) waste water treatment facilities (composting and anaerobic digestion only);
- i) current and former mineral workings (open air composting and construction, demolition and excavation waste recycling only).

Proposals must also comply with the environmental criteria set out in Policy GP4.

## **Household waste recycling centres**

- 6.12 Household waste recycling centres provide a valuable service to local communities by providing a facility whereby households can bring bulky goods for recycling or disposal. Limited trade waste is also accepted.

#### **Policy WP4: Household waste recycling centres**

Household waste recycling centres may be acceptable within purpose designed or suitably adapted facilities on land within the land uses identified within Policy WP3.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration activity is taking place on site. Any temporary planning permissions will be linked to the time limits relating to the landfill activities on site.

Where it can be demonstrated that no suitable sites consistent with Policy WP3 are available within the area to be served by the household waste recycling centre, household waste recycling centres may be acceptable on other sites provided these are consistent with Policy GP4 and are accessible to the public.

#### **Open air composting**

- 6.13 Open air composting is a cost-effective way of recycling green waste so long as it is carefully sited and managed. It involves the piling of green waste in windrows in the open air to promote aerobic degradation. The windrows must be turned regularly, turned to prevent over-heating and anaerobic conditions forming which can give rise to odours.

#### **Policy WP5: Open air composting**

Open air composting facilities may be acceptable on land within the uses identified within Policy WP3.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration is taking place on site.

Proposals for open air composting will not be approved unless they are accompanied by a site-specific risk assessment which shows that the bio-aerosol levels can be maintained, throughout the life of the operations, at appropriate levels at dwellings or workspaces within 250m of a facility. Appropriate schemes for the management of odours and dust will also be required.

Proposals must also comply with the environmental criteria set out in Policy GP4.

## **In-vessel composting facilities**

- 6.14 In-vessel composting facilities promote aerobic degradation of organic waste including green waste and/or food waste within tunnels that have forced air pumped into and extracted out of them and then discharged to the atmosphere via bio-filters that remove odours. The main advantage of this system over open-air composting is that it can take food waste including meat because the requisite temperature can be reached and maintained so that harmful bacteria can be neutralised.

### **Policy WP6: In-vessel composting facilities**

Enclosed composting facilities may be acceptable on land within the uses identified within Policy WP3.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration is taking place on site.

Proposals for enclosed composting will not be approved unless they are accompanied by a site-specific risk assessment which shows that the bio aerosol levels can be maintained at appropriate levels at dwelling or workspaces within 250m of a facility. Appropriate schemes for the management of odours and dust will also be required.

Proposals must also comply with the environmental criteria set out in Policy GP4.

## **Anaerobic digestion**

- 6.15 Anaerobic digestion facilities promote anaerobic degradation of organic wastes such as animal wastes, energy crops, and vegetable tailings. The process involves introducing the feedstock into a tank of bacteria rich slurry. This process produces methane gas that is normally used to drive a diesel generator and export the electricity to the grid. The main advantage of this over composting is that electrical power is produced.

### **Policy WP7: Anaerobic digestion**

Anaerobic digestion facilities may be acceptable on land:

- a) within the uses identified within Policy WP3; or
- b) integrated with waste water treatment plants.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration is taking place on site.

Proposals must also comply with the environmental criteria set out in Policy GP4.

### **Proposals for recycling or transfer of inert and construction, demolition and excavation waste**

6.16 The recycling of construction, demolition or excavation waste makes a significant contribution to meeting aggregates demand and lessen pressure on land won and marine dredged sources. Although a sustainable source of aggregates the local environmental impacts of the recycling sites are akin to traditional quarries.

### **Policy WP8: Proposals for recycling or transfer of inert and construction, demolition and excavation waste**

Proposals for recycling or transfer of inert and construction, demolition and excavation waste will be acceptable on land within the uses identified within Policy WP3.

At mineral sites, planning permission will be limited to the life of the mineral operation.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration is taking place on site.

On land suitable for General Industrial or Storage & Distribution uses, activities shall take place within purpose-designed facilities.

Proposals must also comply with the environmental criteria set out in Policy GP4.

**Waste transfer stations, materials recycling facilities, end of life vehicle facilities and waste electrical and electronic equipment recovery facilities**

- 6.17 The main function of a waste transfer facilities is to facilitate the efficient transportation of waste by sorting loads from small collection vehicles such as skip lorries and reloading onto much larger lorries including articulated lorries for onward transportation.
- 6.18 Materials recycling facilities are where recyclable wastes are separated into their different types for onward transportation to recyclers. The remaining waste called residual waste is either sent to landfill or a treatment facility such as an energy from waste facility.
- 6.19 End of life vehicle facilities remove potential pollutants from vehicles, remove the usable parts and sent the scrap items off to recyclers.
- 6.20 Electronic equipment recovery facilities sell on the products for re-use, recycle or deposit.

**Policy WP9: Waste transfer stations, materials recycling facilities, end of life vehicle facilities and waste electrical and electronic equipment recovery facilities**

Waste transfer stations, material recycling facilities, end of life vehicle facilities and waste electrical and electronic equipment recovery facilities may be acceptable within purpose designed or suitably adapted facilities on land within the uses identified within Policy WP3.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration is taking place on site.

Proposals must also comply with the environmental criteria set out in Policy GP4.

**Residual waste treatment facilities**

- 6.21 Policy WP10 sets out the criteria for the consideration of proposals for residual waste treatment facilities. This policy covers both very large and small facilities. There are various residual waste treatment technologies.

- 6.22 Energy from Waste (EfW) is one such technology, which involves the controlled combustion of waste and the use of the waste heat for electricity generation and sometimes a district heating system.
- 6.23 Many much EfW smaller systems use waste to supply heat to help dry out other wastes such as plasterboard.
- 6.24 Another technology is Mechanical and Biological Treatment (MBT) whereby waste is macerated and placed in a large hall and turned by a bucket wheel. This composting has the effect of reducing the volume by 50% or more and reducing the biodegradation potential of the residue. The residue is either then landfilled at a reduced taxation rate or processed further to make a fuel.

#### **Policy WP10: Residual waste treatment facilities**

Residual waste treatment facilities may be acceptable where the proposed facility is:

- a) on land within the land-uses set out in Policy WP3, and;
- b) the proposals meet the environmental criteria set out in Policy GP4.

Proposals for such facilities at landfill sites may be considered acceptable on a temporary basis whilst landfilling and restoration is taking place on site.

The treatment of waste that could practicably be recycled or composted will not be acceptable. Conditions will be placed on planning permissions to ensure that only residual source-separated or pre-sorted waste is treated. Facilities that burn waste must provide for the recovery of energy and the use of combined heat and power will be encouraged.

#### **Approval of sites for disposal of inert waste by landfilling or landraise**

- 6.25 Proposals for the disposal of inert waste are important for the restoration of former minerals workings. It can allow a much more satisfactory landform to be achieved and provide a more suitable growing medium on sites where soils are very thin or of poor quality.

### **Policy WP11: Approval of sites for disposal of inert waste by landfilling or landraise**

Additional void space or areas of landraise for the deposit of inert waste may be acceptable where:

- a) the importation of inert waste is required for restoration of a former mineral extraction void or;
- b) the importation of inert waste is required for agricultural improvement;
- c) and there is no acceptable alternative form of waste management further up the Waste Hierarchy that can be made available to meet the need, and;

The proposals comply with the environmental criteria set out in Policy GP4.

The landfilling of inert waste that could practicably be recycled will not be acceptable. Conditions will be placed on planning permissions to ensure that only pre-sorted wastes are landfilled.

### **Approval of sites for disposal of non-hazardous or hazardous waste by landfilling or landraising**

- 6.26 Even though such proposals are much rarer than in the past due to raised levels of recovery, proposals for the disposal of non-hazardous waste by landfilling or landraising may be made in connection with existing non-hazardous sites.

### **Policy WP12: Disposal of non-hazardous or hazardous waste by landfilling or landraising.**

Additional void space or areas of landraising for the deposit of non-hazardous or hazardous waste may be acceptable where:

- a) no alternative form of waste management can be made available to meet the need, and;
- b) The proposals comply with the environmental criteria set out in Policy GP4.

The landfilling of waste that could practicably be recycled, composted or recovered will not be acceptable.

For non-hazardous waste conditions will be placed on planning permissions to ensure that only residual source-separated or pre-sorted waste is landfilled. Proposals for landfill gas energy recovery will be required.

## **Mining or excavation of landfill waste**

- 6.27 The mining of waste involves the recovery of materials from an existing landfill site by extracting and processing the deposited waste. The excavation of waste also involves the extraction of waste but does not encompass the recovery of materials.
- 6.28 The mining or excavation of putrescible and/or inert waste has the potential to give rise to significant environmental issues. In the case of putrescible waste, this potentially could result in the rapid release of leachate, landfill gas, and odours. The mining or excavation of waste may also disturb previously restored sites or delay the final restoration of sites. Considering the above it is therefore concluded that there are only certain circumstances where waste mining or excavation are justified.

### **Policy WP13: Mining or excavation of landfill waste**

The mining or excavation of landfill waste will be considered favourably where it is demonstrated clearly that:

- a) without mining or excavation of waste, the site is posing a significant risk to human health or safety, and/or;
- b) without mining or excavation of waste, the site is posing a significant risk to the environment or;
- c) removal is required to facilitate a major infrastructure project or;
- d) the proposals would result in the management of the excavated waste higher up the waste hierarchy and there would be significant local and global environmental benefits in doing so;
- e) and the proposals include detailed information upon how the types of waste deposited within the landfill are to be managed;
- f) and the proposals comply with the environmental criteria set out in Policy GP4.

It must be demonstrated that any waste can be handled and if necessary removed from the site without posing additional significant risk to human health or safety, or to the environment.



## **Waste water treatment**

- 6.29 With increasing populations and water quality standards there is continuing investment being made into waste water treatment. Although changes made to permitted development rights have sought to remove the need for planning applications for very small developments there are still applications that need to be determined.

### **Policy WP14: Waste water treatment facilities**

New or extended waste water treatment facilities may be acceptable where such proposals aim to improve the quality of discharged water or reduce the environmental impact of operation. The developer will be required to demonstrate that the proposal can be located without giving rise to unacceptable environmental impacts.

Proposals must also comply with the environmental criteria set out in Policy GP4.

## **Transfer, storage, processing & treatment of hazardous waste**

- 6.30 Hazardous waste travels considerable distances to specialised facilities so that the Country is truly interdependent. Volumes are small compared to the main waste streams.

### **Policy WP15: Transfer, storage, processing & treatment of hazardous waste**

Facilities for the transfer, storage, processing and treatment (including incineration) of hazardous waste will be acceptable on land:

- a) in existing general industrial use (B2), in storage and distribution use (B8) or identified for these uses in a development plan document or;
- b) integrated within an establishment producing much of the waste that will be dealt with.

Facilities for the transfer and short-term storage of hazardous waste will also be acceptable on existing waste management sites identified as having potential for non-hazardous waste transfer where hazardous waste will only represent up to 5% of waste managed on site.

Proposals must also comply with the environmental criteria set out in Policy GP4.

### **Treatment and storage of radioactive waste at Sizewell nuclear power stations**

- 6.31 Sizewell A Nuclear Power Station had two Magnox reactors and generated electricity between 1966 and 2006. Sizewell A is currently undergoing decommissioning. The most recent waste related planning application determined was for a Fuel Element Debris (FED) facility.
- 6.32 Sizewell B Nuclear Power Station has a single Pressurised Water Reactor (PWR) and started generating electricity in 1995 and is planned to continue generating until 2035. The most recent waste related planning application determined was for a dry fuel store.

#### **Policy WP16: Treatment and storage of radioactive waste at Sizewell nuclear power stations**

Planning permission for the treatment and/or interim storage of radioactive waste at Sizewell nuclear power stations may be granted within the licensed area subject to the applicant demonstrating that the proposed development:

- a) is consistent with national strategies for radioactive waste management;
- b) there are exceptional circumstances why the development is justified within the Suffolk Coasts & Heaths Area of Outstanding Natural Beauty;
- c) includes adequate measures to mitigate adverse impacts on the environment and local community or, as a last resort, proportionately compensate for or offset such impacts;
- d) is supported by robust economic and environmental assessments;
- e) utilises the existing rail link for the transportation of the radioactive waste unless it is demonstrated to be economically unviable, and;
- f) the proposals comply with the environmental criteria set out in Policy GP4.

## **Design of waste management facilities**

- 6.33 Policy WP17 sets out the criteria for the consideration of the design of waste management facilities. This policy is important particularly when large facilities such the Energy from Waste Facility at Gt Blakenham are planned, because such a large building is a significant feature in the landscape and so an attractive design is desirable.

### **Policy WP 17: Design of waste management facilities**

Waste management facilities will be considered favourably where they incorporate:

- a) designs of an appropriate scale, density, massing, height and materials;
- b) safe and convenient access for all potential users;
- c) schemes for the retention of existing and provision of new landscape features;
- d) measures which will protect, preserve and where practicable enhance the natural, historic environment including the setting and built environment, and:
- e) comply with Policy GP2.

## **Safeguarding of waste management sites**

- 6.34 The safeguarding of waste sites is necessary to protect them from other forms of development which might either directly or indirectly impact upon waste development. Likewise, applications for new development in the proximity to existing or proposed waste development should take into account any potential conflicts.

### **Policy WP18: Safeguarding of waste management sites**

The County Council will seek to safeguard existing sites and sites proposed for waste management use as shown on the Proposals & Safeguarding Maps and will object to development proposals that would prevent or prejudice the use such sites for those purposes unless suitable alternative provision is made.









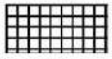


Development proposals in close proximity to existing sites, should demonstrate that they would not prejudice or be prejudiced by a waste management facility. The safeguarding policy will also apply to any site where planning permission has already been granted.

Any mitigation required falls on the development that receives planning permission last.

District and Borough Councils should consult the County Council when a potentially conflicting proposal falls within the 250 or 400 metre safeguarding zones as defined in the Appendix 3 Safeguarding Maps. The County Council will then refer to Policies WP18 before providing a consultation response.

## 7. Proposed minerals sites

- 7.1 The following inset maps show the proposed sites for sand and gravel extraction. For each site, relevant background information is provided for the benefit of potential applicants and the local community.

<b>Key</b>	
	Proposed Site
	Existing Site
	Statutory Landscape Designation (One of the following) -Area of Outstanding Natural Beauty -Norfolk & Suffolk Broads
	Non-Statutory Landscape Designation -Special Landscape Area
	Statutory Ecological Designation (One or more of the following) -Site of Special Scientific Interest -Special Protection Area -Special Area of Conservation -Ramsar Wetlands -National Nature Reserves -Local Nature Reserves
	Non- Statutory Ecological Designation -County Wildlife Site
	Suffolk Lorry Route Network
	Rights of Way
	Historic Parks and Gardens
	Conservation Area
	Scheduled Monument

## **8. Barham**

### **Proposed development**

- 8.1 The proposed developments represent modest extensions to the existing long-standing sand and gravel quarrying operations at Sandy Lane, Barham, which is operated by Brett.
- 8.2 Currently sand and gravel is extracted and transported to the processing area at nearby Shrubland Quarry. Restoration would entail the importation of inert fill materials but would need to maintain access to the geological deposits that the SSSI is noted for.
- 8.3 The established road access uses Sandy Lane, the C445 and the C492 (the old A45) to reach the access to Shrubland Quarry. None of these roads are part of the Suffolk Lorry Route Network. The route to Shrubland Quarry passes many residential properties.
- 8.4 These sites were previously included in the Suffolk Minerals Specific Site Allocations DPD, but no planning application was received due to the prevailing economic conditions.

### **Geology**

- 8.5 The supporting geological evidence indicates that a total extractable resource of 0.600 Mt is contained within the site that covers 6.858 ha. The deposit is similar to the existing workings being mainly sand.

### **Development Plan and planning applications**

- 8.6 Babergh District Council and Mid Suffolk District Council are currently preparing a joint local plan. Proposals for housing may be included close to the southeast of the existing site on agricultural land and along Sandy Lane. Housing developers are advised that they should provide adequate mitigation in respect of the permitted sand and gravel quarry (which is likely to be sufficient for the proposed extension areas).

### **Highways**

- 8.7 Hedgerow vegetation must be maintained so that it is kept clear of the visibility splay where the access joins Sandy Lane.

### **Landscape**

- 8.8 Working and restoration proposals should take into account the potential impacts on the wider landscape.

## **Historic Buildings**

- 8.9 The Grade 1 listed medieval church of St Mary lies approximately 350m SE. Shrublands Park which is Registered Park and Garden and is also on the Heritage at Risk Register lies approximately 250m NW. There is considered to be no impact upon the setting of either feature.

## **Archaeology**

- 8.10 The site has an extremely high potential for heritage assets with archaeological interest relating to a wide range of periods. Evidence for occupation of later prehistoric, Roman, Anglo-Saxon and Medieval date is recorded from the vicinity, derived principally from artefact scatters, including possible burial of Anglo-Saxon date (BRH 016).
- 8.11 Previous archaeological investigations undertaken ahead of the current phases of extraction, have identified settlement remains of Bronze-Age (BRH 015, BRH 043), Iron-Age (BRH 013, BRH015, BRH 024, BRH 043) and Roman (BRH 015, BRH 019, BRH 043) date.
- 8.12 The County Historic Environment Record (HER) also records that over many years' human skeletons and pottery have been recovered from the gravel workings immediately west of the proposed extensions. These burials are likely to be medieval, and Anglo-Saxon in date (BRH 009).
- 8.13 Of particular note is the high potential for faunal, environmental and possible artefactual remains of Palaeolithic date, associated with an intact palaeosol ('fossil' soil horizon) considered to have a composite origin dating from both the Cromerian and early Anglian stages (SSSI. Sandy pit, Barham).
- 8.14 There is a WWII pill box in the SW corner of the existing site which should be preserved.
- 8.15 An archaeological field evaluation, and deposit modelling for Palaeolithic potential will be required at an appropriate stage prior to the granting of any planning permission to allow for preservation in situ, where appropriate, of any sites of importance that might be defined (and which are currently unknown) and to allow archaeological preservation or mitigation strategies to be designed. Changes to the way the site is worked may be required to ensure that the Palaeolithic potential is properly managed and recorded.



## **Ecology**

- 8.16 Potential impacts upon nature conservation interest including Sandy Lane Pit, Barham geological SSSI, The Oak Wood/Broomwalk Covert County Wildlife Site, the underlying Groundwater Source Protection Zone and protected species including Otters, Bats and Great Crested Newts need to be adequately assessed and where necessary mitigation proposed.

## **Air Quality**

- 8.17 The extensions are both currently agricultural land. It is anticipated that operations would commence on site in 2020 and be operational for 11 years.
- 8.18 Air Quality near the site is currently good; there are no Air Quality Management Area declared by Mid Suffolk District Council (the closest AQMAs are over 6km south, within Ipswich).
- 8.19 There are three properties within 250m of the extension site boundaries, including two residential properties (Barham Lodge and Nursery Wood Lodge, both >200m) and another to the south which appears to be an agriculture related property (approx. 115m).
- 8.20 The SSSI is almost entirely encompassed within the boundary of the existing Barham Quarry boundary. The APIS database has not identified any sensitive features associated with this SSSI. There are no other statutory habitat sites within 250m of the proposed extensions.
- 8.21 There is a risk of cumulative impacts where extraction activities coincide with activities on the existing quarry site.
- 8.22 It is expected that an air quality assessment would be submitted with the planning application for the extensions which considers the potential impacts of increased dust and pollutant concentration associated with the extraction process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the sites to minimise the identified risk of impacts at the identified properties.

## **Noise**

- 8.23 Assuming standard mitigation measures such as the use of earth screening bunds as barriers, no other mitigation measures are required.

## **Public Rights of Way**

- 8.24 Footpaths run along and across the quarry access route but there have been no conflicts reported in the past.

## Floods

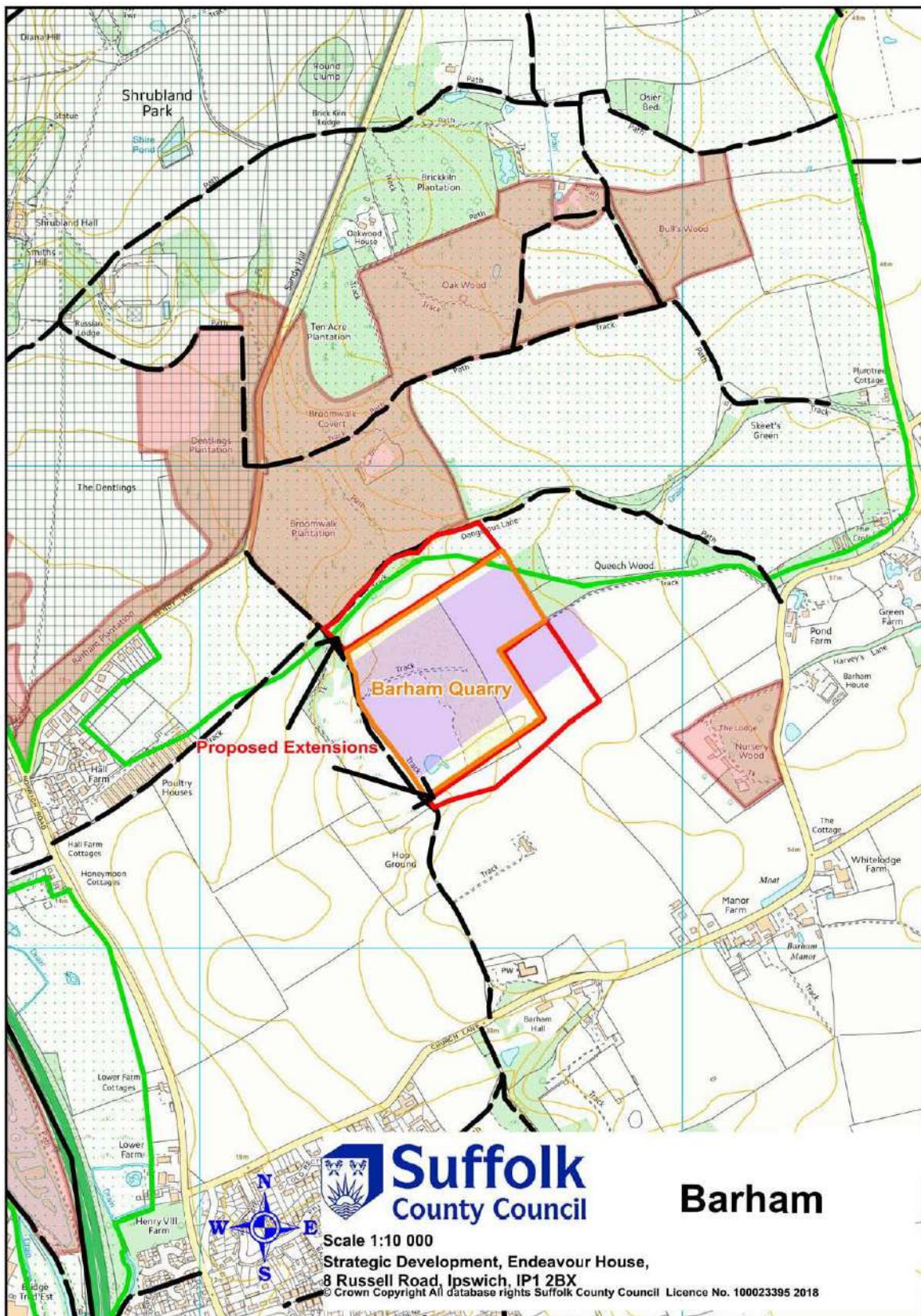
8.25 Proposals need to consider the potential implications for ground water resources and controlled waters.

### **Policy MS1: Barham**

Development will be acceptable so long as the proposals, adequately address the following:

- a) the cutting of vegetation within the visibility splay where the quarry access joins Sandy Lane;
- b) the impact of the proposals upon the boundary vegetation and the wider Special Landscape Area;
- c) the provision of an archaeological field evaluation and deposit modelling for Palaeolithic potential at depth;
- d) potential impacts upon natural history interests including Sandy Lane Pit Barham SSSI, the Oak Wood/Broomwalk Covert County Wildlife Site, and protected species including Otters, Bats, Great Crested Newts, Turtle Dove and Nightingale;
- e) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- f) the provision of measures to mitigate noise;
- g) the shared use of the public footpath which also forms the quarry access, and;
- h) the implications for the underlying groundwater source protection zone and controlled waters.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.



## **9. Barnham**

### **Proposed development**

- 9.1 This is a proposed extension to an existing quarry that was originally granted planning permission to supply the construction of the A11 Elveden bypass. Although the soils were stripped from the surface and formed into a screening bund the sand and gravel were not required for the A11 construction.
- 9.2 The proposal is to work the area surrounding of the existing quarry. Working would be seasonal as with the existing planning permission and avoid the Stone Curlew nesting season. The intention is to import inert materials to aid restoration.
- 9.3 The proposed access to the site would utilize the existing permitted dump truck haul route which is 7km in length across farmland to Contract Farm. This would include the need for a signalised junction where the haul route crosses the B1106. From Contract Farm road going lorries would travel a short length of the former A11 which is now a private road until the lorries reach the B1106 and the wider highways network including the adjacent A11.
- 9.4 The B1106 is classified as a Local Access Lorry Route and the A11 as a Strategic Lorry Route in the Suffolk Lorry Route Network. Between Contract Farm and the B1106 the lorries would pass Elveden Church of England Primary School. The route would be reversed to bring in inert fill materials.

### **Geology**

- 9.5 The supporting geological evidence estimates a total resource of 2.570 Mt of sand and gravel within the site that covers 89.800 ha. Boreholes drilled in 1989 across parts of the site show an overall grading of 30% stone, 62% sand and 8% silt.

### **Development Plan and planning applications**

- 9.6 The proposed development straddles both Forest Heath District Council and St Edmundsbury District Council Areas.
- 9.7 There are no adopted or draft plan proposals or planning applications which conflict with the proposed developments.

### **Highways**

- 9.8 A safe crossing of the B1106 for dump trucks needs to be maintained as well as appropriate traffic management around school.

## **Landscape**

- 9.9 The site is located within a Special Landscape Area and suitable proposals for mitigation during working and restoration would be required.

## **Historic Buildings**

- 9.10 There are a number of historic buildings associated with the Barnham Atomic Bomb Store which is a Scheduled Monument and Barnham Camp.

## **Archaeology**

- 9.11 The Breckland landscape, particularly along river valleys, such as the Little Ouse, has been shown to have high potential for archaeological remains of prehistoric and later occupation.
- 9.12 Archaeological potential for later prehistoric occupation is indicated by cropmarks of numerous ring ditches (BNH 023, BNH 023, BNH 024, BNH 025, BNH 005, BNH 035, BNH 051) identified in the vicinity, which represent the remains of burial mounds, such as the Scheduled Bowl Barrows (NHLE 1018041, 1018099). Further evidence of prehistoric (BNH 040, BNH 009), Roman (ELV 004), Anglo-Saxon (BNH 001, BNH 030, BNH 007) and Medieval (BNH 003, BNH 022, BNH 068) occupation (BNH 022) comes from surface finds scatters, undated earthworks (BNH 055) and artefacts recovered by metal-detecting, recorded on the County Historic Environment Record (HER) and national PAS database.
- 9.13 The site also has potential with regards to WWI, WWII and Cold War military history, Barnham Camp (BNH 054), and which may relate to the Scheduled Atomic Bomb Store (NHLE 1020781).
- 9.14 There has been no systematic archaeological investigation of this site. The British Geological Survey records the presence of deposits, which have potential for Palaeolithic and faunal, environmental, and possible artefactual remains. Deposit modelling is needed to determine the level of this potential across the site.
- 9.15 Any planning application must be supported by the results of a programme of archaeological evaluation, including appropriate fieldwork, and should demonstrate the impacts of development/extraction on archaeological remains, including deposits with Palaeolithic potential, and proposals for managing those impacts.

- 9.16 Archaeological field evaluation, AND deposit modelling for Palaeolithic potential, will be required at an appropriate stage prior to the granting of any planning permission to allow for preservation in situ, where appropriate, of any sites of importance that might be defined (and which are currently unknown) and to allow archaeological preservation or mitigation strategies to be designed.
- 9.17 It is possible that following a program of archaeological assessment, some parts of this site may be found to contain heritage assets of sufficient significance to trigger NPPF 139, and therefore, potentially require preservation in situ.

## **Ecology**

- 9.18 Potential impacts upon nature conservation interest including Breckland SPA, Breckland SAC, Breckland Farmland/Little Heath/Thetford Heaths SSSI, Gorse Grassland CWS, Thetford Heath NNR, European Protected Species (Bats and Great Crested Newt), Priority Species, Other Protected Species, Priority Habitats (Lowland Heath). Appropriate surveys potentially leading to mitigation would be required.

## **Air Quality**

- 9.19 The site will potentially be operational for more than 30 years from 2018.
- 9.20 Air Quality near the site is currently good; the closest Air Quality Management Area is located approximately 26km southwest of the site, in Newmarket.
- 9.21 A number of residential properties lie within 250m of the proposed site boundary. This includes properties alongside Elveden Road to the east and west of the site.
- 9.22 The site encompasses parts of the Breckland SPA and Breckland Farmland SSSI and lies adjacent to the Breckland SPA/SAC and Thetford Heaths SSSI. Features sensitive to nitrogen deposition are identified by APIS for these sites.
- 9.23 The site is anticipated to generate 60 HGV movements per day, which is below the threshold defined within the IAQM/EPUK guidance, and therefore traffic emissions are unlikely to significantly increase local pollutant concentrations.
- 9.24 It is expected that an Air Quality Assessment would be submitted with the planning application for the site which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction process, and which defines the mitigation and monitoring which will be implemented at the site to minimise the identified risk of impacts at the identified receptors.

## **Noise**

- 9.25 In addition to standard noise mitigation measures such as the use of earth bunds as barriers, standoff buffer areas may be required.

## **Public Rights of Way**

- 9.26 The site abuts a strategic regional trail, Barnham Byway no.2 (Icknield Way) adjacent to the western edge of the site. An appropriate buffer zone would be required. The precise details of which would depend upon details of site bunding etc.

## **Floods**

- 9.27 Proposals need to consider the potential implications for ground water resources and controlled waters. Barnham is in a Groundwater Source Protection Zone.

## **Services**

- 9.28 Various services cross the site including a high-pressure gas pipeline, irrigation pipelines, and overhead power lines. Proposals need to show either how this infrastructure will be safeguarded or removed.



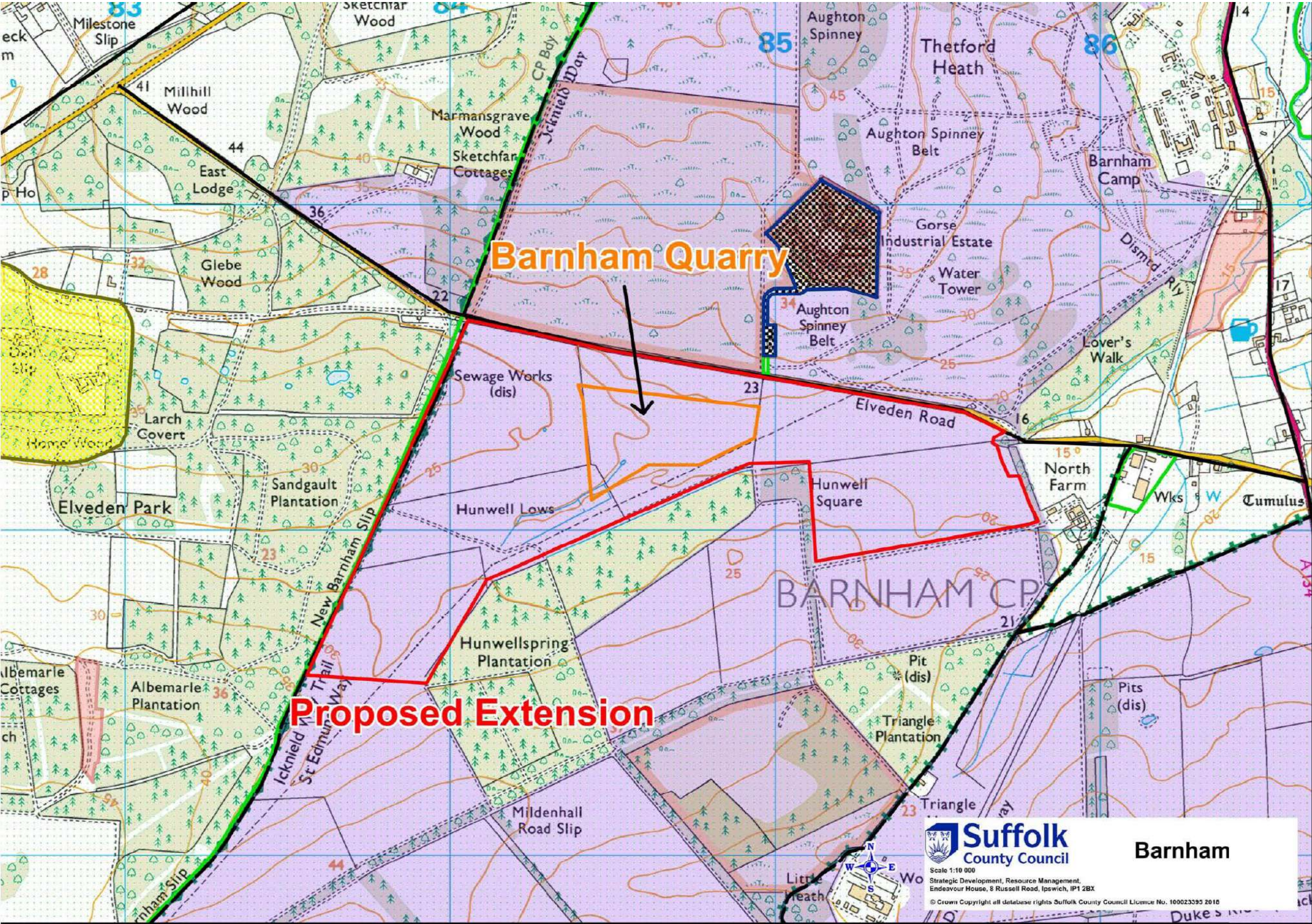
## **Policy MS2: Barnham**

Development will be acceptable so long as the proposals, adequately address the following:

- a) the seasonal working of the minerals to avoid the Stone Curlew nesting season;
- b) the importation of inert wastes to aid restoration;
- c) the use of an off-road haul route to reach the stockpiling area at Contract Farm
- d) the provision of a signalised junction where the haul road crosses the B1106;
- e) the storage of stockpiled material at Contract Farm;
- f) measures to maximise highway safety and minimise amenity impacts at Elveden Primary School;
- g) provision of a phased working and restoration scheme that is sympathetic to the Special Landscape Area and Brecks landscape;
- h) the provision of an archaeological field evaluation and deposit modelling for Palaeolithic potential at depth, leading potentially to if necessary preservation in situ of artefacts in parts of the site;
- i) measures to safeguard and enhance the setting Barham Atomic Bomb Store Scheduled Monument;
- j) potential impacts upon nature conservation interest including Breckland SPA, Breckland SAC, Breckland Farmland/Little Heath/Thetford Heaths SSSI, Gorse Grassland CWS, Thetford Heath NNR, European Protected Species (Bats and Great Crested Newt), Priority Species, other Protected Species, Priority Habitats (Lowland Heath);
- k) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- l) the provision of measures to mitigate noise;
- m) an appropriate buffer zone to safeguard the Icknield Way;
- n) the implications for the underlying groundwater source protection zone, controlled waters and flooding;
- o) the safeguarding or removal of all services which are within or close to the site;
- p) only inert waste materials would be used to help restore the site.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.







## **10. Belstead**

### **Proposed development**

- 10.1 The proposed development would involve sand and gravel extraction on land at Belstead which is currently in agricultural use. Some backfilling of the resultant void with inert wastes would follow.
- 10.2 The proposed access would be directly onto the grade separated junction via an existing agricultural access onto the A12 at Belstead.

### **Geology**

- 10.3 The supporting geological evidence estimates a total resource of 3.550 Mt of sand and gravel from the site which covers 34.990 ha. Boreholes drilled in 2017 across parts of the site show an overall grading of 31% stone, 63% sand and 6% silt.

### **Development Plan and planning applications**

- 10.4 There are no Babergh District Council adopted or draft plan proposals that conflict directly with the proposed site. At the time of writing there are no known planning applications which affect the site.

### **Highways**

- 10.5 Suitable access should be provided off the A12 junction.

### **Landscape**

- 10.6 All woodlands and wooded tracks (Historic Landscape Features) should be retained and a suitable stand-off distance maintained.

### **Historic Buildings**

- 10.7 Proposals should adequately assess if there would be potential impacts upon Bentley Old Hall which is a Grade II\* listed building and propose suitable mitigation if required. There are other listed buildings in the vicinity of the site that are considered not to be affected.

### **Archaeology**

- 10.8 The land in question occupies a topographically favourable position for human occupation, between Orwell and Stour valleys, and is in area of archaeological potential as recorded by information held by the County Historic Environment Record (HER).

- 10.9 Cropmarks of extensive pre-modern field systems are recorded from the vicinity (BSD 005, BTY 003), whilst the line of a Roman road passes west of the proposed extraction site. Evidence indicative of Prehistoric occupation (BTY 008, BTY 009, BSD 012), is known from the vicinity, and the site is bordered by large areas of ancient woodland (BTY 020, BTY 023) which may conceal further earthwork evidence. In addition to the potential for near surface archaeological remains, the site includes sub-surface deposits of Quaternary date with potential for Palaeolithic archaeology and Pleistocene faunal remains.
- 10.10 An archaeological investigation will be required, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth).

### **Ecology**

- 10.11 Potential impacts upon nature conservation interest including hedgerows and damp ditches, Brockley and Old Hall Woods CWS, Ground Water Source Protection Zone, European Protected Species (Dormouse, Bats), Priority Species, other Protected Species and Protected Habitats need to be adequately assessed and where necessary mitigation proposed.

### **Air Quality**

- 10.12 This site is predominantly agricultural land. It is anticipated that the site will commence operations in 2020 for approximately 10 years.
- 10.13 Air Quality near the site is currently good; Babergh District Council has declared one Air Quality Management Area in Sudbury; however, this is >24km from the site. The closest AQMA, in Ipswich is almost 6km northeast of the site.
- 10.14 There are a number of residential properties within 250m of the site boundary/proposed access road (Including properties adjacent to London Road and on The Avenue), the closest being approximately 100m from the site boundary (Charity Cottage to the east of the site, and properties at the corner of Oakfield Road/ The Avenue to the north of the site).
- 10.15 There are no statutory designated habitats near to the site.
- 10.16 Access to the site will be directly from the A12. The number of HGV movements per day is not currently known, however, it is considered unlikely that additional traffic generated by the proposed extraction site will exceed the thresholds defined within IAQM/EPUK guidance, and therefore traffic emissions are unlikely to significantly increase local pollutant concentrations. However, should more than 100 HGVs be generated each day, an assessment of the air quality

impact of the additional traffic generated emissions should be included within the assessment.

- 10.17 It is expected that an Air Quality Assessment would be submitted with the planning application for the site which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction process, and which defines the mitigation and monitoring which will be implemented at the site to minimise the identified risk of impacts at the identified nearby properties.

### **Noise**

- 10.18 In addition to standard noise mitigation measures such as the use of earth bunds as barriers, standoff buffer areas may be required.

### **Public Rights of Way**

- 10.19 There are a number of rights of way which cross the site that will require safeguarding or diverting.

### **Floods**

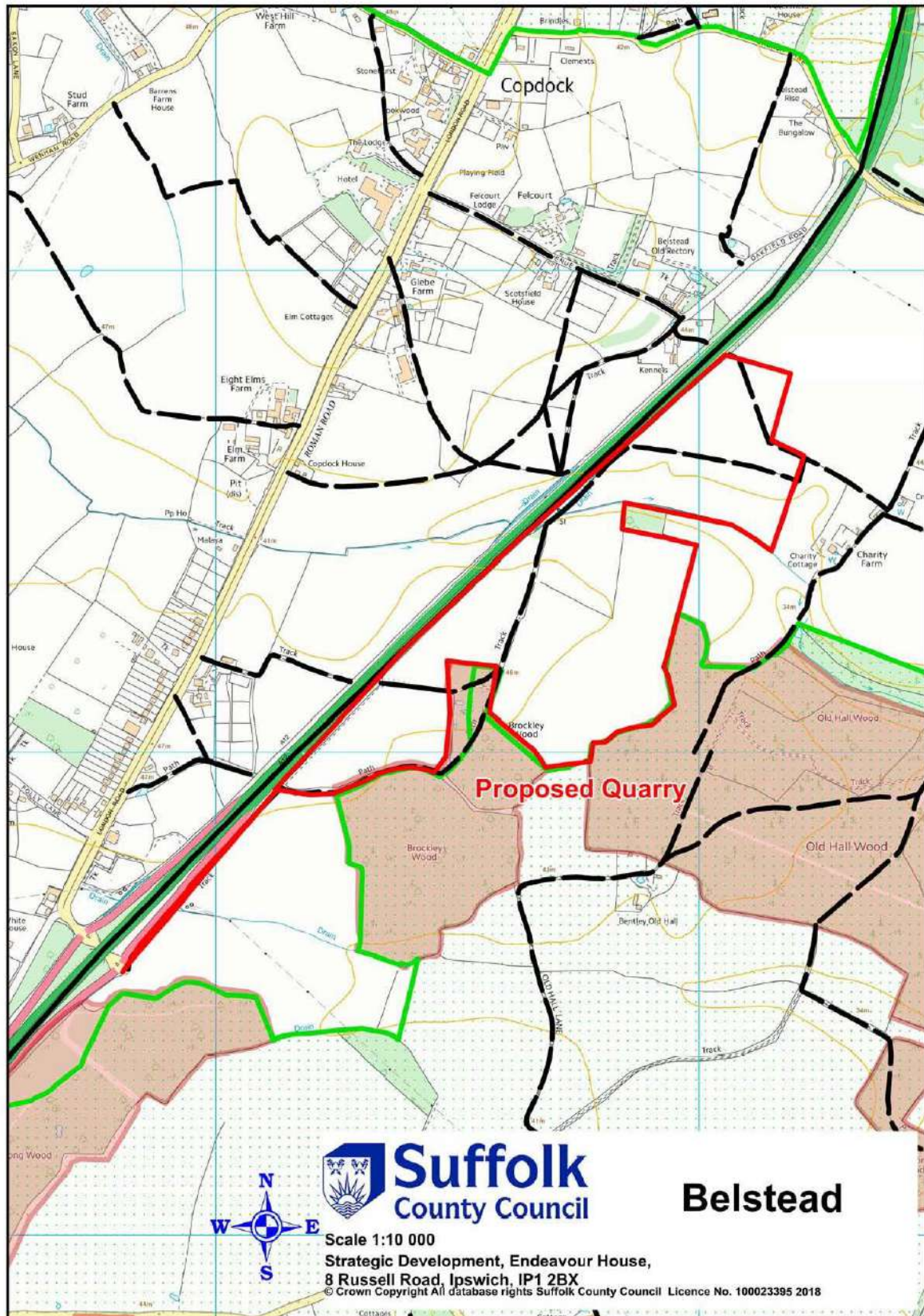
- 10.20 Proposals need to consider the potential implications for ground water resources and controlled waters.

### **Policy MS3: Belstead**

Development will be acceptable so long as the proposals, adequately address the following:

- a) establishment of a quarry access onto the A12 and a traffic management plan drafted so as to avoid quarry traffic diverting through local villages including Copdock except in the case of local deliveries;
- b) safeguarding of all woodlands and wooded tracks;
- c) adequate mitigation of potential significant adverse impacts upon Bentley Old Hall and its setting;
- d) the requirement for an archaeological investigation leading appropriate mitigation for near surface potential and Palaeolithic potential at depth;
- e) potential impacts upon nature conservation interest including hedgerows and damp ditches, Brockley and Old Hall Woods CWS, European Protected Species (Dormouse, Bats), Priority Species, other Protected Species and Protected Habitats;
- f) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- g) the provision of measures to mitigate noise;
- h) proposals of the safeguarding or diverting of public rights of way, and;
- i) the implications for the underlying groundwater source protection zone and controlled waters.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.



## **11. Cavenham**

### **Proposed development**

- 11.1 The proposed developments represent extensions to the existing long-standing sand and gravel quarrying operations at Cavenham Quarry which is operated by Allen Newport.
- 11.2 Currently sand and gravel is extracted and transported to the processing area by dump trucks. Once at the processing plant it is washed and sorted into different grades. It is then loaded onto lorries for transportation to various construction sites.
- 11.3 The established road access to the existing quarry utilises the C class roads to access the wider road network via the villages of Cavenham and Tuddenham St Mary. The roads are however part of Suffolk Lorry Route Network and are designated as Local Access Lorry Routes.
- 11.4 Middleton Aggregates currently operate an aggregates recycling area adjacent to the sand and gravel processing plant. Breedon Aggregates currently also operate an asphalt plant adjacent to the existing sand and gravel processing plant. In both cases using the existing access arrangements.
- 11.5 Originally the quarry started within the former World War II and Cold War Tuddenham Airfield. Extensions have since been dug to the north towards the River Lark. These proposals would extend the quarry to the south and west and bring them closer to the villages of Cavenham and Tuddenham St Mary.
- 11.6 Historically restoration has been designed to enhance habitat for the ground nesting Stone Curlew as the area is within a Special Protection Area.
- 11.7 Besides the proposed sand and gravel extraction there are proposals to infill part of the existing workings with inert waste materials (mainly soils and clays) and to consolidate the aggregates recycling area (that would remove any recyclable materials from imported inert waste materials).

### **Geology**

- 11.8 The supporting geological evidence indicates that a total extractable resource of 3.545 Mt is contained within the site which covers 137.100 ha. Although variable in depth and quality it is said to be similar to the existing deposit being worked at the quarry and on average is made up of 19% gravel, 74% sand and 7% silt.



## **Development Plan and Planning Applications**

- 11.9 There are no Forest Heath District Council adopted or draft plan proposals which conflict with the proposed developments. There are no planning applications which conflict with the proposed developments.

## **Highways**

- 11.10 The existing access arrangements are acceptable based on the existing flows.

## **Landscape**

- 11.11 Likely to be acceptable subject to mitigation. Working and restoration proposals should take into account the potential impacts on the wider Special Landscape Area.

## **Historic Buildings**

- 11.12 No historic buildings would be affected.

## **Archaeology**

- 11.13 Evidence of prehistoric occupation is known from the vicinity. Archaeological investigations associated with previous phases of extraction have identified Neolithic and Bronze-Age occupation (CRM 003, CRM 018). Archaeological potential for later prehistoric and Roman occupation is indicated by surface finds scatters (CAM 014) and numerous metal detecting finds from the fields immediately south of the proposed extraction site. The site also has potential with regards to WWII military history, Tuddenham Airfield (TDD 019). There has been no systematic archaeological investigation of this large site.
- 11.14 The linear earthworks called Black Ditches to the east are a Scheduled Monument. Heritage England would require a significant buffer zone between the Monument and any restoration activities of the site. The restoration should seek to preserve and enhance the setting of the Scheduled Monument.
- 11.15 Any planning application must be supported by the results of a programme of archaeological evaluation, including appropriate fieldwork, and should demonstrate the impacts of development/extraction on archaeological remains, including deposits with Palaeolithic potential, and proposals for managing those impacts.
- 11.16 Archaeological field evaluation, and deposit modelling for Palaeolithic potential, will be required at an appropriate stage prior to the granting of any planning permission to allow for preservation in situ, where appropriate, of any sites of importance that might be defined (and which are currently unknown) and to allow archaeological preservation or mitigation strategies to be designed.

## Ecology

11.17 Potential impacts upon nature conservation interest including Breckland SPA, Breckland SAC, Breckland Farmland SSSI, Ancient Woodland CWS, Cavenham Heath NNR, RNR, watercourses, European Protected Species

(Bats), Priority Species, Priority Habitats, Stone Curlew, Woodlark and Nightjar need to be adequately assessed and where necessary mitigation proposed.

## Air Quality

11.18 This Site represents an extension to the existing quarry boundary and is currently agricultural land. Extraction could begin at the Site as early as 2020.

11.19 Air quality near the Site is currently good; the closest Air Quality Management Area is located approximately 13km southwest of the Site, in Newmarket.

11.20 There are a number of residential properties within 250m of the site. These include Mill Farm House, which is located approximately 170m from the eastern boundary (there is an existing barrier of trees between the quarry and this property).

11.21 The Site is encompassed by the Breckland Farmland SSSI and Breckland SPA. It also lies immediately adjacent to the Breckland SAC and Ickingham Heaths SSSI. Features sensitive to nitrogen deposition are identified by APIS for these sites.

Traffic associated with the proposed Site would continue to enter and leave the Site by the existing access point on Cavenham Road. The number of Heavy Goods Vehicles (HGVs) generated by the proposals is not currently known, as the full results of the geological investigations are not yet available from which this can be determined. It is considered unlikely that additional traffic generated by the proposed extraction site will exceed the thresholds defined within the IAQM / EPUK guidance, and therefore traffic emissions associated with this Site in isolation are unlikely to significantly increase local pollutant concentrations.

11.22 However, should more than 100 HGVs be generated each day, an assessment of the air quality impact of the additional traffic generated emissions should be included within the assessment.

11.23 There is a risk of cumulative impacts where extraction activities coincide with activities on the existing quarry Site.

11.24 It is expected that an air quality assessment would be submitted with the planning application for the extension which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction

process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the identified risk of impacts at the identified habitats.

### **Noise**

11.25 Assuming standard mitigation measures such as the use of earth bunds as barriers, no other noise mitigation measures are required.

### **Public Rights of Way**

11.26 The Cavenham Byway Open should be retained on its definitive alignment and southern end should be fenced from the rest of the site

### **Floods**

11.27 Proposals need to consider the potential implications for ground water resources and controlled waters. Groundwater Source Protection Zones are affected by this proposal.

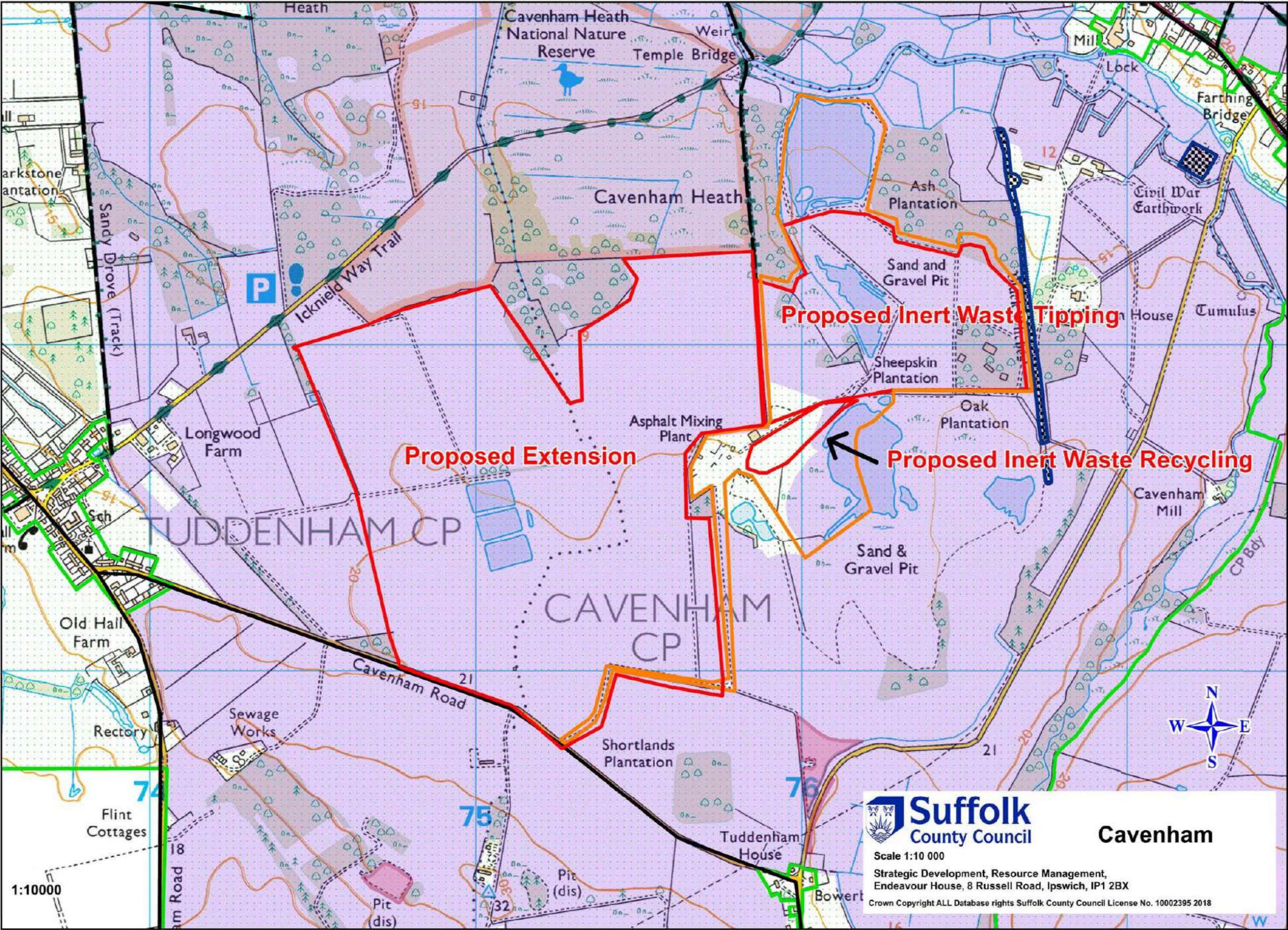
#### **Policy MS4: Cavenham**

Development will be acceptable so long as the proposals, adequately address the following:

- a) highways maintenance, safety and amenity implications of HGVs;
- b) a phased restoration scheme appropriate to the Brecks Landscape;
- c) the requirement for an archaeological investigation leading appropriate mitigation for near surface potential and Palaeolithic potential at depth;
- d) the safeguarding of, and the preservation and enhance of the setting of, Black Ditches Ancient Monument;
- e) potential impacts upon nature conservation interest including Breckland SPA, Breckland SAC, Breckland Farmland SSSI, Ancient Woodland CWS, Cavenham Heath NNR, RNR, watercourses, European Protected Species (Bats), Priority Species, Priority Habitats, Stone Curlew, Woodlark and Nightjar;
- f) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- g) the provision of measures to mitigate noise;
- h) proposals of the safeguarding or diverting of public rights of way;
- i) no dewatering of the proposed extraction area;
- j) the implications for the underlying groundwater source protection zone and controlled waters of extraction and infilling;
- k) the implications for those parts of site within Flood Zone 2, and;
- l) the use of inert wastes to help restore the site.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.







## **12. Layham**

### **Proposed development**

- 12.1 The proposed development represents an extension to the existing long-standing sand and gravel quarrying operations at Rands Hall Pit, Layham, which is operated by Brett.
- 12.2 The established road access uses the U8552 Rands Road to reach the reach the A1071, which is defined in the Suffolk Lorry Route Network as a Zone Distributor. The proposed site would involve quarry traffic crossing the U8504 Pope's Green Lane which however very lightly trafficked.
- 12.3 This site was previously included in the Suffolk Minerals Specific Site Allocations DPD, but no planning application was received due to the prevailing economic conditions.

### **Geology**

- 12.4 The supporting geological evidence indicates that a total extractable resource of 0.829 Mt is contained within the site which covers 16.980 ha. The deposit is made up of 23% coarse aggregates and 77% fine aggregate.

### **Development Plan and planning applications**

- 12.5 There are no Babergh District Council adopted plan proposals that conflict with the proposed site. At the time of writing there are no known planning applications which affect the site.

### **Highways**

- 12.6 The existing access arrangements are satisfactory.

### **Landscape**

- 12.7 The resource is shallow and is capable of effective a sensitive mitigation without fill in this Special Landscape Area.

### **Historic Buildings**

- 12.8 No historic buildings would be affected.

### **Archaeology**

- 12.9 Evidence of low density and low complexity later prehistoric activity (LYM 034) has been identified by archaeological investigations undertaken in connection with previous phases of extraction, lying north of the proposed extension to

workings. A programme of archaeological work will be required, secured through a planning condition.

## **Ecology**

12.10 There is the potential for impacts upon nature conservation interest including CWS including ancient woodland, European Protected Species (dormice, otters, bats, and great crested newts), priority species (BAP) and, priority habitats including hedgerows. Appropriate surveys and mitigation will be required.

## **Air Quality**

12.11 Air quality near the Site is currently good; Babergh District Council has declared one Air Quality Management Area in Sudbury; however, this is >14km from the proposed site.

12.12 There are four residential properties within 250m of the extension site boundary; The Croft, Ivy Tree Cottage, Ivy Tree Farm and Wyncoll's Farm. A stand-off margin and planting / bunding are proposed to help mitigate the effects at these properties; additional dust suppression measures will also be defined.

12.13 It is estimated that the site will generate 150 HGV movements per day, which exceeds the threshold defined within the IAQM / EPUK guidance; there is a risk therefore that, where this traffic is additional to the existing quarry traffic, emissions would significantly increase local pollutant concentrations alongside routes taken by HGVs generated by the proposals.

12.14 There is a risk of cumulative impacts where extraction activities coincide with activities on the existing quarry site.

12.15 It is expected that an air quality assessment would be submitted with the planning application for the extension which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the identified risk of impacts at the identified properties.

## **Noise**

12.16 In addition to standard noise mitigation measures such as the use of earth bunds as barriers, standoff buffer areas may be required.

## **Public Rights of Way**

12.17 No Rights of Way affected.

## Floods

12.18 Proposals need to consider the potential implications for ground water resources and controlled waters.

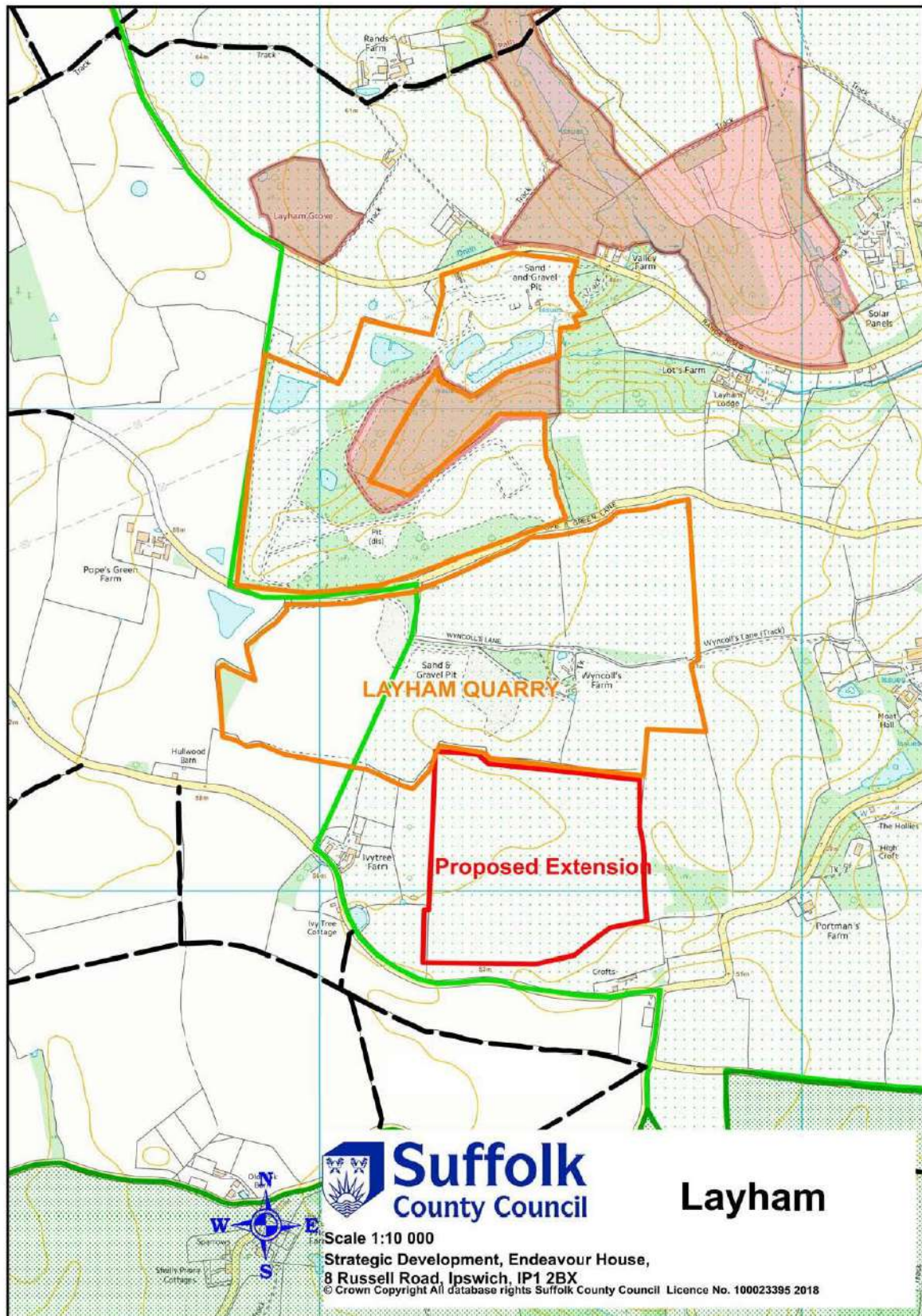
### **Policy MS5: Layham**

Development will be acceptable so long as the proposals, adequately address the following:

- a) a progressive working and low-level restoration scheme that is sympathetic to the wider Special Landscape Area and to the nearby Area of Outstanding Natural Beauty;
- b) protection of residential amenity;
- c) potential impacts upon nature conservation interest including CWS including ancient woodland, European Protected Species (dormice, otters, bats, and great crested newts), priority species (BAP) and, priority habitats including hedgerows. Appropriate surveys and mitigation will be required;
- d) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- e) the provision of measures to mitigate noise, and;
- f) the implications for the underlying groundwater and controlled waters.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.





## **13. Tattingstone**

### **Proposed development**

- 13.1 The proposed quarry extension was submitted on behalf of Shotley Holdings and proposes an extension to the area currently being quarried for sand. Restoration would involve the backfilling with inert waste (mainly soils and clays) to previous ground levels.
- 13.2 In the existing quarry sand is extracted in modest volumes on an annual basis and sold mainly for general fill. The subsequent void space is backfilled with dry not reactive waste hazardous waste, mainly asbestos.
- 13.3 The established road access to the site utilises the C426 to access the A137 which is classed as a Zone Distributor Lorry Route under the Suffolk Lorry Route Network.

### **Geology**

- 13.4 The supporting geological evidence indicates that a total extractable resource of 0.756 Mt of is contained within the site which covers 3.798 ha. Grading analysis of the deposit indicates that on average the deposit is made up of 4% gravel, 81% sand and 15% silt.

### **Development Plan and planning applications**

- 13.5 There are no Babergh District Council adopted plan proposals that conflict with the proposed site. There are also no planning applications that affect the site at the time of writing.
- 13.6 It is noted however that Babergh District Council and Mid Suffolk District Council are currently preparing a joint local plan. Proposals for housing may be included close to the proposed extension area. Housing developers are advised that they should provide adequate mitigation in respect of the permitted sand quarry and waste operations and if the proposed extension has been permitted for that as well.

### **Highways**

- 13.7 The existing access is adequate for the existing level of site traffic.

### **Landscape**

- 13.8 Particular care is required when the removing of the established screen bunding as it could potentially open up views of the existing minerals extraction and waste landfilling and recycling operations to neighbouring properties and the wider Special Landscape Area.

## **Historic Buildings**

13.9 No historic buildings would be affected.

## **Archaeology**

13.10 There is evidence of prehistoric and medieval occupation (TAT 020) identified during archaeological investigations in association with the previous phases of extraction, immediately west of the proposed site. Cropmarks of linear and curvilinear ditches (TAT 004), probably representing at least two separate phases of relict field systems. There has been no systematic archaeological investigation of this large site. Potential for Palaeolithic remains associated with Kesgrave and Lowestoft formations.

13.11 Any planning application must be supported by the results of a programme of archaeological evaluation, including appropriate fieldwork, and should demonstrate the impacts of development/extraction on archaeological remains, including deposits with Palaeolithic potential, and proposals for managing those impacts.

13.12 Archaeological field evaluation, and deposit modelling for Palaeolithic potential, will be required at an appropriate stage prior to the granting of any planning permission to allow for preservation in situ, where appropriate, of any sites of importance that might be defined (and which are currently unknown) and to allow archaeological preservation or mitigation strategies to be designed.

## **Ecology**

13.13 There are potential impacts upon nature conservation interest including Stour & Orwell SPA, Stour Estuary SSSI, Brantham Bridge Meadows CWS, watercourses, European Protected Species (Bats), Priority Species, Priority Habitats, that need to be adequately assessed and where necessary mitigation proposed.

## **Air Quality**

13.14 The Site is currently agricultural land. It is anticipated that the Site could be operational by 2025/30. The estimated life of the Site is 23 years.

13.15 Air quality near the Site is currently good; the closest Air Quality Management Area is located over 8km northeast of the Site, in Ipswich.

13.16 There are a number of residential properties within 250m of the eastern Site boundary, including properties adjacent to the A137. Folly Farm House also lies approximately 225m from the southwest corner of the Site boundary. This

property also lies within 200m of the southern boundary of the existing Folly Farm Quarry. A 'standoff' buffer is indicated on drawings along the eastern boundary of Phase 1, within which a soil storage / screening bund is proposed. Phase 2 is screened along the eastern boundary by existing trees.

- 13.17 There are no statutory designated habitat sites within 250m of the extension Site boundary.
- 13.18 Access to the Site would be via the existing quarry access roads. The number of HGVs generated by the proposals will be similar to that generated by the existing quarry. It is considered unlikely that additional traffic generated by the proposed extraction site will exceed the thresholds defined within the IAQM / EPUK guidance, and therefore traffic emissions are unlikely to significantly increase local pollutant concentrations.
- 13.19 There is a risk of cumulative impacts where extraction activities coincide with activities on the existing quarry Site.
- 13.20 It is expected that an air quality assessment would be submitted with the planning application for the extension which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the Site to minimise the identified risk of impacts at the identified receptors.

### **Noise**

- 13.21 In addition to standard noise mitigation measures such as the use of earth bunds as barriers, standoff buffer areas may be required.

### **Public Rights of Way**

- 13.22 Boundaries should be so arranged to ensure Tattingstone BR 37A is unobstructed. A good wide corridor should be retained for bridleway of 5 metres minimum width. If the site boundaries are bunds, this should be 10m wide. Part of Tattingstone FP 37 is within the site. This should either be accommodated, or a temporary extinguishment order sought.

### **Floods**

- 13.23 No significant risk but need to be mindful of the watercourse that runs through the site.

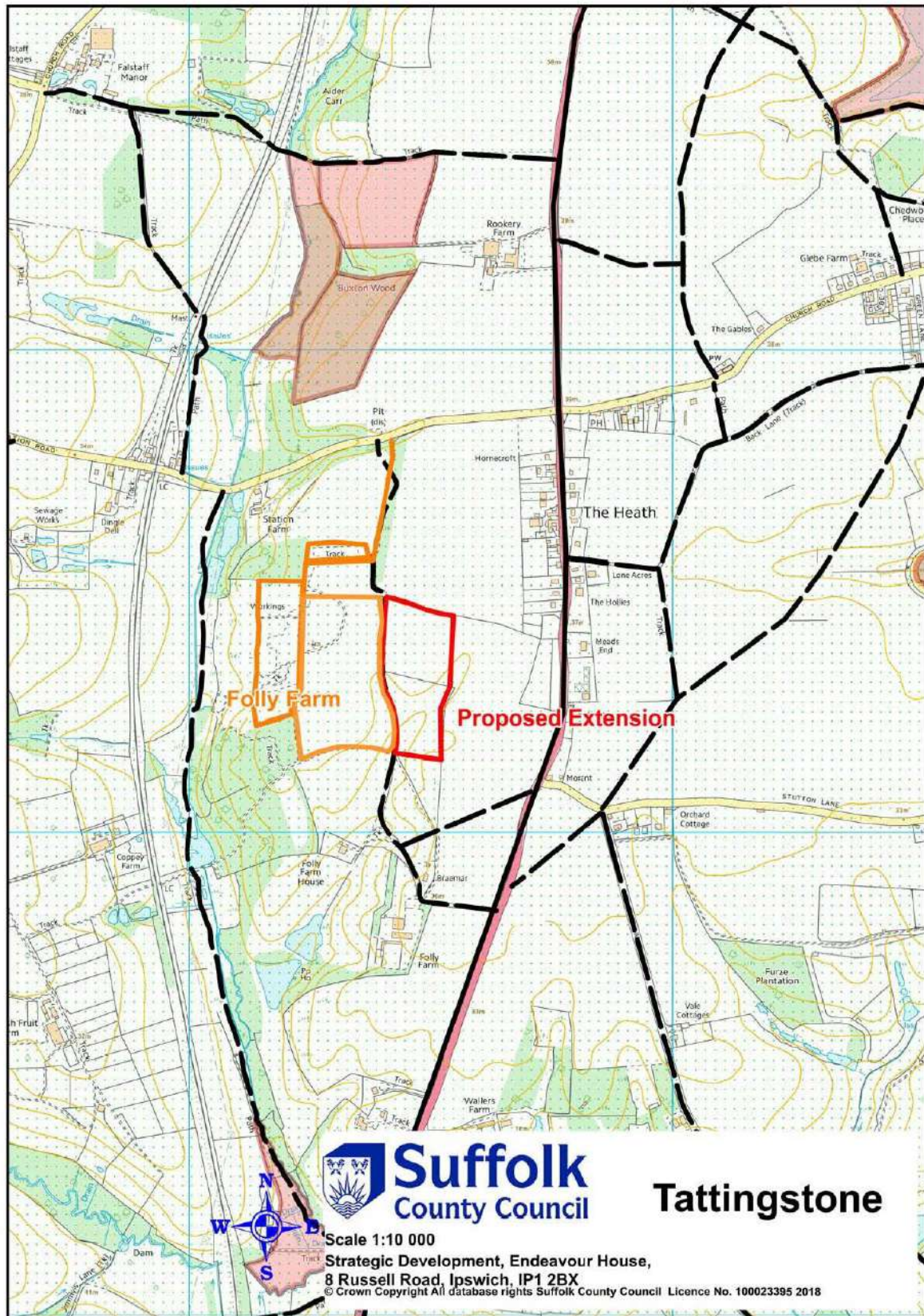
### **Policy MS6: Tattingstone**

Development will be acceptable so long as the proposals, adequately address the following:

- a) the highways safety, maintenance and amenity implications of HGVs;
- b) a comprehensive scheme of screening and bunding for the proposed extension is essential to minimise adverse impacts of the wider landscape of the Special Landscape Area, Area of Outstanding Natural Beauty including the proposed extension area and on local visual amenity;
- c) an archaeological field evaluation, and deposit modelling for Palaeolithic potential, prior to the granting of any planning permission to allow for preservation in situ, where appropriate, of any sites of importance that might be defined (and which are currently unknown) and to allow archaeological preservation or mitigation strategies to be designed;
- d) potential impacts upon nature conservation interest including trees, ditches, watercourses, European Protected Species (Bats), Priority Species, Priority Habitats, which need to be adequately assessed and where necessary mitigation proposed;
- e) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- f) the provision of measures to mitigate noise;
- g) the diversion of Bridleway 37A, and;
- h) the implications for the underlying groundwater and controlled waters including the stream that runs through the site.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.





## **14. Wangford**

### **Proposed development**

- 14.1 This site was proposed as an extension to Wangford Quarry by Cemex. The proposed extension known as Lime Kiln Farm is located to the east of the existing processing plant.

### **Geology**

- 14.2 The site is estimated to contain approximately 1.000 Mt of sand and gravel from the site which covers 23.800 ha. The grading is 60% gravel, 35% sand and 5% silt.

### **Development Plan and planning applications**

- 14.3 There are no adopted or draft plan proposals that conflict with the proposed sites. At the time of writing there are no known planning applications which affect the sites.

### **Highways**

- 14.4 The Highways Authority may require a contribution towards replacement of the bridge between the processing plant site and the A12.

### **Landscape**

- 14.5 The site is inside the Area of Outstanding Natural Beauty however it is accepted that there is an overriding need to work the mineral.
- 14.6 NPPF paragraph 115 states that great weight should be given to conserving landscape and scenic beauty in AONBs which have the highest status of protection in relation to landscape and scenic beauty.
- 14.7 NPPF paragraph 116 indicates that planning permission for major development (which would include sand and gravel extraction) should be refused except in exceptional circumstances and where it can be demonstrated that it is in the Public Interest. It states that such proposals should be considered in the light of an assessment of:
- i) the need for the development, including in terms of any national considerations, and the impact of permitting it, or refusing it, upon the local economy;
  - ii) the cost of, and scope for, developing elsewhere outside the designated area, or meeting the need for it in some other way; and;

- iii) any detrimental effect on the environment, the landscape and recreational opportunities, and the extent to which that could be moderated.
- 14.8 NPPF paragraph 144 states that when determining planning applications local authorities should as far as practicable provide for minerals from outside of AONBs.
- 14.9 Having appraised the proposed site within the context of the NPPF and other material considerations it was considered justified to include the Lime Kiln Farm within the Plan because of the following exceptional reasons:
- ii) the existing quarry at Wangford has been in operation for several decades and is an important part of the local economy;
  - iii) there is a shortage of gravel in the market area served by this quarry and the proposed extension contains an unusually high percentage of gravel (60%) compared to most other quarries in Suffolk and Norfolk;
  - iv) the market area includes both Ipswich and Norwich and the gravel from Wangford is used to supplement the sand rich deposits from other quarries within the market area including those of rival companies;
  - v) processing is able to produce a regular spherical gravel grade product which can be used for specialist uses such as filter beds;
  - vi) there are no other acceptable proposed sites within the north-east area of Suffolk;
  - vii) alternative sources such as crushed rock, recycled aggregates and marine dredged sand and gravel are unable to provide a suitable alternative due to availability or economic viability;
  - viii) it is considered that in respect of the impact upon the wider AONB, the recreation within the area, the nearby residential properties and ecological designations, the proposals could be mitigated to an acceptable extent.

### **Historic Buildings**

14.10 It is considered that no historic buildings would be affected.

### **Archaeology**

14.11 The site occupies a favourable topographic location for early occupation and ritual activity. Extensive cropmarks of linear and curvilinear ditches and enclosures (REY 077, REY 76, REY 075) and finds of Roman and Medieval date (REY 026, REY 028) are recorded on the County Historic Environment Record (HER) in the vicinity. Archaeological investigations associated with



previous phases of extraction lying immediately west of the proposed site identified a range of features of prehistoric and Medieval date (WNF 023, WNF 018, WNF 021).

- 14.12 Archaeological field evaluation, and deposit modelling for Palaeolithic potential, will be required at an appropriate stage prior to the granting of any planning permission to allow for preservation in situ, where appropriate, of any sites of importance that might be defined (and which are currently unknown) and to allow archaeological preservation or mitigation strategies to be designed.
- 14.13 Any planning application must be supported by the results of a programme of archaeological evaluation, including appropriate fieldwork, and should demonstrate the impacts of development/extraction on archaeological remains, including deposits with Palaeolithic potential, and proposals for managing those impacts.

## **Ecology**

- 14.14 There is the potential for impacts upon nature conservation interest including Suffolk Coast & Heaths AONB, Minsmere-Walberswick SPA, Minsmere-Walberswick Heaths & Marshes SSSI, Wangford Marshes CWS, Suffolk Coast NNR, Hen Reedbeds (SWT Site), Reydon Wood (SWT Site), Groundwater Source Protection Zone (River Wang, Wolsey's creek, River Blyth), European Protected Species (Otters, Bats), Priority Species (Bittern, Water Vole, Barn Owl), other protected Species (Badger), Priority Habitats (REEDBEDS, Grazing Marshes). These need to be adequately assessed and where necessary mitigation proposed.

## **Air Quality**

- 14.15 Air Quality at the site is currently good; Waveney District Council has not declared any Air Quality Management Areas.
- 14.16 There are a number of residential properties within 250m of the site; Lime Kiln Farm lies within approximately 50m of the Southern boundary of the site. Reydon Grange, Toad Hall and Wangford Farm lies within 250 of the northern boundary of the site.
- 14.17 There are statutory designated habitats near to the site.
- 14.18 Traffic generation is anticipated to be the same as for the existing Wangford Quarry. It is considered unlikely that additional traffic generated by the proposed extraction site will exceed the thresholds defined within IAQM/EPUK guidance, and therefore traffic emissions are unlikely to significantly increase local pollutant concentrations.

14.19 The site lies adjacent to an existing landfill site, and there is a risk of cumulative impacts should both be operational at the same time.

14.20 It is expected that an Air Quality Assessment would be submitted with the planning application for the site which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction process, the potential cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimize the identified risk of impacts at the identified nearby residential properties and statutory habitats.

### **Noise**

14.21 In addition to standard noise mitigation measures such as the use of earth bunds as barriers, standoff buffer areas will be required at Lime Kiln Farm.

### **Public Rights of Way**

14.22 No public rights of way are affected.

### **Floods**

14.23 The site is high risk of groundwater flooding and is underlain by a minor aquifer. There are areas of predicted surface water flooding for the site. The site also falls within Groundwater Source Protection Zones.

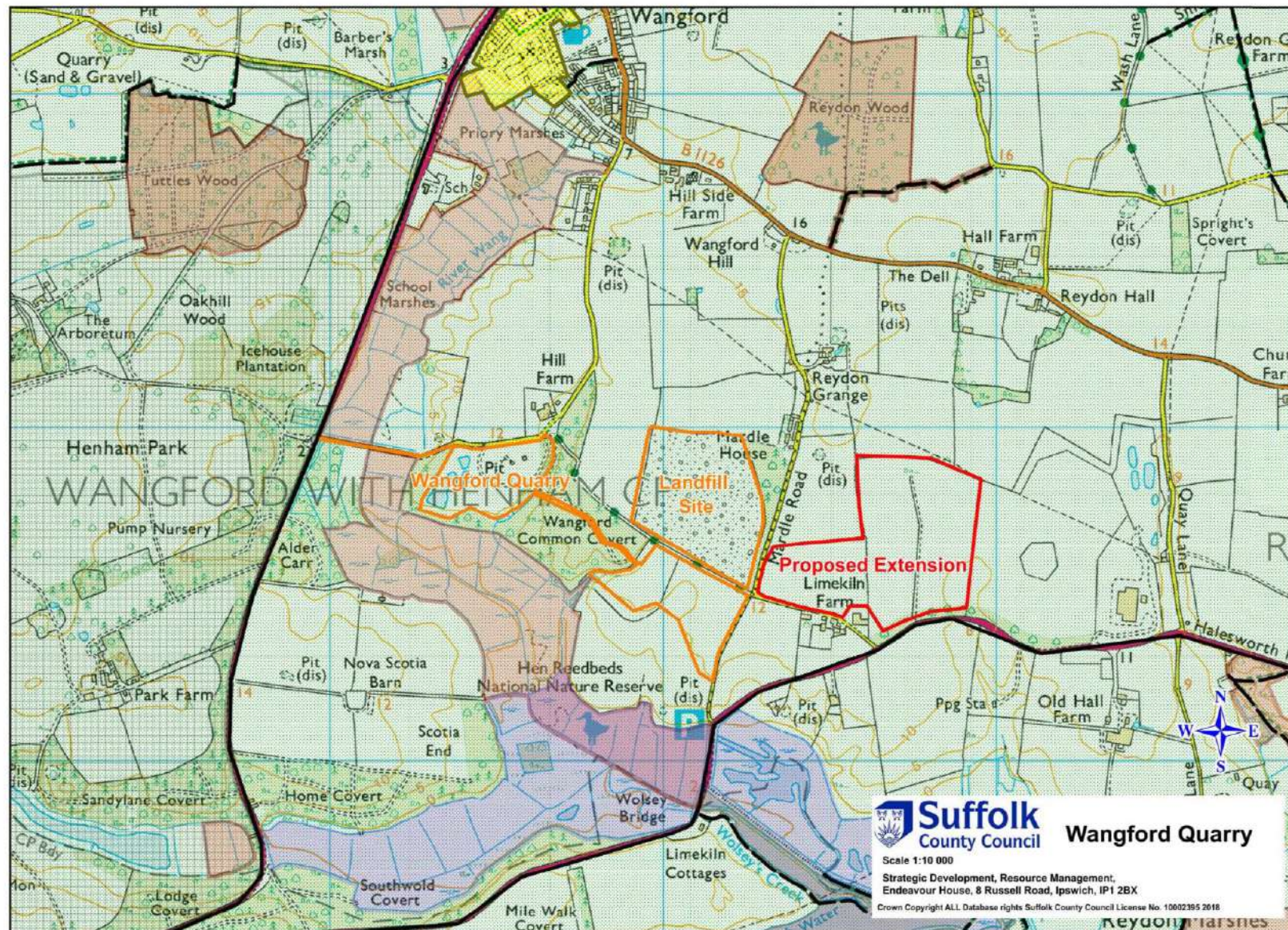
### **Policy MS7: Wangford**

Development will be acceptable so long as the proposals, adequately address the following:

- a) the highways safety, maintenance and amenity implications of HGVs;
- b) mitigation of landscape and visual impacts through a scheme of planting and bunding and the retention of boundary features and other key vegetation.;
- c) a programme of archaeological evaluation, including appropriate fieldwork, and should demonstrate the impacts of development/extraction on archaeological remains, including deposits with Palaeolithic potential, and proposals for managing those impacts;
- d) the potential for direct and indirect impacts upon nature conservation interest including Suffolk Coast & Heaths AONB, Minsmere-Walberswick SPA, Minsmere-Walberswick Heaths & Marshes SSSI, Wangford Marshes CWS, Suffolk Coast NNR, Hen Reedbeds (SWT Site), Reydon Wood (SWT Site), Groundwater Source Protection Zone (River Wang, Wolsey's creek, River Blyth), European Protected Species (Otters, Bats), Priority Species (Bittern, Water Vole, Barn Owl), other protected Species (Badger), Priority Habitats (REEDBEDS, Grazing Marshes) and any mitigation required;
- e) measures to prevent significant adverse hydrological impacts upon the potable water supplies, protected sites and species in respect of both water quality and dewatering;
- f) the retention of linear features on the boundary and within the site to safeguard the ecological interest within the site including hedgerows and large hedgerow trees;
- g) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m and at statutory habitats, and;
- h) the provision of measures to mitigate noise.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.







## **15. Wetherden**

### **Proposed development**

- 15.1 The proposed extension to Wetherden Quarry was submitted on behalf of Aggmax and proposes an extension to the area currently being quarried for sand and gravel. Restoration would involve the backfilling with inert waste (mainly soils and clays) to previous ground levels.
- 15.2 This would follow the existing pattern in the existing quarry where sand and gravel is extracted and processed and the subsequent void space backfilled with inert wastes
- 15.3 The established road access to the site utilises the U4977 which is classed as a Local Access Lorry Route under the Suffolk Lorry Route Network to access the A14. When travelling to and from the east, quarry traffic passes through the village of Haughley New Street.

### **Geology**

- 15.4 The supporting geological evidence indicates that a total extractable resource of 0.750 Mt of is contained within the site which covers 6.207 ha. Grading analysis of the deposit indicates that on average the deposit is made up of 27% gravel (including oversize), 65% sand and 8% silt.

### **Development Plan and Planning Applications**

- 15.5 There are no Mid Suffolk District Council adopted plan proposals that conflict with the proposed site.
- 15.6 It is noted however that Babergh District Council and Mid Suffolk District Council are currently preparing a joint local plan. It is noted that the Plan may include an area of housing between the existing settlement of Elmswell and the Quarry. The same area has already been the subject of an outline planning application for residential development which has been approved.
- 15.7 Housing developers are advised that they should provide adequate mitigation in respect of the permitted sand and gravel quarry and waste operations.

### **Highways**

- 15.8 Improved wheel cleaning at the site is required.

## **Landscape**

- 15.9 Mitigation should include a screening belt of trees should be planted along the western flank of the existing quarry and proposed extension.

## **Historic Buildings**

- 15.10 No historic buildings would be affected.

## **Archaeology**

- 15.11 There is evidence of low density and low complexity prehistoric and Roman activity (WDN 013, WDN 002, WDN 011, EWL 004) has been identified by archaeological investigations undertaken in connection with previous phases of extraction, lying south of the proposed extension to workings. In addition, several ovens/kilns of Roman date, were identified at evaluation, ahead of development on a site immediately north of the proposed extension.
- 15.12 A programme of archaeological work will be required, secured through a planning condition
- 15.13 Planning conditions must secure a programme of archaeological investigation, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth).

## **Ecology**

- 15.14 Potential impacts upon watercourses, European Protected Species, Priority Species, Priority Habitats, to be adequately assessed and where necessary mitigation proposed.

## **Air Quality**

- 15.15 A northern extension is proposed to the existing quarry boundary; the Site is currently agricultural land. Operation of the Site is anticipated to commence as early as 2018/2020, with an operational life of between 7 and 10 years.
- 15.16 Air quality near the Site is currently good; there are no Air Quality Management Areas currently declared by Mid Suffolk District Council.
- 15.17 There are a number of residential properties to the north of the Site which lie within 250m of the extension site boundary (properties on Mill Gardens and Prescott Drive); the closest property is Warren Mill House, which is approximately 100m from the extension boundary. This property is no closer to the extension boundary than it is to the existing quarry boundary, and a bund is already in place to separate the property from the extraction activities.

15.18 A 'standoff' buffer is indicated on drawings, within which screening bunds could be installed as mitigation, if required. This buffer is wider along the north, east and west boundaries. and would increase the separation distance between works and the identified residential properties.

15.19 There are no statutory designated habitats near to the Site.

15.20 Access to the Site would be via the existing quarry access roads. The Site is estimated to generate 60 HGV movements per day; this remains below the thresholds defined within the IAQM / EPUK guidance, and therefore traffic emissions are unlikely to significantly increase local pollutant concentrations.

15.21 There is a risk of cumulative impacts where extraction activities coincide with activities on the existing quarry Site.

15.22 It is expected that an air quality assessment would be submitted with the planning application for the extension which considers the potential impacts of increased dust and pollutant concentrations associated with the extraction process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the extension site to minimise the identified risk of impacts at the identified properties.

### **Noise**

15.23 Assuming standard mitigation measures such as the use of earth screening additional stand-off buffers are required.

### **Public Rights of Way**

15.24 There is an extensive network of well used public rights of way that would be affected by this proposal and proposals should include detailed mitigation.

### **Floods**

15.25 There is no significant risk, but the site is within a Groundwater Source Protection Zone.

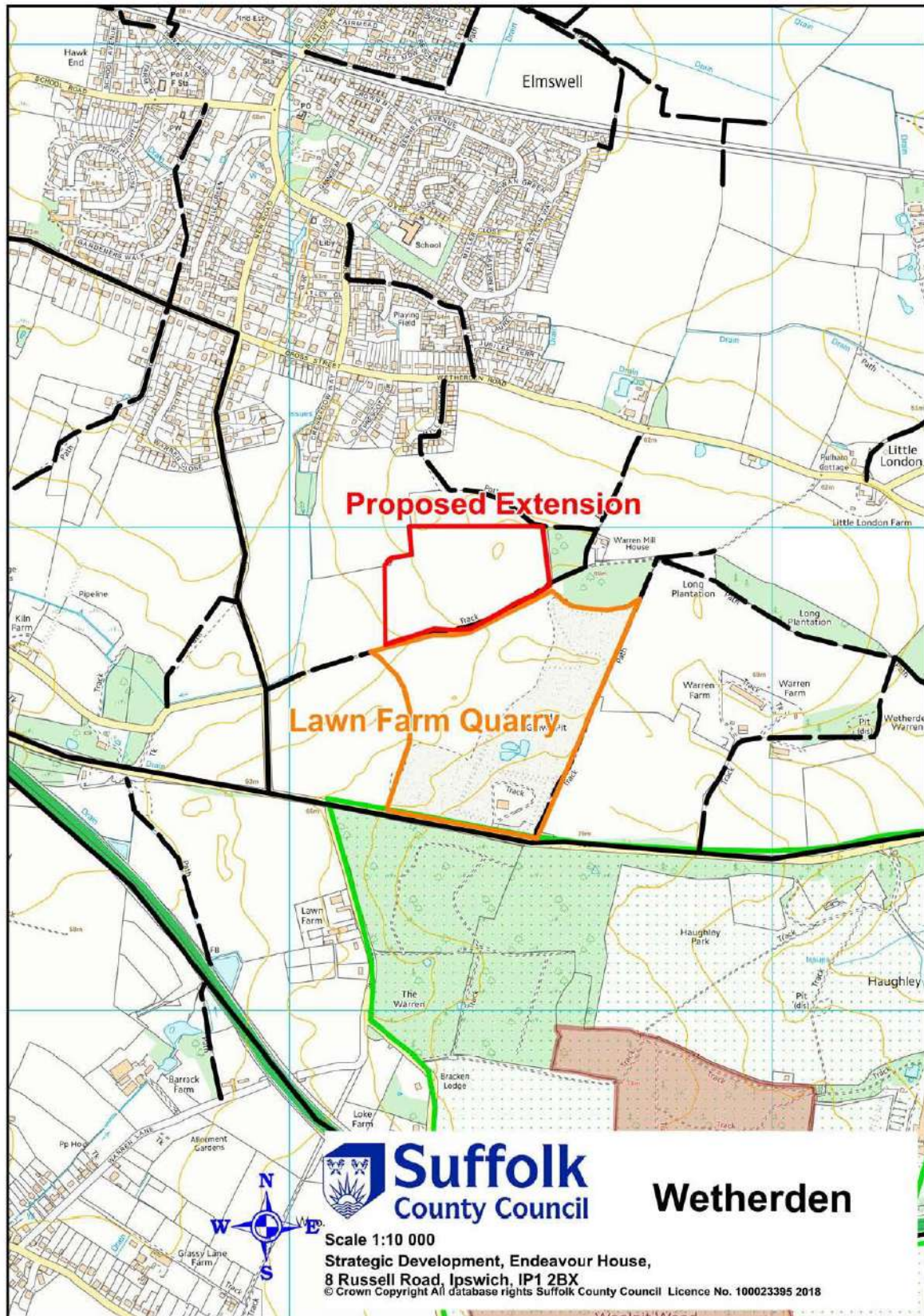
### **Policy MS8: Wetherden**

Development will be acceptable so long as the proposals, adequately address the following:

- a) the highways safety, maintenance and amenity implications of HGVs including improved wheel cleaning facilities to avoid mud being deposited on the public highway outside of the site;
- b) mitigation of landscape and visual impacts through a scheme of planting along the western flank of the existing quarry and proposed extension;
- c) a programme of archaeological investigation, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth).
- d) potential impacts upon hedgerows, ditches, watercourses, European Protected Species, Priority Species, and Priority Habitats;
- e) the provision of an air quality assessment which considers the potential impacts of increased dust and pollutant concentration associated with the extraction and infilling process, the potential for cumulative impacts, and which defines the mitigation and monitoring which will be implemented at the site to minimise the risk at residential properties within 250m;
- f) the provision of measures to mitigate noise;
- g) proposals to mitigate the impacts upon the existing rights of way network, and;
- i) the implications for the underlying groundwater and controlled waters.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.





## **16. Wherstead**

### **Proposed development**

- 16.1 The proposed development represents an extension to the permitted sand and gravel quarrying operations at Pannington Hall Quarry, Wherstead, which is operated by Brett. Planning permission was granted a number of years ago, implemented and also renewed recently. The quarry is however currently dormant due to Brett concentrating activities at another site which is coming to an end. Some inert waste materials might be required to aid restoration.
- 16.2 The permitted access is directly onto the A137, which is defined in the Suffolk Lorry Route Network as a Zone Distributor. The existing site is bisected by the C453 Belstead road, the intention is that the two parts of the site would be linked by a conveyor under the road.
- 16.3 This proposed extension site is adjacent to the main southern part of the site without the need to cross a public highway.

### **Geology**

- 16.4 The supporting geological evidence indicates that a total extractable resource of 0.500 Mt is contained within the site and is made up of superficial glacial sand and gravel deposits of the Lowestoft Formation and the Kesgrave Catchment Subgroup. The extension is considered to be geologically similar to the existing site and covers 10.920 ha.

### **Development Plan and planning applications**

- 16.5 There are no Babergh District Council adopted plan proposals that conflict with the proposed site. At the time of writing there are no known planning applications which affect the site.

### **Highways**

- 16.6 The existing approved access is adequate.

### **Landscape**

- 16.7 Significant stand off from adjacent ancient woodland required.

### **Historic Buildings**

- 16.8 No historic buildings would be affected.

## **Archaeology**

- 16.9 There is evidence indicative of prehistoric, Roman and Medieval occupation is recorded from the vicinity, on the County Historic Environment Record (HER). Cropmarks of extensive field boundaries, a trackway and ditches have been identified by aerial photography across the proposed site (WHR 078).
- 16.10 The British Geological Survey records the presence of Kesgrave (Proto-Thames) and Anglian deposits, which have potential for Lower Palaeolithic faunal, environmental and possible artefactual remains. Deposit modelling is needed to determine the level of this potential across the site.
- 16.11 A programme of archaeological work will be required, secured through a planning condition, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth).

## **Ecology**

- 16.12 Potential impacts upon nature conservation interest including Freston and Cutler's Wood SSSI, CWS ancient woodland, Ground Water Source Protection Zone, European Protected Species (dormice and bats), priority species (BAP) and habitats, and another protected species. Appropriate surveys and mitigation will be required.

## **Air Quality**

- 16.13 Air quality near the Site is currently good; the closest Air Quality Management Area is located approximately 4.5km northeast of the Site, in Ipswich.
- 16.14 There are no residential properties nor any statutory designated habitat sites within 250m of the extension Site boundary.
- 16.15 It is estimated that the Site will generate 150 HGV movements per day, which exceeds the threshold defined within the IAQM / EPUK guidance; there is a risk therefore that, where this traffic is additional to the existing quarry traffic, emissions would significantly increase local pollutant concentrations alongside routes taken by HGVs generated by the proposals. It is understood that extraction will follow on from the permitted workings, and therefore this is unlikely to be the case.
- 16.16 There is a risk of cumulative impacts where extraction activities coincide with activities on the existing quarry Site (however, this is understood not to be the case).

16.17 The proposals currently include consideration of additional screening / bunding, dust suppression measures and maintenance of on-site plant. It is anticipated that mitigation measures will be further defined and implemented at the site to minimise the impact on air quality in the wider area.

### **Noise**

16.18 Assuming standard noise mitigation measures such as the use of earth bunds as barriers, no other noise mitigation measures are required.

### **Public Rights of Way**

16.19 Bridleway no. 27 and 29 Wherstead are shown adjacent to a proposed boundary. Boundaries should be so arranged to ensure bridleway is unobstructed. A good wide corridor should be retained for the bridleway of 5 metres minimum width. If the site boundaries are bunds, this should be 10m wide. Public Footpath no. 34 is affected and will run partly within the site. This would need to be temporarily diverted with a minerals order to follow the boundary alignment. The width would need to be 3 metres.

### **Floods**

16.20 Proposals need to consider the potential implications for ground water resources and controlled waters.

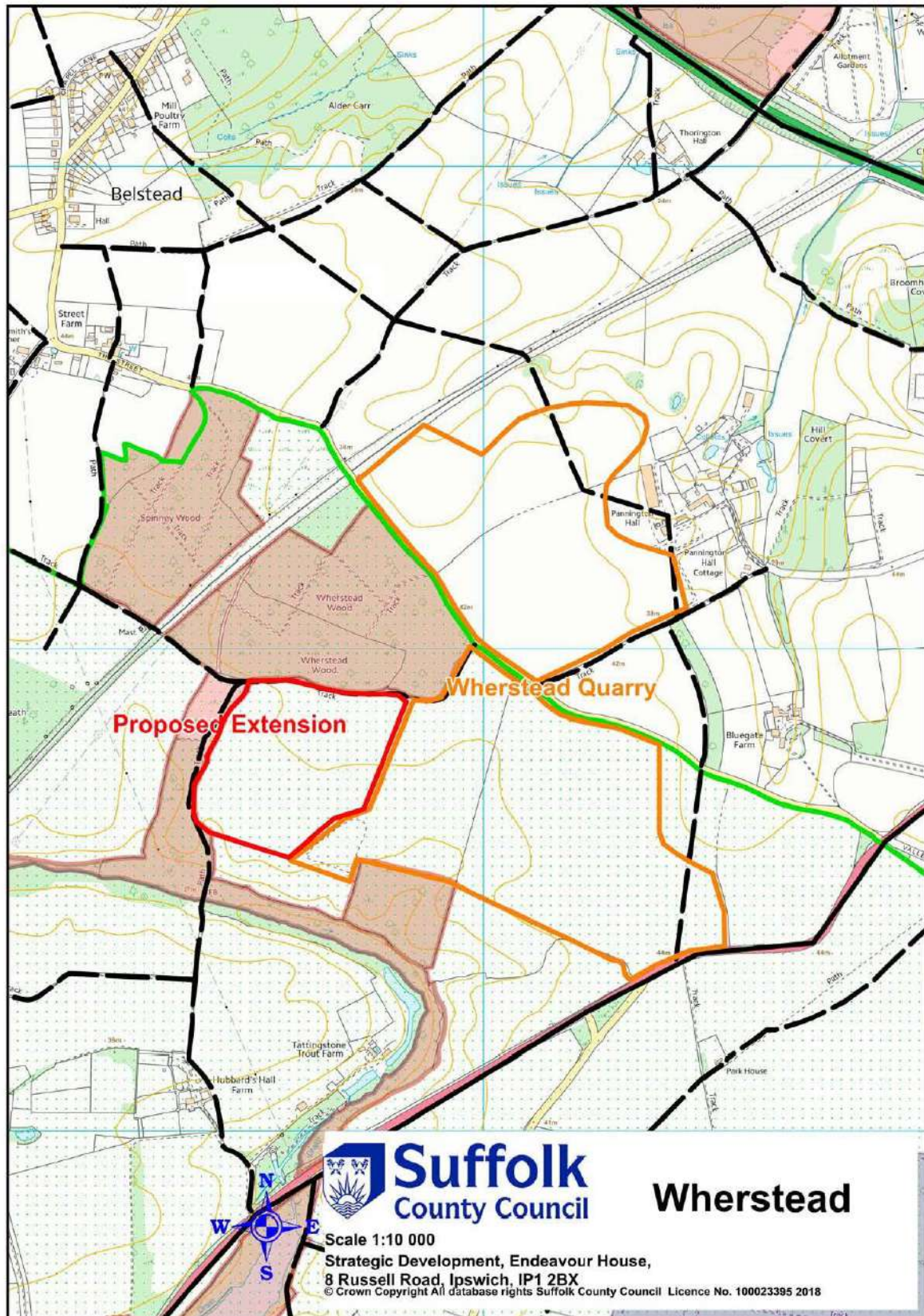
### **Policy MS9: Wherstead**

Development will be acceptable so long as the proposals, adequately address the following:

- a) mitigation of landscape and visual impacts including upon the Special Landscape and the nearby proposed extension to the Area of Outstanding Natural Beauty;
- b) a programme of archaeological investigation, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth).
- c) potential impacts upon nature conservation interest including hedgerows, ditches, Freston and Cutler's Wood SSSI, CWS ancient woodland, Ground Water Source Protection Zone, European Protected Species (dormice and bats), priority species (BAP) and habitats, and another protected species;
- d) the retention of the boundary between the existing site and the proposed extension including the mature oak trees and the recently planted trees;
- e) proposals to minimise the impact upon air quality in the wider area;
- f) proposals to mitigate the impacts upon the existing rights of way network;
- g) the implications for the underlying groundwater and controlled waters, and;
- h) a traffic management plan drafted to avoid traffic diverting through local villages including Belstead except in the case of local deliveries.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.







## **17. Worlington**

### **Proposed development**

- 17.1 The proposed developments represent extensions to the permitted sand and gravel quarrying operations at Bay Farm, Worlington, which is operated by Frimstone. The proposed sites would follow the existing pattern of development whereby the sand and gravel is extracted and the land restored by utilising the importation of inert waste materials. The proposed extensions include three areas to the north of the existing quarry.
- 17.2 The permitted access is directly onto the B1085 Elms Road which links to the A11 via a grade separated junction close by.

### **Geology**

- 17.3 The supporting geological evidence indicates that a total extractable resource of 0.670 Mt is contained within the site which covers 23.161 ha. The quality it is said to be similar to the existing deposit being worked at the quarry.

### **Development Plan and planning applications**

- 17.4 There are no Forest Heath District Council adopted plan proposals that conflict with the proposed site. At the time of writing there are no known planning applications which affect the site.

### **Highways**

- 17.5 The existing access is considered to be adequate.

### **Landscape**

- 17.6 Proposals should preserve the locally characteristic tree belts where possible.

### **Historic Buildings**

- 17.7 No historic buildings would be affected.

### **Archaeology**

- 17.8 A program of archaeological investigation will be required, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth).

- 17.9 Evidence of low density and low complexity prehistoric activity (WGN 028, WGN 034, WGN 038) has been identified by archaeological investigations undertaken in connection with previous phases of extraction, lying south of the proposed extensions. The site of a probable BA burial mound, “Swale’s Tumulus” (WGN 003) lies approximately 100m NE. Significant quantities of Neolithic pottery and burnt bone have been found in association with this feature (WGN 003).

### **Ecology**

- 17.10 Potential impacts upon nature conservation interest including Breckland SPA, Breckland SAC, Breckland Flora CWS, Ground Water Source Protection zone, European Protected Species, Other Protected Species, and Priority Habitats. Surveys and potential mitigation required.

### **Air Quality**

- 17.11 This Site represents an extension to the existing quarry boundary and is currently agricultural land. Extraction could begin in 2018 and last for 7 years.
- 17.12 Air quality near the Site is currently good; the closest Air Quality Management Area is located approximately 9.4km southwest of the Site, in Newmarket.
- 17.13 There are no residential properties nor statutory designated habitat sites within 250m of extensions site boundary’s.
- 17.14 Traffic associated with the proposed Site would continue to enter and leave the site by the existing access point. The site will be worked once extraction from the current phases is completed, and traffic movements will be similar to the existing quarry. Therefore, there will be no material change from existing flows, and traffic emissions are unlikely to increase local pollutant concentrations.

### **Noise**

- 17.15 Assuming standard mitigation measures such as the use of earth screening bunds as barriers, no other noise mitigation measures are required.

### **Public Rights of Way**

- 17.16 No public rights of way would be directly affected.

### **Floods**

- 17.17 The site sits above Principle and Secondary Aquifers. Ordinary watercourse between extension areas should must not be adversely affected by works in terms of water quality (pollution).

### **Policy MS10: Worlington**

Development will be acceptable so long as the proposals, adequately address the following:












- a) mitigation of landscape and visual impacts including the retention where possible of the characteristic tree belts;
- b) a programme of archaeological investigation, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth);
- c) potential impacts upon nature conservation interest including Breckland SPA, Breckland SAC, Breckland Flora CWS, Ground Water Source Protection zone, European Protected Species, Other Protected Species, and Priority Habitats;
- d) the provision of measures to mitigate noise, and;
- e) the implications for the underlying groundwater, controlled waters and the local water environment.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.



## 18. Proposed waste sites

18.1 The following inset maps show the proposed sites for proposed waste development.

Key	
	Proposed Site
	Existing Site
	Statutory Landscape Designation (One of the following) -Area of Outstanding Natural Beauty -Norfolk & Suffolk Broads
	Non-Statutory Landscape Designation -Special Landscape Area
	Statutory Ecological Designation (One or more of the following) -Site of Special Scientific Interest -Special Protection Area -Special Area of Conservation -Ramsar Wetlands -National Nature Reserves -Local Nature Reserves
	Non- Statutory Ecological Designation -County Wildlife Site
	Suffolk Lorry Route Network
	Rights of Way
	Historic Parks and Gardens
	Conservation Area
	Scheduled Monument



## **19. Sizewell “A” Nuclear Power Station**

### **Proposed development**

- 19.1 Sizewell A generated electricity for forty years between 1966 and 2006.
- 19.2 This Plan proposal relates to the management of waste arising from the decommissioning of Sizewell A together with other waste from sister stations in accordance with national policy to share waste facilities. It is important to note that Sizewell A is already benefiting from sharing waste management facilities at Bradwell Nuclear Power Station in Essex. Whilst there are no such proposals at the present time to share facilities at Sizewell it is considered prudent to have policies in place if such a proposal is put forward in the future.
- 19.3 Lorries would access from the A12, which is classified as a Strategic Lorry Route in the Suffolk Lorry Route Network, via the B1122 which is classified as a Zone Distributor Lorry Route, and then onto the U2822 Lovers Lane and then onto the C228, which are classified as a Local Access Lorry Routes, before reaching the site access road.
- 19.4 The site is also rail linked although this is not currently used. The area of the site as included is 13.02 ha.

### **Development Plan and planning applications**

- 19.5 There are no Suffolk Coastal District Council adopted or draft plan proposals that conflict with the proposed site. At the time of writing there are no known planning applications which affect the site

### **Highways**

- 19.6 The existing access is considered adequate.

### **Landscape**

- 19.7 Justification would be required for further development with the Suffolk Coasts & Heaths Area of Outstanding Natural Beauty (AONB).

### **Historic Buildings**

- 19.8 No historic buildings would be affected.

## **Archaeology**

- 19.9 The site is within an area of archaeological potential identified through information held on the County Historic Environment Record (HER). The vast majority of the site has been heavily disturbed by its current usage. However, there are islands of potentially undisturbed land, notably Hill Wood and the car park in the SE corner. It is possible that excavation to provide storage facilities in this area may require archaeological mitigation.
- 19.10 Proposed development within unaffected areas will require planning conditions to secure a programme of archaeological investigation, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential, including Palaeolithic/ paleo-environmental potential.

## **Ecology**

- 19.11 Potential impacts upon nature conservation interest including Suffolk Coasts & Heaths AONB need to be adequately assessed and where necessary mitigation proposed.

## **Air Quality**

- 19.12 The Sizewell 'A' nuclear facility is currently in the process of decommissioning following its shut down in 2006. The process involves the treatment and storage of radioactive waste. The site has an Environmental Management Plan 2016/17 (May 2016) which includes mitigation measures relating to air quality and dust.
- 19.13 Air Quality near the site is currently good; Suffolk Coastal District Council have declared three Air Quality Management Areas, the closest of which is over 12km west of the proposed site. Sizewell Marshes SSSI is located approximately 35m from the site boundary at the closest point.
- 19.14 It is considered unlikely that any additional traffic generated by the decommissioning process (which is already underway) will exceed the thresholds defined within the IAQM/EPUK guidance, and therefore traffic emissions are unlikely to significantly increase local pollutant concentrations.

## **Noise**

- 19.15 The site Environmental Management Plan includes mitigation measures relating to noise and vibration.
- 19.16 It is considered unlikely that any additional future traffic generated by the decommissioning process (which is already underway) will cause significant changes in noise at sensitive locations.

## **Public Rights of Way**

19.17 Proposals should exclude the beach area including the public footpath unless there is an overriding need.

## **Floods**

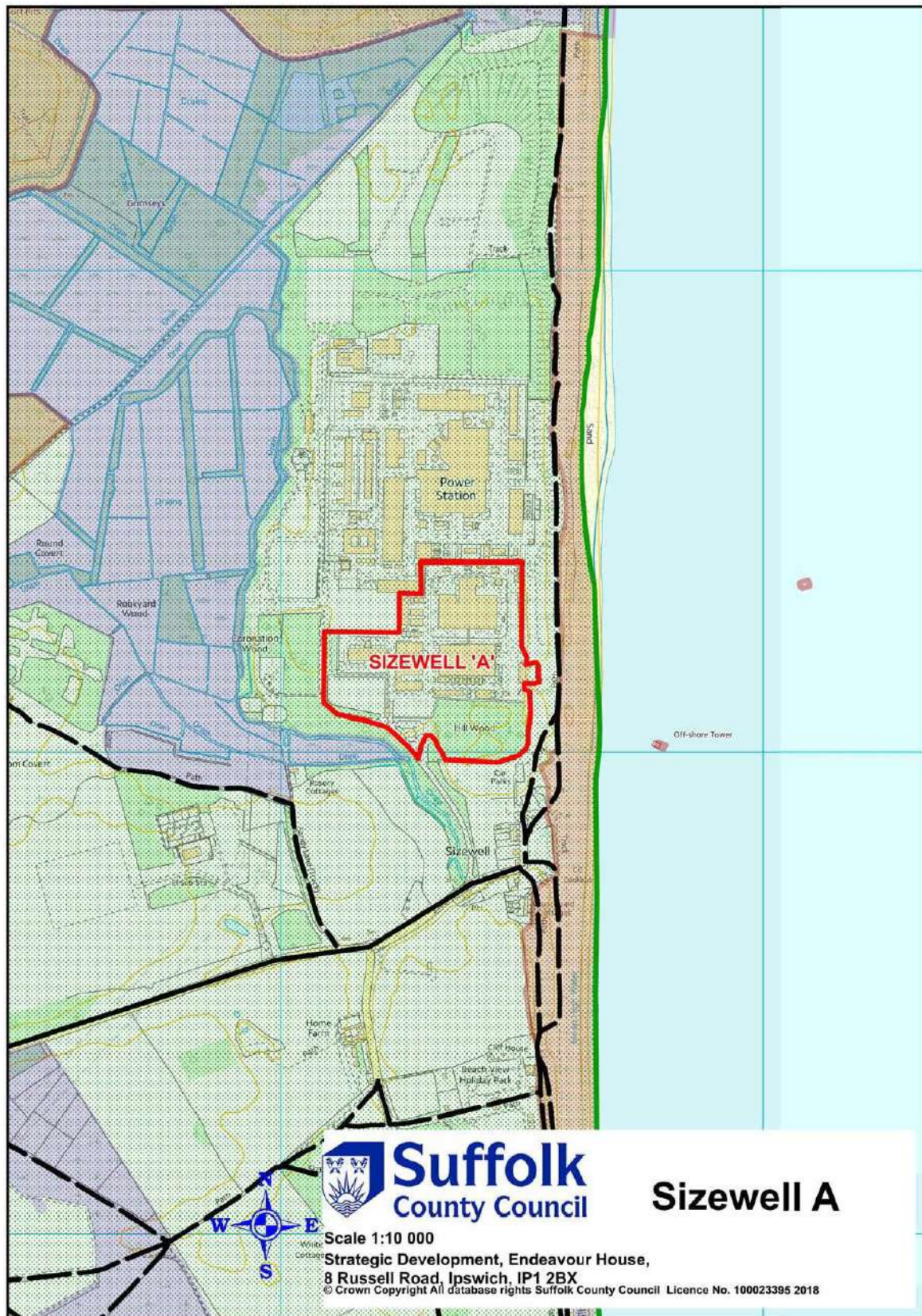
19.18 The site is at risk of surface water flooding in both 1 in 30 and 1 in 100 rainfall events. The site is located above a minor aquifer and is also shown to be at high/intermediate risk of groundwater flooding. This will have to be considered in any proposed development to the site.

### **Policy WS1: Sizewell A Nuclear Power Station**

Development will be acceptable so long as the proposals, adequately address the following:

- a) a programme of archaeological investigation if the proposed development is located on an area of previously undisturbed land, which will include assessment of, and provide mitigation strategies for, near surface archaeological potential and Palaeolithic potential (at depth);
- b) potential impacts upon nature conservation interest including Sizewell Marshes SSSI, Suffolk Shingle Beaches CWS, Minsmere-Walberswick Heaths & Marshes SSSI, Leiston-Aldeburgh SSSI, European and UK protected species, UK priority species, and the preservation of the flora and fauna associated with the established sand dunes on Sizewell beach including protect species such as Adders, unless there is an overriding need;
- c) potential impacts upon the Suffolk Coasts & Heaths AONB;
- d) the preservation of the existing public rights of way on Sizewell beach unless there is an overriding need;
- e) the safeguarding of existing pylons, and;
- f) the protection of the underlying minor aquifer and proposal to mitigate the risk of groundwater flooding.

Proposals must also be generally in accordance with other policies of the development plan including the environmental criteria set out in Policy GP4.



## 20. **Appendix 1. Acronyms & glossary**

**AD:** Anaerobic Digestion

**AONB:** Area of Outstanding Natural Beauty

**Bq:** Becquerel

**C&I Waste:** Commercial and industrial waste

**C, D & E Waste:** Construction, demolition and excavation waste

**CWS:** County Wildlife Site

**DPD:** Development Plan Document

**EEAWP:** East of England Aggregates Working Party

**EfW:** Energy from Waste facility

**HGV:** Heavy Goods Vehicle

**HS2:** High Speed 2 proposed railway

**ILW:** Intermediate Level Waste (radioactive waste)

**IVC:** In-vessel Composting facility

**LACW:** Local Authority Collected Waste

**LAA:** Local Aggregates Assessment

**LLW:** Low Level Waste (radioactive waste)

**LNR:** Local Nature Reserve

**LPA:** Local Planning Authority

**MCA:** Minerals Consultation Areas

**MPA:** Minerals Planning Authority

**MRF:** Materials Recycling Facility

**MSA:** Minerals Safeguarding Areas

**Mt:** Million Tonnes

**NNR:** National Nature Reserve

**NPPF:** National Planning Policy Framework

**NPPW:** National Planning Policy for Waste

**PPG:** Planning Practice Guidance

**SA:** Sustainability Appraisal

**SAC:** Special Area of Conservation

**SAM:** Scheduled Ancient Monument

**SMWLP:** Suffolk Minerals & Waste Local Plan

**SPA:** Special Protection Area



**SSSI:** Site of Special Scientific Interest

**SWS:** Suffolk Waste Study

**VLLW:** Very Low-Level Waste (radioactive waste)

**WPA:** Waste Planning Authority

**Aftercare:** following final restoration of a former quarry, the land is likely to require further treatment to bring it up to the required standard for the approved after-use, for example agriculture. This entails annual monitoring leading to the identification of any necessary remedial works such as drainage or cultivation for five years.

**Anaerobic Digestion:** anaerobic (in the absence of oxygen) digestion of organic waste, typically energy crops, brewery waste or vegetable tailings, inside a closed vessel. The methane gas produced is used to generate electricity and the digestate residue is used for fertiliser.

**Aggregates:** aggregates include crushed rock, sand and gravel or recycled materials that are used in construction, typically for the production of concrete, mortar, asphalt or as drainage media.

**Area of Outstanding Natural Beauty:** is an area designated under Section 87 of the National Parks and Access to the Countryside Act 1949 as an area of particular natural beauty to be preserved and enhanced. In Suffolk, the Dedham Vale and the Suffolk Coasts & Heaths are designated AONBs.

**Aquifer:** an aquifer is an underground layer of water-bearing permeable rock, rock fractures or unconsolidated materials (gravel, sand or silt) from which groundwater can be extracted using a water well or borehole.

**Becquerel (Bq):** the standard international unit of radioactivity equal to one radioactive transformation per second.

**Bio-aerosol:** associated with the composting of green waste which releases small particles including spores which are carried in suspension on the wind.

**Borrow Pits:** in the Suffolk context are sand and gravel workings used exclusively for a particular construction project, typically new road construction. The term borrow comes from the fact that sometimes the extracted sand and gravel is replaced in the resulting void space by surplus low-quality materials such as silt which are not strong enough to carry the weight of the new road or other structure. The main advantage of borrow pits is that they are normally very close to the construction project and are often connected to that project by routes which do not use the public highway.

**Commercial & industrial waste:** waste collected by private waste contractors.

**Construction, demolition and excavation waste:** waste soils, clays, concrete, bricks, wood etc.

**Composting:** aerobic (in the presence of oxygen) degradation of organic waste, typically green garden waste, by microbes either inside buildings which is called in-vessel composting and/or in the open air in long piles of green waste called windrows. Examples include Local Authority Collected Waste that is sorted into the green waste bin by the householder. This is then collected by the local authority and taken to an In-vessel Composting facility (IVC) where the green waste is rapidly composted within ventilated units and the resulting compost sold for soil improver. The air passed through the compost is filtered via microbe supporting filters which remove the odour before it is released back into the atmosphere.

**Construction, demolition and excavation waste:** this includes rubble and clean soils.

**County Wildlife Site:** is a locally-designated wildlife habitat.

**Development Plan Documents:** contain planning policies and identify proposed sites for development and are subject to an Examination in Public before adoption by the relevant planning authority as planning policy.

**End of Life Vehicle Facilities:** also known as scrapyards.

**Groundwater Source Protection Zones:** these zones are defined by the Environment Agency to protect wells, boreholes and springs used for public drinking water supply.

**Hazardous Waste:** this includes contaminated soils, waste oils, waste electrical goods and asbestos.

**Heavy Goods Vehicle:** is a term for any lorry with a gross weight of over 3.5 tonnes.

**HS2:** High Speed 2 proposed railway between London, Birmingham, the East Midlands, Leeds and Manchester.

**Household Waste Recycling Facilities:** bring sites run on behalf of the County Council primarily for the collection of bulky household waste.

**Inert waste:** is a broad term but practically speaking would mean mainly surplus uncontaminated soils and clays.

**Intermediate Level Waste:** in the radioactive waste context, these are radioactive wastes exceeding the upper activity boundaries for LLW but which do not need heat to be taken into account in the design of storage or disposal facilities.

**Inert waste landfill or landraise:** refers to the final disposal of inert waste either by the infill of a void space as landfill and/or construction of a mound above ground level as landraising.

**Landbank:** a stock of planning permissions for land containing specified levels of minerals reserves. The landbank level is normally expressed in the number years' supply, based upon an average of the last ten years' sales or sub-regional apportionment or some other figure.

**Local Aggregates Assessment:** provides an assessment of aggregates supplies and is published by each Minerals Planning Authority.

**Local Authority Collected Waste:** waste collected by local authorities which includes household waste and trade waste.

**Local Nature Reserve:** is an area of particular wildlife interest declared by a local authority under Section 21 of the National Parks and Access to the Countryside Act 1949, and usually managed by them.

**Local Planning Authority:** in Suffolk, the LPAs are the District and Borough Councils who are responsible for planning for development other than minerals, waste, County Council development or Nationally Significant Infrastructure Projects (NSIP).

**Low Level Waste:** in the radioactive waste context this includes metals, soil, building rubble and organic materials, which arise principally as lightly contaminated miscellaneous scrap. Metals are mostly in the form of redundant equipment. Organic materials are mainly in the form of paper towels, clothing and laboratory equipment that have been used in areas where radioactive materials are used – such as hospitals, research establishments and industry. LLW contains radioactive materials other than those acceptable for disposal with municipal and general commercial or industrial waste. It is defined as “radioactive waste having a radioactive content not exceeding four giga-becquerels per tonne (GBq/te) of alpha or 12 GBq/te of beta/gamma radioactivity”.

**Material considerations:** is a matter that should be taken into consideration when determining planning applications. For example, highways issues are a material planning consideration and loss of property values is not.

**Minerals Consultation Areas:** a mechanism whereby District or Borough Councils consult the Minerals Planning Authority upon proposed not minerals developments within MCAs. MCAs are designated where minerals resources are known to existing according to geological mapping.

**Minerals Planning Authority:** Suffolk County Council is the MPA for Suffolk and is therefore responsible for the determination of minerals related planning applications and for the enforcement of planning control in respect of minerals issues and the production of a minerals local plan (or a combined minerals and waste local plan).

**Minerals Safeguarding Areas:** areas where the Minerals Planning Authority will seek to protect minerals development from other forms of development.

**National Nature Reserve:** is nationally important area of special nature conservation interest, designated under Section 16 of the National Parks and Access to the Countryside Act 1949.

**National Planning Policy Framework:** contains Government planning policy on a range of issues including minerals.

**National Planning Policy for Waste:** contains Government planning policy on waste.

**Non-hazardous Landfill and/or landraise:** is where Non-hazardous Waste is placed and compacted by machinery in engineered cells lined with plastic or clay. When each cell is full it is then sealed with plastic or clay then covered with soils and planted. The moisture that arises from the degradation of the waste is called leachate and is either extracted and treated before disposal or recirculated to aid waste degradation. The landfill gas that is generated from the degradation of the waste can be either vented passively or extracted and flared off and/or used to drive electricity generating equipment.

**Non-hazardous Waste:** this includes commercial & industrial and local authority collected waste.

**Norfolk & Suffolk Broads:** designated under the Norfolk & Suffolk Broads Act 1988 of equivalent status of a National Park.

**PPG:** Government Planning Policy Guidance website.

**Proposals Map:** part of the development plan document with indicates on an Ordnance Survey map base the areas proposed for development (in this case minerals and waste development).

**Radioactive Waste:** this includes Very Low-Level Waste (VLLW), Low Level Waste (LLW), Intermediate Level Waste (ILW) and Spent Fuel.

**Ramsar:** site of internationally important wetland for breeding birds identified for conservation under the Ramsar convention (1971).

**Recycled Aggregates:** these are recycled concrete, recycled bricks, or other recycled waste materials, that are used as an alternative to sand and gravel or crushed rock.

**Recycled Waste:** involves the recovery of recyclable materials from the waste stream. Examples include Local Authority Collected Waste that is sorted into the recycled waste bin by the householder. This is then collected by the local authority and taken to the Materials Recycling Facility (MRF) where metals, plastics and paper etc. are removed and sent to commercial recyclers.

**Restoration:** refers to the reinstatement of a former quarry and/or landfill site to its final restored condition albeit not necessarily to the same level as before. Generally,

where significant sized sites are involved then the restoration is carried out in stages and is said to be a phased restoration.

**Residual Waste:** waste which cannot be re-used, recycled or composted. Examples include Local Authority Collected Waste that is sorted into the residual waste bin by the householder. This is then collected by the local authority and taken to the Energy from Waste facility (EfW).

**Scheduled Ancient Monument:** is an historic building or site that is included in the Schedule of Monuments kept under the Ancient Monuments and Archaeological Areas Act 1979.

**Secondary Aggregates:** by-products used as a source of construction aggregates.

**Site of Special Scientific Interest:** site notified by Natural England under Section 25 of the Wildlife and Countryside Act 1981 as having special wildlife or geological features worthy of protection.

**Site Selection Reports:** part of the evidence base in support of the Suffolk Minerals & Waste Local Plan, that contain information that was used in the selection of sites for inclusion in the Plan.

**Special Areas of Conservation:** site of international importance for nature conservation, classified under the European Union Habitats Directive.

**Special Protection Area:** an area of international importance for the conservation of wild birds, classified under the European Union Conservation of Wild Birds Directive.

**Specific Sites:** are, in the minerals context, where viable mineral resources are known to exist, landowners are supportive of minerals development and the proposal is likely to be acceptable in planning terms. Such sites may also include essential operations associated with mineral extraction.

Specific sites may also be used to identify sites for future waste development where the proposal is likely to be acceptable in planning terms.

**Spent Fuel:** after removal from the reactor, radioactive spent fuel is held in purpose-built facilities including ponds or dry stores before eventual dispatch for reprocessing at Sellafield.

**Suffolk Lorry Route Network:** this is a Suffolk County Council lorry management plan based upon a hierarchy of routes.

**Suffolk Minerals & Waste Local Plan:** is a type of Development Plan Document which will contain strategic minerals and waste policies and identify sites for sand and gravel extraction and also potentially waste development.



**Suffolk Waste Study:** this is part of the evidence base for the Suffolk Minerals & Waste Local Plan and quantifies the amount of Local Authority Collected Waste, Commercial and Industrial Waste, Construction, Demolition and Excavation Waste, Hazardous Waste, London Waste and Radioactive Waste that needs to be managed over the Plan period.

**Sustainability Appraisal:** is a document which appraises the sustainability of a document such as the Suffolk Minerals & Waste Local Plan.

**Sustainable development:** is defined in the NPPF and is seen as having three components: economic; social, and; environmental.

In the economic role, sustainable development means contributing to building a strong, responsive and competitive economy, by ensuring that sufficient land of the right type is available in the right places and at the right time to support growth and innovation; and by identifying and co-ordinating development requirements, including the provision of infrastructure.

The social role means supporting strong, vibrant and healthy communities, by providing the supply of housing required to meet the needs of present and future generations; and by creating a high quality-built environment, accessible local services that reflect the community's needs and support its health, social and cultural well-being.

The environmental role means contributing to protecting and enhancing our natural, built and historic environment; and, as part of this, helping to improve biodiversity, use natural resources prudently, minimise waste and pollution, and mitigate and adapt to climate change including moving to a low carbon economy.

**Very Low-Level Waste:** in the radioactive waste context, this is waste with very low concentrations of radioactivity. It arises from a variety of sources, including hospitals and the wider non-nuclear industry. Because VLLW contains little total radioactivity, it has been safely treated by various means, such as disposal with municipal and general commercial and industrial waste directly at landfill sites or indirectly after incineration.

Its formal definition is:

- a) (a) in the case of low volumes ('dustbin loads') of VLLW Radioactive waste which can be safely disposed of to an unspecified destination with municipal, commercial or industrial waste ("dustbin" disposal), each 0.1m<sup>3</sup> of waste containing less than 400 kilobecquerels (kBq) of total activity or single items containing less than 40 kBq of total activity.

For wastes containing carbon-14 or hydrogen-3 (tritium):

- in each 0.1m<sup>3</sup>, the activity limit is 4,000 kBq for carbon-14 and hydrogen-3 (tritium) taken together; and
- for any single item, the activity limit is 400 kBq for carbon-14 and hydrogen-3 (tritium) taken together.

Controls on disposal of this material, after removal from the premises where the wastes arose, are not necessary.

Or; (b) in the case of high volumes of VLLW, radioactive waste with maximum concentrations of four megabecquerels per tonne (MBq/te) of total activity which can be disposed of two specified landfill sites. For waste containing hydrogen-3 (tritium), the concentration limit for tritium is 40MBq/te. Controls on disposal of this material, after removal from the premises where the wastes arose, will be necessary in a manner specified by the environmental regulators.

**Waste Electrical & Electronic Equipment Recovery Facilities:** often for example located within Household Waste Recycling Centres, where members of the public can dispose of their unwanted fridges etc.

**Waste Hierarchy:** the management of waste in accordance with the Government's waste hierarchy in order of preference of: prevention; preparing for re-use; recycling; other recovery and disposal is seen as an important tool for environmental protection including against climatic change and the protection of local water resources.

**Waste Planning Authority:** Suffolk County Council is the WPA for Suffolk and is therefore responsible for the determination of waste related planning applications and for the enforcement of planning control in respect of waste issues and the production of a waste local plan (or a combined minerals and waste local plan).

**Waste Water Treatment Facilities:** also known as sewage works.

**Waste Transfer Station:** these facilities involve the sorting of waste and the onward transfer of waste to recyclers, composters, energy from waste facilities or landfills etc.

## 21. Appendix 2. Policy monitoring framework

21.1 Policies will be monitored on an annual basis and the results included in the Local Aggregates Assessment.

<b>Policy</b>	<b>Performance indicator</b>	<b>Target</b>	<b>Monitoring method</b>
<b>General policies</b>			
Policy GP1: Presumption in favour of sustainable development	No of times policy triggered		Monitoring planning decisions
Policy GP2: Climate change mitigation and adaptation	No of times policy triggered		Monitoring planning decisions
Policy GP3: Spatial strategy and key diagram	No of times policy triggered		Monitoring planning decisions
Policy GP4: General environmental criteria	No of times policy triggered		Monitoring planning decisions
<b>Minerals policies</b>			
Policy MP1: Provision of sand and gravel	No of times policy triggered	Permitted reserves of at least 7 years	Local Aggregates Assessment
Policy MP2: Proposed sites for sand and gravel extraction	No of times policy triggered	All 10 proposed sites with planning permission	Monitoring planning decisions
Policy MP3: Borrow pits	No of times policy triggered		Monitoring planning decisions

Policy MP4: Agricultural and public supply reservoirs	No of times policy triggered		Monitoring planning decisions
Policy MP5: Cumulative environmental impacts and phasing of workings	No of times policy triggered		Monitoring planning decisions
Policy MP6: Progressive working and restoration	No of times policy triggered		Monitoring planning decisions
Policy MP7: Aftercare	No of times policy triggered		Monitoring planning decisions
Policy MP8: Concrete batching plants and asphalt plants	No of times policy triggered		Monitoring planning decisions
Policy MP9: Safeguarding of port and rail facilities, and facilities for the manufacture of concrete and asphalt	No of times policy triggered	No loss of sites due to safeguarding issues	Monitoring planning decisions
Policy MP10: Minerals consultation and safeguarding areas	No of times policy triggered	No sterilisation of minerals resources due to safeguarding issues	Monitoring planning decisions

<b>Waste policies</b>			
Policy WP1: Management of waste	No of times policy triggered		Monitoring planning decisions
Policy WP2: Proposed site for waste management	No of times policy triggered	Planning permission on proposed site	Monitoring planning decisions
Policy WP3: Existing or designated land-use	No of times policy triggered		Monitoring planning decisions
Policy WP4: Household waste recycling centres	No of times policy triggered		Monitoring planning decisions
Policy WP5: Open air composting	No of times policy triggered		Monitoring planning decisions
Policy WP6: Enclosed composting facilities	No of times policy triggered		Monitoring planning decisions
Policy WP7: Anaerobic digestion	No of times policy triggered		Monitoring planning decisions
Policy WP8: Proposals for recycling or transfer of inert and construction, demolition and excavation waste	No of times policy triggered		Monitoring planning decisions

Policy WP9: Waste transfer stations, materials recycling facilities, end of life vehicle facilities and waste electrical and electronic equipment recovery facilities	No of times policy triggered		Monitoring planning decisions
Policy WP10: Residual waste treatment facilities	No of times policy triggered		Monitoring planning decisions
Policy WP11: Approval of sites for disposal of inert waste by landfilling or landraise	No of times policy triggered		Monitoring planning decisions
Policy WP12: Approval of sites for disposal of non-hazardous waste by landfilling or landraise	No of times policy triggered		Monitoring planning decisions
Policy WP13: Mining or excavation of landfill waste	No of times policy triggered		Monitoring planning decisions
Policy WP14: Waste water treatment	No of times policy triggered		Monitoring planning decisions



Policy WP15: Transfer, storage, processing & treatment of hazardous waste	No of times policy triggered		Monitoring planning decisions
Policy WP16: Treatment and storage of radioactive waste at Sizewell nuclear power stations	No of times policy triggered		Monitoring planning decisions
Policy WP17: Design of waste management facilities	No of times policy triggered		Monitoring planning decisions
Policy WP18: Safeguarding of waste management sites	No of times policy triggered	No loss of sites due to safeguarding issues	Monitoring planning decisions
<b>Minerals sites</b>			
Policy MS1: Barham	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS2: Barnham	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS3: Belstead	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS4: Cavenham	Policy triggered	Planning permission granted	Monitoring planning decisions

Policy MS5: Layham	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS6: Tattingstone	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS7: Wangford	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS8: Wetherden	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS9: Wherstead	Policy triggered	Planning permission granted	Monitoring planning decisions
Policy MS10: Worlington	Policy triggered	Planning permission granted	Monitoring planning decisions
<b>Waste sites</b>			
Policy WS1: Sizewell	Policy triggered	Planning permission granted	Monitoring planning decisions

## 22. Appendix 3: Safeguarding maps

22.1 The following schedule and maps indicate existing and proposed minerals and waste development that is subject to safeguarding policies MP11 and WP17 respectively.

22.2 The large 1:100,000 scale Proposals Map (located in the Map Pocket in the hard copy version) indicates the general location of safeguarded minerals and waste development. The pink inset panels, which are numbered by District/Borough, can be cross-referenced via the following schedule to smaller 1: 25,000 scale inset maps in the following pages. The safeguarded sites are shown in orange and the 250-metre safeguarding zone is highlighted in blue.

22.3 The safeguarded Waste Water Treatment facilities are only depicted on the Proposals Map by their 400-metre safeguarding buffer radius.

<b>Table 1: Mineral Sites</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">MS8</a>	M1	Barham	Brett Aggregates	612116	251410
<a href="#">SB1</a>	M2	Barnham	Mick George	584122	279248
<a href="#">B2</a>	M3	Belstead	Ingram	611170	239806
<a href="#">FH3</a>	M4	Cavenham	Allen Newport	574789	271383
<a href="#">B3</a>	M5	Layham	Brett Aggregates	601392	240221
<a href="#">B2</a>	M6	Tattingstone	Shotley Holdings	612162	236274
<a href="#">MS5</a>	M7	Wetherden	Aggmax	599309	262979
<a href="#">B2</a>	M8	Wherstead	Brett Aggregates	613629	239761
<a href="#">FH4</a>	M9	Worlington	Frimstone	569860	271290
<a href="#">W4</a>	M10	Wangford	Cemex UK Ltd	646395	279695
<a href="#">MS8</a>	M11	Shrubland Quarry	Brett Aggregates	612000	253700
<a href="#">W4</a>	M12	Henham Quarry	The Lyndon Pallet Group	645303	279091
<a href="#">W3</a>	M13	Flixton Quarry	Cemex UK Ltd	629925	286424
<a href="#">MS8</a>	M14	Gallows Hill Quarry	Lafarge Tarmac	610470	253714
<a href="#">SC5</a>	M15	Red House Farm Quarry, Bucklesham	Lafarge Tarmac	625495	240481

<a href="#">B3</a>	M16	Peyton Hall Quarry	Buffalo Crow Ltd	602216	244414
<a href="#">FH4</a>	M17	Barton Mills Chalk Quarry	Needham Chalks	571100	272000
<a href="#">B2</a>	M18	Bentley Fishing Lake, Bergholt Road	Bentley Plants	610246	236518
<a href="#">SB4</a>	M19	Moreton Hall Borrow Pit	Breheny	589229	264789
<a href="#">SC5</a>	M20	Waldringfield Quarry	Brett Aggregates	625760	244830

<b>Table 2: Concrete Products</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">I1</a>	CP1	Hanson Concrete, Ipswich	Hanson Heidelberg Cement	613441	245308
<a href="#">MS7</a>	CP2	Poundfield Products, Creeping St Peter	Poundfield Products Ltd	608414	256753

<b>Table 3: Concrete Batching Plants</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">W2</a>	CB1	Beccles	C&H Quickmix	644745	288790
<a href="#">MS8</a>	CB2	Shrublands Quarry	Brett Aggregates	612000	253700
<a href="#">SC5</a>	CB3	Waldringfield Quarry	Brett Aggregates	625760	244830
<a href="#">W3</a>	CB4	Flixton Quarry	Cemex	629925	286424
<a href="#">I1</a>	CB5	Sir Alf Ramsey Way, Ipswich	Cemex	615288	244329
<a href="#">SC5</a>	CB6	Kesgrave Sinks Pit	Cemex	621498	245495
<a href="#">SC2</a>	CB8	Saxmundham	Cemex	641328	264363
<a href="#">B5</a>	CB9	Sudbury	Cemex	588560	241494
<a href="#">SB2</a>	CB10	Bury St Edmunds	Eastern Concrete	583952	268693
<a href="#">I1</a>	CB11	Hadleigh Road, Ipswich	Euromix	614487	245041
<a href="#">FH4</a>	CB13	Worlington Quarry	Hanson Heidelberg Concrete	569860	271290

<a href="#">I1</a>	CB14	Hanson Concrete, Ipswich	Hanson Heidelberg Concrete	613441	256753
<a href="#">MS5</a>	CB15	Lawn Farm, Wetherden	Aggmax	599445	262427

**Table 4: Asphalt Plants**

Map No	Site Ref	Site Name	Operator	Grid Ref	
				Easting	Northing
<a href="#">MS8</a>	AP1	Barham Asphalt Plant	Tarmac	612116	251410
<a href="#">FH3</a>	AP2	Cavenham Asphalt Plant	Breedon	574789	271383
<a href="#">I1</a>	AP3	Cliff Quay, Ipswich	Tarmac	616886	241942
<a href="#">SC5</a>	AP4	Foxhall Asphalt Plant	Eurovia	624397	243721
<a href="#">FH4</a>	AP5	Gazeley Asphalt Plant (Kentford/Higham)	Tarmac	571872	266987

**Table 5: Railheads**

Map No	Site Ref	Site Name	Operator	Grid Ref	
				Easting	Northing
<a href="#">MS8</a>	R1	Barham Railhead	Tarmac	611888	251403
<a href="#">SB4</a>	R2	Bury St Edmunds Railhead	Tarmac	585115	265164
<a href="#">FH4</a>	R3	Gazeley Railhead (KENTFORD/HIGHAM)	Tarmac	571872	266987
<a href="#">I1</a>	R4	West Bank Terminal, Ipswich	Brett Aggregates	616735	243191

<b>Table 6: Nuclear Sites</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>SC1</u></a>	N1	Sizewell A Nuclear Power Station	GVA	647390	263277
<a href="#"><u>SC1</u></a>	N2	Sizewell B Nuclear Power Station	EDF	647372	263608

<b>Table 7: Wharves</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>I1</u></a>	W1	Cliff Quay, Ipswich	Port Authority	616786	242631
<a href="#"><u>W1</u></a>	W2	Hamilton Dock, Lowestoft	Port Authority	655297	293024
<a href="#"><u>W1</u></a>	W3	North Quay, Lowestoft	Port Authority	653603	292906
<a href="#"><u>I1</u></a>	W4	West Bank Terminal, Ipswich	Brett Aggregates	616627	242800

<b>Table 8: Non-Hazardous Landfills</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>MS9</u></a>	NHL1	Masons Landfill	Viridor Waste Disposal Ltd	611200	250000
<a href="#"><u>B2</u></a>	NHL2	Folly Farm, Tattingstone	Shotley Holdings	612162	236274
<a href="#"><u>SC5</u></a>	NHL3	Foxhall Landfill	Viridor	624064	243844



<b>Table 9: Incinerators with Energy Recovery</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">MS4</a>	IER1	Eye Power Station	ERP Eye Ltd	612448	275979
<a href="#">I1</a>	IER2	Ipswich EfW Facility	SRCL Ltd	619300	245000
<a href="#">MS9</a>	IER3	SITA Suffolk EfW Plant	Suez UK Ltd	612323	249670
<a href="#">SC7</a>	IER4	Building 1608 Bentwaters Park	Agri Gen	635747	253237

<b>Table 10: Inert Landfills</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">MS5</a>	IL1	Lawn Farm Quarry, Wetherden	Aggmax Ltd	599445	262427
<a href="#">MS8</a>	IL2	Shrubland Quarry Landfill	Brett Aggregates Ltd	612000	253700
<a href="#">SC5</a>	IL3	Waldringfield Landfill	Brett Aggregates Ltd	625760	244830
<a href="#">FH4</a>	IL4	Bay Farm, Worlington Quarry	Frimstone	569860	271290
<a href="#">MS8</a>	IL5	Barham Quarry	Brett Aggregates	612116	251410
<a href="#">W4</a>	IL6	Henham Quarry	The Lydon Pallett Group	645303	279091
<a href="#">W3</a>	IL7	Flixton Quarry	Cemex UK Ltd	629925	286424
<a href="#">MS8</a>	IL8	Gallows Hill	Lafarge Tarmac	625495	240481
<a href="#">MS9</a>	IL9	Blood Hill Quarry	JT Few	611379	248419
<a href="#">B3</a>	IL10	Peyton Hall Quarry, Hadleigh	Buffalo Crow	602216	244414
<a href="#">FH4</a>	IL11	Barton Mills Chalk Quarry	Needham Chalks (HAM) Ltd	571059	272238

<b>Table 11: Incinerators without Energy Recovery</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>B3</u></a>	IWER1	Hunt Kennels	The Essex and Suffolk Hunt	602400	241400
<a href="#"><u>SB3</u></a>	IWER2	Suffolk Pet Crematorium	WJ Phizacklea	578080	263123
<a href="#"><u>MS7</u></a>	IWER3	Earl Stonham Incinerator	Horse Plus Ltd	611300	259300
<a href="#"><u>SC1</u></a>	IWER4	Sizewell A Nuclear Power Station	BNFL Magnox Generation	647300	263200
<a href="#"><u>SC1</u></a>	IWER5	Sizewell B Nuclear Power Station	British Energy Generation Ltd	647300	263200
<a href="#"><u>I1</u></a>	IWER6	Ipswich Hospital	White Rose Environmental	619310	245005

<b>Table 12: Composting Facilities</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>I1</u></a>	CF1	Cliff Quay	Anglian Water Services Limited	617200	241800
<a href="#"><u>FH4</u></a>	CF2	Red Lodge Compost Facility	Anti-Waste Ltd	569357	270104
<a href="#"><u>MS7</u></a>	CF3	Creeping Compost Facility	Material Change Creeping Ltd	608884	256268
<a href="#"><u>SC3</u></a>	CF4	Parham IVC	Tamar Organics	631771	260103
<a href="#"><u>SB2</u></a>	CF5	Lackford Recycling Facility	Tamar Recycling (Suffolk) Ltd	579618	269260

<b>Table 13: Household Waste Recycling Centres</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>SB4</u></a>	HWRC1	Bury St Edmunds HWRC	F C C Recycling (UK) Limited	586700	263400
<a href="#"><u>SC6</u></a>	HWRC2	Felixstowe HWRC	F C C Recycling (UK) Limited	628600	232900
<a href="#"><u>SC5</u></a>	HWRC3	Foxhall HWRC	F C C Recycling (UK) Limited	623885	244009
<a href="#"><u>B3</u></a>	HWRC4	Hadleigh HWRC	F C C Recycling (UK) Limited	603520	243637
<a href="#"><u>SB5</u></a>	HWRC5	Haverhill HWRC	F C C Recycling (UK) Limited	568229	244853
<a href="#"><u>I1</u></a>	HWRC6	Ipswich HWRC	F C C Recycling (UK) Limited	615300	244200
<a href="#"><u>SC1</u></a>	HWRC7	Leiston HWRC	F C C Recycling (UK) Limited	645540	263410
<a href="#"><u>W1</u></a>	HWRC8	Lowestoft HWRC	F C C Recycling (UK) Limited	652668	286442
<a href="#"><u>FH3</u></a>	HWRC9	Mildenhall HWRC	F C C Recycling (UK) Limited	572983	275024
<a href="#"><u>MS6</u></a>	HWRC10	Stowmarket HWRC	F C C Recycling (UK) Limited	604366	259917
<a href="#"><u>B5</u></a>	HWRC11	Sudbury HWRC	F C C Recycling (UK) Limited	585900	240500
<a href="#"><u>SB4</u></a>	HWRC12	West Suffolk Operational Hub	SCC & West Suffolk	586259	266399

<b>Table 14: Material Reclamation Facilities</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#"><u>MS9</u></a>	MRF1	Masons Quarry	Viridor Waste Management Ltd	611200	250000

<b>Table 15: Waste Transfer Facilities</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">FH4</a>	WTF1	Red Lodge Transfer Station	Anti – Waste Ltd	569357	270104
<a href="#">SB5</a>	WTF2	Haverhill Waste Transfer Station	Anti – Waste Ltd	566420	244338
<a href="#">FH5</a>	WTF3	Newmarket Open Door Recycling Centre	Newmarket Open Door	563526	264698
<a href="#">I1</a>	WTF4	West Bank Waste Transfer Station	Brett Aggregates	616596	242549
<a href="#">MS8</a>	WTF5	Shrublands Quarry Recycling Facility	Brett Aggregates	612000	253700
<a href="#">SB2</a>	WTF6	Balloon Barn Farm	Culford Waste Ltd	584100	272100
<a href="#">W1</a>	WTF7	Former Brickworks and Pipework's site (Lowestoft)	E E Green & Son Ltd	652480	288476
<a href="#">SC5</a>	WTF8	Foxhall Waste Transfer Station	F C C Waste Services (UK) Limited	623924	243990
<a href="#">W1</a>	WTF9	Lowestoft	Hales C R	652600	289700
<a href="#">MS8</a>	WTF10	Malting Farm	J T Few Plant Hire Ltd	611601	251419
<a href="#">SC1</a>	WTF12	Leiston Transfer Station	Shotley Holdings	644217	262753
<a href="#">W1</a>	WTF14	Oulton Broad	P W Waters Ltd	652524	292942
<a href="#">MS9</a>	WTF15	S Sacker Claydon Ltd	S Sacker (Claydon) Ltd	612299	250377
<a href="#">MS8</a>	WTF16	Debtrac Centre	S Sacker (Claydon) Ltd	609293	254108
<a href="#">B2</a>	WTF17	Folly Farm Waste	Shotley Holdings Ltd	612162	236274

		Management Facility			
<a href="#">B2</a>	WTF18	Collins Skip Hire WTS	Shotley Holdings Ltd	612319	236581
<a href="#">SB4</a>	WTF19	Hollow Road Farm	Steve Lumley Planning Limited	586300	266217
<a href="#">MS6</a>	WTF20	Stowmarket Skip Hire Ltd	Stowmarket Skip Hire Ltd	602968	258659
<a href="#">B4</a>	WTF21	Harpers Hill Farm	T D & A M Bugg Ltd	596400	234900
<a href="#">W2</a>	WTF22	V C Cooke LTD	V C Cooke LTD	644000	288500
<a href="#">SB4</a>	WTF23	Collins Skiphire WTS, Hollow Road	Shotley Holdings Ltd	586287	266258
<a href="#">SB3</a>	WTF24	Risby Recycling & Composting	Greenways Recycling	578299	265924
<a href="#">MS9</a>	WTF25	Claydon Skips Ltd	Claydon Skips Ltd	611604	250142
<a href="#">W2</a>	WTF26	Ellough Waste Transfer Station, Anson Way	Radical Waste	645149	288638
<a href="#">MS8</a>	WTF27	Barham Quarry	Tarmac Aggregates Ltd	612166	251410
<a href="#">MS5</a>	WTF28	Tostock – Beyton Road	Mr & Mrs Bauly	596021	263045
<a href="#">MS9</a>	WTF29	Great Blakenham Paper Waste Transfer Site	Bolton Brothers Ltd	612161	249683
<a href="#">FH2</a>	WTF30	Mildenhall Skip Hire, Bargate Farm	Mildenhall Skip Hire	567830	274885
<a href="#">B5</a>	WTF31	Gt Waldingfield Waste Transfer Station	Mini Waste Ltd	590004	243610

<a href="#">SB6</a>	WTF32a	Green Lane, Honington, Bury St Edmunds	Mr Clive Tyler	588516	274335
<a href="#">SB6</a>	WTF32b	Green Lane, Honington, Bury St Edmunds	Mr Clive Tyler	588171	273776
<a href="#">SB6</a>	WTF32c	Green Lane, Honington, Bury St Edmunds	Mr Clive Tyler	590394	273208
<a href="#">SB8</a>	WTF33	Highpoint Prison, Stradishall, Newmarket	Reclaimed Appliances Ltd	572299	251714
<a href="#">W1</a>	WTF35	Lowestoft Waste Transfer Station, Hadenham Road	Anti-Waste Ltd	652673	289471
<a href="#">SC1</a>	WTF36	Masterlord Estate Waste Transfer Station	Skipaway	644156	262740
<a href="#">FH1</a>	WTF37	Causeway Pit, Lakenheath	Sutton Services Ltd	570700	282200
<a href="#">SB4</a>	WTF38	West Suffolk Operational Hub	SCC/West Suffolk	586259	266399

<b>Table 16: Secondary Aggregates/Recycling</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">MS9</a>	SAR1	Bolton Brothers Recycling Centre (MRF)	Bolton Brothers Ltd	612153	249700
<a href="#">MS8</a>	SAR2	Shrubland Park	Brett Aggregates Ltd	612000	253700
<a href="#">SC5</a>	SAR3	Sheepdrift Farm (Waldringfield)	Brett Aggregates Ltd	626000	244800



<a href="#">SC5</a>	SAR4	Sinks Pit	Cemex UK Materials Ltd	621498	245495
<a href="#">W3</a>	SAR5	Flixton Quarry (Site A)	Cemex UK Materials Ltd	629800	286500
<a href="#">SC4</a>	SAR6	D J Spall Recycling Ltd	D J Spall Recycling Ltd	626551	255006
<a href="#">W1</a>	SAR7	Former Brickworks and Pipework's site (Lowestoft)	EE Green & Son	652400	288500
<a href="#">MS8</a>	SAR8	Malting Farm	HF and JT Few	611257	251806
<a href="#">MS8</a>	SAR9	Broomfield Pit	Lafarge Aggregates Ltd	612200	251500
<a href="#">FH4</a>	SAR10	Gazeley Secondary Agg. Production	TARMAC	571889	267193
<a href="#">FH4</a>	SAR11	Bay Farm Quarry, Worlington	M Dickerson Ltd	569410	271743
<a href="#">FH3</a>	SAR12	Marston's Quarry	Middleton Aggregates	575925	271485
<a href="#">FH1</a>	SAR13	Old Chicory Factory	Murfitts Industries Ltd	572492	286426
<a href="#">W4</a>	SAR14	Sole Bay Recycling	Murray Graham	649862	276551
<a href="#">FH5</a>	SAR15	Newmarket Open Door Recycling Centre	Newmarket Open Door	563526	264698
<a href="#">MS9</a>	SAR16	S Sacker (Claydon) Ltd	Sackers Recycling	612299	250377
<a href="#">FH1</a>	SAR17	Causeway Pit, Lakenheath	Sutton Services Ltd	570700	282200
<a href="#">MS9</a>	SAR18	Somersham Road	Swift Recycling Ltd	611100	248200
<a href="#">B4</a>	SAR19	Harpers Hill Farm	T D & A M Bugg Ltd	596400	234900
<a href="#">W2</a>	SAR20	Beccles Civic Amenity Site	Radical Waste	645143	288605
<a href="#">B5</a>	SAR21	Chilton Grove Works	Wiles Contractors Limited	587917	243351
<a href="#">FH6</a>	SAR22	Lakenheath Recycling Centre, Brandon Road	Elveden Farms	573383	279879

<a href="#">MS9</a>	SAR23	Claydon Skips Ltd, Masons Landfill	Claydon Skips	611604	250142
<a href="#">W2</a>	SAR24	Ellough Waste Transfer Station	V C Cooke	644051	288533
<a href="#">FH4</a>	SAR25	Barton Mills Chalk Quarry	Needham Chalks (HAM) Ltd	571059	272238
<a href="#">SB5</a>	SAR26	Falconer Road, Haverhill	McFitch Waste Management Ltd	568045	244553
<a href="#">MS5</a>	SAR27	Lawn Farm, Wetherden	Aggmax	599309	262979
<a href="#">B5</a>	SAR28	Chilton Concrete Recycling Facility, Chilton Airfield	T & K Weavers Demolition Ltd	587917	243351
<a href="#">FH2</a>	SAR29	Holywell Row Waste Recovery Site	A & S Topsoils Ltd	570672	278265
<a href="#">SB7</a>	SAR30	R & D Construction Depot, Summer Road, Walsham le Willows	R & D Construction	599362	272131
<a href="#">W1</a>	SAR31	Solar Farm, Church Road, Gisleham	Ley Plant	652488	288370
<a href="#">SC7</a>	SAR32	The Control Tower (Recycling) Bentwaters	Mr John Kemble	634136	252681

<b>Table 17: Metals/End of Life Vehicles (MELV)</b>					
<b>Map No</b>	<b>Site Ref</b>	<b>Site Name</b>	<b>Operator</b>	<b>Grid Ref</b>	
				<b>Easting</b>	<b>Northing</b>
<a href="#">FH4</a>	MELV1	B McGivern – Bridge End Dismantlers	B McGivern	569200	270653
<a href="#">FH2</a>	MELV2	T & G Buckley – Beck Row Auto Dismantlers	Beck Row Auto Dismantlers	568752	278403
<a href="#">MS5</a>	MELV3	C G Finch Elmswell	C G Finch	598174	262867
<a href="#">W1</a>	MELV4	East Point Metal Trading Ltd	East Point Metal Trading Ltd	653461	293154
<a href="#">MS3</a>	MELV5	F A Edwards and Son Ltd	F A Edwards D Edwards J Edwards	618200	272600
<a href="#">B1</a>	MELV6	Parkwood Autos	Gatesby Ltd	606614	246563
<a href="#">W1</a>	MELV7	Lowestoft (Vehicle Dismantlers)	Hales C R	652600	289700
<a href="#">W1</a>	MELV8	Lowestoft (Metal Recycling)	Hales C R	652600	289700
<a href="#">MS1</a>	MELV9	Joma Roma Farm	J Spindler & Sons Ltd	630319	278908
<a href="#">W4</a>	MELV10	Sole Bay Car Spares	Murray G L	649795	276529
<a href="#">W1</a>	MELV11	Lowestoft Vehicle Car Breakers	Pendle John Harry	652549	289590
<a href="#">B1</a>	MELV12	SBS Spares	SBS Spares	611555	243195
<a href="#">FH4</a>	MELV13	The Carrops	Scrapco Metal Recycling Ltd	569482	269632
<a href="#">MS6</a>	MELV14	V Cracknell and Son Ltd	V Cracknell and Son Ltd	605513	257792
<a href="#">I1</a>	MELV15	Whip Street Motors (Whip Street)	Whip Street Motors Ltd	616509	243776
<a href="#">MS9</a>	MELV16	Papermill Lane	Whip Street Motors Ltd	612915	247803

<a href="#">SB7</a>	MELV17	Grove Lane Scrapyard, Stanton	S Scott and Sons Ltd	598259	273266
<a href="#">SB3</a>	MELV18	Risby End of Life Vehicles Facility, Newmarket Road, Risby	Gowing Autospares	578670	266026

**Table 18: Anaerobic Digestion Plants**

Map No	Site Ref	Site Name	Operator	Grid Ref	
				Easting	Northing
<a href="#">MS2</a>	AD1	Barley Brigg Biogas Ltd	Barley Brigg Biogas Ltd	625406	273627
<a href="#">SB3</a>	AD2	Symonds Farm Anaerobic Digestion Plant	Symonds Farm Power Ltd	579489	265335
<a href="#">W4</a>	AD3	Adnams Distribution Plant	Bio Group Ltd	648331	277563
<a href="#">W5</a>	AD4	Bernard Matthews	Houlton Renewable Power	640294	279245
<a href="#">B4</a>	AD5	Hill Farm, Boxford	Boxford (Suffolk) Farms	596243	238477
<a href="#">SC7</a>	AD6	Bentwaters Park AD Plant	Agri-Gen	635649	253229

**Table 19: Waste Water Treatment Facilities**

Site Ref	Site Name	Operator	Grid Ref	
			Easting	Northing
AW1	Aldeburgh Stw	Anglian Water	646061	260244
AW2	Alderton Stw	Anglian Water	634283	241444
AW3	Alton Water Stw-Private Altows	Anglian Water	616401	235918
AW4	Ashbocking-Mill Field Stw	Anglian Water	618594	254790

AW5	Ashfield-Sunnyside Cr Stw	Anglian Water	620993	262928
AW6	Bacton-Finingham La Stw	Anglian Water	605502	267475
AW7	Badwell Ash Stw	Anglian Water	587246	279446
AW8	Barnham Stw	Anglian Water	578076	263708
AW9	Barrow Stw	Anglian Water	639439	289608
AW10	Barsham Stw (Suffolk)	Anglian Water	644703	290417
AW11	Beccles-Marsh Lane Stw	Anglian Water	621852	267528
AW12	Bedfield Stw	Anglian Water	638139	260608
AW13	Benhall Stw	Anglian Water	611673	236622
AW14	Bentley Stw	Anglian Water	599088	248705
AW15	Blaxhall Stw	Anglian Water	637445	258011
AW16	Botesdale Stw	Anglian Water	605501	276328
AW17	Boxford Stw	Anglian Water	596788	239718
AW18	Bradfield St Clare Stw	Anglian Water	591369	257592
AW19	Brampton-The Street Stw	Anglian Water	643004	281817
AW20	Brandon Stw	Anglian Water	577519	286435
AW22	Brantham Stw	Anglian Water	611352	233522
AW22	Brent Eleigh Stw	Anglian Water	594390	247973
AW23	Brettenham Stw	Anglian Water	596637	254526
AW24	Brundish-Crown Corner Hsw	Anglian Water	625562	269875
AW25	Bungay Stw	Anglian Water	634405	289211
AW26	Bures-Wissington Rd Stw	Anglian Water	591821	233387
AW27	Burgate-Sycamore View Hsw	Anglian Water	608324	275528
AW28	Chantry Stw	Anglian Water	614896	241399
AW29	Charsfield Stw	Anglian Water	626562	256065
AW30	Chedburgh Stw	Anglian Water	579590	258769
AW31	Chelmondiston Stw	Anglian Water	620163	238199
AW32	Clare Stw	Anglian Water	578202	245336
AW33	Clopton-Wickham House Stw	Anglian Water	577308	253396
AW34	Cockfield-Green La Stw	Anglian Water	592052	255772
AW35	Cockfield-Mckenzie Place Stw	Anglian Water	590659	253778

AW36	Cockfield-Windsor Grn Stw	Anglian Water	589501	254802
AW37	Coney Weston Stw	Anglian Water	597439	278230
AW38	Corton Stw	Anglian Water	647579	270682
AW39	Cotton Stw	Anglian Water	607248	268242
AW40	Debenham Stw	Anglian Water	618014	262711
AW41	Denham End Stw	Anglian Water	576140	262936
AW42	Denham-Abbots Cl Stw	Anglian Water	575593	261667
AW43	Denham-East View Hsw	Anglian Water	619597	273871
AW44	Denham-Shingle St Hsw	Anglian Water	618529	273449
AW45	Denston-Sheepcote Stw	Anglian Water	576613	252723
AW46	Denston-Water La Stw	Anglian Water	574982	253052
AW47	Depden-Church End Stw	Anglian Water	578204	257290
AW48	Depden-Hall Close Stw	Anglian Water	577386	257217
AW49	Diss Stw	Anglian Water	612014	279188
AW50	Dunwich-Bridge Fm Stw	Anglian Water	647438	271079
AW51	Earl Soham Stw	Anglian Water	623286	262756
AW52	Earl Stonham-Hsw	Anglian Water	609919	260144
AW53	East Bergholt Stw	Anglian Water	607439	233970
AW54	Easton Stw (Suffolk)	Anglian Water	628414	258480
AW55	Elmsett Stw	Anglian Water	607085	246009
AW56	Elmswell Stw	Anglian Water	598293	262891
AW57	Eriswell Stw	Anglian Water	572025	279650
AW58	Erwarton Stw	Anglian Water	621606	234505
AW59	Eye-Hoxne Rd Stw	Anglian Water	615692	274567
AW60	Felixstowe Stw	Anglian Water	628852	233243
AW61	Flixton-Buck Plant Stw	Anglian Water	630758	287160
AW62	Flixton-Buxted Chicken St	Anglian Water	631000	286200
AW63	Fornham All Saints Stw	Anglian Water	584326	267906
AW64	Framlingham Stw	Anglian Water	628362	262142
AW65	Fressingfield-Buckingham Hl Hsw	Anglian Water	627117	277327
AW66	Gazeley Stw	Anglian Water	571036	263162



AW67	Gedding Stw	Anglian Water	594824	257671
AW68	Gedgrave-Chantry Marshes Stw	Anglian Water	642021	249227
AW69	Gipping-Hsw	Anglian Water	607033	263043
AW70	Gislingham Stw	Anglian Water	607960	271963
AW71	Glemsford Stw	Anglian Water	583424	249084
AW72	Go beck-White Gate Cottages Hsw	Anglian Water	616092	255401
AW73	Great Bricett-Hsw	Anglian Water	604180	250639
AW74	Great Cornard Stw	Anglian Water	588529	238622
AW75	Great Finborough Stw	Anglian Water	601921	257787
AW76	Great Wenham Stw	Anglian Water	607543	237994
AW77	Groton-Castlings Heath Stw	Anglian Water	597308	242820
AW78	Groton-Park Corner Stw	Anglian Water	595873	242984
AW79	Grundisburgh Stw	Anglian Water	623261	249790
AW80	Gt Bealings-Boot St Stw	Anglian Water	622750	249102
AW81	Gt Waldingfield Stw	Anglian Water	591335	244261
AW82	Gt Whelnetham Stw	Anglian Water	587682	260248
AW83	Gt Whelnetham-Stanfield Rd Stw	Anglian Water	587692	260238
AW84	Hadleigh Stw	Anglian Water	602889	241503
AW85	Halesworth Stw	Anglian Water	639106	276784
AW86	Haughley-Old St Stw	Anglian Water	602811	261893
AW87	Haverhill Stw	Anglian Water	568019	244838
AW88	Hawkedon Stw	Anglian Water	579950	253247
AW89	Hawstead Stw	Anglian Water	584829	259589
AW90	Helmingham-Hsw New Rd Cotts	Anglian Water	618892	258518
AW91	Henley Stw	Anglian Water	616514	251486
AW93	Hintlesham-Wilderness Hse Stw	Anglian Water	608533	243044
AW93	Holbrook Stw	Anglian Water	616876	236064
AW94	Hollesley Stw	Anglian Water	636122	244208
AW95	Homersfield Stw	Anglian Water	628447	285783
AW96	Huntington Stw	Anglian Water	591483	274788
AW97	Hoxne Stw	Anglian Water	618512	276874

AW98	Hundon Stw	Anglian Water	574251	247992
AW99	Hundon-Hall Cottages Stw	Anglian Water	574376	249958
AW100	Ilketshall St Andrew Stw	Anglian Water	637422	286657
AW101	Ilketshall St Lawrence Stw	Anglian Water	638201	283559
AW102	Ilketshall St Margaret Stw	Anglian Water	635583	284900
AW103	Ipswich-Cliff Quay/Raeburn St	Anglian Water	617354	241972
AW104	Kedington Stw	Anglian Water	570573	245984
AW105	Kentford-Moulton Ave Stw	Anglian Water	570409	266615
AW106	Kenton-Garneys Close Hsw	Anglian Water	619285	266539
AW107	Kersey (The Tye) Stw	Anglian Water	598502	243168
AW108	Kersey Stw	Anglian Water	600368	244347
AW109	Kessingland-Marsh Ln Stw	Anglian Water	653227	285711
AW110	Kirton-Drunkards L Stw	Anglian Water	628593	239609
AW111	Lakenheath Stw	Anglian Water	570919	283975
AW112	Lavenham Stw	Anglian Water	592365	248620
AW113	Laxfield Stw	Anglian Water	630157	272049
AW114	Laxfield-Fr Hsw	Anglian Water	628445	271699
AW115	Leiston-Valley Rd Stw	Anglian Water	645083	263079
AW116	Levington Stw	Anglian Water	623639	238880
AW117	Lidgate Stw	Anglian Water	571396	258351
AW118	Lindsey-Church Rd Stw	Anglian Water	597870	244868
AW119	Lindsey-Frogs Hall Stw	Anglian Water	598321	245982
AW120	Little Bealings Stw	Anglian Water	622617	247885
AW121	Long Melford Stw	Anglian Water	585487	245927
AW122	Lowestoft Stw	Anglian Water	653524	297870
AW123	Melton Stw	Anglian Water	628117	249721
AW124	Mendham Stw	Anglian Water	627025	283119
AW125	Mendlesham Stw	Anglian Water	611605	265588
AW126	Mendlesham-Wash La Hsw	Anglian Water	610609	264794
AW127	Metfield Stw	Anglian Water	628780	280749
AW128	Mettingham Stw	Anglian Water	636189	290111

AW129	Mickfield-Montgomery Cott Stw	Anglian Water	613604	261584
AW130	Mildenhall Stw	Anglian Water	569267	274780
AW131	Milden-Powney Street Stw	Anglian Water	595142	246091
AW132	Monk Soham-Hsw Oaklands	Anglian Water	620585	266475
AW133	Monks Eleigh Stw	Anglian Water	597295	248153
AW134	Nacton Stw	Anglian Water	622133	240566
AW135	Nayland Stw	Anglian Water	598427	234648
AW136	Nedging-Crowcroft Rd Stw	Anglian Water	601815	250194
AW137	Nedging-Tye Stw	Anglian Water	602056	250093
AW138	Needham Market Stw	Anglian Water	609485	254961
AW139	Newmarket Stw	Anglian Water	563410	266961
AW140	Norton Stw (Suffolk)	Anglian Water	595200	267060
AW141	Nowton Stw	Anglian Water	586249	261225
AW142	Oakley-Dross Ln Stw	Anglian Water	617068	277621
AW143	Offton-Castle Rise Hsw	Anglian Water	606398	249554
AW144	Offton-Middlewood Cottages Hsw	Anglian Water	606294	249523
AW145	Old Newton Stw	Anglian Water	605809	262049
AW146	Otley Stw	Anglian Water	620607	254716
AW147	Pettaugh-Debenham Way Hsw	Anglian Water	616613	259784
AW148	Playford Stw	Anglian Water	621728	247734
AW149	Poslingford Stw	Anglian Water	577106	248516
AW150	Preston St Mary Stw	Anglian Water	594358	250104
AW151	Rattlesden-Workhouse Ln Stw	Anglian Water	598085	259081
AW152	Redgrave Stw	Anglian Water	604821	278071
AW153	Redgrave-Crackthorn Bridge Stw	Anglian Water	603599	278182
AW154	Redisham-Station Rd Stw	Anglian Water	640973	284158
AW155	Redlingfield-Hsw	Anglian Water	618643	270941
AW156	Rendlesham-Park Stw	Anglian Water	633833	253917
AW157	Ringsfield-Redisham Rd Stw	Anglian Water	641395	286794
AW158	Ringshall-Hsw	Anglian Water	604031	252950

AW159	Rishangles-Hsw	Anglian Water	616197	268692
AW160	Rougham Stw (St Edmundsbury)	Anglian Water	588604	262933
AW161	Rumburgh-Abbey Farm Stw	Anglian Water	634281	281816
AW162	S Elmham St James Stw	Anglian Water	631652	281463
AW163	S Elmham St Margaret-Hsw	Anglian Water	631711	283758
AW164	Shadingfield-Hill Farm Hsw	Anglian Water	643378	283420
AW165	Shimpling Stw	Anglian Water	586193	251022
AW166	Shipmeadow-Locks La Stw	Anglian Water	638627	290186
AW167	Shotley-Overhall Fm Stw	Anglian Water	624423	234926
AW168	Somerleyton-Marsh La Stw	Anglian Water	647374	297551
AW169	Somersham Stw (Suffolk)	Anglian Water	609916	248559
AW170	Sotherton Stw	Anglian Water	643179	278422
AW171	South Elmham St Cross-Hsw	Anglian Water	629917	283908
AW172	Southwold-Common The Stw	Anglian Water	649886	276491
AW173	Sproughton-Church Lane Stw	Anglian Water	613006	244551
AW174	Stanningfield Stw	Anglian Water	587751	256751
AW175	Stanton Stw	Anglian Water	597334	273496
AW176	Stoke Ash-Roman Way Hsw	Anglian Water	611717	270130
AW177	Stoke by Clare Stw	Anglian Water	574630	243480
AW178	Stonham Aspal Stw	Anglian Water	612801	259550
AW179	Stonham Parva Stw	Anglian Water	611830	260026
AW180	Stonham Parva-Lambeth Way Hsw	Anglian Water	611405	260300
AW181	Stoven-Wangford Rd Stw	Anglian Water	644874	281379
AW182	Stowmarket Stw	Anglian Water	605840	258402
AW183	Stradbroke Stw	Anglian Water	623427	274589
AW184	Stradishall-Highpoint Stw	Anglian Water	571633	251471
AW185	Stuston-Abbey Close Hsw	Anglian Water	612877	276943
AW186	Sudbourne-Snape Rd Stw	Anglian Water	641189	253431
AW187	Sudbury Stw	Anglian Water	586030	241257
AW188	Syleham-Hsw	Anglian Water	621142	277974

AW189	Thelnetham Stw	Anglian Water	601227	278372
AW190	Thorington Street Stw	Anglian Water	600731	235914
AW191	Thorndon-Catbridge Stw	Anglian Water	613877	270734
AW192	Thorpe Morieux-Blacksmith Stw	Anglian Water	593641	252725
AW193	Thorpe Morieux-Post Office Stw	Anglian Water	594260	253641
AW194	Thorpeness Stw	Anglian Water	646043	260213
AW195	Thurlow Stw	Anglian Water	568182	250930
AW196	Thurston Stw	Anglian Water	591683	266774
AW197	Thwaite-Wickham Rd Hsw (Suffolk)	Anglian Water	611212	268434
AW198	Tuddenham Stw	Anglian Water	574338	270744
AW199	Tuddenham-Donkey Lane Stw	Anglian Water	619657	248028
AW200	Wangford Stw	Anglian Water	646437	278756
AW201	Washbrook-Opp Chapel Lane Stw	Anglian Water	612417	242200
AW202	Wattisfield-Stw	Anglian Water	602103	274874
AW203	Wenhaston Stw	Anglian Water	642981	274436
AW204	West Stow Stw	Anglian Water	581117	270860
AW205	Westhall-Near Manor Farm Stw	Anglian Water	640913	281213
AW206	Westhorpe Stw	Anglian Water	604967	269178
AW207	Westleton-Off B1125 Stw	Anglian Water	644117	268050
AW208	Weston-Kings La Stw	Anglian Water	641782	286390
AW209	Wetherden-Upper Town Hsw	Anglian Water	601066	264047
AW210	Weybread Stw	Anglian Water	623724	280641
AW211	Whatfield Stw	Anglian Water	602962	246708
AW212	Wickham Market Stw	Anglian Water	630793	255882
AW213	Wickhambrook Stw	Anglian Water	574874	254998
AW214	Wilby-Barley View Hsw	Anglian Water	625217	272330
AW215	Willingham-Fox Farm Stw	Anglian Water	643630	285222
AW216	Willisham-Hsw	Anglian Water	606616	250852
AW217	Wingfield Stw	Anglian Water	622560	276761
AW218	Withersdale Stw	Anglian Water	626695	281055

AW219	Withersfield Stw	Anglian Water	565312	247279
AW220	Wixoe Stw	Anglian Water	571961	242812
AW221	Woodbridge-Creek Fm Stw	Anglian Water	625912	247554
AW222	Worlingham-Ashtree Stw	Anglian Water	645139	289406
AW223	Worlingham-Marsh La Hsw	Anglian Water	644811	290415
AW224	Worlingworth Stw	Anglian Water	622696	268530
AW225	Worham-Magpie Grn Hsw	Anglian Water	607240	278302
AW226	Worham-Mellis Rd Hsw	Anglian Water	608482	276979
AW227	Wrentham-Southwold Rd Stw	Anglian Water	649762	281809
AW228	Wyverstone Stw	Anglian Water	604279	267695
AW229	Yaxley Stw	Anglian Water	612354	273871
AW230	Yoxford Stw	Anglian Water	640139	268853

**Table 20: Hazardous Landfills**

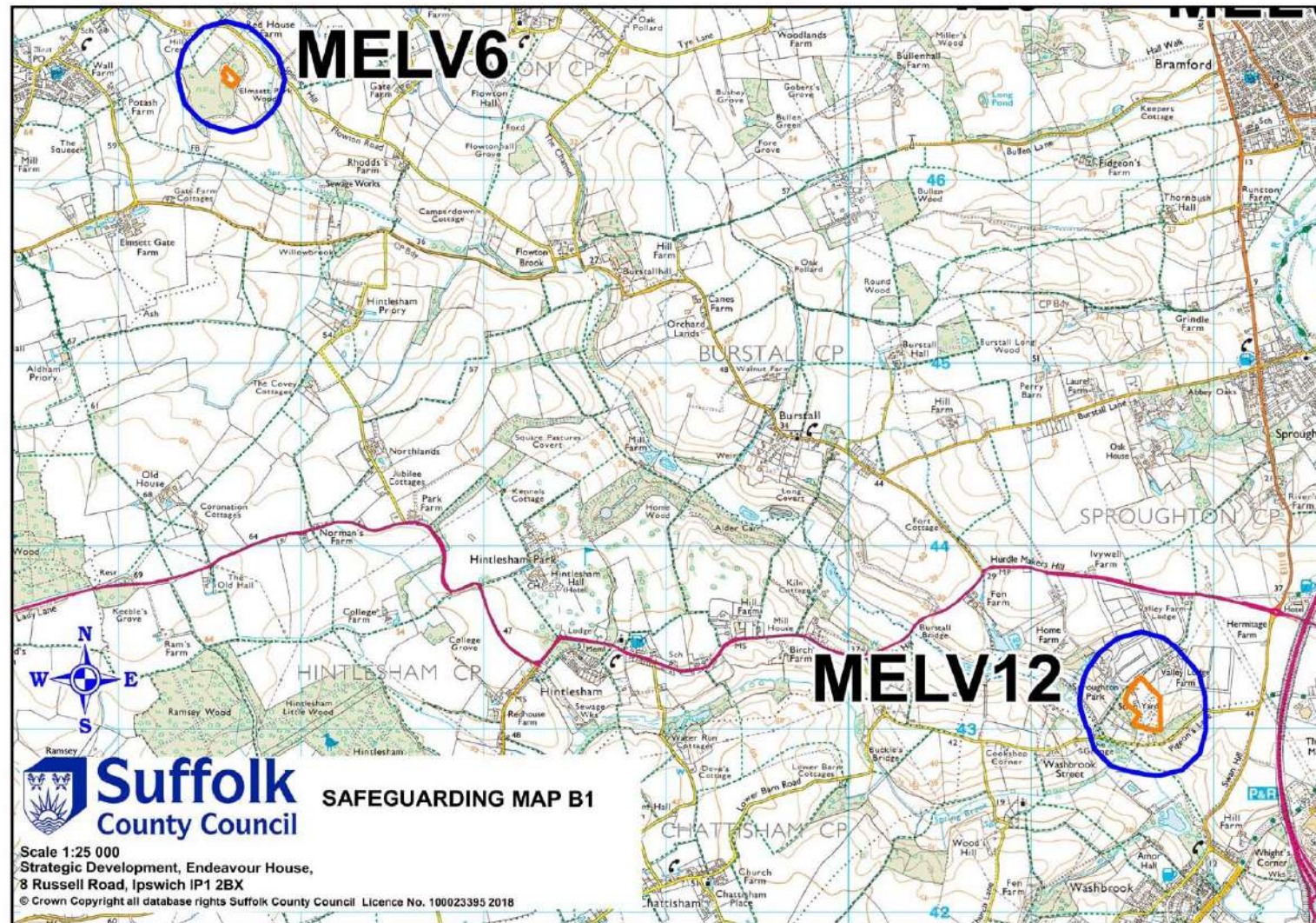
Map No	Site Ref	Site Name	Operator	Grid Ref	
				Easting	Northing
<a href="#">B2</a>	HL1	Folly Farm, Tattingstone	Shotley Holdings	612162	236274

**Table 21: Miscellaneous**

Map No	Site Ref	Site Name	Operator	Grid Ref	
				Easting	Northing
<a href="#">FH5</a>	MI1	Southfield Farm	GG Eco Solutions Ltd	561746	263866

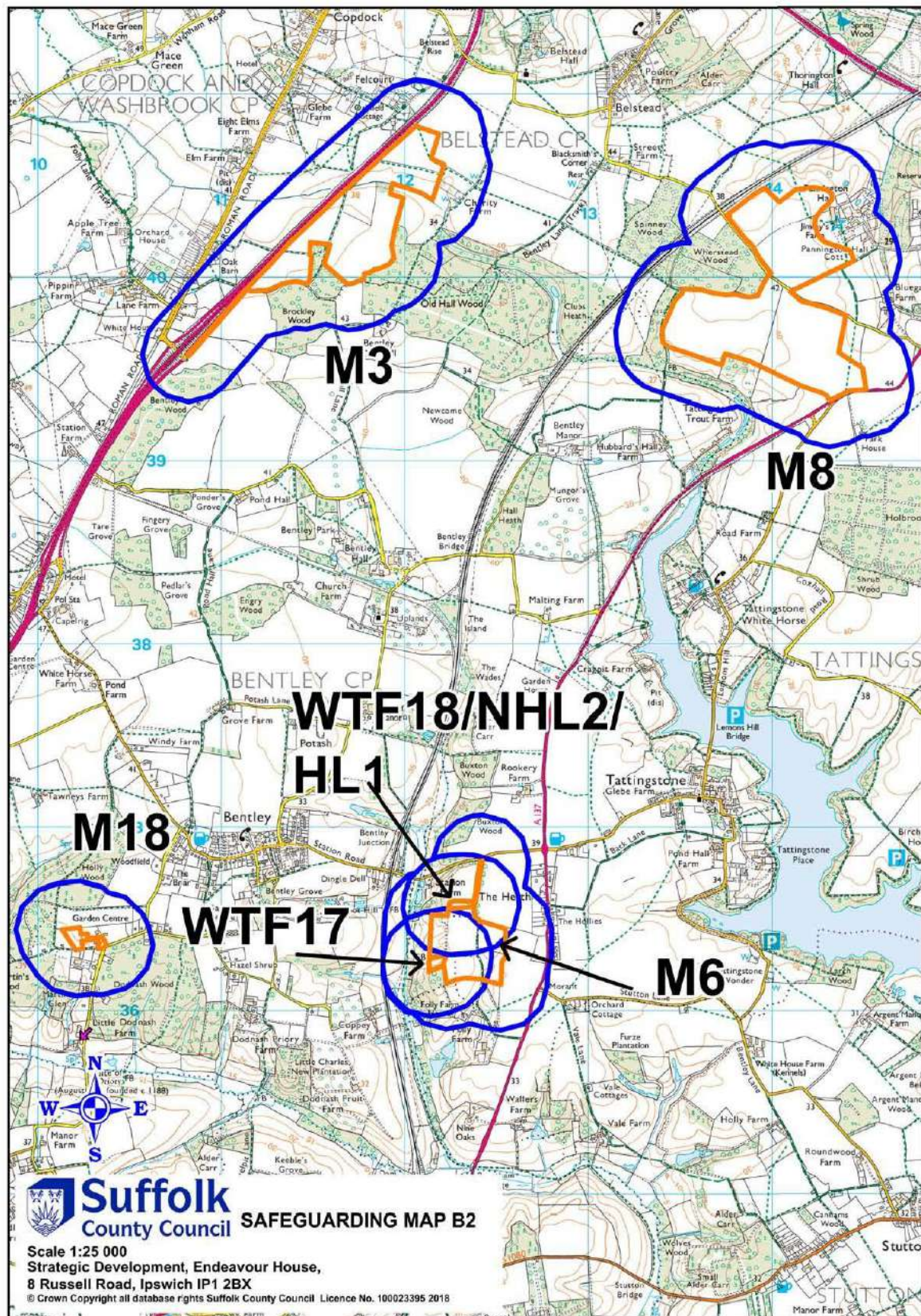


Map B1



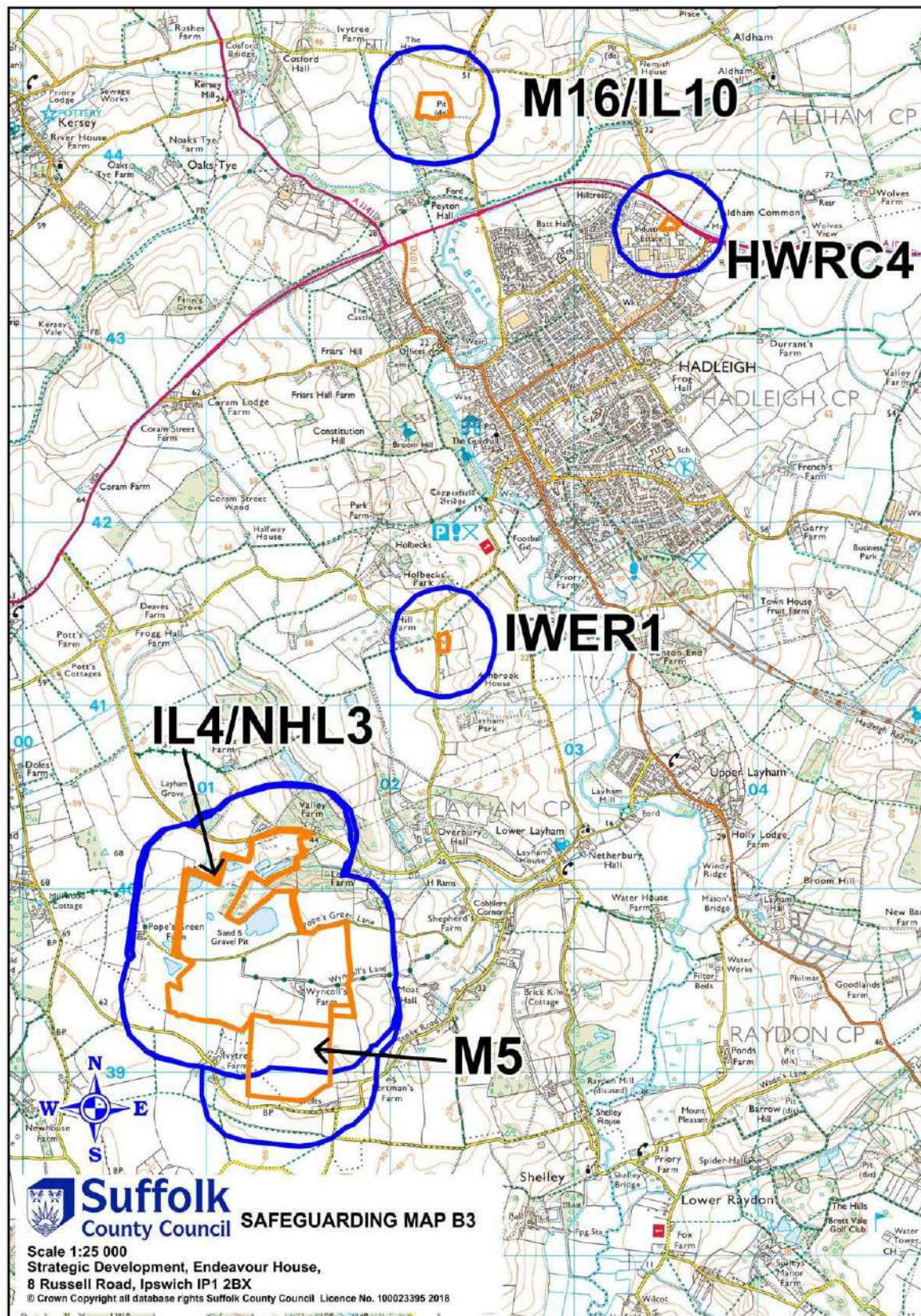


Map B2



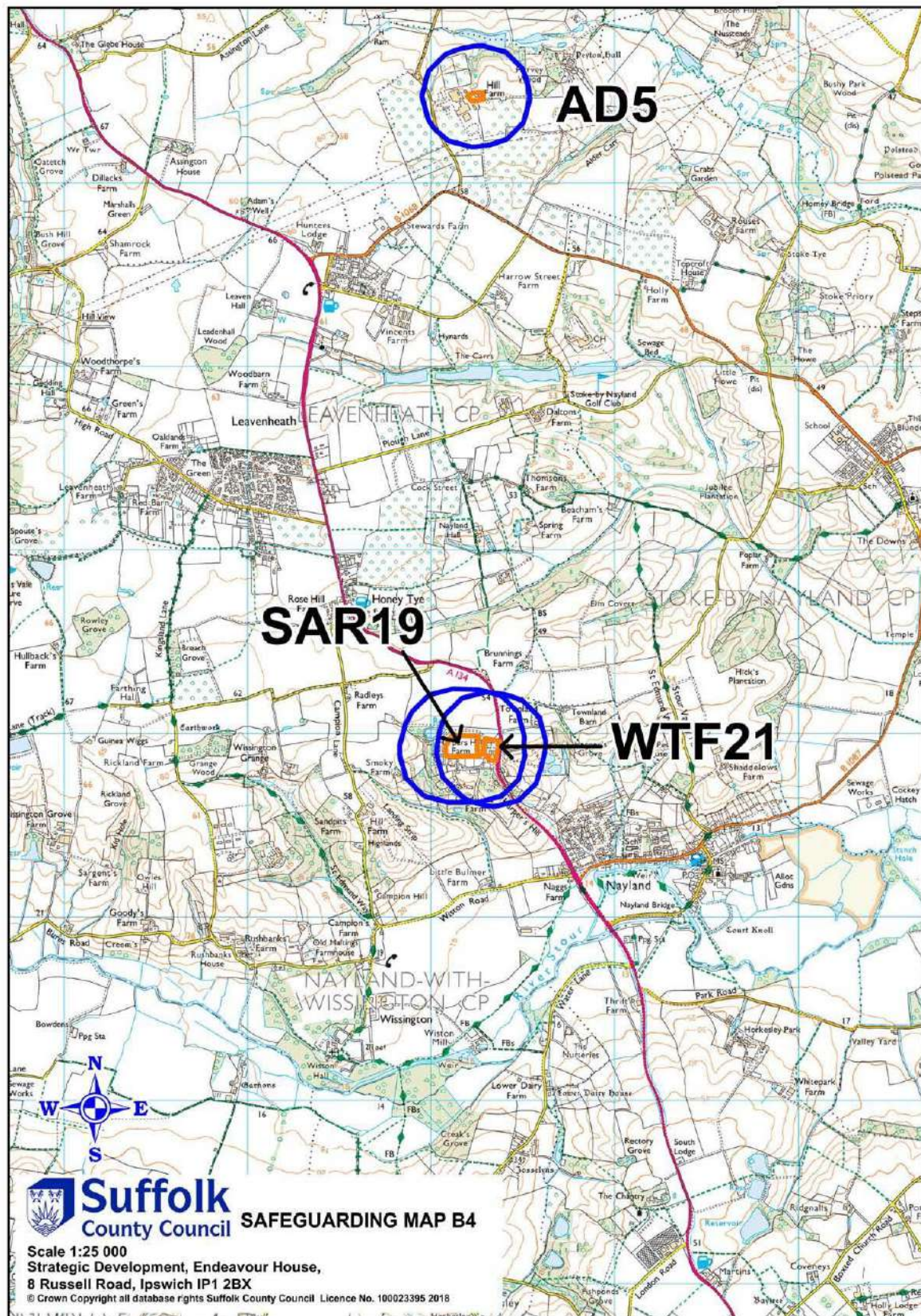


Map B3



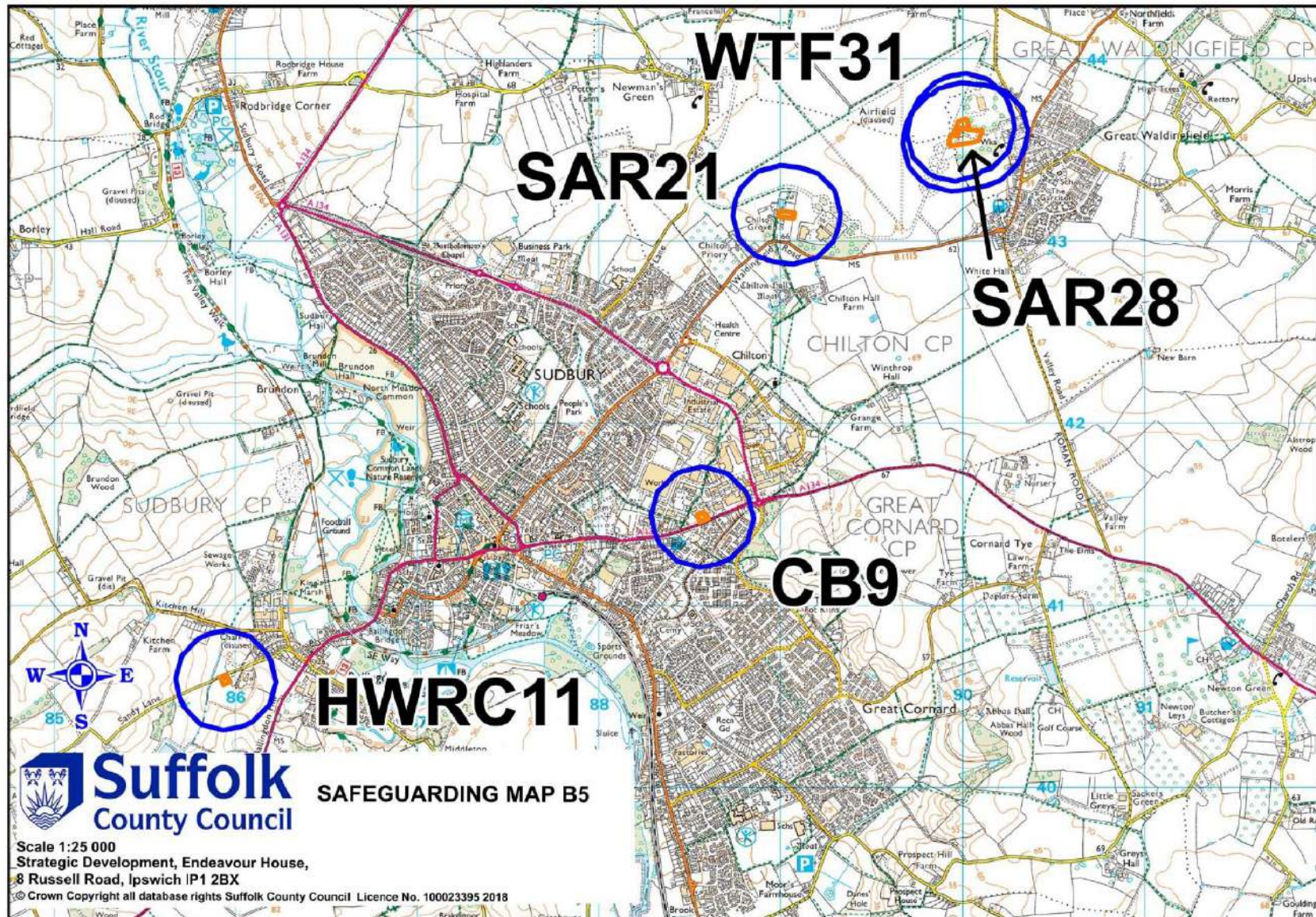


Map B4



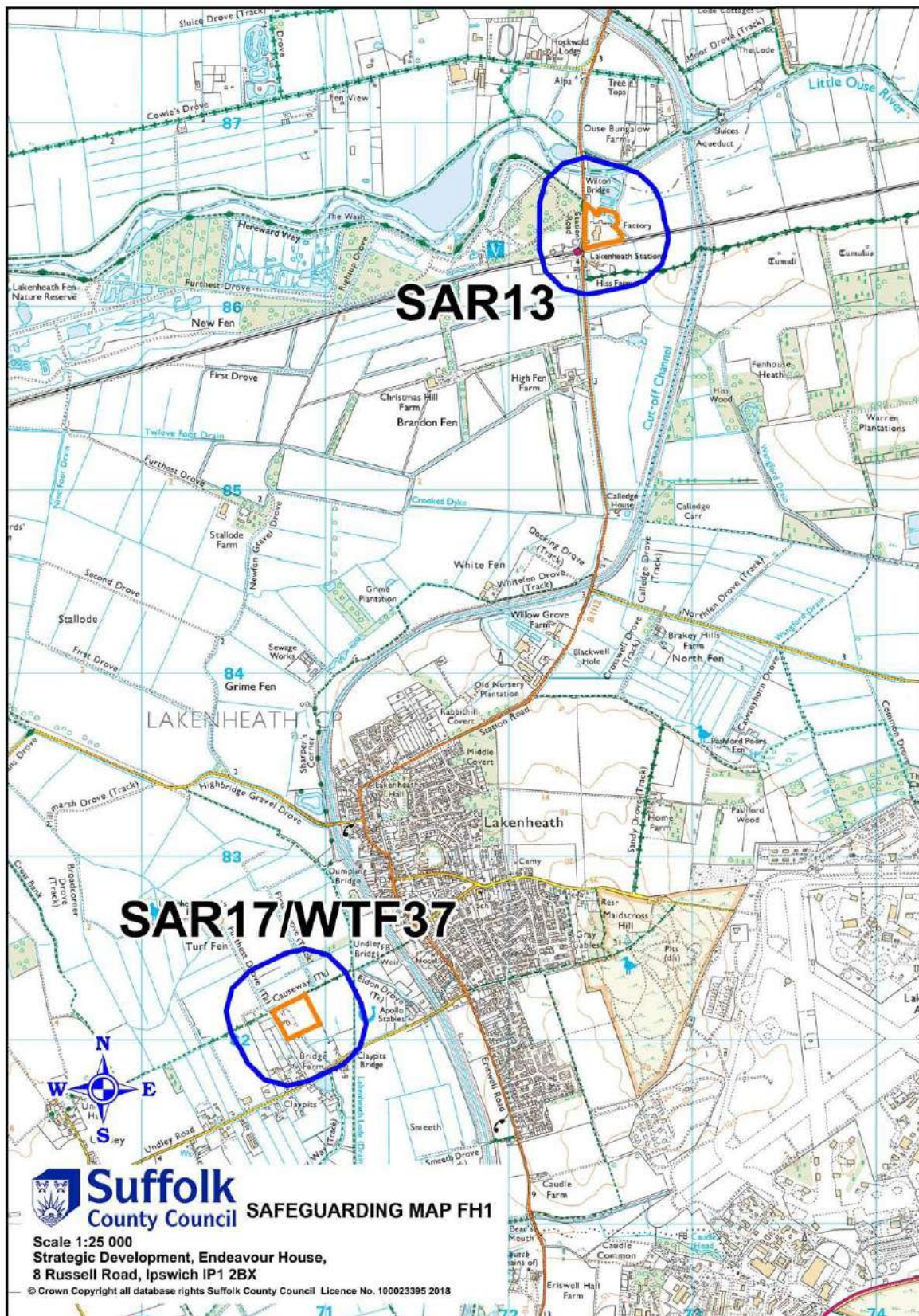


Map B5





# Map FH1

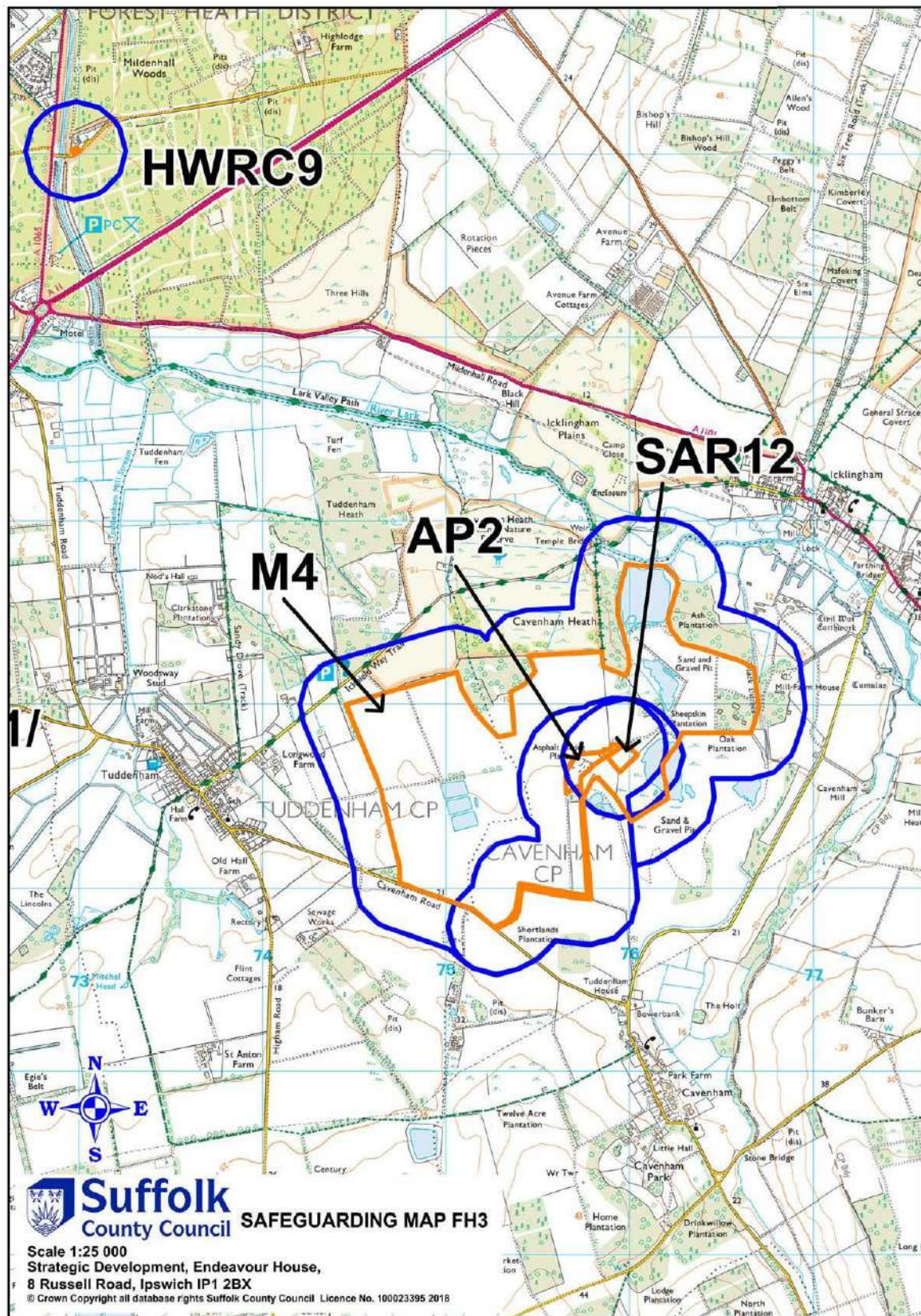






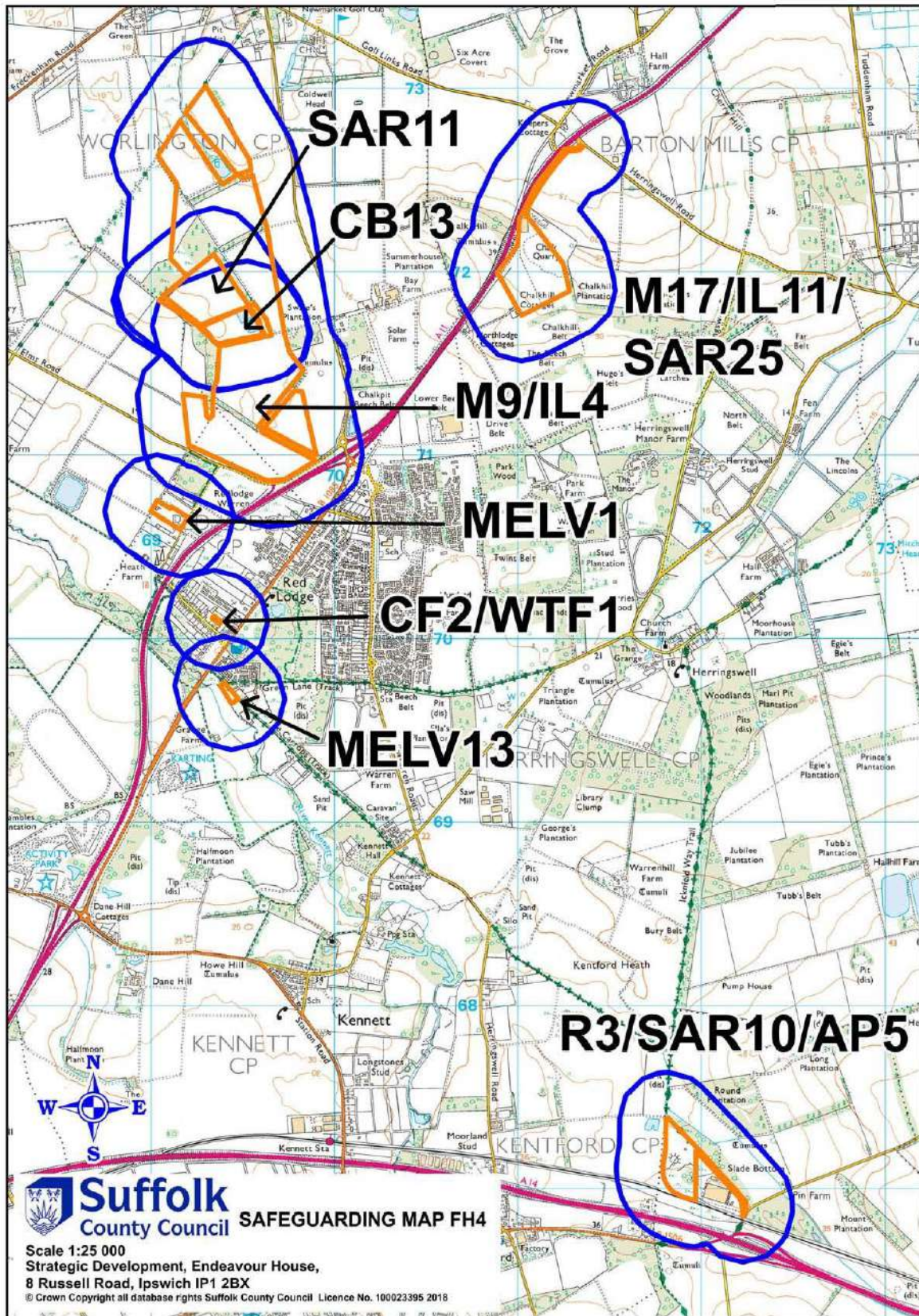


Map FH3



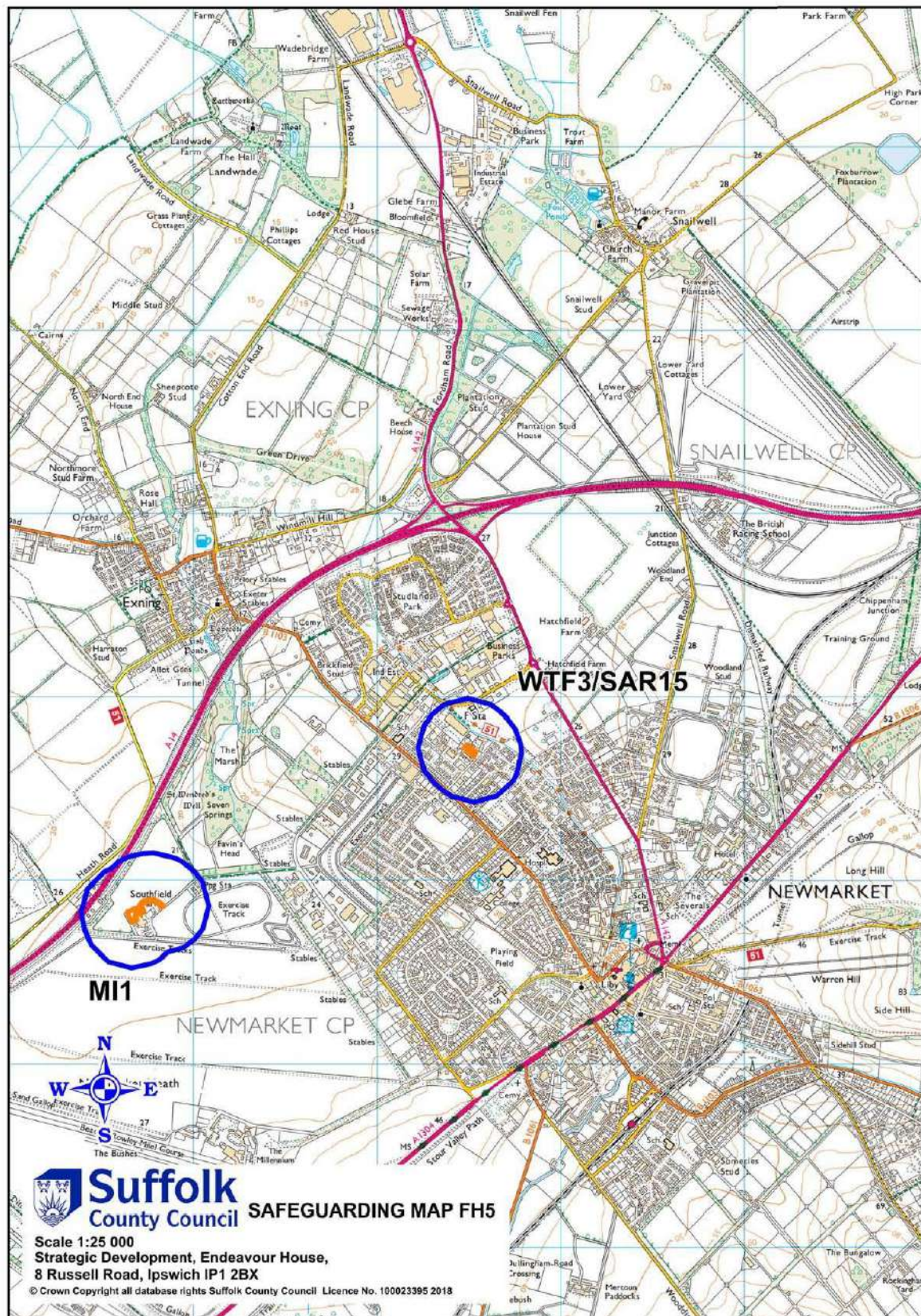


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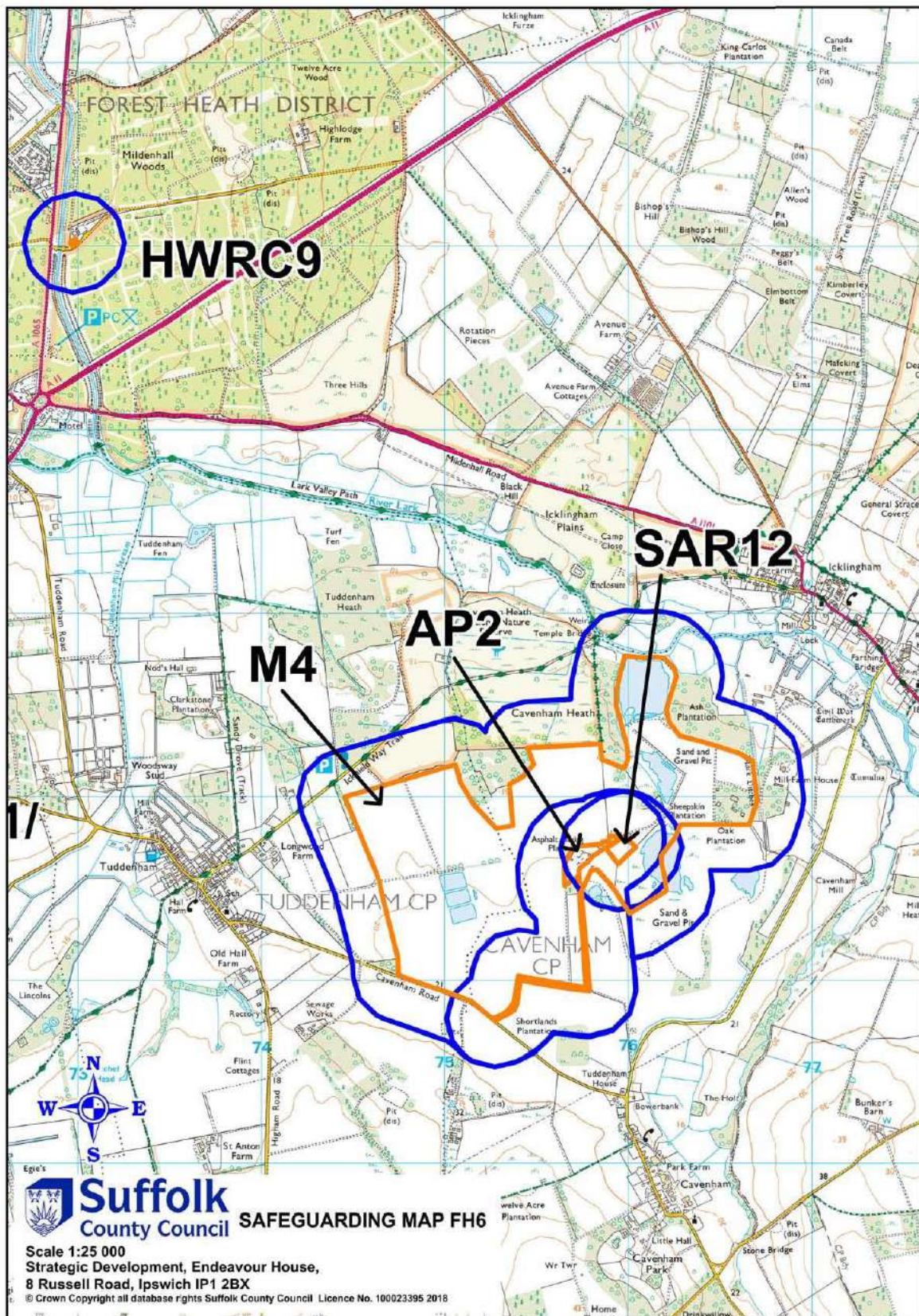


## Map FH5



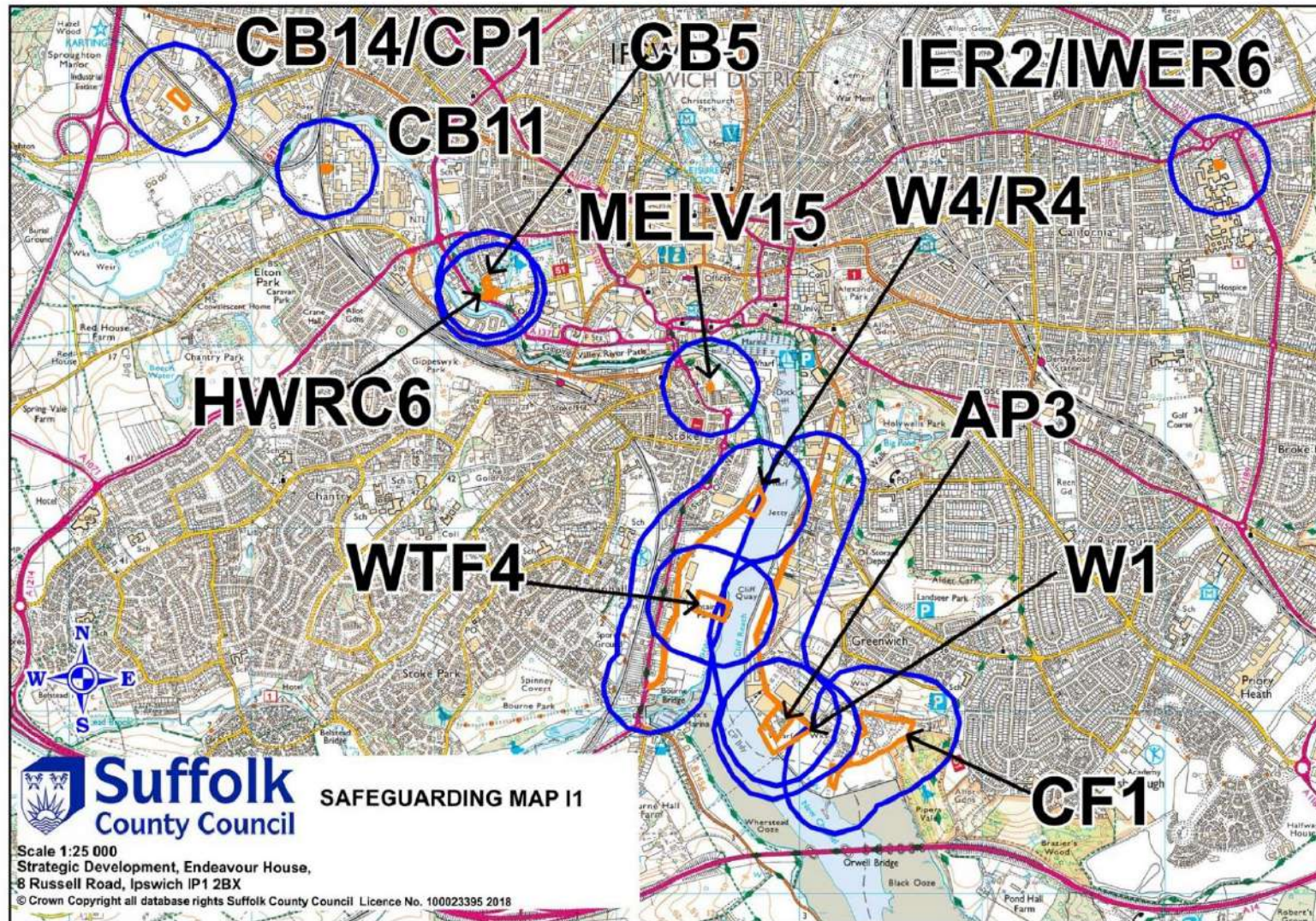


Map FH6



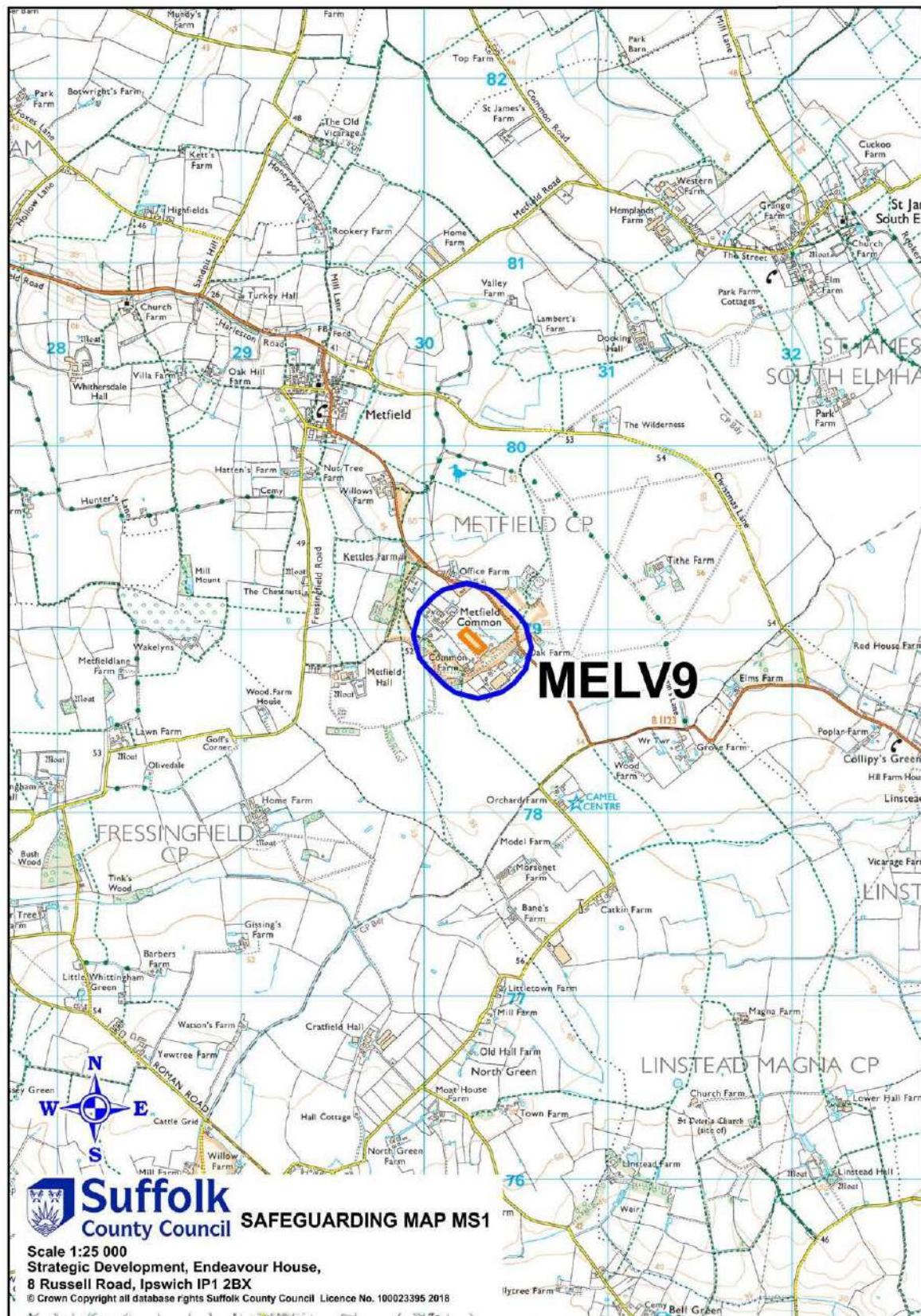


Map I1



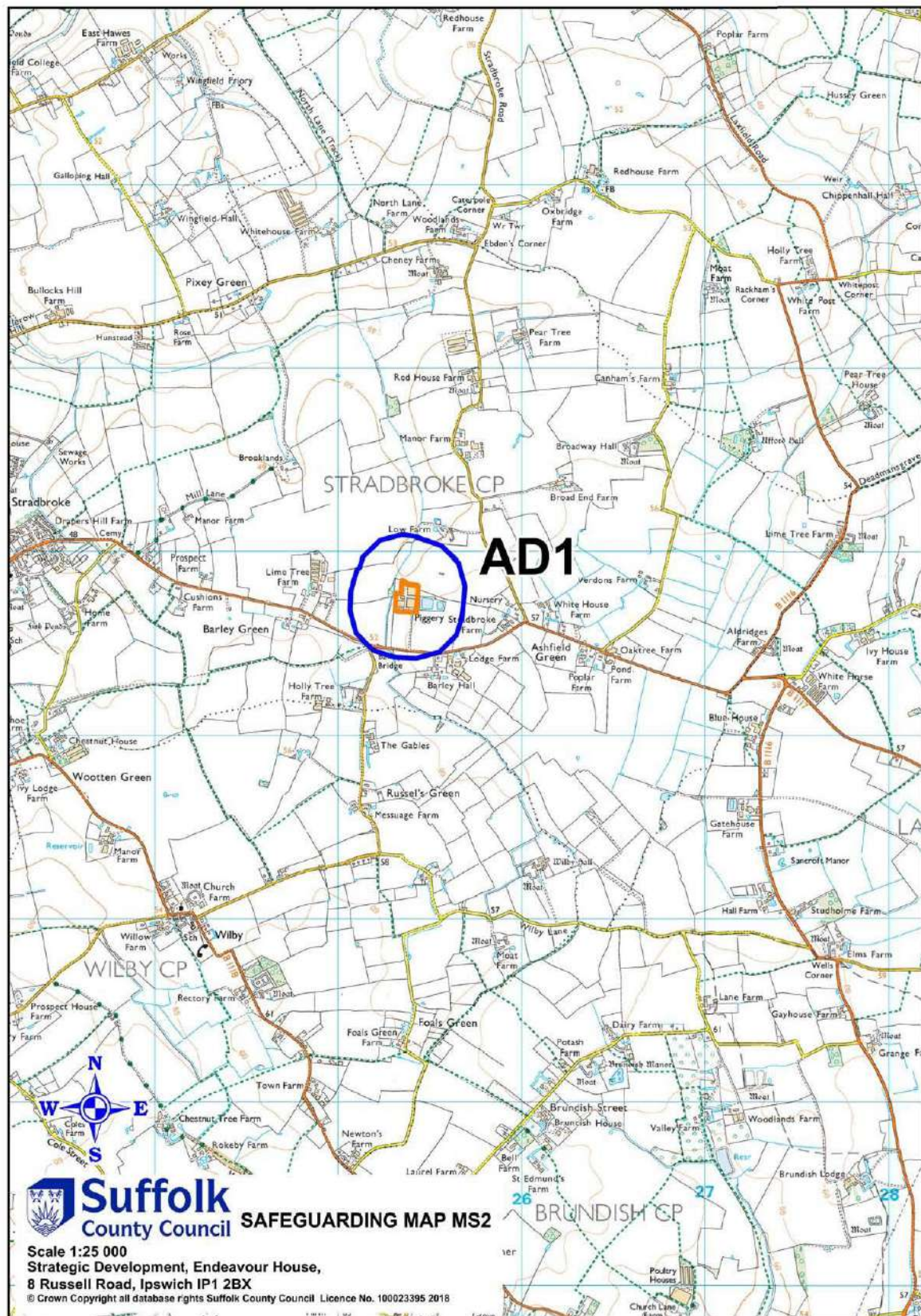


## Map MS1



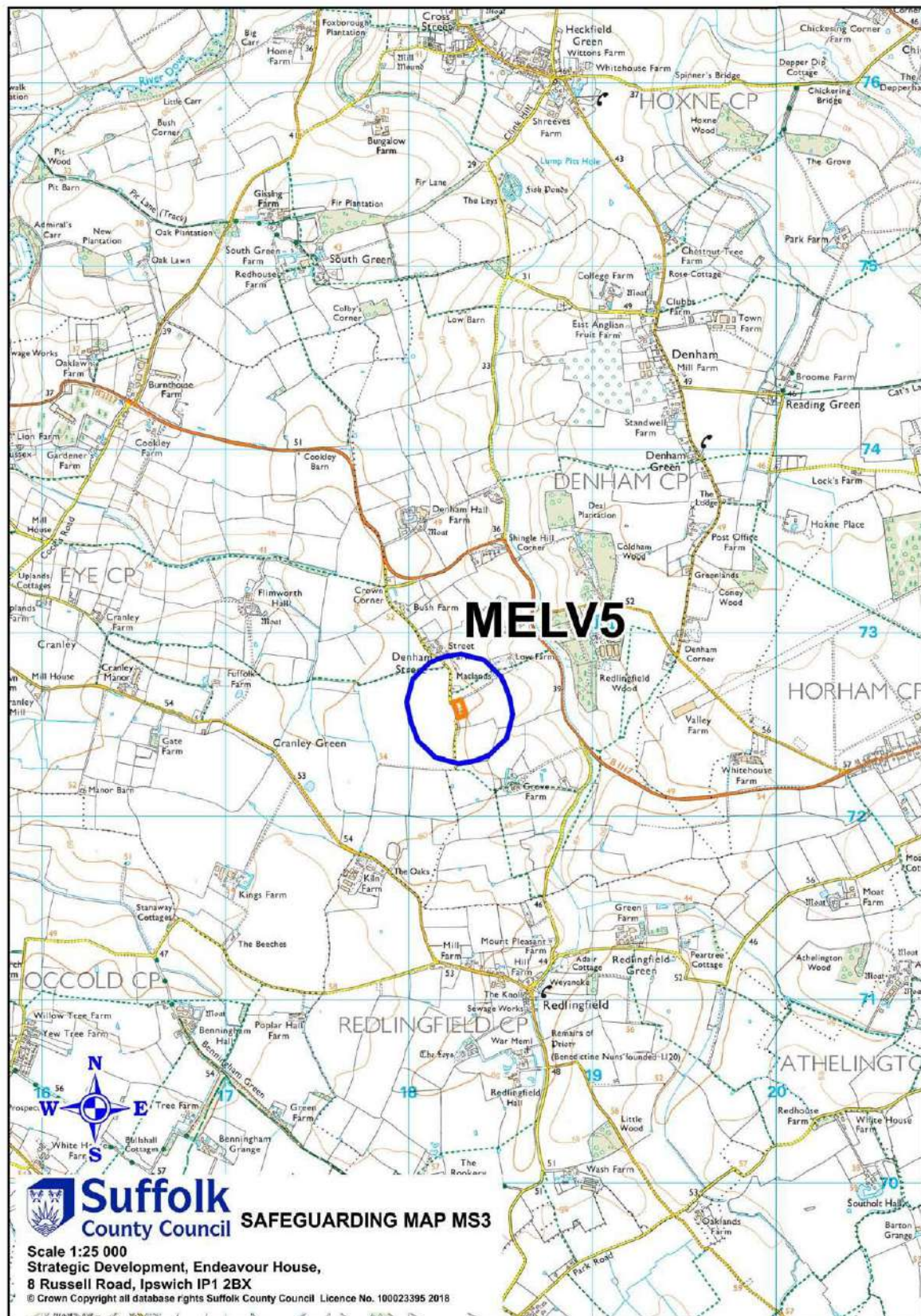


## Map MS2



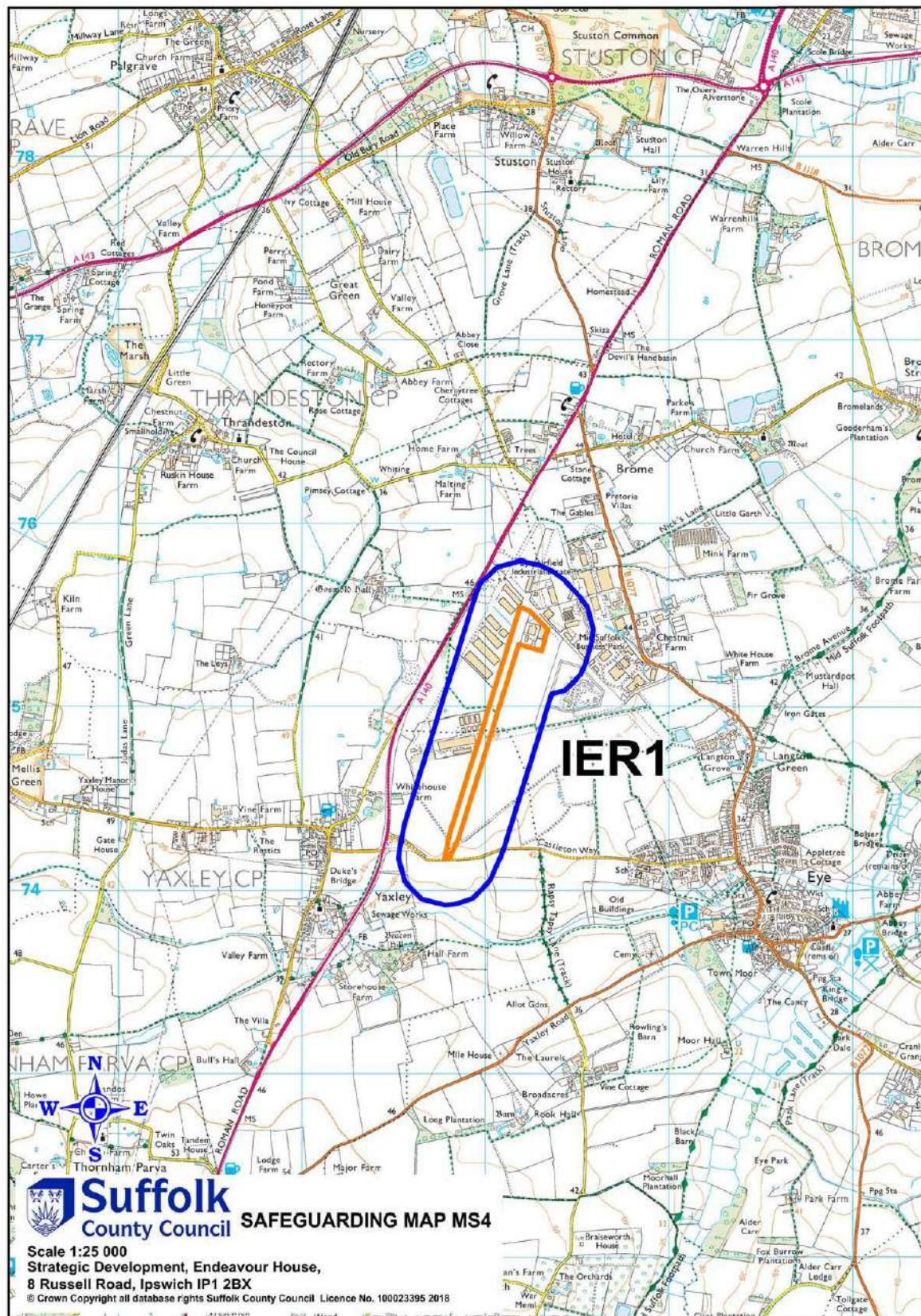


## Map MS3



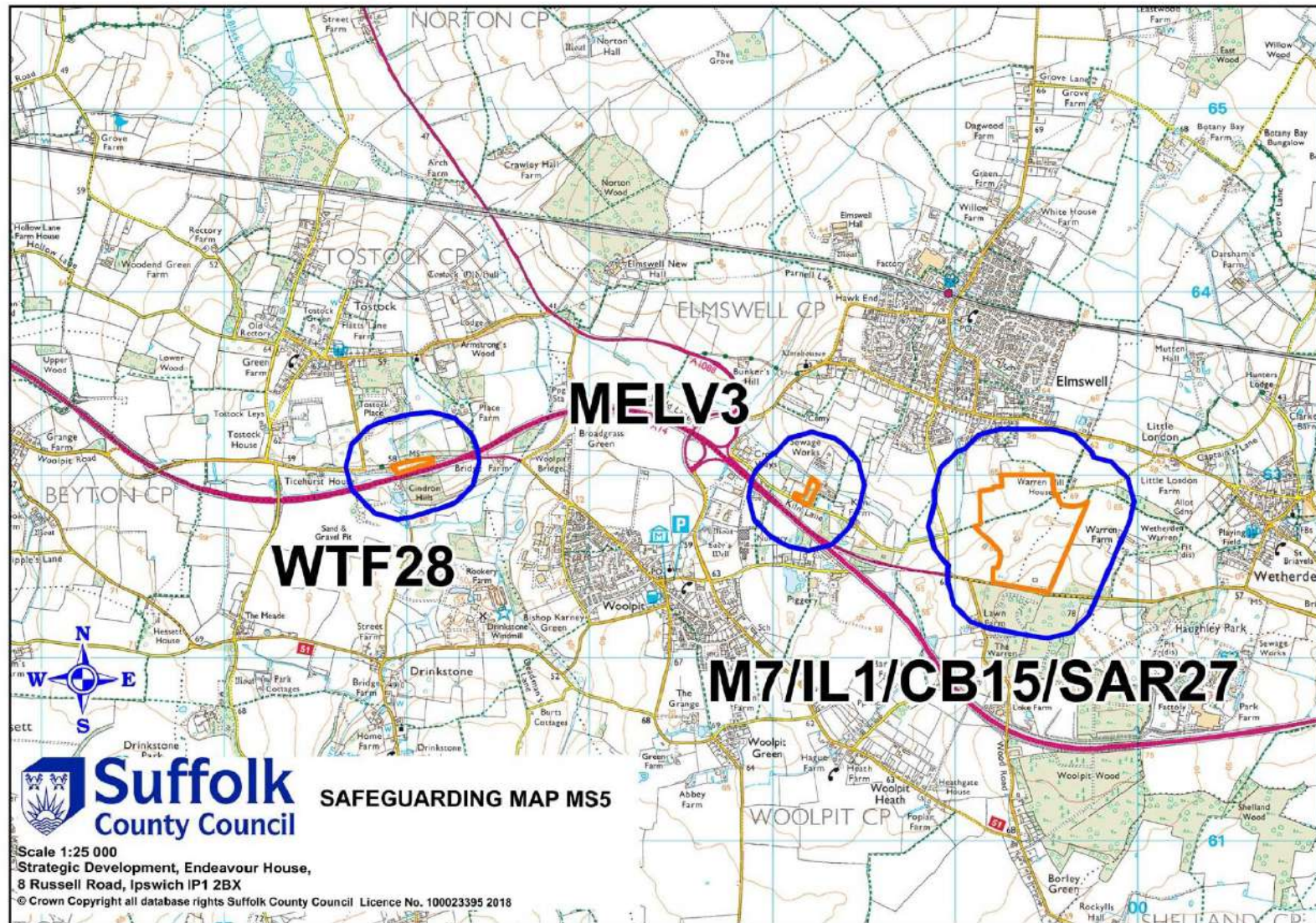


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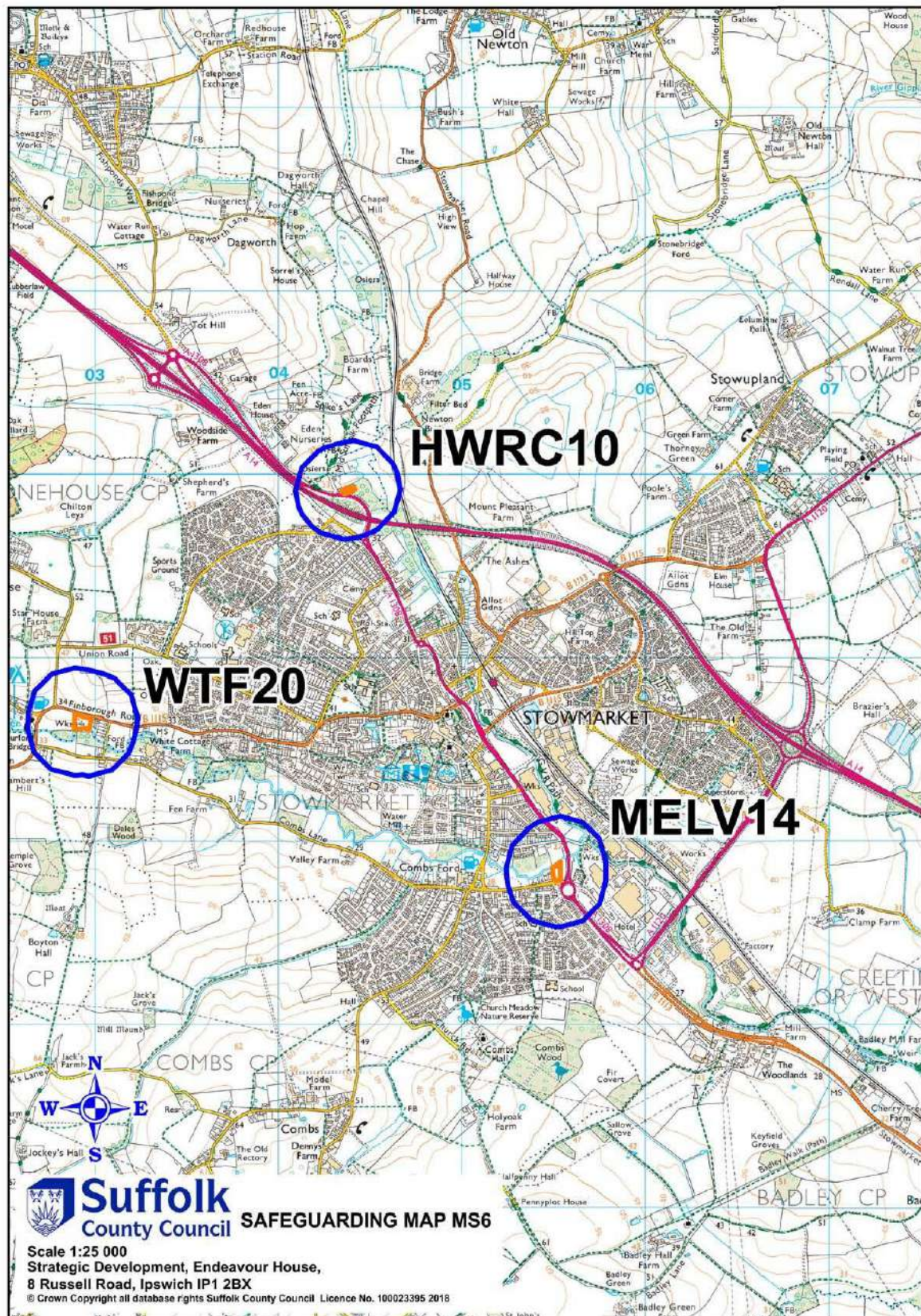


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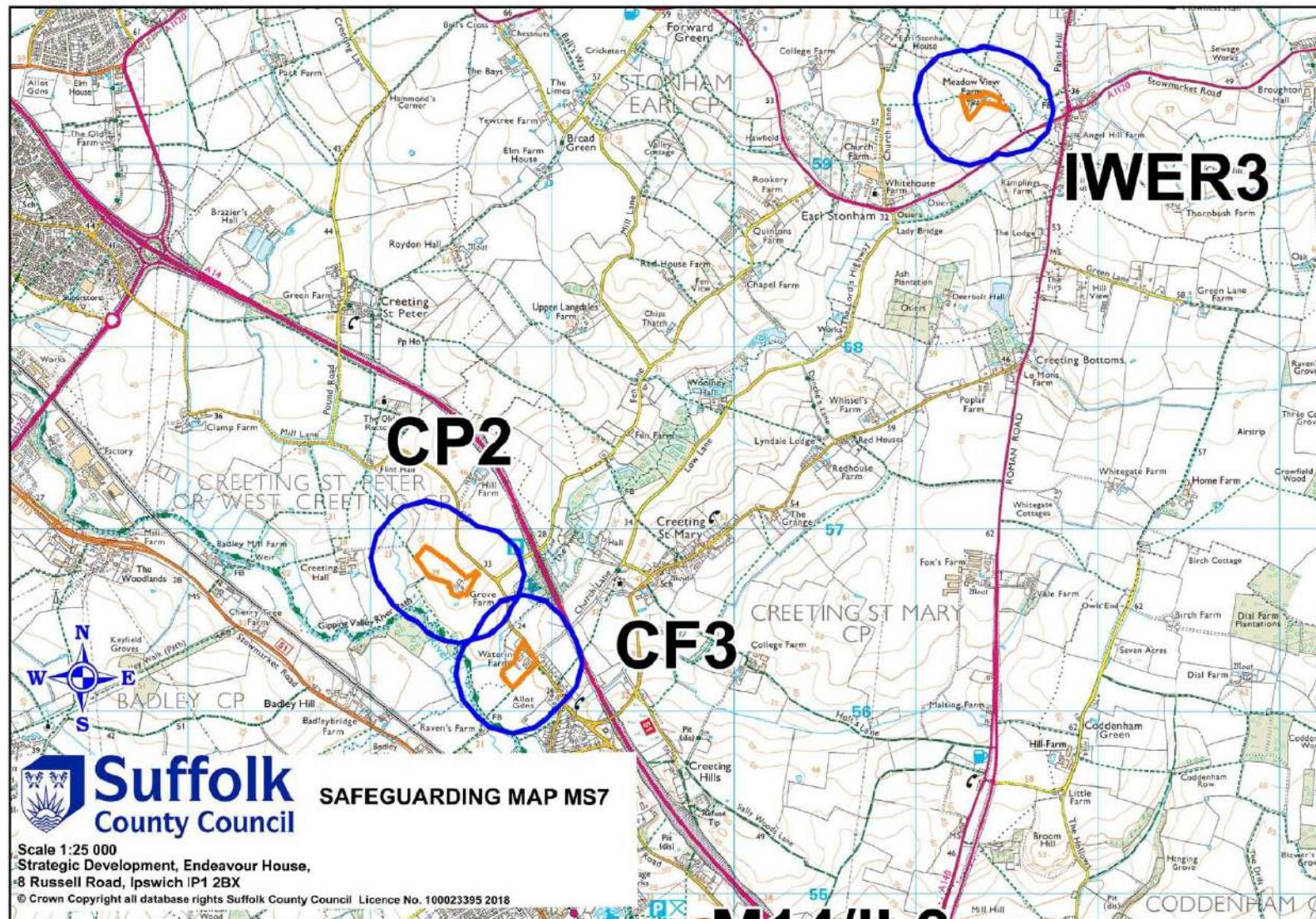


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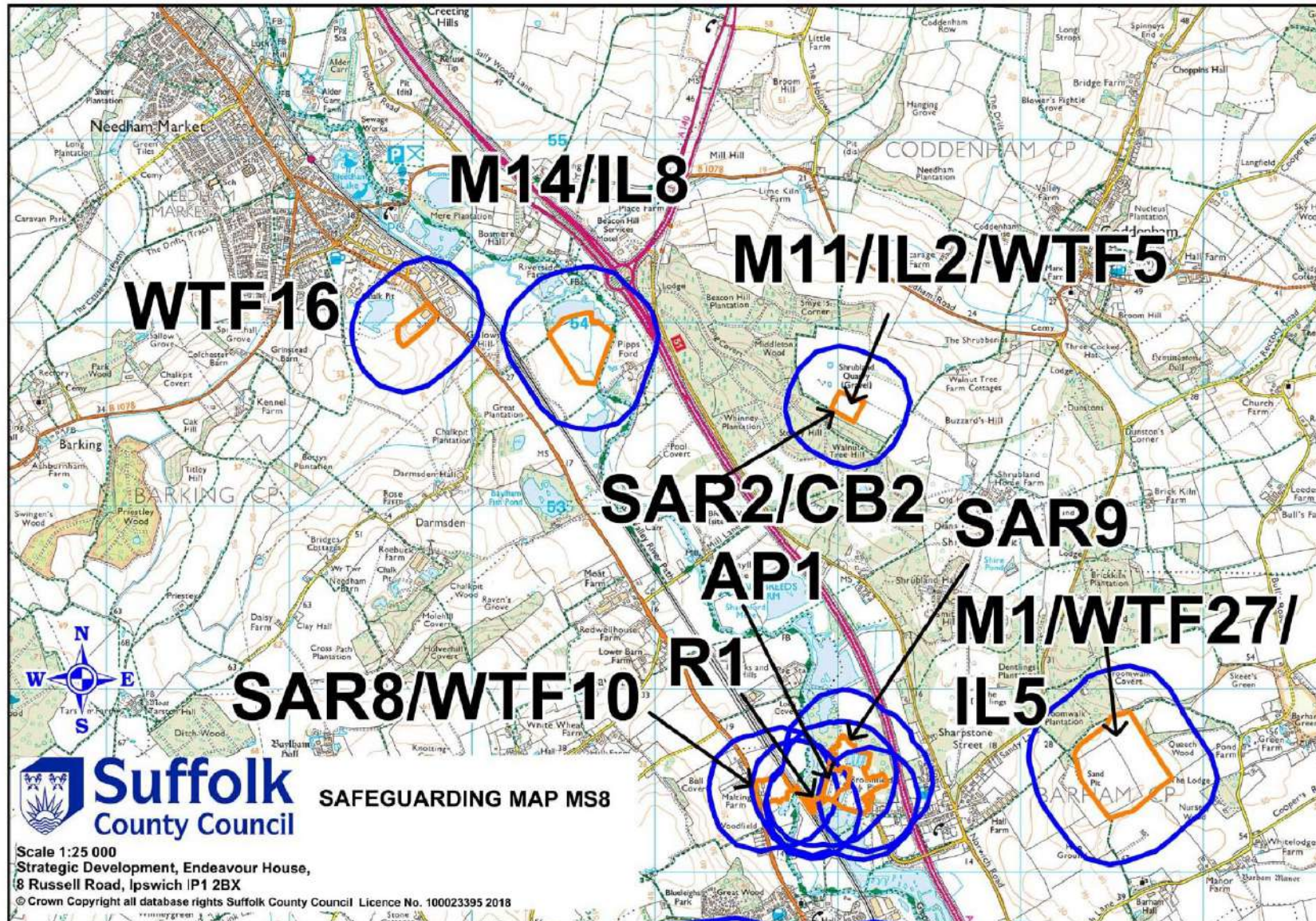


Map MS7



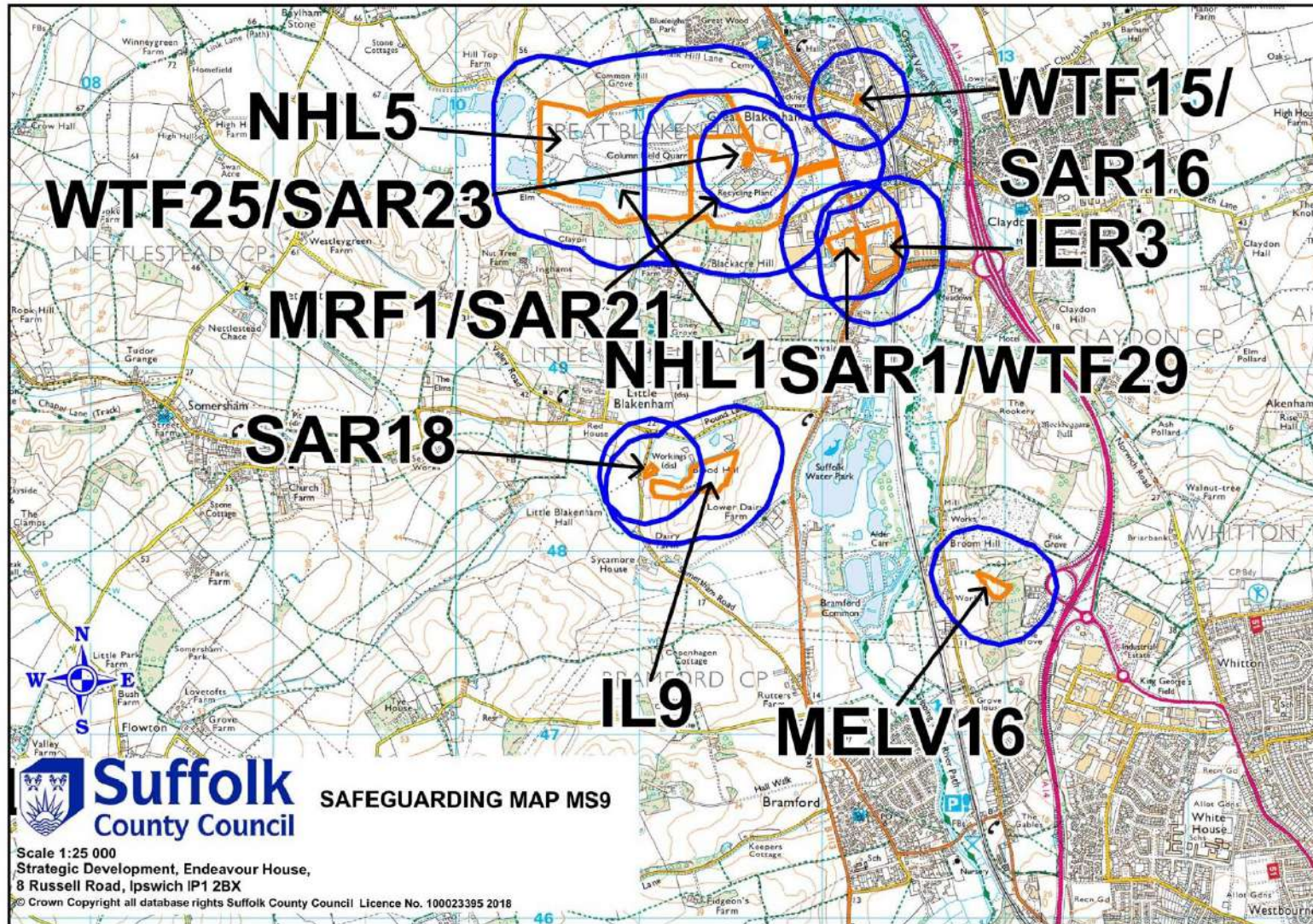


Map MS8



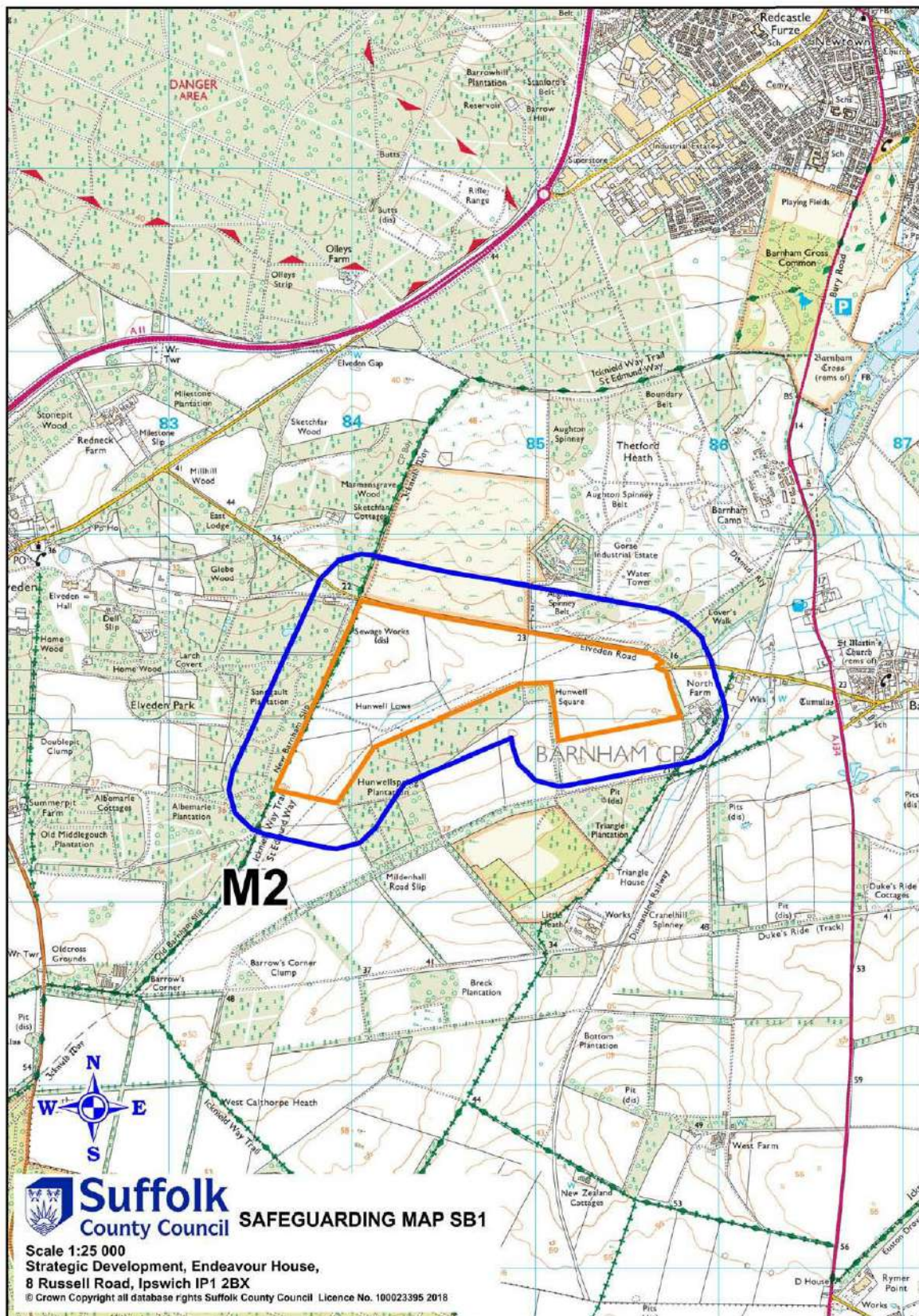


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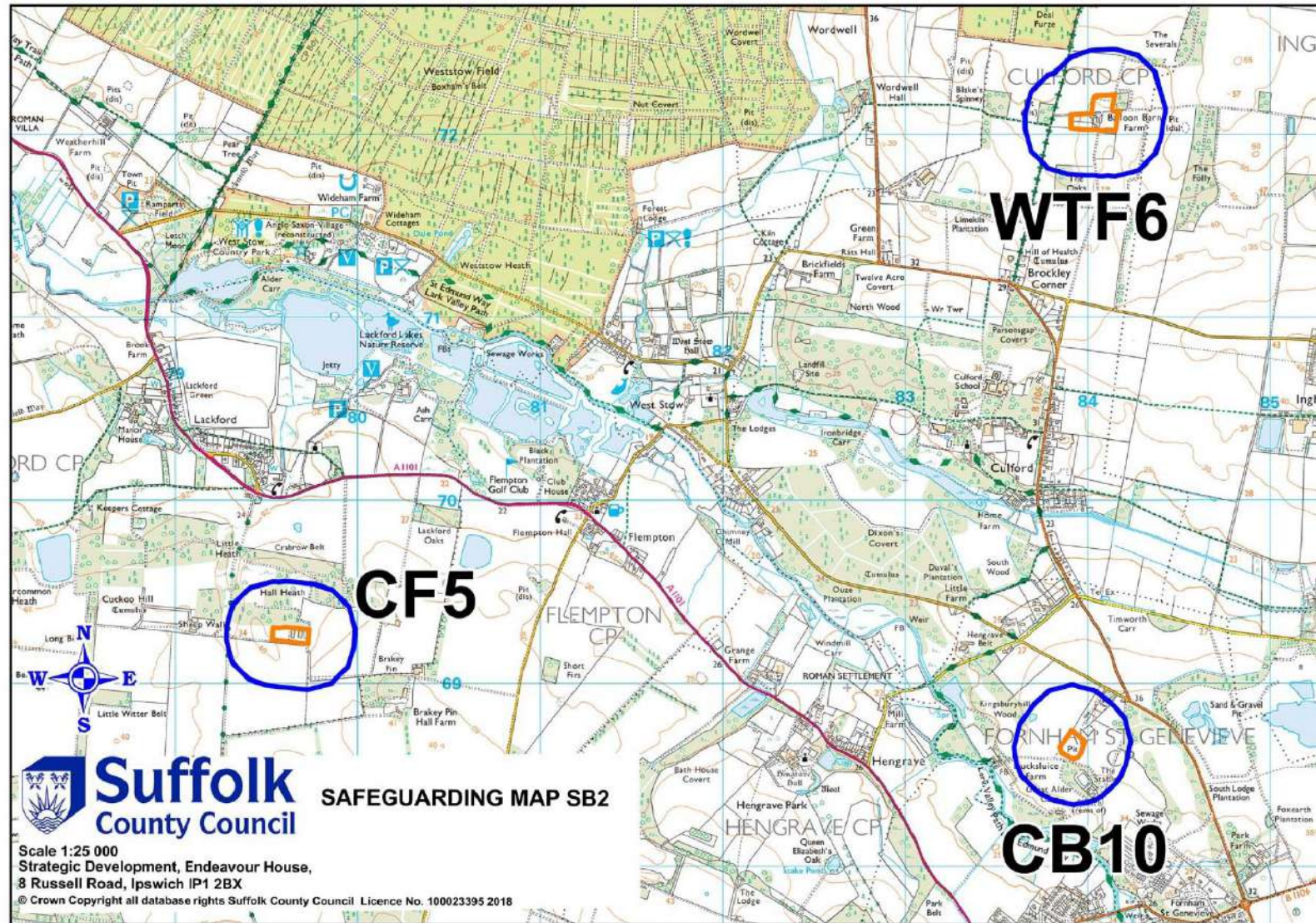


## Map SB1



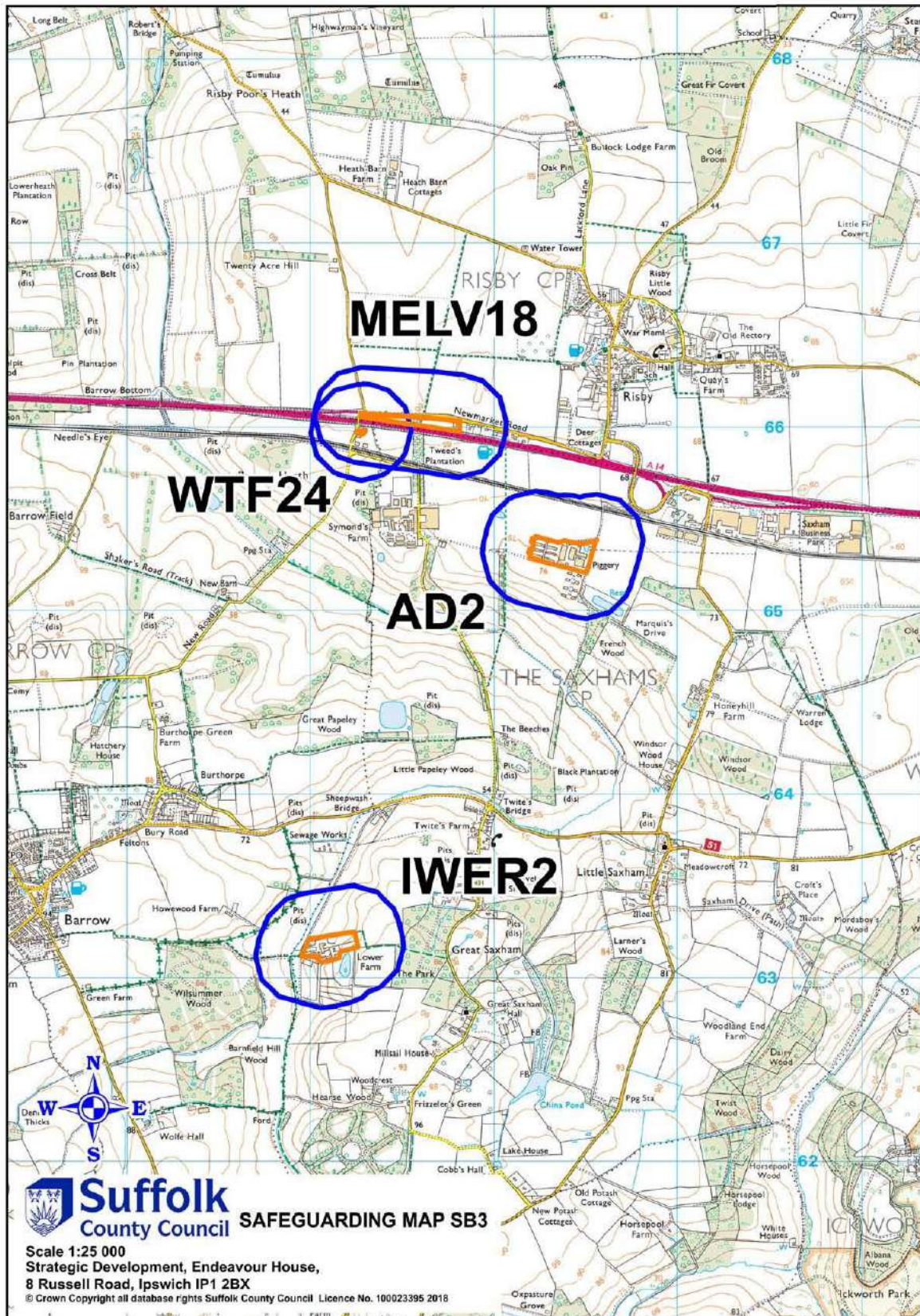


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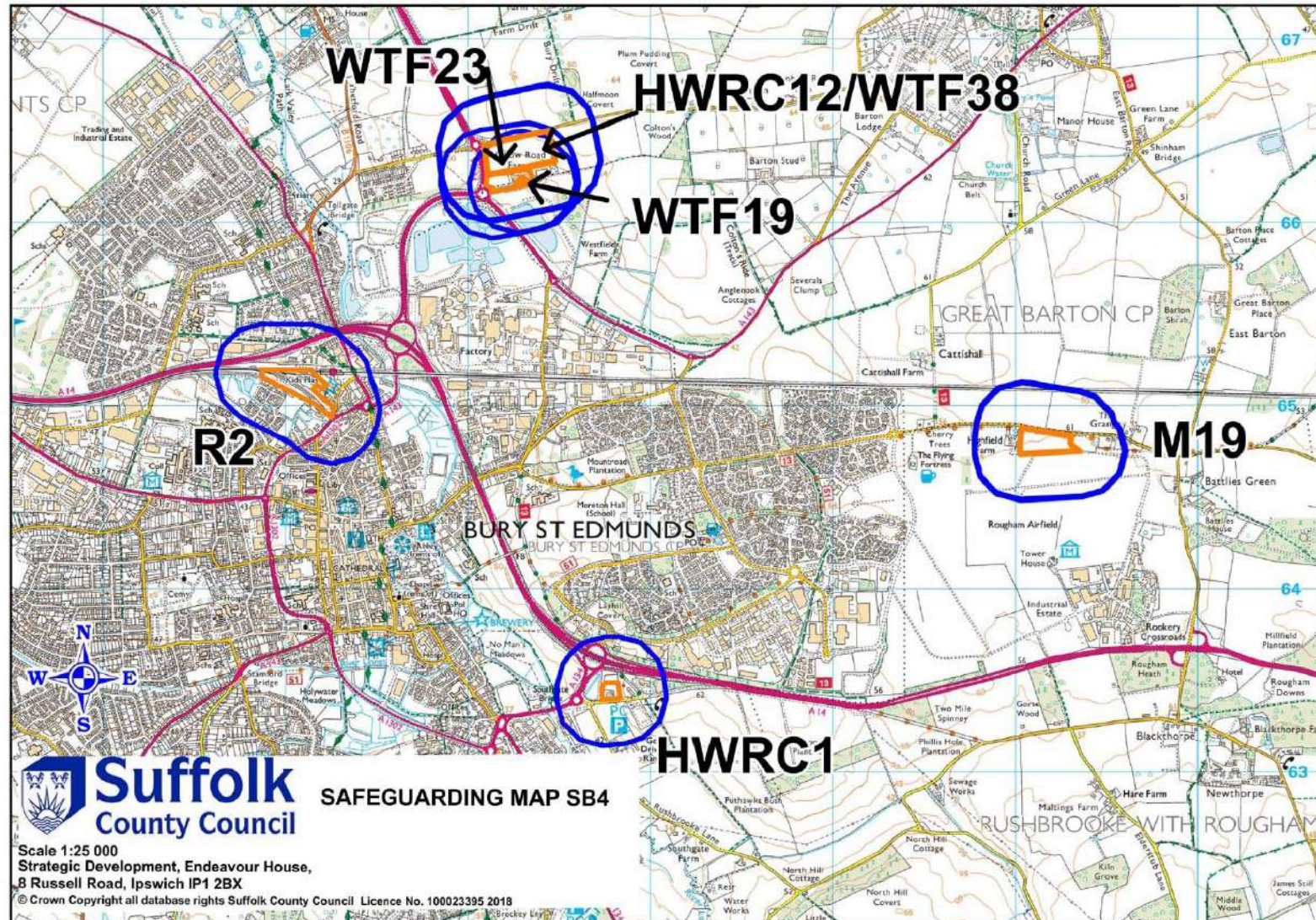


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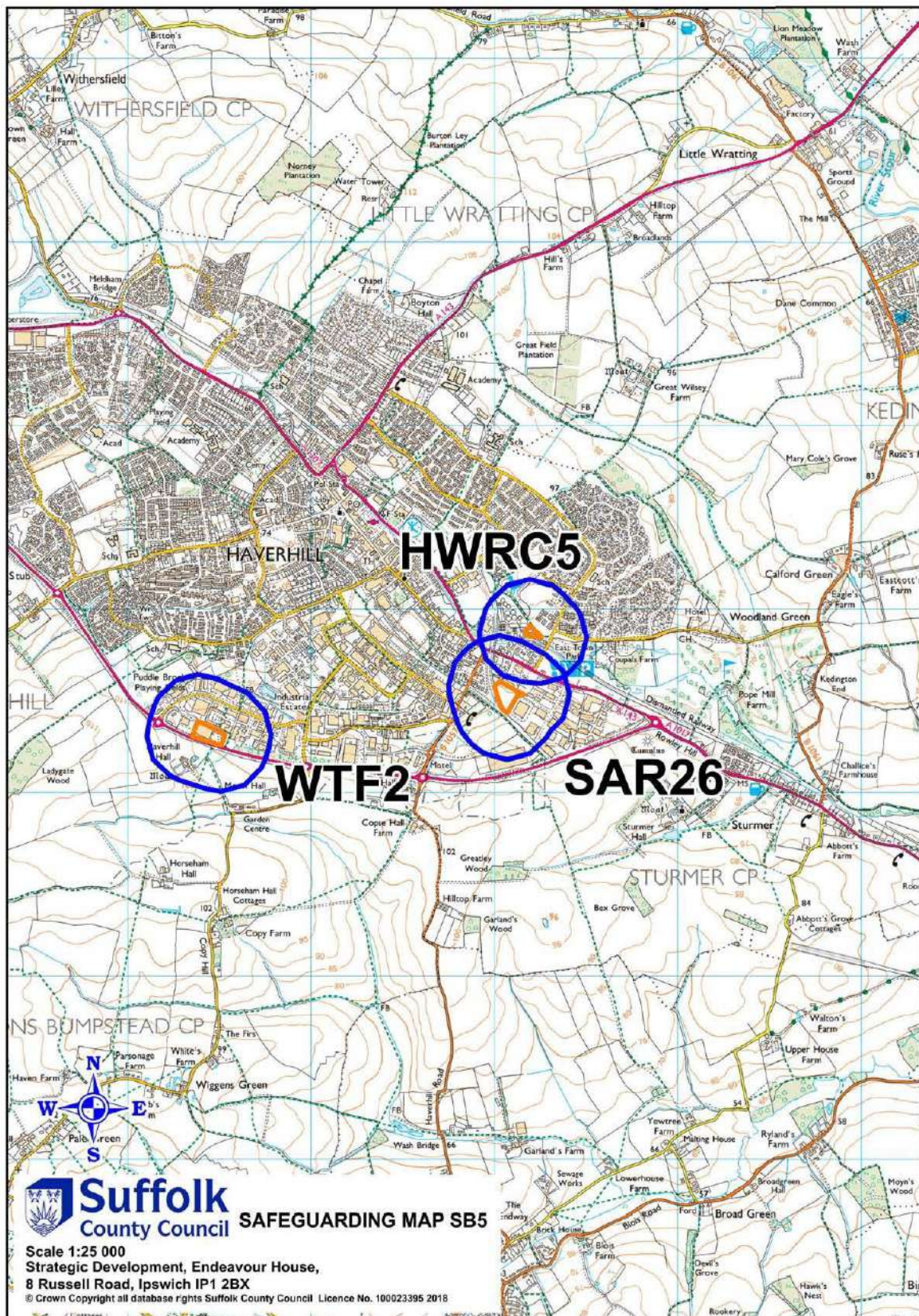


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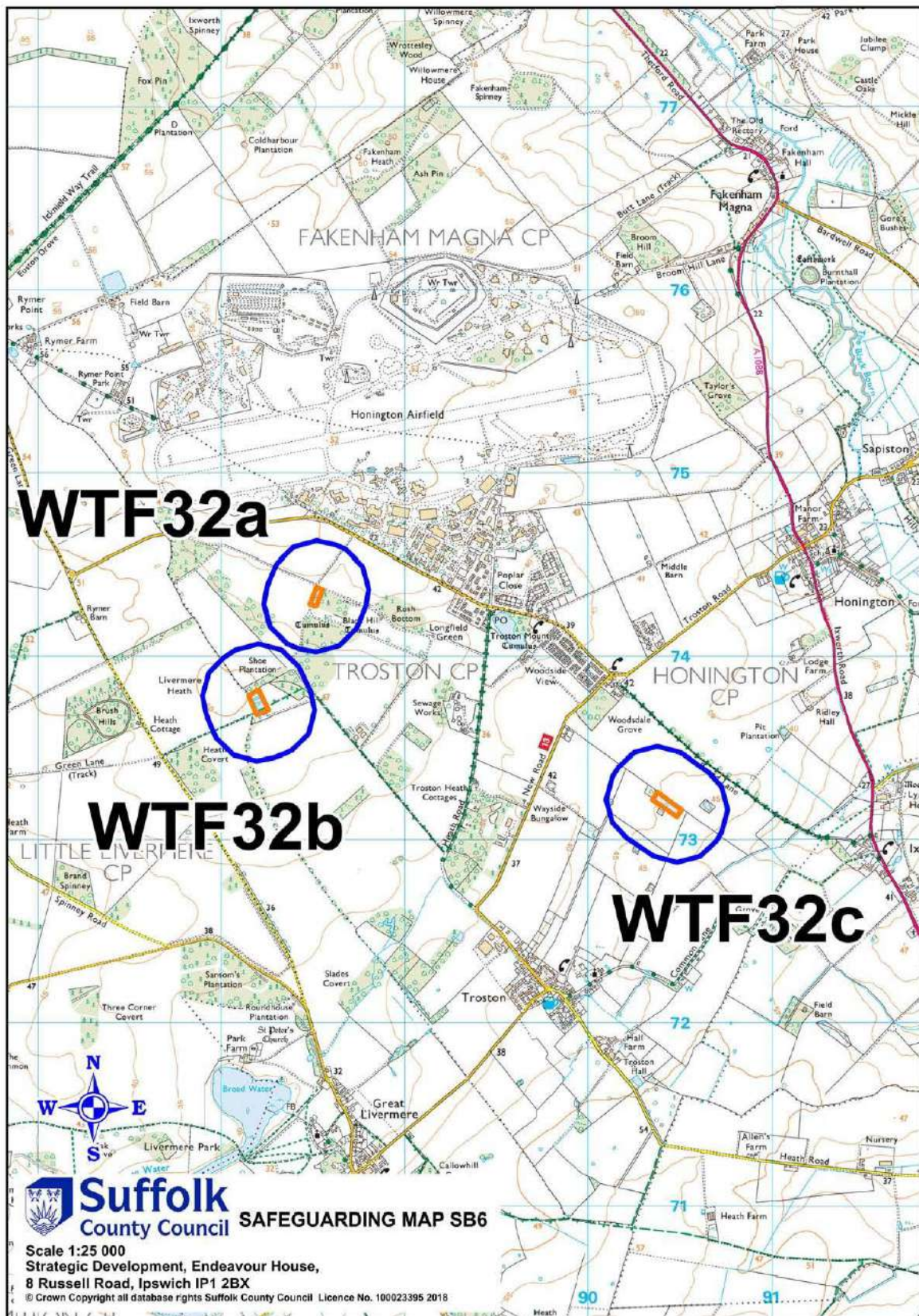


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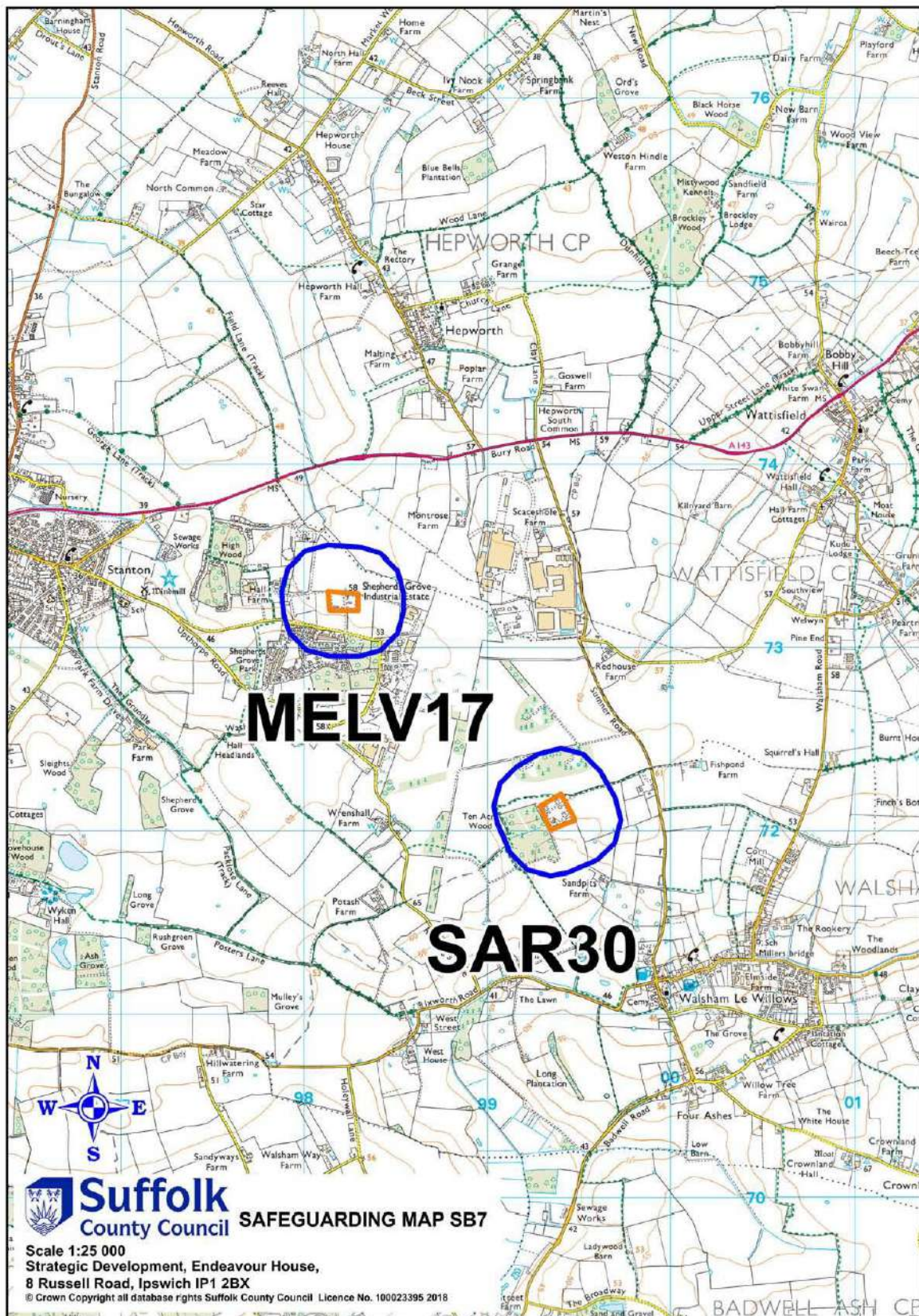


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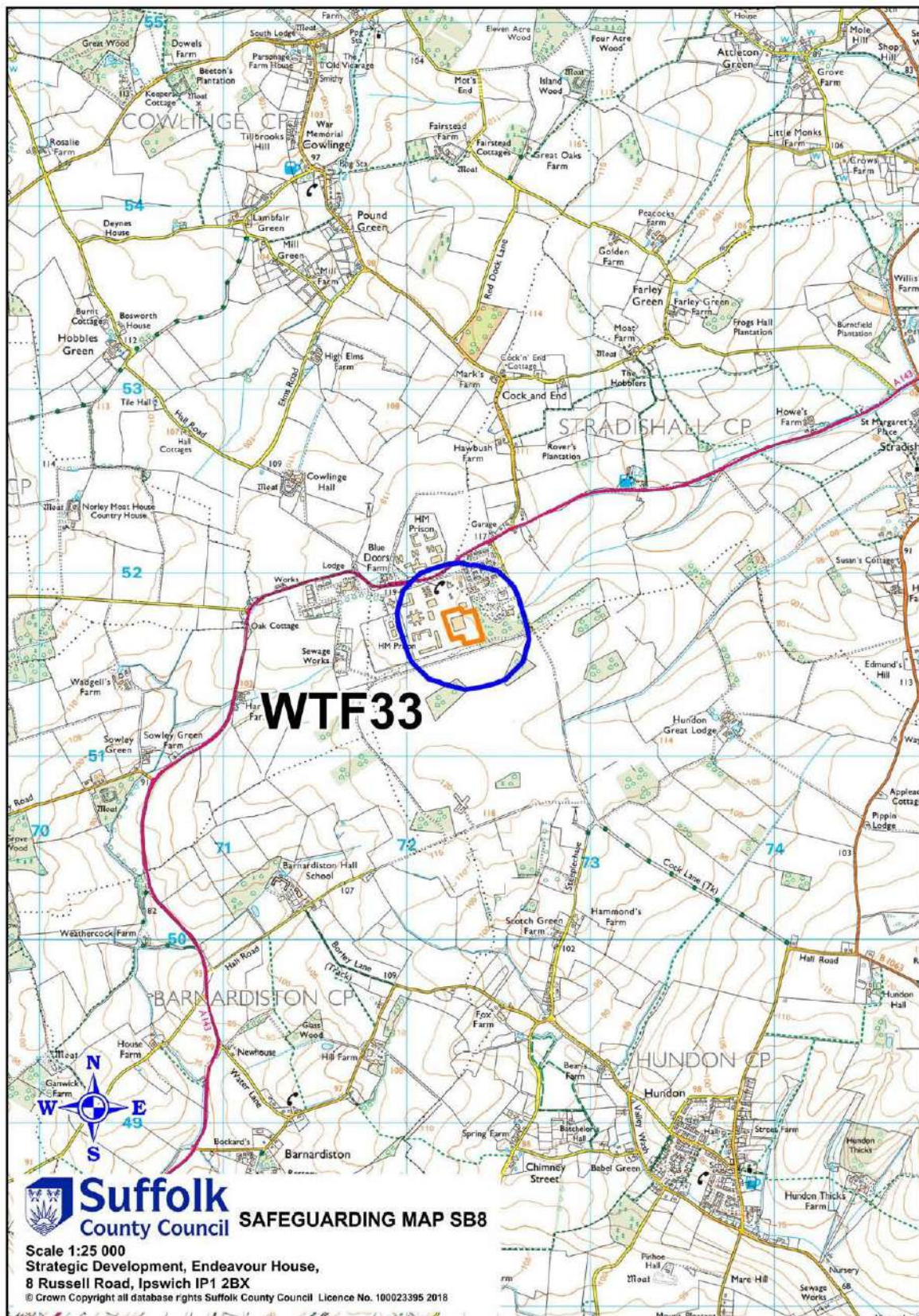


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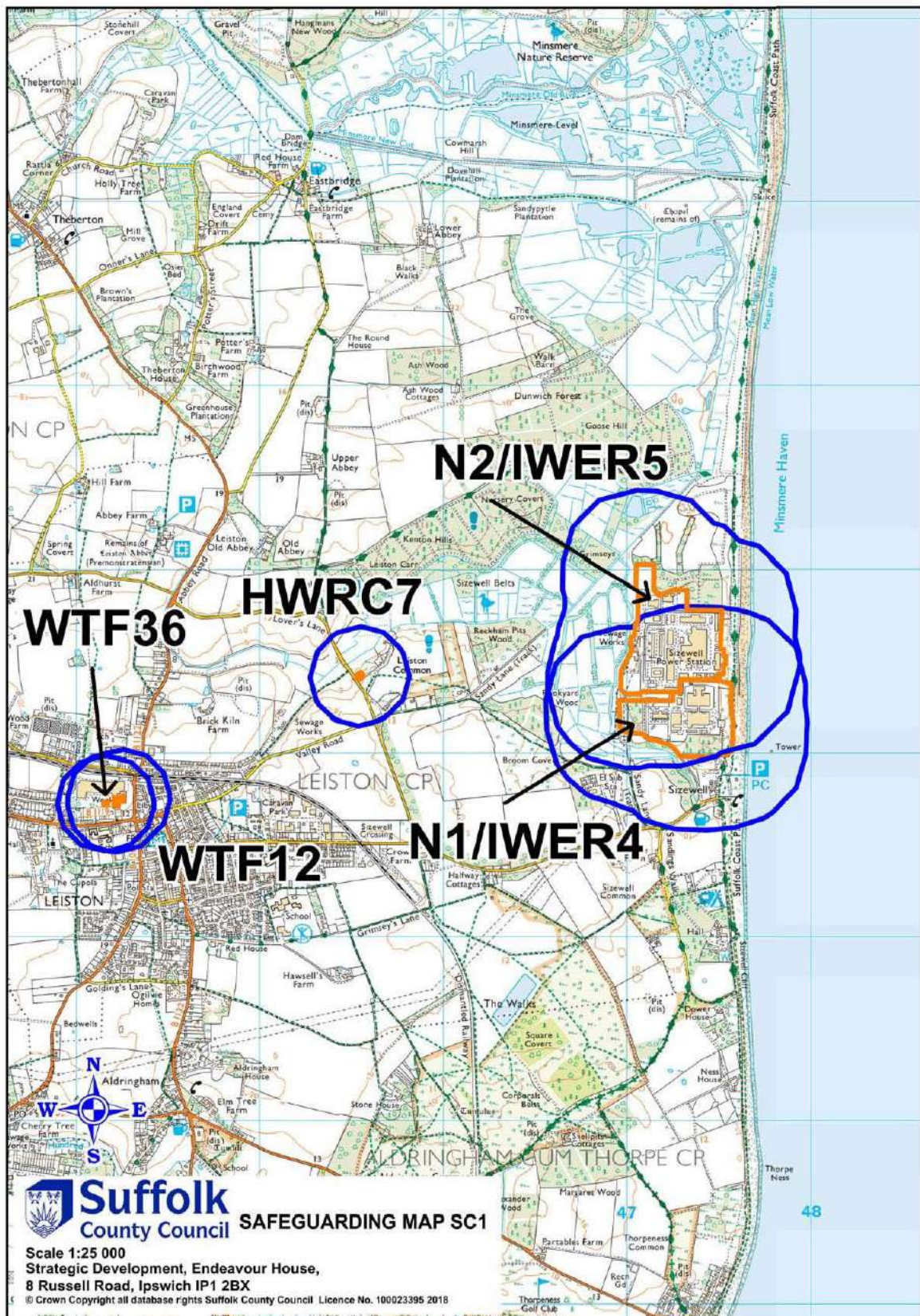


## Map SB8





Map SC1



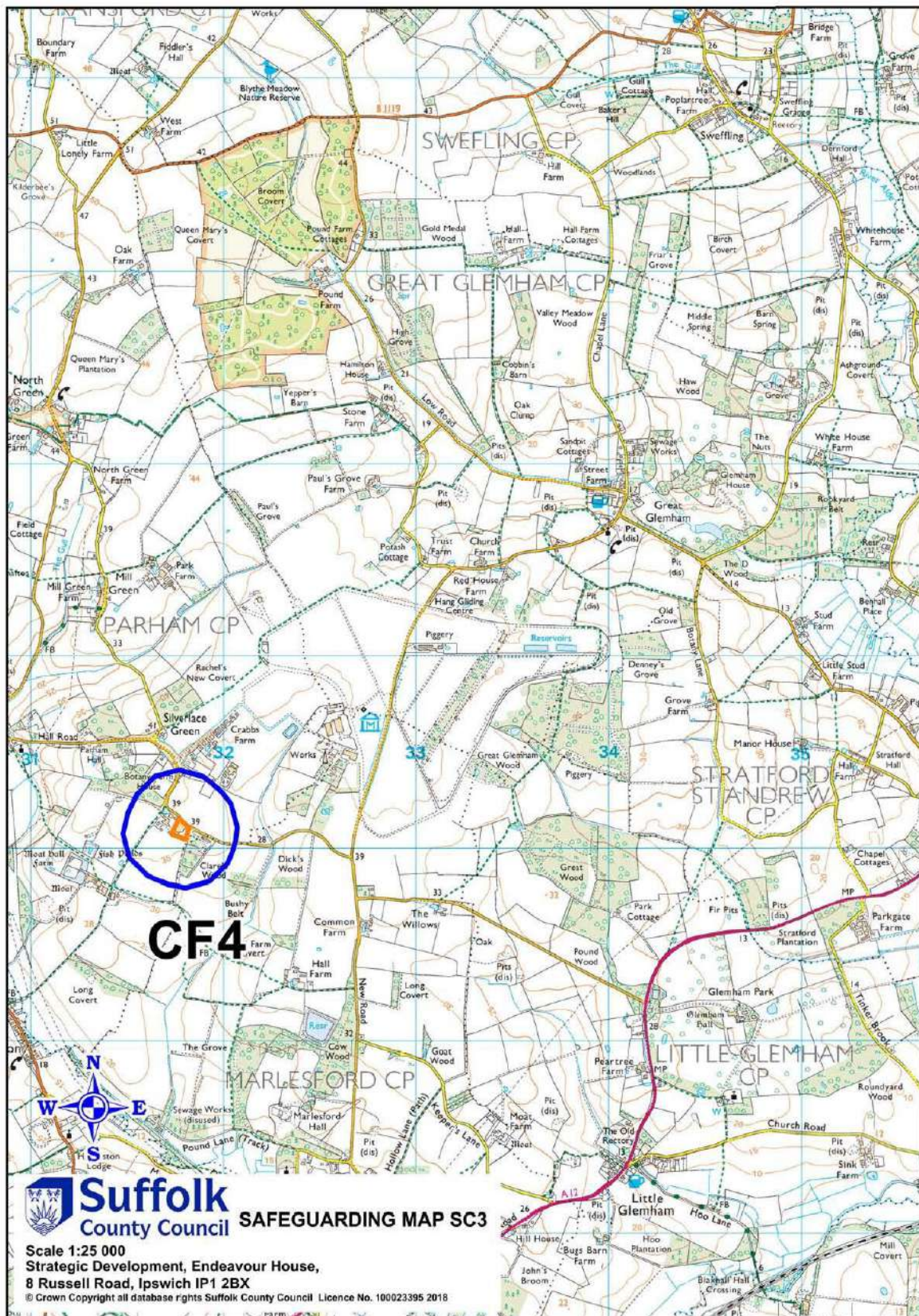


Map SC2



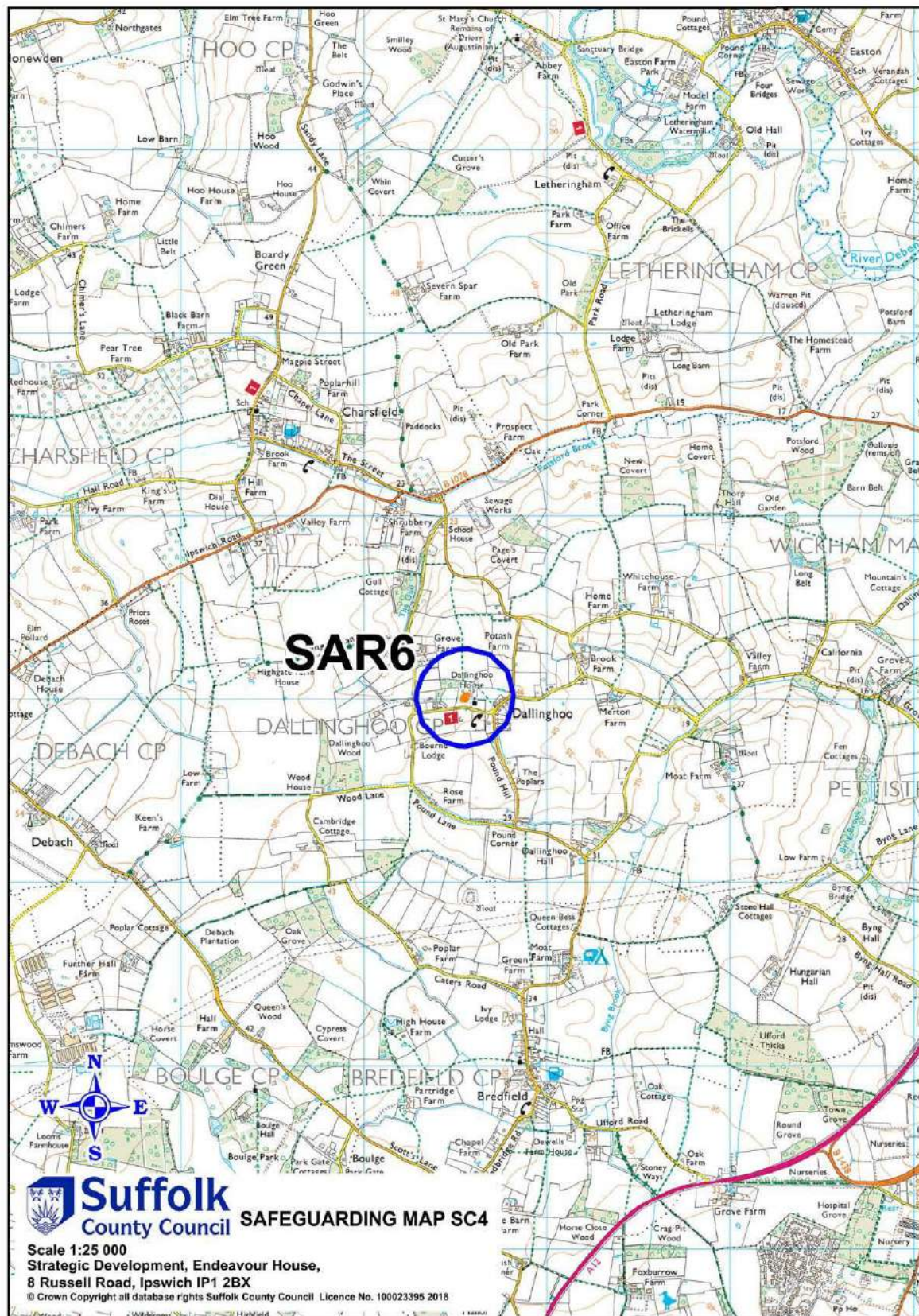


## Map SC3



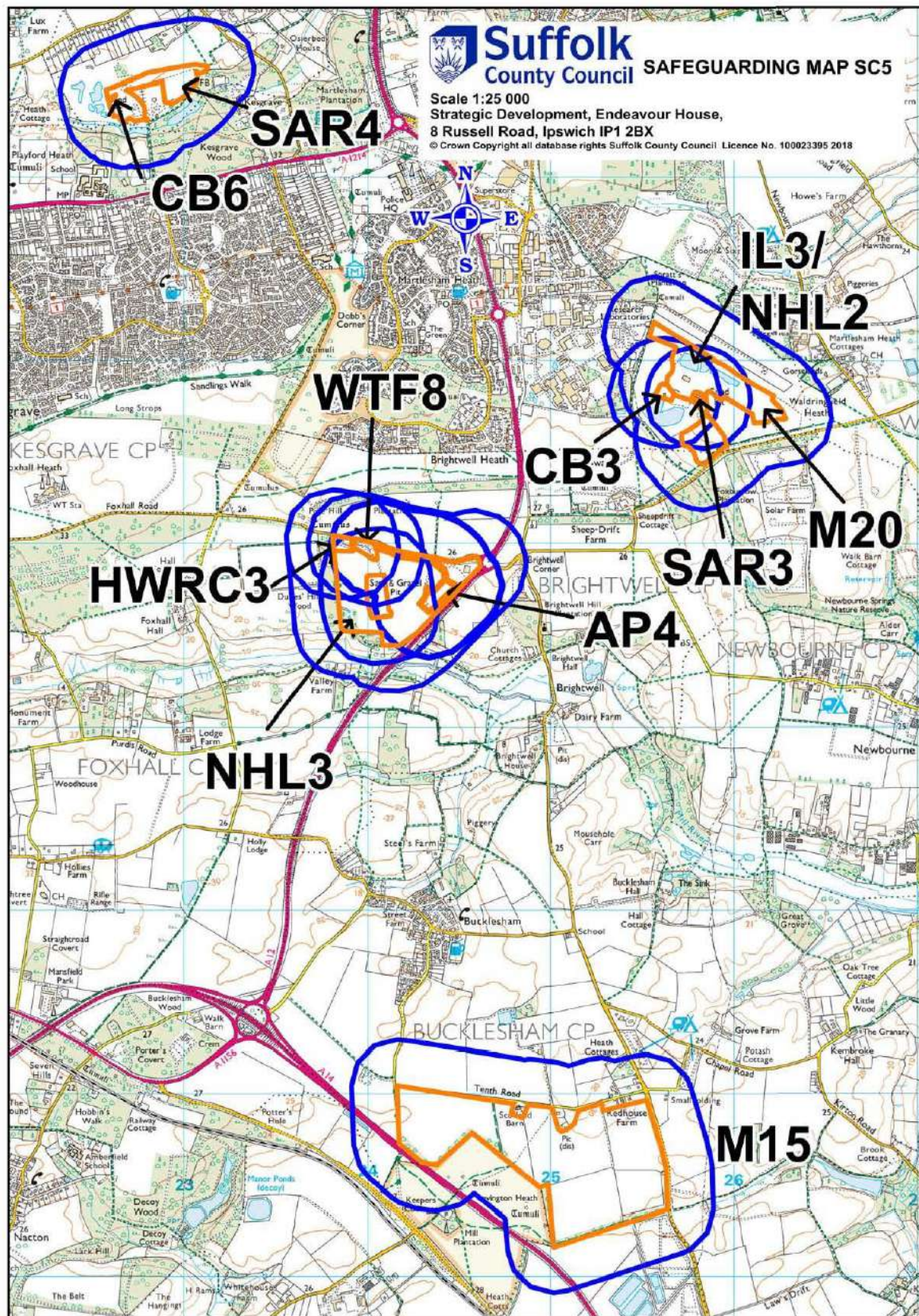


## Map SC4



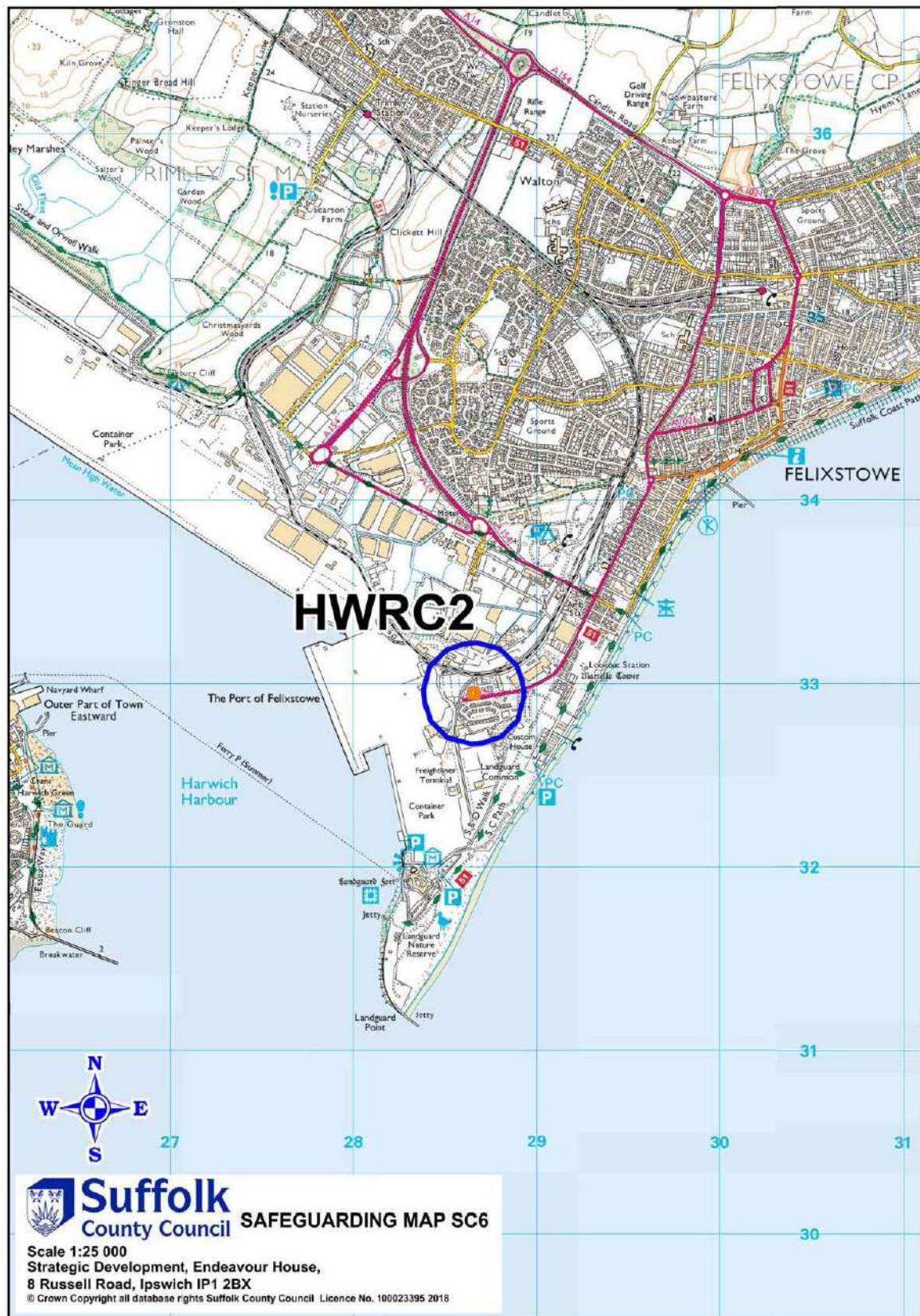


Map SC5



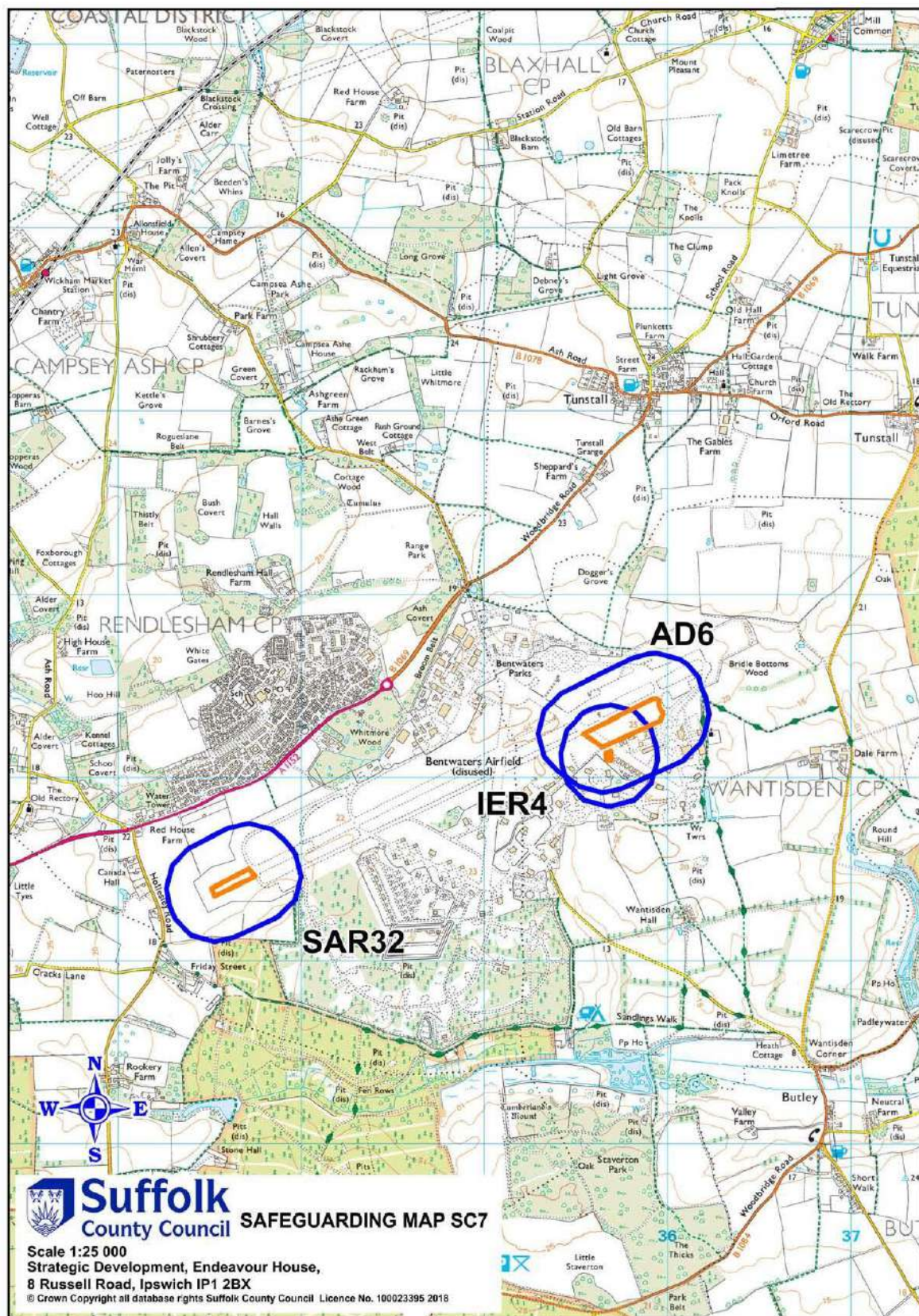


Map SC6



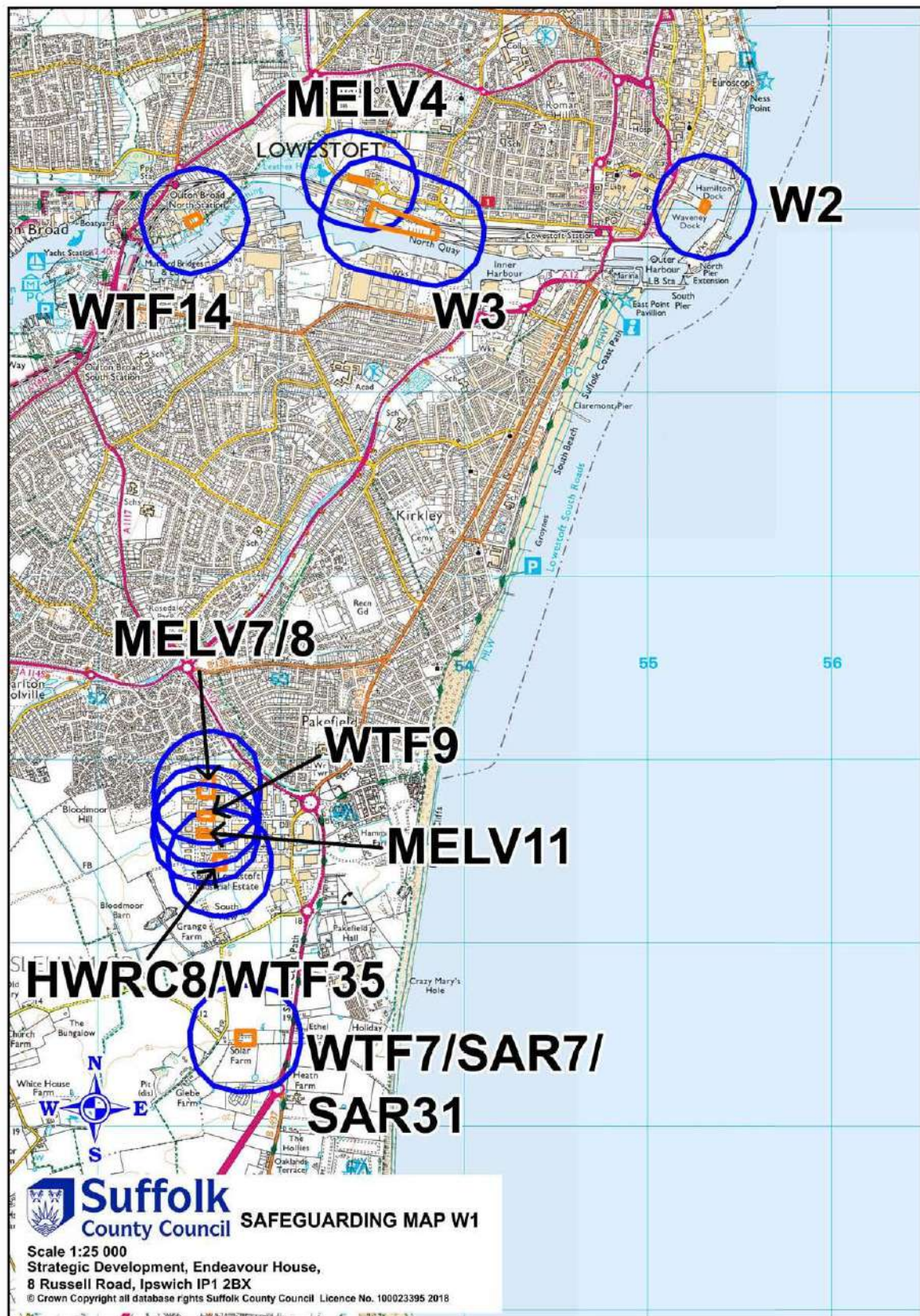


Map SC7



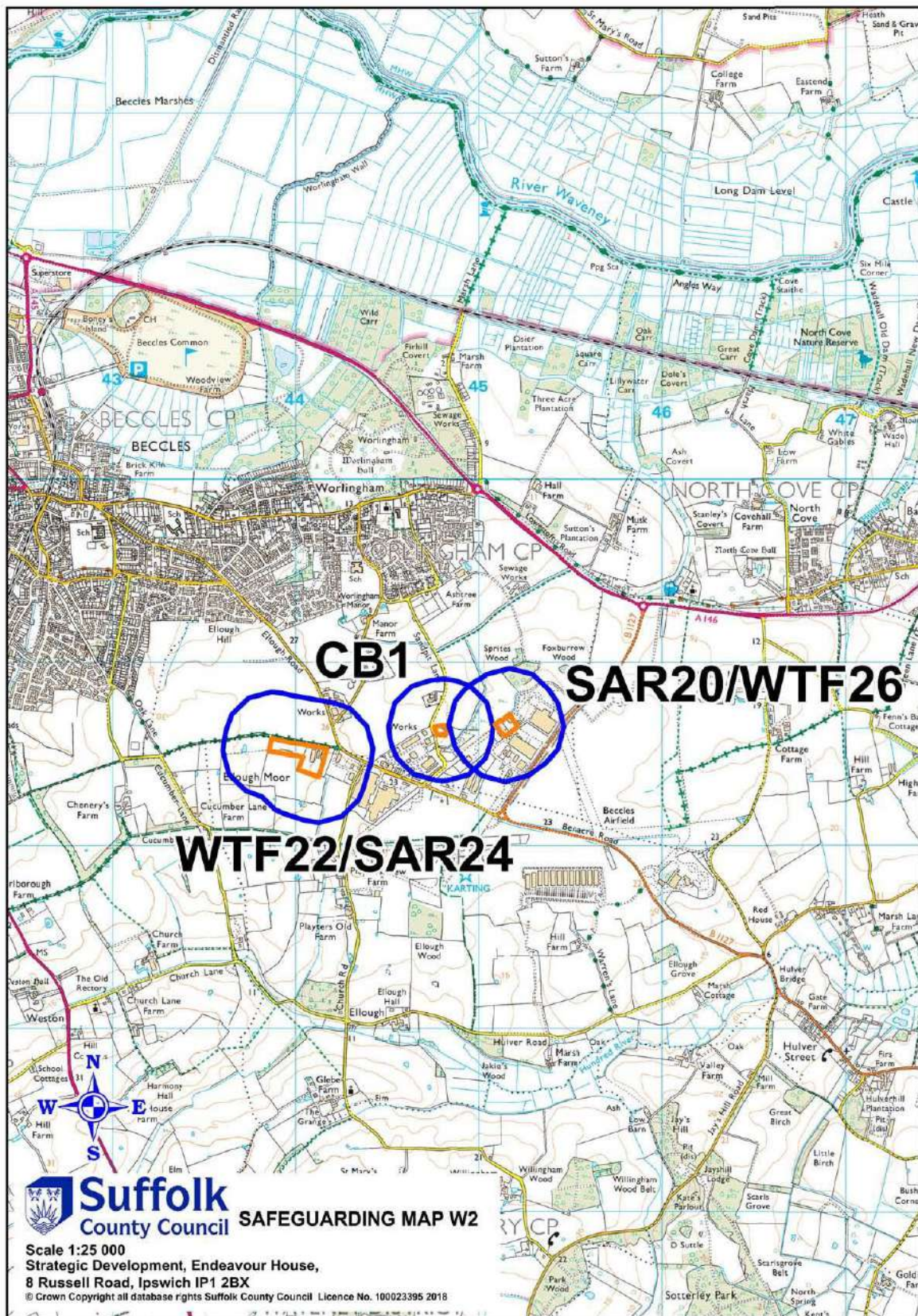


## Map W1



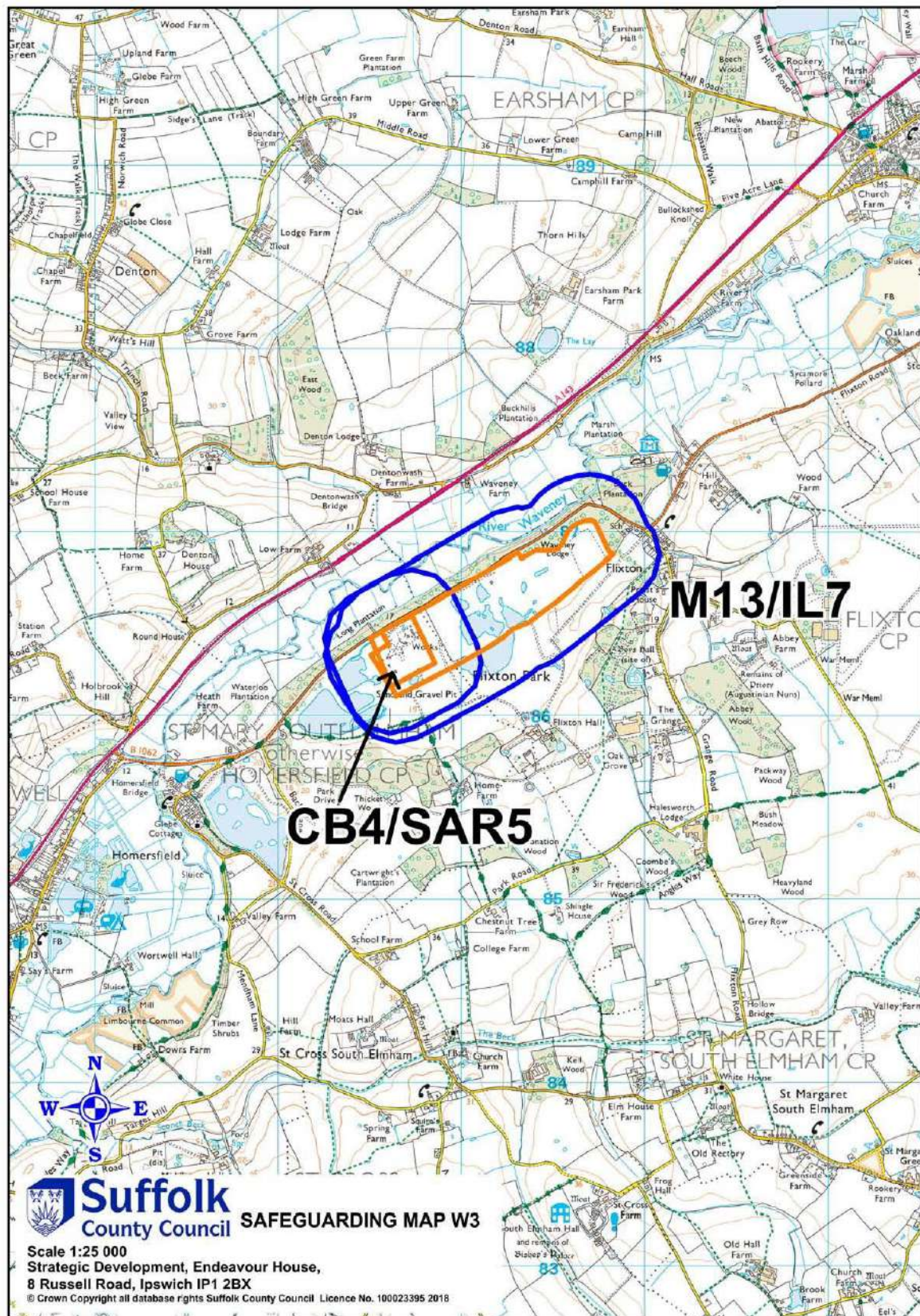


## Map W2



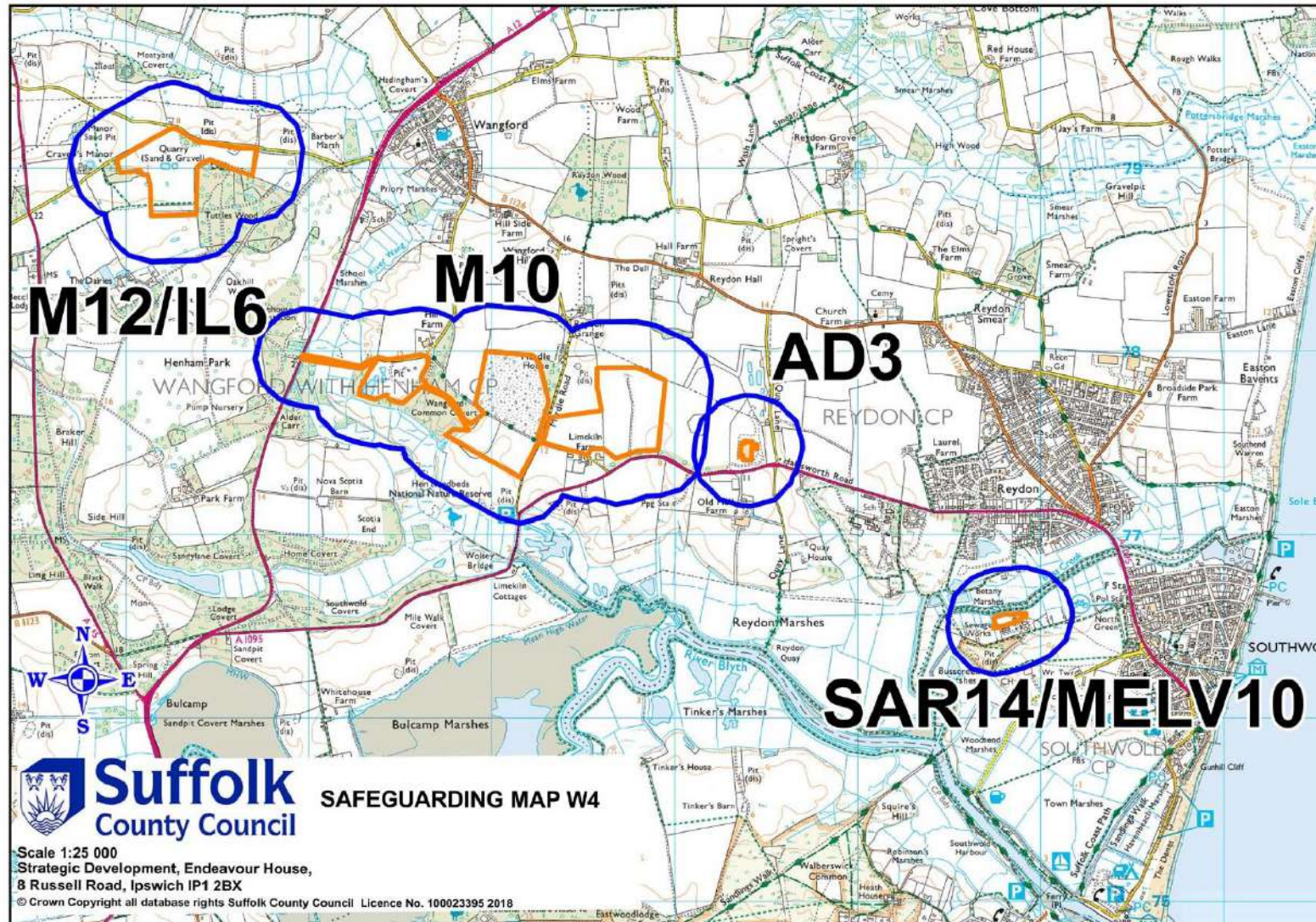


## Map W3



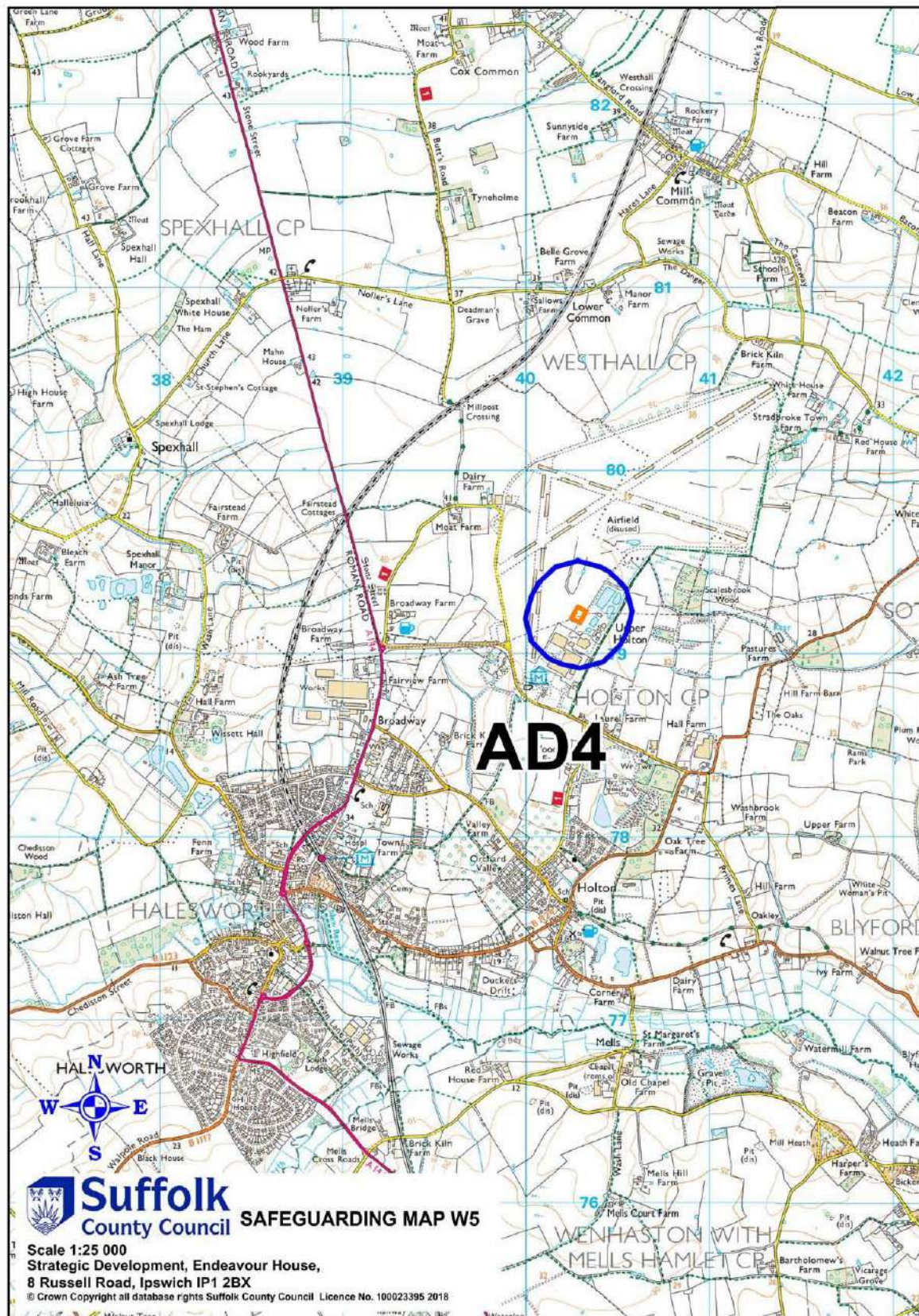


Map W4





## Map W5



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Jeżeli potrzebujesz pomocy w zrozumieniu tych informacji w swoim języku zadzwoń na podany poniżej numer. 03456 066 067

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এই লেখাটি যদি অন্য ভাষাতে বুঝতে চান তাহলে নিচের নম্বরে ফোন করুন 03456 066 067

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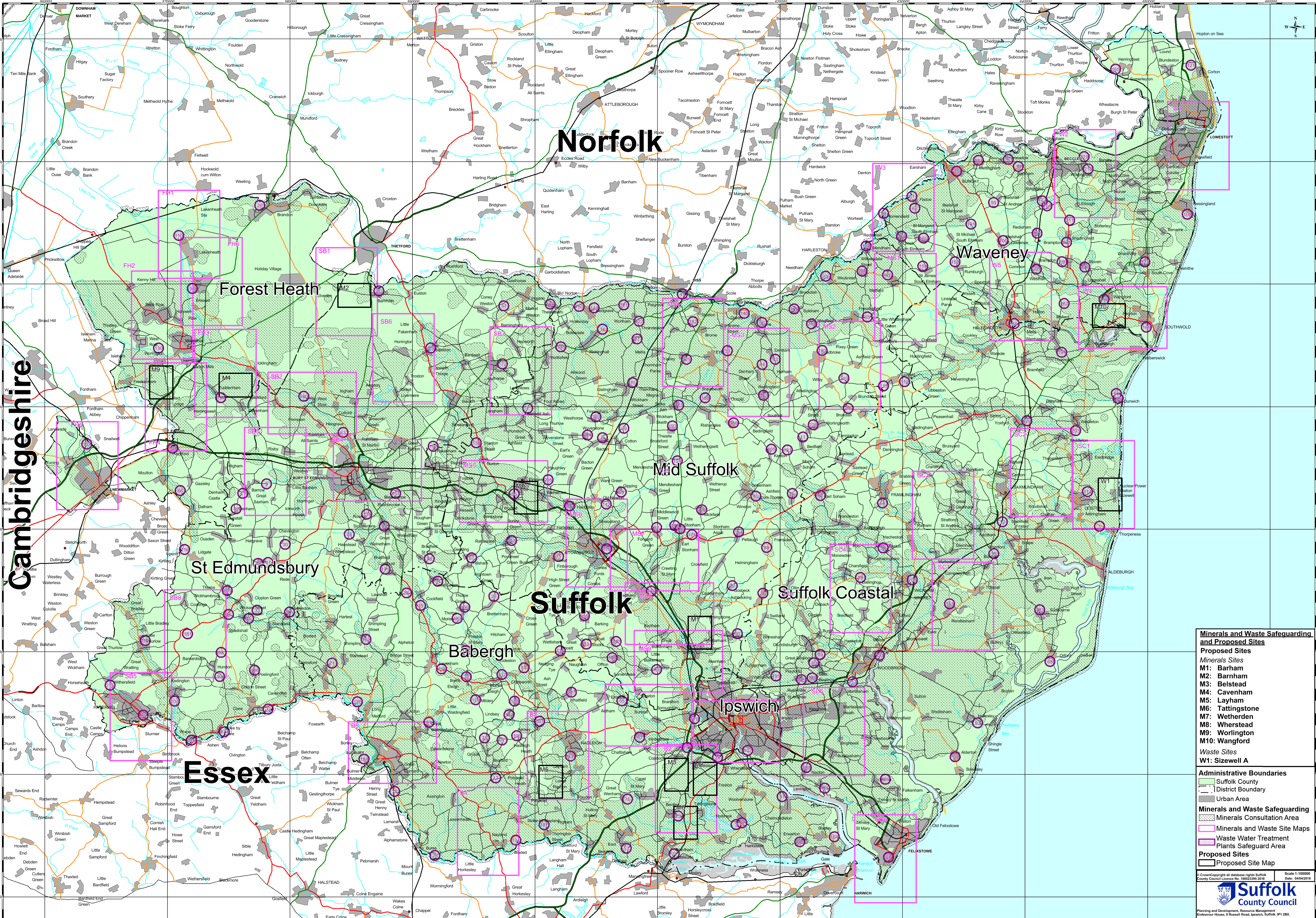


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**Minerals and Waste Safeguarding and Proposed Sites**

**Proposed Sites**

**Minerals Sites**

- M1: Barham
- M2: Barnham
- M3: Belstead
- M4: Cavenham
- M5: Layham
- M6: Tattingstone
- M7: Wetherden
- M8: Wetherden
- M9: Worlington
- M10: Wangford

**Waste Sites**

- W1: Sizewell A

**Administrative Boundaries**

- Suffolk County
- District Boundary
- Urban Area

**Minerals and Waste Safeguarding**

- Minerals Consultation Area
- Minerals and Waste Site Maps
- Waste Water Treatment
- Plants Safeguard Area

**Proposed Sites**

- Proposed Site Map