

East Devon Options Appraisal

East Devon District Council

Ecological Desk Study

Prepared For: CBRE

Document Reference: 9631.001

October 2022

Version 2.0

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Project Name:	East Devon Options Appraisal
Location:	East Devon District Council
Document Title:	Ecological Desk Study
Client:	CBRE
Year of Surveys:	2022
Report Prepared:	2022
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Document Ref:	9631.001

Document history and status:

Version	Date	Description of Issue	Author	Checked	Approved
1.0	10/10/22	Draft for client review	RAR	FBH	FBH
2.0	13/10/22	Reference error correction, addition of summary	RAR	FBH	FBH

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The conclusions and recommendations contained in this document are based upon information gathered by TEP and provided by third parties. Information provided by third parties and referred to herein has not been independently verified by TEP, unless otherwise expressly stated in the document.

Nothing in this report constitutes legal opinion. If legal opinion is required, the advice of a qualified legal professional should be secured.

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1.0 Introduction

- 1.1 The Environment Partnership (TEP) was commissioned by CBRE in September 2022 to complete an Ecological Desk Study to inform and support an Option Appraisal as part of the Local Plan Review for East Devon District Council (EDDC).

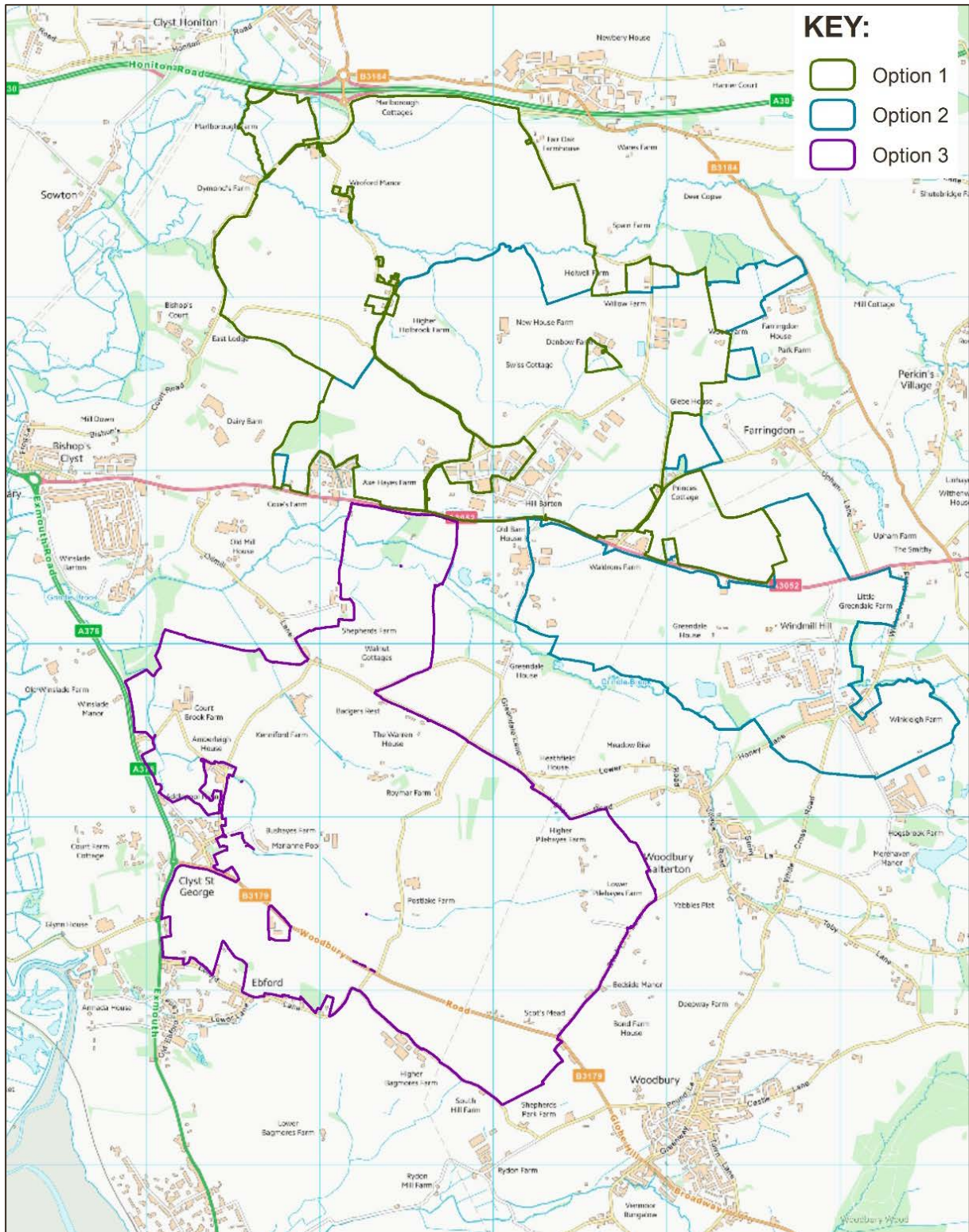
Site Location

- 1.2 Three option areas are included within the Option Appraisal, illustrated in Figure 1. Option 1 and 2 are partially overlapping. Option 3 is distinct from the other option areas.

Context and Purpose

- 1.3 The current East Devon Local Plan 2013 to 2013 was adopted in January 2016. EDDC is currently progressing a review of this Local Plan which will roll planning horizons forward to 2040. This raises the prospect that further large scale development will need to be identified, allocated and brought forward in the District.
- 1.4 An initial Issues and Options consultation took place between January and March 2021. Alongside this was a call for sites as part of a Housing and Employment Land Availability Assessment (HELAA). In response to the call for sites, three proposals for new settlements were put forward. Given the constraints of the district, which include two areas of outstanding natural beauty covering two thirds of the district, there is a strong likelihood that one or more of these new settlements will need to come forward in the plan period.
- 1.5 This Ecological Desk Study report details the methods of data gathering and presents the findings of the desk-based assessment as it relates to the three options under consideration. This report is intended to support the Options Appraisal Report.

Figure 1: Option Areas



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2.0 Methods

Scope and Data Sources

- 2.1 The ecological Zone of Influence (ZOI) is an area defined by the ecological assessment within which valued ecological features may be subject to significant biophysical changes as a consequence of the proposed development under assessment.
- 2.2 For the purposes of this assessment, the preliminary ZOIs within which ecological features were searched for as part of this desk study were varied according to the geo-spatial and/or legal significance of the feature.
- 2.3 Table 1 summarises the scope and the preliminary ZOIs applied for this desk study. The preliminary ZOIs were applied by extending search radii by the respective distances from the site boundary outwards.

Table 1: Scope and preliminary ecological Zones of Influence (ZOI)

Feature	Scope	Key Source(s)	ZOI
Statutory wildlife sites:	Ramsar sites Proposed Ramsar sites Special Areas of Conservation (SAC) Possible SAC SAC with marine components Special Protection Areas (SPA) Potential SPA Marine Conservation Zones	Natural England (public sector information) Devon County Council Environment Viewer ¹ EDDC East Devon Local Plan 2013-2031 (Adopted 28 January 2016) ^{2,3}	10km
	Sites of Special Scientific Interest (SSSI) National Parks National Nature Reserves (NNR) Marine Nature Reserves (MNR)	Natural England (public sector information) EDDC East Devon Local Plan 2013-2031 (Adopted 28 January 2016)	5km
	Local Nature Reserves (LNR) Country Parks Strategic Nature Areas	Natural England (public sector information) Devon County Council Environment Viewer	2km
Non-statutory wildlife sites:	County Wildlife Sites (CWS) Other Sites of Wildlife Interest (OSWI) Unconfirmed Wildlife Sites (UWS) Exeter Green Spaces Special Verges Exeter Valley Parks Regional Parks Green Wedges	Devon Biological Records Centre (DBRC) EDDC East Devon Local Plan 2013-2031 (Adopted 28 January 2016) EDDC Local Plan Interactive Map ⁴ Devon County Council Environment Viewer	1km

¹ <https://www.devon.gov.uk/environment/environmental-maps> [Accessed September-October 2022]

² <https://eastdevon.gov.uk/planning/planning-policy/local-plan-interactive-map/> [Accessed September-October 2022]

³ <https://eastdevon.gov.uk/media/1772841/local-plan-final-adopted-plan-2016.pdf> [Accessed September-October 2022]

⁴ <https://eastdevon.gov.uk/planning/planning-policy/local-plan-interactive-map/> [Accessed September-October 2022]

Feature	Scope	Key Source(s)	ZOI
Notable habitats:	Ancient Woodland Habitats of principal importance Devon Biodiversity Action Plan (DBAP) habitats Main rivers Habitat Network / Nature Recovery Network	Natural England (public sector information) Environment Agency (public sector information) DBRC Devon County Council Environment Viewer Devon Biodiversity Action Plan (DBAP) ⁵ Google Earth	1km
Protected or notable species:	Pre-existing records for protected or notable species ⁶ , non-native invasive species	DBRC Devon County Council Environment Viewer	1km
	Protected species licences granted by Natural England Great crested newt survey pond records (2017 – 2019) held by Natural England	Natural England (public sector information)	1km
	Great crested newt Consultation Zone Cirl bunting Consultation Zone	Devon County Council Environment Viewer	As applicable to site
	Important Bird Areas (IBA)	Bird Life International ⁷	5km
	Important Plant Areas (IPA)	Plantlife ⁸	1km
Policy and Related Guidance	Land allocations and relevant environment / biodiversity policy Local biodiversity priority habitats and species	EDDC East Devon Local Plan 2013-2031 (Adopted 28 January 2016) EDDC Local Plan Interactive Map DBAP	As applicable to site

2.4 An absence of records does not indicate the absence of notable species from the search area.

2.5 Geological sites are not designated for ecology reasons and are therefore excluded from further consideration in this report.

⁵ <https://www.devon.gov.uk/environment/wildlife/the-devon-biodiversity-action-plan-bap> [Accessed September-October 2022]

⁶ Notable and protected species records may include those listed under any of the following:

- Protected species listed under Schedule 2 (animals) or Schedule 5 (plants) under the Conservation of Habitats and Species Regulations 2017 (EPS);
- Protected bird species under Schedule 1 of the Wildlife and Countryside Act 1981, as amended (WCA1);
- Protected animal species under Schedule 5 of the Wildlife and Countryside Act 1981, as amended (WCA5);
- Protected plant species under Schedule 8 of the Wildlife and Countryside Act 1981, as amended (WCA8);
- Invasive non-native plant species under Schedule 9 of the Wildlife and Countryside Act 1981, as amended (WCA9);
- Invasive Alien Species (Enforcement and Permitting) Order 2019 (IAS);
- Protection of Badgers Act 1992 (PBA);
- Species of principal importance (SPI) listed by requirements under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006;
- Red and Amber listed Birds of Conservation Concern (BRd/BAm); and
- Local Biodiversity Action Plan Species (LBAP).

⁷ <http://www.birdlife.org> [Accessed October 2022]

⁸ <https://www.plantlife.org.uk/nature-reserves-important-plant-areas/important-plant-areas> [Accessed October 2022]

Additional Supporting Data

- 2.6 A preliminary planning search on East Devon District Council's planning portal identified the following potentially relevant pre-existing ecological survey reports, which were then reviewed to determine any additional local context:

Planning Ref: 22/1532/MOUT Treasbere Garden Village

- Environmental Statement Chapter 14 Biodiversity June 2022 Ref 32463/A5/ES2022;
- Appendix 14.1 Ecological Baseline Report June 2022 (A report on behalf of Redrow Homes Limited and Carden Group) Ref 1236-EBR-AM, GE Consulting;

and

Planning Ref: 20/0530/LDO East Devon District Heating Local Development Order

- Habitats Regulations – Screening Assessment;
- The Town and Country Planning (Environmental Impact Assessment Regulations 2017) Screening Opinion;
- Consultation Response Summary.

3.0 Legislation and Policy

- 3.1 This section details legislation and planning policy which may have relevance to the Option Appraisal. Only legislation and policy of key relevance to biodiversity are included.

Relevant Legislation

International Conventions

- 3.2 The UK is a Contracting Party to numerous environmental conventions, the commonest form of international agreements to encourage a coordinated response to managing the environment. Key environmental conventions ratified in the UK include:

- The Convention on Wetlands of International Importance especially as Waterfowl Habitat ('Ramsar Convention'⁹ or 'Wetlands Convention') - provides the only international mechanism for protecting sites of global importance;
- The Convention on the Conservation of European Wildlife and Natural Habitats (the Bern Convention¹⁰) - imposes legal obligations on contracting parties, protecting over 500 wild plant species and more than 1,000 wild animal species;
- The Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention¹¹ or CMS) - provides strict protection for endangered migratory species. The UK has currently ratified four legally binding Agreements under the convention relating to bats (EUROBATS), African-Eurasian migratory birds (AEWA), small cetaceans in the Baltic, Irish and North Seas (ASCOBANS) and albatrosses and petrels (ACAP) in addition to five Memorandum of Understanding (MoU) and is non-party range state to a further Agreement and a further MoU;
- The Convention Concerning the Protection of the World Cultural and Natural Heritage (UNESCO World Heritage Convention) - seeks to protect both cultural and natural heritage;
- The Convention on Biological Diversity (Biodiversity Convention¹² or CBD) - provides a legal framework for biodiversity conservation. Within the UK, delivery of the CBD and the Strategic Plan for Biodiversity 2011-2020¹³ is guided by the UK Post-2010 Biodiversity Framework¹⁴.

⁹ Convention on Wetlands of International Importance especially as Waterfowl Habitat, Ramsar, 2.2.1971
<https://www.ramsar.org/>

¹⁰ Convention on the Conservation of European Wildlife and Natural Habitats. Bern, 1979 <https://www.coe.int/>

¹¹ Convention on the Conservation of Migratory Species of Wild Animals, Bonn, June 1979 <https://www.cms.int/>

¹² Convention on Biological Diversity, Rio de Janeiro, June 1992 <https://www.cbd.int/>

¹³ In October 2010, at the 10th Conference of the Parties to the CBD in Nagoya, Japan, the Parties adopted a new 'Strategic Plan for Biodiversity 2011–2020' along with its 20 'Aichi targets'. <https://www.cbd.int/sp/>

¹⁴ The framework is overseen by the Environment Departments of the four UK governments working through the Four Countries' Biodiversity Group. It demonstrates how the UK, through each of the four countries, contributes to achieving the 'Aichi targets', and identifies the activities required to complement the individual country biodiversity strategies <https://jncc.gov.uk/our-work/uk-post-2010-biodiversity-framework/>

- 3.3 The legal obligations of the multiple Conventions to which the UK is a Contracting Party are enacted through a suite of national environmental legislation. The most relevant are described in the following paragraphs.

Conservation of Habitats and Species Regulations

- 3.4 The Conservation of Habitats and Species Regulations 2017¹⁵ (2017 Regulations) transposed the land and marine aspects of the Habitats Directive (Council Directive 92/43/EEC) and certain elements of the Wild Birds Directive (Directive 2009/147/EC) (known as the Nature Directives) into domestic law.
- 3.5 The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019¹⁶ (2019 Regulations) amends the 2017 Regulations to make them operable following the withdrawal of the United Kingdom from the European Union (EU). Most of the changes involve transferral of functions from European Commission to the appropriate authorities in England and Wales, also extending to Scotland and Northern Ireland and applies to Scotland and Northern Ireland (including the adjacent territorial sea to a limited degree), as regards reserved and excepted matters respectively. It also amends Section 27 of the Wildlife and Countryside Act 1981 to maintain existing protections and enforcement for species of wild birds.
- 3.6 All other processes or terms in the 2017 Regulations remain unchanged and existing guidance and obligations (of a competent authority) remain relevant.

National Site Network

- 3.7 Under the 2019 Regulations, Special Areas of Conservation (SAC) and Special Protection Areas (SPA) in the UK no longer form part of the EU's 'Natura 2000' ecological network, but instead (along with new SACs and SPAs designated under the 2019 Regulations) form the new National Site Network (NSN). Ramsar sites do not form part of the NSN but remain protected in the same way as SACs and SPAs.
- 3.8 Proposals which may significantly affect a site belonging to the NSN and which are not connected with or necessary to the management of that site require (by Regulations 63 and 64 of the 2017 Regulations, as amended by Regulations 24 and 25 of the 2019 Regulations, respectively) competent authorities to undertake an Appropriate Assessment of the implications of the plan or project in view of that site's conservation objectives. This process is commonly referred to as a 'Habitats Regulations Assessment' (HRA). The assessment must consider the potential effects both of the plan/project itself and in combination with other plans or projects. Where an adverse effect on the site's integrity cannot be ruled out, and where there are no alternative solutions, the plan or project can only proceed if there are imperative reasons of over-riding public interest (IROPI) and if the necessary compensatory measures can be secured.

¹⁵ Conservation of Habitats and Species Regulations 2017 (SI 2017/1012) <https://www.legislation.gov.uk/uksi/2017/1012/>

¹⁶ Conservation of Habitats and Species Regulations 2019 (SI 2019/579) <https://www.legislation.gov.uk/uksi/2019/579/>

Protected Species

- 3.9 Certain animals and their breeding sites or resting places are protected under Regulation 43 of the 2017 Regulations, which makes it illegal to:
- Deliberately capture, injure or kill any such animal or to deliberately take or destroy the eggs of such an animal;
 - Deliberately disturb such an animal; and
 - Damage or destroy a breeding site or resting place of such an animal.
- 3.10 Disturbance is defined in the 2017 Regulations as an activity which is likely to impair a species' ability to survive, to breed or reproduce, to rear or nurture young or, in the case of animals hibernating or migratory species, to hibernate, migrate or which may affect significantly the local distribution or abundance; of the species.
- 3.11 A bat's resting place is known as a roost site. Because bats tend to be faithful to roost sites, but their biology is such that different roost site characteristics are preferred at different times of the year by different species for different functions, a bat roost is considered to be afforded protection even when it is not occupied.
- 3.12 Certain plant species are protected under Regulation 47 of the 2017 Regulations against deliberate picking, collecting, cutting, uprooting or destruction. It is also an offence to be in possession or control and to transport any live or dead plant or part of a plant of such a species which has been taken in the wild.
- 3.13 The 2017 Regulations (Regulation 55) enables a relevant licensing body to grant a licence for certain activities that may affect animal or plant species protected by the above provisions. The purpose must conform to one of those listed under Regulation 55(2). For most development related activities, the purpose normally relates to Regulation 55(2)(e) 'preserving public health or public safety or other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequence of primary importance for the environment' – commonly known as the IROPI test. Regulation 55(9) introduces two further tests that the licensing body must consider:
- There is no satisfactory alternative; and
 - The favourable conservation status of the species concerned will be maintained and/or enhanced.
- 3.14 Under Regulation 9(1) of the 2017 Regulations (as amended), competent authorities "must exercise their functions which are relevant to nature conservation... so as to secure compliance with the requirements of the Directives". Regulation 9(3) requires a competent authority, in exercising any of its function, to "have regard to the requirements of the Directives so far as they be affected by the exercise of those functions." Local planning authorities must therefore consider the above three 'tests' when determining if planning permission should be granted for developments likely to cause an offence under the Regulations.

Wildlife and Countryside Act 1981

- 3.15 The Wildlife and Countryside Act 1981 (as amended)¹⁷ (WCA) is a major legal instrument for wildlife protection in the UK. In respect of habitats and flora, the WCA protects important habitats and/or species as Sites of Special Scientific Interest (SSSI). The designation of UK Ramsar sites⁹ has usually been underpinned through prior notification of these areas as SSSI and accordingly they receive statutory protection under the WCA.
- 3.16 The obligations of the Bern Convention¹⁰ (the protection of wild plant and animal species and their natural habitats) are transposed into law for England and Wales¹⁸ by the WCA. The legal requirement for the protection of migratory species listed by the Bonn Convention¹¹ is also provided by the WCA.
- 3.17 All wild birds (as defined by the WCA and with exception to species listed in Schedule 2) are protected under the WCA, which makes it illegal to:
- Intentionally kill, injure or take any wild bird;
 - Take, damage or destroy the nest (whilst being built or in use) of any wild bird; or
 - Take or destroy the eggs of any wild bird.
- 3.18 Special penalties are available for offences related to birds listed in Schedule 1, for which there are additional offences of disturbing these birds at their nests, or their dependent young. The Secretary of State may also designate Areas of Special Protection (subject to exceptions) to provide further protection to birds. The WCA also prohibits certain methods of killing, injuring, or taking birds, restricts the sale and possession of captive bred birds, and sets standards for keeping birds in captivity.
- 3.19 Certain animal species (listed under Schedule 5) of the WCA receive protection which makes it illegal (with certain exceptions) to:
- Intentionally kill, injure or take any such animal;
 - Intentionally or recklessly damage, destroy or obstruct any place used for shelter or protection by any such animal;
 - Intentionally or recklessly disturb such animals while they occupy a place used for shelter or protection.
- 3.20 The Environment Act (EA) 2021 amends the licensing regime under Section 16 of the WCA 1981 to enable licences to be granted (in England only) for reasons of overriding public interest. This new purpose will enable those involved in development activities to apply for a derogation under the WCA for species domestically protected under Schedule 5 of the WCA 1981.

¹⁷ Wildlife and Countryside Act 1981 c. 69 <https://www.legislation.gov.uk/ukpga/1981/69/>

¹⁸ In Scotland by the Nature Conservation (Scotland) Act 2004 (as amended) and in Northern Ireland by Wildlife (Northern Ireland) Order 1985 and the Nature Conservation and Amenity Lands (Northern Ireland) Order 1985.

- 3.21 The amendments introduced by the EA 2021 at Section 16(3) requires that licensed may only be granted (in England) where:
- there is no other satisfactory solution, and
 - the grant of the licence is not detrimental to the survival of any population of the species of animal or plant to which the licence relates.

3.22 Plant species listed under Schedule 8 of the WCA 1981 are protected from unauthorised intentional picking, uprooting and destruction.

3.23 It is an offence to plant or otherwise cause to grow in the wild any plant that is included in Schedule 9.

Countryside and Rights of Way Act 2000

3.24 Part III of the Countryside and Rights of Way Act 2000¹⁹ (CROW) deals specifically with wildlife protection and nature conservation. It requires that Government Departments have regard for the conservation of biodiversity, in accordance with the CBD. In addition, it requires that The Secretary of State publishes a list of living organisms and habitat types that are considered to be of principal importance in conserving biodiversity.

3.25 CROW also amends the WCA, expanding the terms of offences to include reckless activity. It increases the legal protection of threatened species, by also making it an offence to “recklessly” obstruct access to a sheltering place used by an animal listed in Schedule 5 of the WCA or “recklessly” disturb an animal occupying such a structure or place.

Natural Environment and Rural Communities (NERC) Act 2006

3.26 Section 40 of the Natural Environment and Rural Communities Act 2006 (NERC)²⁰ places a duty to conserve biodiversity on public authorities in England. It requires local authorities and government departments to have regard to the purposes of conserving biodiversity in a manner that is consistent with the exercise of their normal functions such as policy and decision-making. 'Conserving biodiversity' may include enhancing, restoring or protecting a population or a habitat.

3.27 Section 41 requires the Secretary of State to publish and maintain lists of species and types of habitats which are regarded by Natural England to be of "principal importance" for the purposes of conserving biodiversity in England.

3.28 These habitats and species of principal importance (HPI and SPI) are drawn from earlier lists of United Kingdom Biodiversity Action Plan Priority Species and Habitats. The Section 41 (S41) lists of HPI and SPI are needed by decision-makers in local and regional authorities when carrying out their duties under Section 40 of the Act.

¹⁹ Countryside and Rights of Way Act 2000 c. 37 <https://www.legislation.gov.uk/ukpga/2000/37/>

²⁰ Natural Environment and Rural Communities Act 2006 c. 16 <https://www.legislation.gov.uk/ukpga/2006/16/>

Environment Act 2021

- 3.29 The Environment Act 2021²¹ was passed into law in November 2021. The Act applies only to England, although many of its measures are designed to be operable across the UK with the consent of devolved administrations. The Act requires statutory long-term (15+ years) targets to be set (and monitored, reported and reviewed) in the four priority areas of waste reduction, air quality, water resources and biodiversity as well as additional targets relating to species abundance and fine particulates by 2030.
- 3.30 The Environment Act amends the Town and Country Planning Act 1990²² in that planning permissions granted after the provisions come into force²³ are deemed to be subject to a condition prohibiting the start of development before a biodiversity gain plan has been submitted to and approved by the Local Planning Authority (LPA).
- 3.31 The biodiversity gain plan must demonstrate a net gain of at least 10% in the biodiversity value of the development site “as at the time the development is completed”. Biodiversity net gain must be demonstrated by calculations using the biodiversity metric (currently version 3.1 published by Natural England)
- 3.32 The Environment Act introduces Local Nature Recovery Strategies (LNRS), a new system of spatial strategies for nature, covering the whole of England. LNRS are to be prepared and published by the ‘responsible authority’, namely the local authority, mayoral authority or National Park authority whose area is, or is within, the strategy area, the Broads Authority or Natural England. Section 40 of the NERC Act (duty to conserve biodiversity) makes provision about the duties of public authorities in relation to LNRS.
- 3.33 A ‘responsible authority’ is to be appointed to lead each LNRS area, which could include LPAs and which in mayoral combined authorities is highly likely to be the mayor. The responsible Authority must map the most valuable existing natural habitat in its area and develop a biodiversity strategy, including specific proposals for creating or improving habitats and priorities for nature recovery.
- 3.34 In addition to the above, the Environment Act Part 6 (Nature and biodiversity) will also:
- Strengthen the biodiversity duty through amendments to Section 40 of the NERC Act.
 - Impose a duty upon Local Authorities to consult on street tree felling;
 - Strengthen woodland protection enforcement measures;
 - Introduce Conservation Covenants (agreements between a landowner and a responsible body);
 - Protected Site Strategies (prepared and published by Natural England) to improve the conservation and management of a protected site (including SACs, SPAs listed before

²¹ Environment Act 2021 c.30 <https://www.legislation.gov.uk/ukpga/2021/30/>

²² Town and Country Planning Act 1990 c. 8 <https://www.legislation.gov.uk/ukpga/1990/8/>

²³ The Biodiversity Gain provision of the Environment Act requires the Secretary of State to first publish detailed regulations (see s147(3) of the Act). These are anticipated in November 2023.

exit day, Sites of Community Importance (SCI)²⁴ listed before exit day and those sites proposed before exit day as SACs).

- Species Conservation Strategies (prepared and published by Natural England) to improve the conservation status of any species of flora or fauna, with which a LPA in England and any prescribed authority must have regard so far as relevant to its functions, including when discharging its duties under the 2017 Regulations (as amended);
- Prohibit larger UK businesses from using commodities associated with wide-scale deforestation (where 'forest' is defined as "an area of land of more than 0.5 hectares with a tree canopy cover of at least 10% (excluding trees planted for the purpose of producing timber or other commodities)", which includes "land that is wholly or partly submerged in water whether temporarily or permanently");
- Require regulated businesses to establish a system of due diligence for each regulated commodity used in their supply chain, requires regulated businesses to report on their due diligence, introduces a due diligence enforcement system.

Hedgerow Regulations 1997

- 3.35 Important hedgerows are protected from removal by the Hedgerows Regulations²⁵ (as amended). Regulation 3 defines the hedgerows to which the Regulations apply. Regulation 4 sets out the criteria for identifying "important hedgerows" including ecological, landscape or historical/cultural reasons. Under the Hedgerow Regulations it is against the law to remove or destroy certain hedgerows without permission from the local planning authority. Works to "important hedgerows" are exempt under the Hedgerow Regulations if planning consent is granted which allows their removal.
- 3.36 The identification of important hedgerows also provides an additional means to value hedgerows aside from their botanical value (e.g., species richness) as the assessment of importance also includes characteristics relating to maturity and structure (e.g., associated features, connectivity, integrity) which will affect the functional value of the hedgerow.

Protection of Badgers Act 1992

- 3.37 Badgers and their setts receive statutory protection under the Protection of Badgers Act 1992 (PBA)²⁶. This makes it an offence to wilfully kill, injure, take, possess or cruelly ill-treat a badger, or to attempt to do so; or to intentionally or recklessly interfere with a sett.
- 3.38 Sett interference includes disturbing badgers whilst they are occupying a sett, as well as damaging or destroying a sett or obstructing access to it. A badger sett is defined in the legislation as "any structure or place, which displays signs indicating current use by a badger."

²⁴ SCIs are established under the European Union Habitats Directive (92/43/EEC) and are (under the Habitats Directive) the pre-requisite step for establishing SACs and SPAs.

²⁵ The Hedgerow Regulations 1997 (SI 1997/1167) <https://www.legislation.gov.uk/uksi/1997/1160/>

²⁶ Protection of Badgers Act 1992 c. 51 <https://www.legislation.gov.uk/ukpga/1992/51/>

Relevant Policy

National Planning Policy Framework

- 3.39 The National Planning Policy Framework (NPPF21)²⁷ sets out the Government's planning policies for England and how these are expected to be applied at a local level in development plans and how developers should address them. The Framework places great emphasis on plans and developments contributing to sustainable development.
- 3.40 Relating to the planning and delivery of large-scale developments, Paragraph 22 requires that a vision should look at least 30 years ahead. Paragraph 73 identifies a number of considerations to help guide such large-scale proposals including consideration of opportunities presented by the scope for net environmental gains, ensuring sustainable communities, quality of places, rates of delivery and establishment of Green Belt around or adjoining new developments of significant size.
- 3.41 Paragraph 174 requires that planning policies and decisions should contribute to and enhance the natural and local environment by:
- protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);
 - recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;
 - maintaining the character of the undeveloped coast, while improving public access to it where appropriate;
 - minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;
 - preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and
 - remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.
- 3.42 Paragraph 180 requires local planning authorities to apply the following principles when determining planning applications:
- if significant harm resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;

²⁷ National Planning Policy Framework (2021) Ministry of Housing, Communities and Local Government
www.gov.uk/government/publications

- development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;
 - development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists; and;
 - development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity or enhance public access to nature where this is appropriate.”
- 3.43 Paragraph 181 stipulates that the following should be given the same protection as habitats sites²⁸:
- potential Special Protection Areas and possible Special Areas of Conservation;
 - listed or proposed Ramsar sites; and
 - sites identified, or required, as compensatory measures for adverse effects on habitats sites, potential Special Protection Areas, possible Special Areas of Conservation, and listed or proposed Ramsar sites.
- 3.44 Paragraph 182 confirms the presumption in favour of sustainable development does not apply where the plan or project is likely to have a significant effect on a habitats site (either alone or in combination with other plans or projects), unless an appropriate assessment has concluded that the plan or project will not adversely affect the integrity of the habitats site.

Government Circular 06/2005

- 3.45 Government Circular 06/2005²⁹ remains pertinent in national policy even though PPS9, which it originally supported, was revoked by the NPPF.
- 3.46 The Circular outlines the legislative provisions relating to biodiversity and geological conservation which affect planning and development. The Circular provides guidance on the protection of designated international and national nature conservation sites, non-designated sites, the conservation of species, and advice on the related issues and statutory powers.
- 3.47 Paragraphs 123 and 124 of Part IV of Circular 06/2005 state that “the likelihood of disturbing a badger sett, or adversely affecting badgers’ foraging territory, or links

²⁸ Defined by NPPF21 as “Any site which would be included within the definition at regulation 8 of the Conservation of Habitats and Species Regulations 2017 for the purpose of those regulations, including candidate Special Areas of Conservation, Sites of Community Importance, Special Areas of Conservation, Special Protection Areas and any relevant Marine Sites”.

²⁹ Office of the Deputy Prime Minister (2005) ‘Government Circular: Geological and Biological Conservation – Statutory obligations and their implications within the planning system’ ODPM circular 06/2005, DEFRA circular 01/2005 https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/7692/147570.pdf

between them, or significantly increasing the likelihood of road or rail casualties amongst badger populations, are capable of being material considerations in planning decisions. Although consideration of the case for granting a licence is separate from the process of applying for planning permission, a planning authority should advise anyone submitting an application for development in an area where there are known to be badger setts that they must comply with the provisions of the Act”.

Local Planning Policy

- 3.48 The current Local Plan is the East Devon Local Plan 2013-2031, adopted 28th January 2016. The Local Plan is currently under review.
- 3.49 Spatial Strategy 5 relates to the Environment and aims to deliver sustainable development, to conserve and enhance natural, historic and built environmental assets, and to promote ecosystem services, green infrastructure and geodiversity. This strategy identifies a combination of measures from maximising green infrastructure and network creation in allocated sites to the designation of LNRs and CWS, conserving statutory and non-statutory nature conservation and wildlife sites (particularly the Exe Estuary and East Devon Pebblebed Heaths) and areas of value. The strategy strongly promotes contribution to or creation of new networks of greenspace.
- 3.50 Spatial Strategy 7 relates to Development in the Countryside, which (except where specific Local or Neighbourhood Plan policy explicitly permits) prevents development that would harm the landscape, amenity or environmental qualities within which it is located. This includes ‘traditional field boundaries’ and ‘areas of importance for nature conservation’.
- 3.51 Spatial Strategy 47 relates to Nature Conservation and Geology. Under this strategy, all developments need to (1) conserve the biodiversity and geodiversity value of land and buildings and minimise fragmentation of habitats; (2) maximise opportunities for restoration, enhancement and connection of natural habitats; and (3) incorporate beneficial biodiversity conservation features. A key focus of Strategy 47 is the protection of internationally and nationally designated sites. It includes specific policies relating to the Exe Estuary and the Pebblebed Heaths (and Dawlish Warren in Teignbridge), for which an over-arching strategic approach has been established in respect of increased recreational pressures and habitat mitigation that “*will typically negate the need for residential development schemes to be subject to individual Appropriate Assessment*”. “*Through this strategic approach monies collected through CIL, negotiated separately through Section 106 agreements or potentially otherwise paid or contributed through other means will address mitigation requirements.*”
- 3.52 Strategy 47 details SANGS provision as follows “*On-site mitigation measures are likely to be most appropriate in the very early years of the Local plan’s life. Off-site provision in the form of SANGS should aim for a target level of provision of around 8 hectares of open space provision for every net new 1,000 residents accommodated through development. At a residential density averaged at 2.2 persons per each new home built this will equate to around 176sqm of SANGS space per each net extra dwelling. However actual space standards will depend on the quality, character and*

location of provision. SANGS will need to include substantial open space areas ideally of semi-natural character and should specifically be appealing to dog walkers. They can utilise land previously inaccessible to the public or arise from improvements of currently accessible but under-used spaces. To help ensure and secure timely delivery of mitigation, specifically SANGS, the Council has the option of exercising Compulsory Purchase Order powers to ensure availability of land."

- 3.53 Additional mitigation measures relating to the internationally and nationally designated wildlife sites include a moratorium on any residential development within 400m of the East Devon Pebblebed Heaths and a requirement that new development within 400m of the Exe Estuary should be subject to a project level assessment to check for potential impacts on roost sites or key areas for birds outside the SPA boundary.
- 3.54 In addition to the Spatial Strategies, the Local Plan includes a comprehensive suite of Development Management Policies that provide more detail on the implementation and application of the strategic policies in the Local Plan. Of particular relevance to natural assets and the natural environment are the following:
- D1 Design and Local Distinctiveness
 - D3 Trees and Development Sites
 - EN2 The Valley Parks in Exmouth
 - EN4 Protection of Local Nature Reserves, County Wildlife Sites and County Geological Sites
 - EN5 Wildlife Habitats and Features
 - EN14 Control of Pollution
 - EN18 Maintenance of Water Quality and Quantity
 - EN21 River and Coastal Flooding
 - EN22 Surface Run-off Implications of New Development

Biodiversity Initiatives and Strategies

Local Biodiversity Action Plans (BAP)

- 3.55 The Devon BAP ⁵ covers a number of local district, unitary authority or planning area, such as the two National Park Authorities (Dartmoor and Exmoor), some but not all of which have local BAPs. Consequently, as a joint BAP, not all local priority habitats or species may be of direct relevance to each sub-county area. The relationship between sub-county local BAPs and the Devon BAP is not strictly hierarchical.
- 3.56 The Devon priority habitats include:

Land:

- Alder/willow wet woodland
- Caves, karst and limestone habitats
- Cities, towns and villages
- Dynamic coastal landforms and habitats

Sea:

- Estuaries action plan
- Rocky Foreshore
- Rocky seabed

- Flower-rich meadows and pastures
 - Lowland heathland
 - Mines and mineral waste tip
 - Oak woodland
 - Parkland and wood pasture
 - Periglacial landscape
 - Pits, quarries & cuttings
 - Rhôs pasture
 - Sea Cliff and slope
 - Species-rich hedges
- Freshwater:
- Freshwater reedbed
 - Grazing marsh
 - Rivers, streams, floodplains and fluvial processes

3.57 The Devon priority species include:

- Plants:
- Golden hair lichen
 - Primrose
 - Devon whitebeam and related species
- Invertebrates:
- Freshwater pearl mussel
 - Great green bush-cricket
 - Marsh fritillary
 - Pearl-bordered fritillary
 - Pink seafan
 - Southern damselfly
 - White-clawed crayfish
- Birds:
- Barn owl
 - Cirl bunting
 - Curlew
 - Nightjar
- Fish:
- Atlantic salmon
- Mammals
- Brown hare
 - Greater horseshoe bat
 - Otter
 - Dormouse
 - Water vole

Nature Recovery Network

- 3.58 Habitat Network maps are produced by Natural England in response to the Lawton report (*Making Space for Nature, A review of England's Wildlife Sites and Ecological Network*³⁰).
- 3.59 These maps provide a useful baseline for the development of a Nature Recovery Network (NRN) as required within the 25 Year Environment Plan and for LRNS proposed within the Environment Act.
- 3.60 The Habitat Network maps in conjunction with other datasets and local knowledge can identify opportunities for biodiversity action. The Habitat Network comprises (a) Existing Habitats (HPI and associated habitats) and (b) Network Enhancement and Expansion Zones. These latter zones include:
- Network Enhancement Zone 1: Land connecting existing habitats which is likely to be suitable for habitat creation. Action in this zone to expand and join up existing habitat patches and improve the connections between them can be targeted here.
 - Network Enhancement Zone 2: Land connecting existing habitats which is less likely to be suitable for habitat creation. Action in this zone that improves the biodiversity

³⁰ Lawton, J.H., Brotherton, P.N.M., Brown, V.K., Elphick, C., Fitter, A.H., Forshaw, J., Haddow, R.W., Hilborne, S., Leafe, R.N., Mace, G.M., Southgate, M.P., Sutherland, W.A., Tew, T.E., Varley, J., & Wynne, G.R. (2010) *Making Space for Nature: a review of England's wildlife sites and ecological network*. Report to Defra

value through land management changes and/or green infrastructure provision can be targeted here.

- Fragmentation Action Zone: Land within Enhancement Zone 1 that connects existing habitats patches which are currently highly fragmented and where fragmentation could be reduced by habitat creation.
- Network Expansion Zone: Land beyond the Network Enhancement Zones with potential for expanding, linking/joining networks across the landscape.

4.0 Wildlife Sites

Statutory Sites

4.1 Internationally significant statutory wildlife designations within 10km are illustrated on Drawings G9631.002, 003 and 004 for Options 1, 2 and 3, respectively. Nationally significant statutory wildlife sites within 5km are illustrated on Drawings G9631.005, 006 and 007 for Options 1, 2 and 3, respectively. Regionally or locally significant statutory wildlife sites within 5km are illustrated on Drawings G9631.011, 012 and 013 for Options 1, 2 and 3, respectively. These statutory wildlife sites are summarised in Table 2 below. Distances are calculated between the closest points. Distances cited are approximate. Links to data forms and citations are provided, where applicable.

Table 2: Statutory wildlife sites

Site Name	Designation & Citation Link	Distance from Option			Reason for Designation
		1	2	3	
Statutory wildlife sites of international significance within 10km of Option 1 (Drawing G9631.002), Option 2 (Drawing G9631.003), and Option 3 (Drawing G9631.004)					
East Devon Pebblebed Heaths	SAC (ref UK0012602) JNCC Data Form Link	2.8km east/south east	1.6km east/south east	2.3km east	Annex I habitats that are a primary reason for selection: <ul style="list-style-type: none"> 4010 Northern Atlantic wet heaths with <i>Erica tetralix</i> 4030 European dry heaths Annex I habitats present as a qualifying feature but not a primary reason for selection: <ul style="list-style-type: none"> n/a Annex II species that are a primary reason for selection: <ul style="list-style-type: none"> 1044 Southern damselfly <i>Coenagrion mercurial</i> Annex II species present as a qualifying feature but not a primary reason for selection: <ul style="list-style-type: none"> n/a
East Devon Heaths	SPA (ref UK9010121) Standard Data Form Link	2.8km east/south east	1.6km east/south east	2.3km east	Article 4.1 qualifying species: <ul style="list-style-type: none"> <i>Caprimulgus europaeus</i> (breeding) <i>Sylvia undata</i> (breeding)
Exe Estuary	SPA (ref UK9010081) Standard Data Form Link	2.9km south west	2.9km south west	0.4km west	Article 4.1 qualifying species: <ul style="list-style-type: none"> <i>Podiceps auritus</i> (wintering) <i>Recurvirostra avosetta</i> (breeding) Article 4.2 qualifying species: <ul style="list-style-type: none"> <i>Branta bernicla bernicla</i> (wintering) <i>Calidris alpina alpina</i> (wintering) <i>Haematopus ostralegus</i> (wintering) <i>Limosa limosa islandica</i> (breeding) <i>Pluvialis squatarola</i> (winter) Article 4.2 qualifying assemblage: <ul style="list-style-type: none"> <i>Podiceps auritus</i>, <i>Branta bernicla bernicla</i>, <i>Haematopus ostralegus</i>, <i>Recurvirostra avosetta</i>, <i>Pluvialis squatarola</i>, <i>Calidris alpina alpina</i>, <i>Limosa limosa islandica</i>

Site Name	Designation & Citation Link	Distance from Option			Reason for Designation
		1	2	3	
Exe Estuary	Ramsar (ref UK11025) Information Sheet (RIS) Link	2.9km south west	2.9km south west	0.4km west	<p>Ramsar Criterion 5:</p> <ul style="list-style-type: none"> Waterfowl assemblage <p>Ramsar Criterion 6 – qualifying species</p> <ul style="list-style-type: none"> <i>Branta bernicla bernicla</i> (wintering) <p>Ramsar Criterion 6 – future consideration</p> <ul style="list-style-type: none"> <i>Limosa limosa islandica</i> (wintering) <p>Noteworthy flora:</p> <ul style="list-style-type: none"> Sand crocus <i>Romulea columnae</i> Parsley water dropwort <i>Oenanthe lachenalii</i> Flowering rush <i>Butomus umbellatus</i> Eelgrass <i>Zostera spp.</i> <p>Noteworthy fauna:</p> <ul style="list-style-type: none"> <i>Sterna albifrons albifrons</i> (breeding) <i>Egretta garzetta</i> (spring/autumn) <i>Numenius phaeopus</i> (spring/autumn) <i>Tringa nebularia</i> (spring/autumn) <i>Mergus serrator</i> (wintering) <i>Rallus aquaticus</i> (wintering) <i>Rallus aquaticus</i> (wintering) <i>Tringa erythropus</i> (wintering) <p>Species Information:</p> <ul style="list-style-type: none"> Ruddy darter <i>Sympetrum sanguinum</i> Hairy dragonfly <i>Brachyton pratense</i>. <i>Ophelia bicornis</i>
Dawlish Warren	SAC (ref UK0030130) JNCC Data Form Link	>10km south	9.4km south	7.1km south	<p>Annex I habitats that are a primary reason for selection:</p> <ul style="list-style-type: none"> 2190 Humid dune slacks <p>Annex I habitats present as a qualifying feature but not a primary reason for selection:</p> <ul style="list-style-type: none"> 2120 "Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes")" 2130 "Fixed coastal dunes with herbaceous vegetation ("grey dunes")" * Priority feature <p>Annex II species that are a primary reason for selection:</p> <ul style="list-style-type: none"> 1395 Petalwort <i>Petalophyllum ralfsii</i> <p>Annex II species present as a qualifying feature but not a primary reason for selection:</p> <ul style="list-style-type: none"> n/a
Statutory wildlife sites of national significance within 5km of Option 1 (Drawing G9631.005), Option 2 (Drawing G9631.006), and Option 3 (Drawing G9631.007)					
East Devon Pebblebed Heaths	SSSI (ref 1001461) Citation 1004364	2.8km east/south east	1.6km east/south east	2.3km east	This is the largest block of lowland heath in Devon. It is a nationally important representative of the inland Atlantic-climate, lowland heathlands of Britain and north-west Europe. A significant feature of the site is the diversity of heathland associated communities, related to its large area and the range of substrate and topography. It also supports a wide range of birds (>70 breeding species, notably nightjar, hobby and Dartford warbler) and invertebrates (21 breeding

Site Name	Designation & Citation Link	Distance from Option			Reason for Designation
		1	2	3	
					dragonfly species including small red damselfly, southern damselfly and downy emerald damselfly in addition to the bog bush cricket).
Exe Estuary	SSSI (ref 1001136) Citation 1002089	2.9km south west	2.9km south west	0.4km west	The waters, foreshore and low-lying land of the Exe Estuary are of international importance for wintering wildfowl (>10,000) and waders (>20,000). Many rare species of plant occur too, whilst the sandbanks and mudflats support communities of invertebrates that are of national significance. The site also contains key features of geological interest and has been the subject of considerable scientific research.
Dawlish Warren	SSSI (ref 1001161) Citation 1003137	>10km south	>5km south	>5km south	An area of international importance for several species of wildfowl and wading birds. It is particularly noted for its flora (orchids and the only mainland British population of the Warren crocus <i>Romulea columnae</i> var <i>occidentalis</i>) and over-wintering and migratory bird populations. Saltmarsh flora includes eelgrass <i>Zostera</i> spp, provides particularly important food for wildfowl. Several insects recorded with limited mainland distribution including the sand wasp <i>Ammophila sabulosa</i> .
Pebblebed Heaths	NNR (ref 1460452) Link	2.8km east/south east	1.6km east/south east	2.3km east	Pebblebed Heaths is the largest block of lowland heath in Devon. It's an internationally important representative of the inland Atlantic-climate, lowland heathlands of Britain and north-west Europe. The NNR is managed by Clinton Devon Estates, the Pebblebed Heaths Conservation Trust, RSPB and Devon Wildlife Trust. A significant feature of the site is the diversity of heathland-associated plant and animal communities that reflect the varied topography, geology, hydrology and water chemistry of the area. The majority of this NNR is also designated as site of special scientific interest (SSSI), special area of conservation (SAC), special protection area (SPA), and forms part of the landscape of the East Devon Area of Outstanding Natural Beauty (AONB).
Dawlish Warren	NNR (ref 1007657) Link	>5km south	>5km south	>5km south	Dawlish Warren NNR includes the full range of coastal habitats, from mudflats to sand dunes. The reserve provides shelter and food for up to 12,000 wading birds and also helps to protect the Exe Estuary from wave action, which is particularly important during storm events. Dawlish Warren is jointly owned and managed by Teignbridge District Council and the Devon Wildlife Trust.
Statutory wildlife sites of regional/local significance within 5km of Option 1 (Drawing G9631.008), Option 2 (Drawing G9631.009), and Option 3 (Drawing G9631.010)					
Exmouth	LNR (ref 1008887) Link	>5km south	>5km south	4.3km south	The site is good for passage and wintering estuary bird and has a flower-rich bankside in summer. It is important for invertebrates. Owned and managed by East Devon District Council

- 4.2 Option 1 overlaps with five SSSI IRZ (A, B, C, D and F illustrated in Figure 2). Proposals relevant to the risk thresholds (applying fully or partially across the Option) include aviation, wind turbines, minerals/ROMPs, residential development 50+ units, non-residential development >1ha, air pollution, combustion, waste and discharges.
- 4.3 Option 2 overlaps five SSSI IRZ (B, C, D, E and F illustrated in Figure 2). Proposals relevant to the risk thresholds (applying fully or partially across the Option) include aviation, wind turbines and solar >0.5ha, minerals/ROMPs, residential development 50+ units, non-residential development >1ha, air pollution, combustion, composting >75kt, waste and discharges.
- 4.4 Option 3 overlaps six SSSI IRZ (B, D, F, G, H, and I illustrated in Figure 2). Proposals relevant to the risk thresholds (applying fully or partially across the Option) include aviation, pipelines/cables, any transport (road/rail/water), wind turbines and solar >0.5ha, minerals/ROMPs, residential development 50+/1+/any units, non-residential development >1ha/0.2ha, air pollution, combustion, composting, waste and discharges.
- 4.5 All IRZs overlapping the three options apply “Strategic solutions” (Note 1 in Table 3). These relate to the Recreational Buffer Zones applied to the Exe Estuary and East Devon Pebblebed Heaths. In both cases, the buffer zone applied is 10km. Part of Option 2 and the majority of Option 3 are also within 10km of Dawlish Warren. Spatial Strategy 47 of the East Devon Local Plan 2013-2031 adopted January 2016 applies. Further details are discussed in Section 3 (paragraphs 3.51 to 3.53).

Figure 2: SSSI Impact Risk Zones crossed by the options (refer to Table 3 for IRZ criteria)

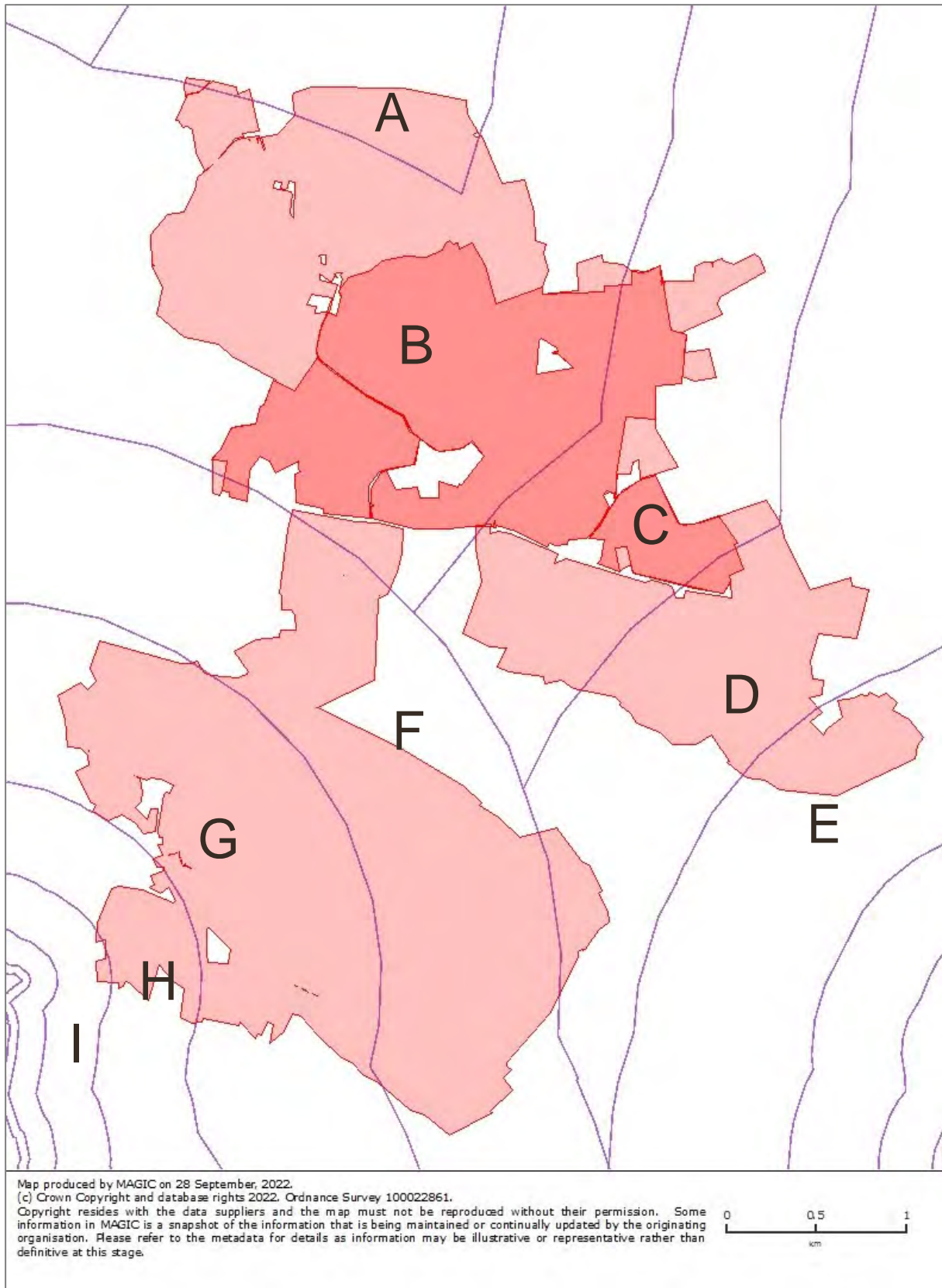


Table 3: SSSI Impact Risk Zones crossed by the options

1. DOES PLANNING PROPOSAL FALL INTO ONE OR MORE OF THE CATEGORIES BELOW?

2. IF YES, CHECK THE CORRESPONDING DESCRIPTION(S) BELOW. LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:

1 PROPOSAL	2 LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:								
IRZ	A	B	C	D	E	F	G	H	I
Option	1	1,2,3	1,2	1,2, 3	2	1,2,3	3	3	3
All Planning Applications	-	-	-	-	-	-	-	-	All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/ structures.
Infrastructure	Airports, helipads and other aviation proposals.	Airports, helipads and other aviation proposals.	Airports, helipads and other aviation proposals.	Airports, helipads and other aviation proposals.	Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.	Airports, helipads and other aviation proposals.	Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.	Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.	Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.
Wind & Solar Energy	-	-	-	Wind turbines.	Solar schemes with footprint > 0.5ha, all wind turbines.	Wind turbines.	Solar schemes with footprint > 0.5ha, all wind turbines.	Solar schemes with footprint > 0.5ha, all wind turbines.	Solar schemes with footprint > 0.5ha, all wind turbines.

1 PROPOSAL	2 LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:								
IRZ	A	B	C	D	E	F	G	H	I
Option	1	1,2,3	1,2	1,2, 3	2	1,2,3	3	3	3
Minerals, Oil & Gas	-	-	-	Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.	Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.	Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.	Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.	Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.	Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.
Rural Non-Residential	-	-	-	-	Large non-residential developments outside existing settlements/urban areas where footprint exceeds 1ha.	-	Large non-residential developments outside existing settlements/urban areas where footprint exceeds 1ha.	Large non-residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m ² or footprint exceeds 0.2ha.	Large non-residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m ² or footprint exceeds 0.2ha.
Residential	-	-	-	-	Residential development of 50 units or more.	-	Residential development of 50 units or more.	Residential development of 50 units or more.	Residential development of 50 units or more.
Rural Residential	-	-	-	-	Any residential development of 50 or more houses outside existing settlements/urban areas.	-	Any residential development of 50 or more houses outside existing settlements/urban areas.	Any residential development of 10 or more houses outside existing settlements/urban areas.	Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.

1 PROPOSAL 2 LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:									
IRZ	A	B	C	D	E	F	G	H	I
Option	1	1,2,3	1,2	1,2, 3	2	1,2,3	3	3	3
Air Pollution	Livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 4000m ² .	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 750m ² , manure stores > 3500t).	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 750m ² , manure stores > 3500t).	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 750m ² , manure stores > 3500t).	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 200m ² , manure stores > 250t).	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 750m ² , manure stores > 3500t).	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 200m ² , manure stores > 250t).	Any industrial/ agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 200m ² , manure stores > 250t).	Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).
Combustion	General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.	All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/ gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

1 PROPOSAL	2 LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:									
IRZ	A	B	C	D	E	F	G	H	I	
Option	1	1,2,3	1,2	1,2, 3	2	1,2,3	3	3	3	
Waste	-	-	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.	Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.
Composting	-	-	-	-	Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.	-	Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.	Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.	Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.	Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.
Discharges	Any discharge of water or liquid waste of more than 20m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 20m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 20m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 20m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 20m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 20m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 5m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 5m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste of more than 2m ³ /day to ground (i.e., to seep away) or to surface water, such as a beck or stream.	Any discharge of water or liquid waste that is discharged to ground (i.e., to seep away) or to surface water, such as a beck or stream.

1 PROPOSAL	2 LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:								
IRZ	A	B	C	D	E	F	G	H	I
Option	1	1,2,3	1,2	1,2, 3	2	1,2,3	3	3	3
Water Supply	-	-	-	-	Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m ² or more.	-	Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m ² or more.	Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m ² or any development needing its own water supply.	Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m ² or any development needing its own water supply.
Notes 1	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.	Strategic solutions are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.

GUIDANCE - *How to use the impact guidance*

Non-Statutory Wildlife Sites

- 4.6 Table 4 summarises the non-statutory locally designated wildlife sites identified within 5km (in respect of sites designated for bird life) or 1km (for other wildlife sites) of the option areas. Distances are calculated between the closest points. Distances cited are approximate.
- 4.7 Data relating to local wildlife sites, comprising County Wildlife Sites (CWS), Other Sites of Wildlife Interest (OSWI), Unconfirmed Wildlife Sites (UWS), Valley Parks, Green Spaces and Special Verge Sites, were provided by DBRC. These sites, in so far as they fall within 1km of the option areas, are illustrated at Drawings G9631.041, 042 and 043 for Options 1, 2 and 3, respectively.

Table 4: non-statutory local wildlife sites

Site Name	Status	Distance from Option			Key Interest Feature(s)
		1	2	3	
Exe Estuary	RSPB reserve	3.1km south west	3.1km south west	0.6km west	Components within Exe Estuary SPA/Ramsar/SSSI
Aylesbeare Common	RSPB reserve	3.1km east	2km east	4.4km east	Components within East Devon Pebblebed Heaths SAC/SPA/NRR/SSSI (except for a small standalone component west of the B3180 which lies closest to all options)
Exe Estuary	Important Bird Area ³¹	1.4km west	1.4km west	0.3km west	Overlaps with Exe Estuary SPA/Ramsar/SSSI but extends further north along the estuary. A complex of habitats, extending over 10 km south from Exeter to the open sea at Dawlish Warren. Broad intertidal flats and grazing-marshes are the dominant habitats. Extensive mussel, eelgrass <i>Zostera</i> and algal beds and a sand-spit further increase the habitat diversity. The site is important for wintering and passage wildfowl and waders, and for breeding <i>Cettia cetti</i> . Populations of IBA trigger species: <ul style="list-style-type: none"> ■ Horned grebe <i>Podiceps auritus</i> ■ Pied avocet <i>Recurvirostra avosetta</i> ■ Bar-tailed godwit <i>Limosa lapponica</i> ■ Black-tailed godwit <i>Limosa limosa</i> ■ Species group - waterbirds
East Devon Heaths	Important Bird Area ³²	2.8km east/south east	1.6km east/south east	2.3km east	Overlaps with East Devon Pebblebed Heaths SAC/SPA/NRR/SSSI. These areas form the largest blocks of lowland heath in Devon. The site supports a range of breeding heathland birds. Populations of IBA trigger species: <ul style="list-style-type: none"> ■ European nightjar <i>Caprimulgus europaeus</i> ■ Dartford Warbler <i>Curruca undata</i>

³¹ BirdLife International (2022) Important Bird Areas factsheet: Exe Estuary <http://www.birdlife.org> [Accessed October 2022].

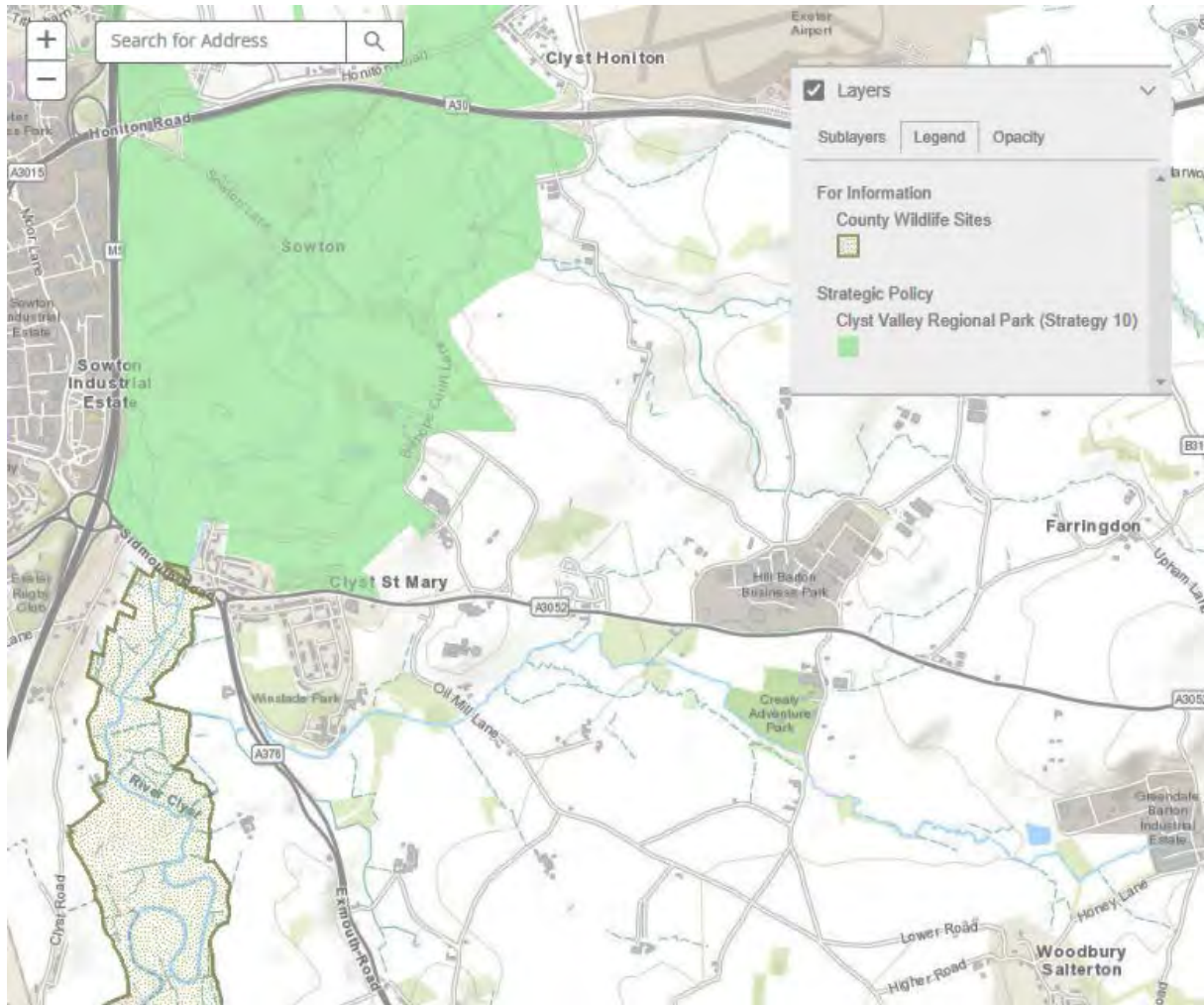
³² BirdLife International (2022) Important Bird Areas factsheet: East Devon Heaths <http://www.birdlife.org> [Accessed October 2022].

Site Name	Status	Distance from Option			Key Interest Feature(s)
		1	2	3	
Clyst Marshes	CWS	>1km south west	>1km south west	0.5km west	Semi-improved marshy grassland, saltmarsh, riverside vegetation and species-rich ditches
Rockham Wood	CWS	0.5km south east	>1km south east	>1km east	Ancient and non-ancient lowland mixed deciduous woodland
Hogsbrook Wood	CWS	>1km south east	0.3km south	>1km east	Ancient semi-natural woodland
Beautiport Farm	CWS	>1km north east	0.9km north east	>1km north east	Unimproved neutral grassland
Farringdon School	CWS	0.4km east	0.2km east	>1km north east	Abandoned swimming pool with amphibian interest
Beautiport	CWS	0.9km north east	0.8km north east	>1km north east	Small ponds with amphibian interest
Bishop's Court Pond	OSWI	0.4km west	0.8km west	>1km north west	Parkland lake
Sowton - Winslade Park Marshes	OSWI	0.5km west	0.9km west	>1km north west	Floodplain grazing marsh
Venn's Marsh	OSWI	Adjacent	>1km west	>1km north west	Floodplain grazing marsh
Broadclyst Moor - Dymond's Bridge Marsh	OSWI	0.1km north	>1km north west	>1km north	Floodplain grazing marsh
Trixhayes Farm	OSWI	0.4km east	>1km east	>1km east	Semi-improved neutral grassland
Exeter Airport	OSWI	0.7km north east	>1km north	>1km north	Marshy grassland
Cat Copse	UWS	Fully within option	Fully within option	0.4km north	Secondary woodland
Dymond's Bridge Orchard	UWS	Fully within option	0.7km west	>1km north	Orchard
Sowton - Winslade Park Marshes	UWS	0.4km west	0.9km west	0.5km north west	Possible floodplain grazing marsh
Venn's Marsh	UWS	Adjacent	1km west	>1km north west	Possible floodplain grazing marsh
Broadclyst Moor - Dymond's Bridge Marsh	UWS	Partly within option	1km west	>1km north west	Possible floodplain grazing marsh

Site Name	Status	Distance from Option			Key Interest Feature(s)
		1	2	3	
Bishop's Court	pCWS	Adjacent	0.7km west	>1km north west	Parkland with veteran trees
Farringdon Wood	UWS	Adjacent	Partly within option	>1km north east	Secondary woodland
Great Covert	UWS	0.9km north east	0.3km north east	>1km north east	Secondary woodland
Farringdon	UWS	Adjacent	Partly within option	>1km north east	Parkland with veteran trees
Green Spaces	A	>1km south west	>1km south west	1km west	Semi-improved amenity grassland, trees (native and non-native), ponds, hedges. Survey card notes area is for invertebrates: dragonflies, butterflies, grasshoppers, crickets.
Green Spaces	A	>1km south west	>1km south west	1km west	Dense salt marsh. Buffers SSSI which is a continuation of this habitat. Habitat of principle importance but no species information.
Green Spaces	A	>1km south west	>1km south west	0.8km south west	Scrub, woodland. Semi-natural formation
Green Spaces	A	>1km south west	>1km south west	0.8km south west	Scrub, woodland. Semi-natural formation
Green Spaces	A	>1km south west	>1km south west	0.8km south west	Rough grassland, trees, scrub, urban. The banks of the railway line are steep in places with areas of semi-natural habitat.
Green Spaces	B	>1km south west	>1km south west	1km west	Conifer plantation
Exeter Riverside Valley Park	Valley Park	>1km south west	>1km south west	0.6km south west	Exe Valley with semi-improved neutral grassland, tidal estuary with mudflats, saltmarsh, reedbeds and marshy grassland
	Special Verge Site	>1km south west	>1km south west	0.01km west	

4.8 In addition to the above non-statutory sites, the EDDC Local Plan Interactive Map identifies land from north of the A30 to Sidmouth Road, and from east of Bishop's Court Road to the M5 (encompassing the corridor of local wildlife sites along the River Clyst), as allocated for delivery of The Clyst Valley Regional Park. Strategy 10 of the EDDC East Devon Local Plan 2013-2031 Adopted 28 January 2016 applies. The Park will be high quality green spaces linked by trails. Land to accommodate the Park is allocated on the Proposals Map. An extract of the EDDC Local Plan Interactive Map is presented at Figure 3.

Figure 3: Extract of EDDC Local Plan Interactive Map [Accessed 05/10/2022]



4.9 This proposed Valley Park includes land within Option 1, in the west (east of Bishop's Court Road) and north (south of the A30, west of Bishop's Court Road).

5.0 Notable Habitats

Irreplaceable Habitats

- 5.1 No ancient woodland is identified within any option areas.
- 5.2 The landscape across Farringdon UWS, adjacent to Option 1 in the east, and Bishop's Court UWS adjacent to Option 1 in the west, are indicated to comprise parkland with veteran trees (Table 4).
- 5.3 Data relating to Tree Preservation Orders (TPO) was not available at the time of writing. The Woodland Trust ancient tree inventory³³ was reviewed. This identified two potential veteran trees and two potential notable trees along Bishop's Court Lane (west boundary of Option 1). These are mainly pedunculate oak with one Turkey oak. Numerous ancient, veteran and notable trees were identified on the inventory across parkland west of Bishops Court Lane (to the west of Option 1). Two ancient trees (Anne's Great Oak and a lime) were identified on the inventory which appear to be associated with Farringdon UWS, in a field adjacent to Option 2 to the east, and slightly further east of Option 1. The inventory also identifies a notable tree (a giant sequoia) adjacent to Option 3, in Clyst St George north of Woodbury Road.

Habitats of Principal Importance (HPI)

- 5.4 HPI within Option 1 are illustrated on Drawing G9631.017. The only potential areas of pre-recorded habitats identified as HPI listed on Natural England's Priority Habitat Inventory are small areas of traditional orchard at Dymond's Farm (Dymond's Bridge Orchard UWS), woodlands (including Cats Copse UWS) and grassland (part of Broadclyst Moor-Dymond's Bridge Marsh UWS).
- 5.5 A major habitat corridor links local wildlife sites along the River Clyst (east of the M5 and west of Option 1) comprises floodplain grazing marsh (HPI and DBAP) and range of other wetland and woodland HPI associated with the river. A small area of floodplain grazing marsh overlaps with Option 1 in the north, associated with Broadclyst Moor-Dymond's Bridge Marsh UWS which partially overlaps the option.
- 5.6 A number of watercourses and ponds are identified on OS maps within the Option area. Aylesbeare Stream flows across the site to the River Clyst in the west and a number of other tributaries and small streams/drains are present. Most watercourses appear wooded along significant lengths or are at least associated with lines of trees.
- 5.7 Aerial imagery (Google Earth) indicates the Option area comprises primarily agricultural land with an extensive hedgerow network, some orchard (e.g., Bishop's Court Orchard UWS) and pockets of woodland and scattered trees. Cat's Copse UWS is the most significant area of woodland within the Option, in addition to the tree lined watercourses crossing the option area (most notably, Aylesbeare Stream in the

³³ <https://ati.woodlandtrust.org.uk/> [Accessed 05/10/2022]

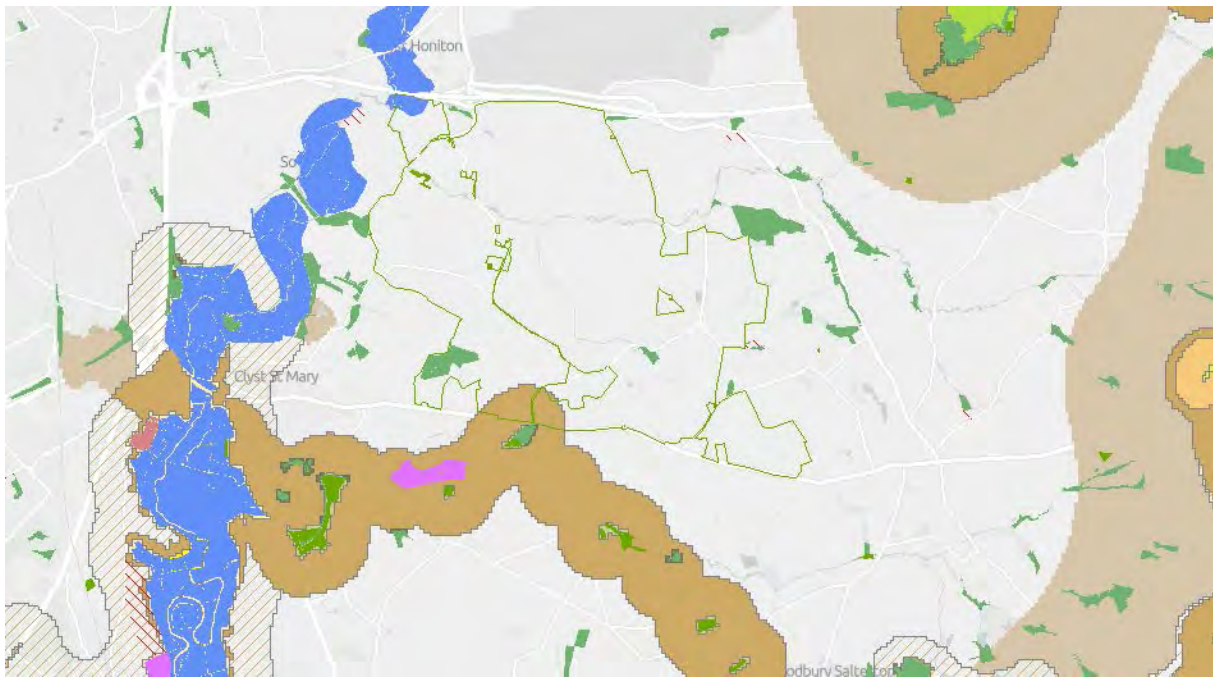
north). The whole of Option 1 falls within an area of landscape characterised by elm-dominated hedgerows.

- 5.8 HPI within Option 2 are illustrated on Drawing G9631.018. Option 2 contains similar habitat types to Option 1, except no floodplain grazing marsh or traditional orchard are recorded on the Priority Habitat Inventory within the option boundary. Cats Copse UWS is again the most substantial area of woodland within the option. The landscape across Farringdon UWS, partly overlapping Option 2 in the northeast is indicated to comprise woodpasture and parkland HPI. The UWS description provided by DBRC indicates the presence of veteran trees (although as noted above, the two ancient trees identified on the Woodland Trust's ancient tree inventory are to the east of the option boundary).
- 5.9 Aerial imagery (Google Earth) indicates Option 2 comprises primarily agricultural land with an extensive hedgerow network and pockets of woodland and scattered trees. The whole of Option 2 is within an area of landscape characterised by elm-dominated hedgerows.
- 5.10 A number of small watercourses criss-cross the Option area, most are likely to feed Aylesbeare Stream (north) or Grindle Brook (south). Numerous ponds are identified on OS maps within and around the Option area.
- 5.11 HPI within Option 3 are illustrated on Drawing G9631.019. Pre-recorded HPI listed on Natural England's Priority Habitat Inventory within Option 3 appears limited to small pockets of woodlands and two small areas of traditional orchard (south of the A3052 and at Postlake Farm) (Drawing G9631.019).
- 5.12 Aerial imagery (Google Earth) indicates the site comprises primarily agricultural land with an extensive hedgerow network and pockets of woodland and scattered trees. The whole site falls within an area of landscape characterised by elm-dominated hedgerows. At a high level, field sizes appear smaller with a higher proportion of tree lines along field boundaries in the northern extent of the east of Option 3.
- 5.13 Grindle Brook crosses Option 3 in the far north, with numerous other small watercourses/drains crossing the Option area and likely to feed either Grindle Brook (north) or the River Clyst (west). Few ponds are identified on OS maps within the Option area, but numerous ponds are shown around the option area particularly to the east and the south.

Nature Recovery Network

- 5.14 Aside from the major habitat corridor in the west, a corridor running east-west to the south edge of Option 1 is identified within the Network Enhancement Zone 1 of the Habitat Network (Figure 4). A small proportion of the south of this enhancement zone corridor overlaps with Option 1 in the south.

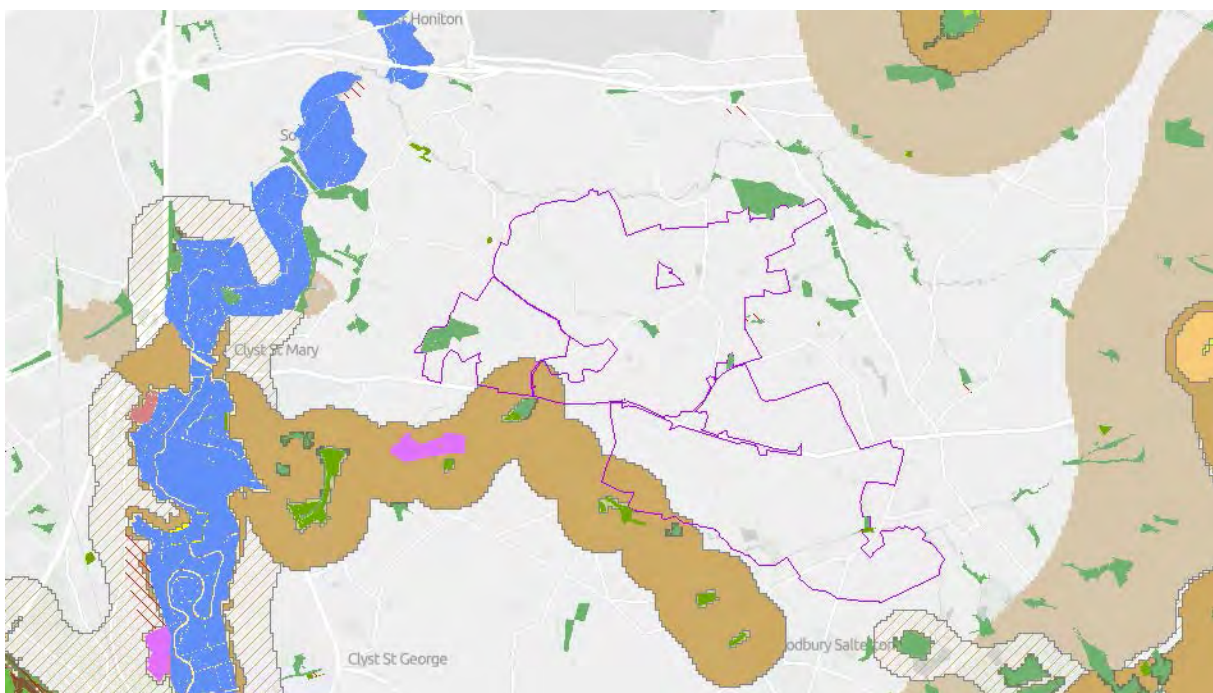
Figure 4: Option 1 position within the ecological network (Habitats of Principal Importance and National Habitat Network Combined)



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5.15 A small proportion in the south and west of Option 2 overlaps with Network Enhancement Zone 1 of the Habitat Network (Figure 5).

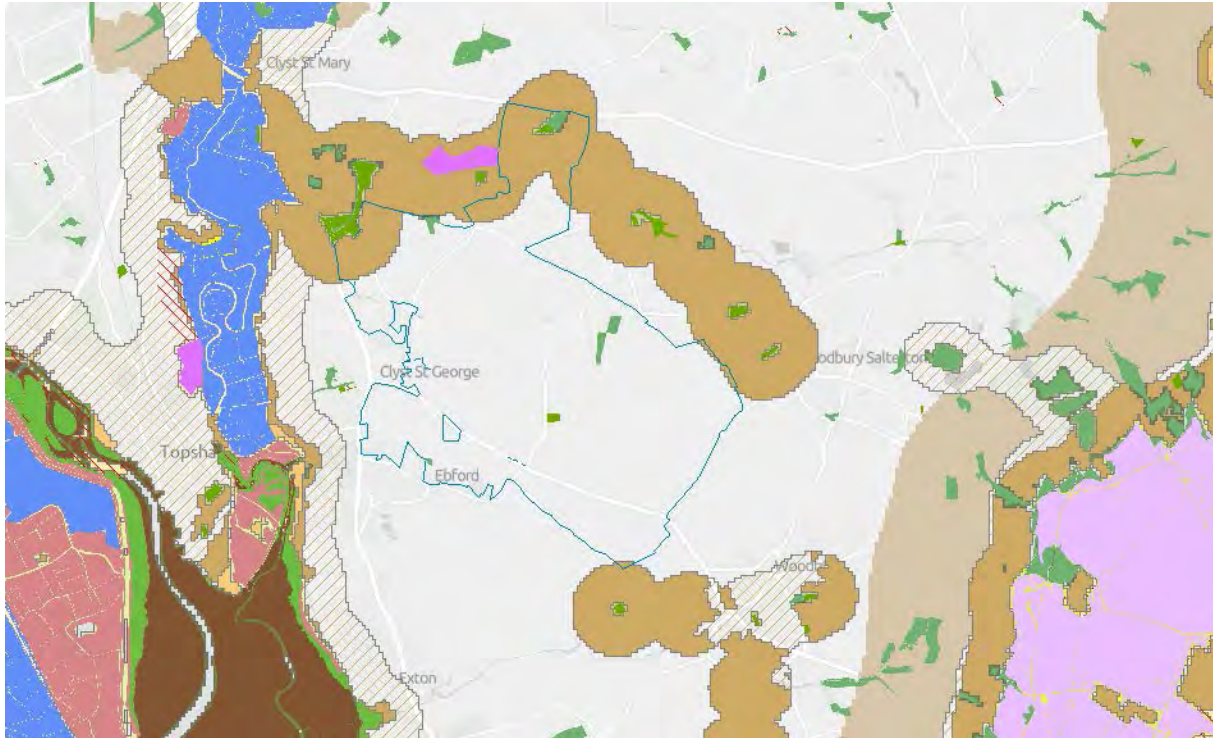
Figure 5: Option 2 position within the ecological network (Habitats of Principal Importance and National Habitat Network Combined)



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- 5.16 The north and northwest of Option 3 overlap with Network Enhancement Zone 1 of the Habitat Network (Figure 6).

Figure 6: Option 3 position within the ecological network (Habitats of Principal Importance and National Habitat Network Combined)



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- 5.17 The National Habitat Network is also displayed with HPI on Drawings G9631.017 to G9631.019 for Options 1 to 3, respectively.

6.0 Protected and Notable Species

Protected Species Licences

- 6.1 Two Natural England mitigation licences for hazel dormouse have been granted adjacent to Option 1 (Drawings G9631.020) in the north (along the A30). The licences data from 2014 to 2019 and from 2019 to 2022.
- 6.2 Two Natural England mitigation licences have been granted within the northwest of Option 3 (around Court Brook Farm and Amberleigh House and dating from 2017 to 2022 and 2013 to 2014, respectively). Species included under these licences were brown long-eared bat, lesser horseshoe, common pipistrelle and serotine.
- 6.3 Several other licences have been granted in the surrounding landscape, for either hazel dormouse or bat species (Drawings G9631.020 to G9631.023).
- 6.4 No Natural England mitigation licences were identified within the search area for GCN. One GCN Class Survey Licence Return was identified from Farringdon House, within 250m east of Option 2 and within 500m east of Option 1. Two other positive GCN licence return records were identified within 5km northeast of Option 1 and southeast of Option 3.

Pre-existing Species Records

- 6.5 Numerous species records were returned from the 1km search areas in and around the three options. Drawings G9631.023 to G9631.040 present the species records data for Options 1 to 3, with accompanying data tables which cross-reference the record identifiers. Species records returned from within 1km of the Option areas are summarised in Table 5.
- 6.6 Option 1 recorded 12 Devon notable flora species within 1km and two non-native invasive species (Drawing G9631.023), although none were recorded actually within the Option area (total of 16 flora records). No Important Plant Areas were identified within 10km. The Summarised Botanical Value Map 2021 (BSBI) indicates the majority of the Option area is of moderate value (northwest) to low value (southeast). High value areas are located west of the Option area to the M5 and south of the A3052 (Creely Cross and Honey Lane). This distribution broadly accords with the combinations of statutorily and non-statutorily designated wildlife sites, priority habitats and the National Habitat Network.
- 6.7 Option 1 is fully within Devon GCN Consultation Zone. There are an estimated six waterbodies within Option 1 and an estimated seven waterbodies within 500m, most of which are to the southeast. GCN presence (EPS, WCA5, SPI) is confirmed likely within at least some of these waterbodies by licence returns from waterbodies located at Farringdon House, within 500m to the east, although no EPS mitigation licences were identified for GCN. A total of 14 records for four amphibian species, including GCN (EPS, SPI) and common toad (SPI) were identified within 1km of Option 1. Only

- one record (for common toad SPI) was within the option boundary (Drawing G9631.026).
- 6.8 Five records of two reptiles (WCA5, SPI) were identified within 1km of Option 1, although none within the Option area (Drawing G9631.026).
- 6.9 There were 41 records for 21 BoCC species recorded within 1km, including four Schedule 1 species. Two BoCC, including one Schedule 1 species, were recorded within the Option 1 (Drawing G9631.029). Land north of the A30 is indicated to be of potential importance or is targeted for cirl bunting conservation, although Option 1 is not located within the Cirl Bunting Consultation Zone.
- 6.10 A total 269 records for 10 bat species recorded within 1km of Option 1, although no records within the option boundary (Drawing G9631.032). Species recorded include Annex II species lesser and greater horseshoe and barbastelle. No EPS licences identified within the Option area, although 8 were identified within 1km, to the southwest, south and north.
- 6.11 Eight protected or notable other mammal species were recorded within 1km (Drawing G9631.035). Of these, badgers (PBA) are recorded within the site. Hazel dormouse (EPS, WCA5, SPI) is recorded from EPS licenses adjacent to Option 1 in the north (A30 corridor) and to the northwest of the Option area (Drawing G9631.020) with other records to the southwest and east (Drawing G9631.035).
- 6.12 A total 19 records for five protected/notable invertebrate species recorded within 1km, all Lepidoptera. Two species recorded from within site (Drawing G9631.038). Land to the west extent of Option 1 is identified as target area for brown hairstreak conservation measures.
- 6.13 One Devon notable flora species was recorded within Option 2. Nine Devon notable flora species and two non-native invasive species recorded within 1km (total of 17 flora records) (Drawing G9631.024). No Important Plant Areas are within 10km. The Summarised Botanical Value Map 2021 (BSBI) indicates the Option area is of moderate value (west) to low value (majority) with high value in the south (Honey Lane area).
- 6.14 Option 2 is fully within Devon GCN Consultation Zone. There are an estimated seven waterbodies within Option 2 and an estimated 16 waterbodies within 500m, most of which are to the southeast. GCN presence is confirmed likely through a positive survey licence return within 250m east of Option 1 (at Farringdon House. A total of 17 records for four amphibian species within 1km, including GCN (EPS, SPI) and common toad (SPI), although none identified within site (Drawing G9631.027).
- 6.15 Three records for two reptiles (SPI) recorded within 1km of Option 2, although none were within the option boundary.
- 6.16 A total 28 records for 18 BoCC species were recorded within 1km of Option 2, including six Schedule 1 species. Four BoCC (two Schedule 1) records originate within the option boundary (Drawing G9631.030). The southeast of Option 2 is indicated to be of potential importance or is targeted for turtle dove conservation.

- 6.17 A total 239 records for 10 bat species was recorded within 1km of Option 2, although no records were within the option boundary (Drawing G9631.032). Species recorded include Annex II species lesser and greater horseshoe and barbastelle. No EPS licences identified within the option area, although six were identified within 1km, mainly to the southwest (Drawing G9631.021).
- 6.18 There were 38 records for ten mammal species identified within 1km of Option 2, including hazel dormouse (EPS, SPI, DBAP) and otter (EPS, SPI, DBAP). Nine of these records for three species, including otter, are estimated to originate from within the option boundary (Drawing G9631.036). Three EPS licences for hazel dormouse were identified within 1km (Drawing G9631.021).
- 6.19 A total 101 records for 62 protected/notable invertebrate species were recorded within 1km of Option 2. The majority of records are Lepidoptera. Five records for two species originate from within the Option area (Drawing G9631.038). The west extent of Option 2 is identified as target area for brown hairstreak conservation measures.
- 6.20 There were 85 records of 39 protected or Devon notable flora species identified within 1km of Option 3, although none with the option boundary and the majority of the records appear to originate from the River Clyst corridor to the west (Drawing G9631.025). No Important Plant Areas were identified within 10km. The Summarised Botanical Value Map 2021 (BSBI) indicates Option 3 is of moderate value (northwest) to low value (southeast). High value areas are adjacent to the northwest, west and southwest.
- 6.21 Option 3 is fully within Devon GCN Consultation Zone. An estimated four waterbodies are within the option boundary and an estimated 14 waterbodies are within 500m, most of which are found within a high density pond cluster to the south. No EPS licences or licence returns confirming presence of GCN were identified within 1km of the Option area. A total of 7 records for 3 amphibians (including common toad SPI) were identified within 1km, although none within the option boundary (Drawing G9631.028).
- 6.22 There seven records for two reptile species (SPI) recorded within 1km of Option 3, but none within the option boundary (Drawing G9631.028).
- 6.23 Two fish records, one for sea lamprey (SPI) and one for European eel (SPI) were recorded within 1km to the west of Option 3, associated with River Clyst corridor.
- 6.24 A total 84 records for 58 BoCC species were identified within 1km of Option 3, including 16 Schedule 1 species. Seven records for six BoCC species (one Schedule 1) were within the option boundary (Drawing G9631.031). The Exe Estuary west of the Option area is identified to be an Important Bird Area which is the origin of the majority of records identified. The west of the Option area falls within the coverage of 'grassland bird assemblage', suggesting the landscape may be of importance for supporting grassland dependant farmland species (including lapwing and redshank) Although not within the Devon Cirl Bunting Consultation Zone, the option boundary is 0.45km north and 1.1km west of these consultation zones.

- 6.25 A total 208 records for 11 bat species were identified within 1km of Option 3, although none were within the option boundary (Drawing G9631.033). Species recorded included Annex II species lesser horseshoe and barbastelle. Two bat EPS licences (including lesser horseshoe bat, brown long-eared bat, common pipistrelle and serotine) appear to originate from within the option boundary in the west. A further seven were identified within 1km, mainly to the west (Drawing G9631.022). South Hams SAC Landscape Connectivity Zone for greater horseshoe bats is located approximately 5km to the southwest (west of the Exe Estuary).
- 6.26 A total 34 records for 10 mammal species were identified within 1km of Option 3, including hazel dormouse (EPS, SPI, DBAP) and otter (EPS, SPI, DBAP). Of these, 3 records for five species, including otter, appear to originate from within the option boundary (Drawing G9631.037). Three EPS licences for hazel dormouse were identified within 1km to the west and a fourth to the southeast (Drawing G9631.022).
- 6.27 There were 141 records for 70 protected or notable invertebrate species recorded within 1km, with 1-3 species potentially recorded from within site (Drawing G9631.038). The majority of these records were for Lepidoptera. The far northern extent of option area was identified as target area for brown hairstreak conservation measures.
- 6.28 Table 5 summarises the species records returned by DBRC and identifies which species were found in or within 1km of each option. The legislation and conservation status assigned by DBRC is presented for each species recorded; explanations to the abbreviations assigned by DBRC are provided below the table.

Table 5: Summary of pre-existing species records returned by DBRC within 1km of the options

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
Amphibian	4spp	4spp	3spp			
Common Frog	✓	✓	✓	EC Va; Bern III	WCA 5 (S)	
Common Toad	✓	✓	✓	Bern III	WCA 5 (S); NERC 41	UKBAP (P)
Great Crested Newt	✓	✓		EC IIa, IVa; Bern II	WCA 5; NERC 41	UKBAP (P)
Smooth Newt	✓	✓	✓	Bern III	WCA 5 (S)	
Bird	21spp	18spp	58spp			
Barn Owl	✓	✓	✓	Bern II	WCA 1, 9	DBAP
Black-Tailed Godwit			✓	NULL	WCA 1	Red
Black-throated Diver			✓	Bern II	WCA 1	UKBAP (P); Amber
Blue Tit	✓	✓		Bern II		
Brent Goose			✓			Amber
Bullfinch	✓	✓	✓		NERC 41	UKBAP (P); Amber
Cirl Bunting	✓	✓		Bern II	WCA 1; NERC 41	UKBAP (P); Special Species; DBAP; Red
Common Sandpiper			✓			Amber
Curlew			✓		NERC 41	UKBAP (P); DBAP; Red
Curlew Sandpiper			✓	Bern II		Amber

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
Dunlin			✓	Bern II		Red
Duncock			✓	Bern II		Amber
Eider			✓			Amber
Fieldfare			✓		WCA 1	Red
Grasshopper Warbler			✓		NERC 41	UKBAP (P); Red
Great Northern Diver			✓	Bern II	WCA 1	Amber
Green Sandpiper			✓	Bern II	WCA 1	Amber
Greenfinch	✓	✓		Bern II		Red
Greenshank			✓		WCA 1	Amber
Grey Plover			✓			Amber
Grey Wagtail	✓			Bern II		Amber
Herring Gull	✓	✓	✓			Red
Hoopoe	✓	✓		Bern II	WCA 1	
House Martin	✓	✓		Bern II		Red
House Sparrow			✓		NERC 41	UKBAP (P); Red
Kestrel	✓	✓	✓	Bern II		Amber
Kingfisher			✓		WCA 1	Amber
Lapwing			✓		NERC 41	UKBAP (P); Red
Lesser Spotted Woodpecker			✓	Bern II		Red
Little Egret			✓	Bern II		
Little Gull			✓		WCA 1	
Little Stint			✓	Bern II		
Long-tailed Duck			✓		WCA 1	Red
Mallard			✓			Amber
Meadow Pipit			✓	Bern II		Amber
Mediterranean Gull	✓	✓	✓	Bern II	WCA 1	Amber
Mistle Thrush			✓			Red
Montagu's Harrier		✓			WCA 1	Red
Moorhen	✓					Amber
Mute Swan			✓			Amber
Osprey			✓		WCA 1	Amber
Peregrine			✓	Bern II	WCA 1	
Red Kite	✓				WCA 1, 9	
Red-necked Grebe			✓			Red
Redshank			✓			Amber
Redwing	✓	✓	✓		WCA 1	Amber
Reed Bunting			✓	Bern II	NERC 41	UKBAP (P); Amber
Rook	✓					Amber
Ruff			✓		WCA 1	Red
Sanderling			✓	Bern II		Amber

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
Sedge Warbler			✓			Amber
Shelduck			✓	Bern II		Amber
Skylark	✓	✓	✓			UKBAP (P); Red
Slavonian Grebe			✓	Bern II	WCA 1	Red
Snipe	✓	✓	✓			Amber
Song Thrush	✓	✓	✓			UKBAP (P); Amber
Spotted Redshank			✓			Amber
Starling			✓			Red
Stonechat			✓	Bern II		NULL
Swift	✓	✓	✓			Red
Teal			✓			Amber
Turtle Dove		✓	✓		NERC 41	UKBAP (P); Red
Water Pipit			✓	Bern II		Amber
Water Rail			✓	Bonn II		NULL
Wheatear			✓	Bern II		Amber
Whinchat			✓	Bern II		Red; Special Species
Wigeon			✓			Amber
Woodpigeon	✓					Amber
Wren	✓			Bern II		Amber
Fish			2spp			
European Eel			✓	NULL	NERC 41	UKBAP (P)
Sea Lamprey			✓	NULL	NERC 41	NULL
Invertebrate	5spp	62spp	70spp			
August Thorn		✓	✓		NERC 41	UKBAP (P)
Autumnal Rustic		✓	✓		NERC 41	
Beaded Chestnut		✓	✓		NERC 41	UKBAP (P)
Black Oil-beetle			✓		NERC 41	UKBAP (P)
Bleached Pug		✓	✓			Nb
Blood-Vein		✓	✓		NERC 41	
Bloxworth Snout		✓	✓			RDB3
Brindled Beauty		✓	✓		NERC 41	UKBAP (P)
Buff Ermine		✓	✓		NERC 41	UKBAP (P)
Centre-barred Sallow		✓	✓		NERC 41	UKBAP (P)
Cinnabar		✓	✓		NERC 41	UKBAP (P)
Cloaked Carpet		✓	✓			Nb
Coastal Pearl		✓	✓			Nb
Currant Clearwing			✓			Nb
Dark Green Fritillary		✓	✓			Decline
Dark-barred Twin-spot Carpet		✓	✓		NERC 41	UKBAP (P)
Dot Moth		✓	✓		NERC 41	UKBAP (P)

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
Double Dart		✓	✓		NERC 41	
Dusky Brocade		✓	✓		NERC 41	UKBAP (P)
Dusky Thorn		✓	✓		NERC 41	UKBAP (P)
Figure of Eight		✓	✓		NERC 41	
Flounced Chestnut		✓	✓		NERC 41	UKBAP (P)
Galium Carpet		✓	✓		NERC 41	UKBAP (P)
Garden Tiger		✓	✓		NERC 41	UKBAP (P)
Ghost Moth		✓	✓		NERC 41	UKBAP (P)
Green-brindled Crescent		✓	✓		NERC 41	UKBAP (P)
Hairy Dragonfly			✓			Nb; KeyD (N)
Heath Rustic		✓	✓		NERC 41	UKBAP (P)
Horse Chestnut		✓	✓			Nb
Jersey Tiger	✓	✓	✓			Nb
Keeled Skimmer			✓			KeyD (N)
Kent Bent-wing			✓			Nb
Kent Black Arches		✓	✓			Nb
Knot Grass	✓	✓	✓		NERC 41	UKBAP (P)
Lackey		✓	✓		NERC 41	UKBAP (P)
L-album Wainscot		✓	✓			Nb
Large Wainscot		✓	✓		NERC 41	
Marbled Green		✓	✓			Nb
Mocha		✓	✓			Nb
Mottled Rustic		✓	✓		NERC 41	UKBAP (P)
Mouse Moth		✓	✓		NERC 41	UKBAP (P)
Mullein Wave		✓	✓		NERC 41	UKBAP (P)
Neglected Rustic		✓	✓		NERC 41	UKBAP (P)
Oak Hook-tip		✓	✓		NERC 41	
Orange Footman		✓	✓			Nb
Pale Eggar		✓	✓		NERC 41	UKBAP (P)
Pied Grey		✓	✓			Nb
Portland Ribbon Wave		✓	✓			RDB3
Powdered Quaker		✓	✓		NERC 41	UKBAP (P)
Purple Hairstreak	✓	✓	✓			Decline
Rosy Minor		✓	✓		NERC 41	UKBAP (P)
Rosy Rustic		✓	✓		NERC 41	UKBAP (P)
Ruddy Carpet		✓	✓			Nb
Ruddy Darter			✓			Nb; KeyD (R)
Rustic		✓	✓		NERC 41	UKBAP (P)
Sallow		✓	✓		NERC 41	UKBAP (P)
Scarce Chaser			✓			RDB3

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
September Thorn		✓	✓		NERC 41	UKBAP (P)
Shaded Broad-bar		✓	✓		NERC 41	UKBAP (P)
Shoulder-striped Wainscot		✓	✓		NERC 41	UKBAP (P)
Small Eggar		✓	✓			Nb
Small Emerald		✓	✓		NERC 41	UKBAP (P)
Small Heath	✓	✓	✓		NERC 41	UKBAP (P)
Small Phoenix		✓	✓		NERC 41	UKBAP (P)
Small Square-spot		✓	✓		NERC 41	UKBAP (P)
Spinach		✓	✓		NERC 41	UKBAP (P)
Sprawler		✓	✓		NERC 41	
Wall	✓		✓		NERC 41	UKBAP (P)
Wasp Spider			✓			Na
White Ermine		✓	✓		NERC 41	UKBAP (P)
White-line Dart		✓	✓		NERC 41	
Mammal-bat	10spp	10spp	11spp			
Brown Long-eared Bat	✓	✓	✓	EC IVa; Bern II; Bonn II	WCA 5, 6; NERC 41	UKBAP (P)
Common Pipistrelle	✓	✓	✓	EC IVa; Bern III, Bonn II	WCA 5, 6	
Daubenton's Bat			✓	EC IVa; Bern II; Bonn II	WCA 5, 6	
Greater Horseshoe Bat	✓	✓		EC IIa, IVa; Bern II; Bonn II	WCA 5, 6; NERC 41	UKBAP (P); Special Species; DBAP
Lesser Horseshoe Bat	✓	✓	✓	EC IIa, IVa; Bern II; Bonn II	WCA 5, 6; NERC 41	UKBAP (P)
Lesser Noctule			✓	EC IVa; Bern II; Bonn II	WCA 5, 6	
Nathusius' Pipistrelle	✓	✓	✓	EC IVa; Bern II; Bonn II	WCA 5, 6	
Natterer's Bat	✓	✓	✓	EC IVa; Bern II; Bonn II	WCA 5, 6	
Noctule Bat	✓	✓	✓	EC IVa; Bern II; Bonn II	WCA 5, 6; NERC 41	UKBAP (P)
Serotine	✓	✓	✓	EC IVa; Bern II; Bonn II	WCA 5, 6	Vul
Soprano Pipistrelle	✓	✓	✓	EC IVa; Bern III, Bonn II	WCA 5, 6; NERC 41	UKBAP (P)
Western Barbastelle	✓	✓	✓	EC IIa, IVa; Bern II; Bonn II	WCA 5, 6; NERC 41	UKBAP (P); Vul
Mammal-other	8spp	10spp	10spp			
Badger	✓	✓	✓	Bern III	WCA 6, BA	
Common Shrew	✓	✓	✓	Bern III	WCA 6	
Otter	✓	✓	✓	EC IIa, IIIa; Bern II	WCA 5; NERC 41	UKBAP (P); DBAP
Pygmy Shrew	✓	✓	✓	Bern III	WCA 6	
Water Shrew	✓	✓	✓	Bern III	WCA 6	

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
Hazel Dormouse	✓	✓	✓	EC IIa; Bern III	WCA 5, 6; NERC 41	UKBAP (P); Special Species; DBAP; Vul
Indet. Deer			✓	Bern III	DA	
Red Deer	✓	✓		Bern III	DA	
Roe Deer		✓		Bern III	DA	
Sika Deer		✓			WCA 9, DA	
Stoat			✓	Bern III		
Weasel			✓	Bern III		
Hedgehog	✓	✓	✓	Bern III	WCA 6; NERC 41	UKBAP (P); Vul
Plant	14spp	12spp	43spp			
Annual Beard-Grass			✓			NS
Annual Sea-blite			✓			DN2
Blue Water-Speedwell	✓					DN2
Borrer's Saltmarsh-Grass			✓		NERC 41	NS
Box			✓			NR
Bulbous Foxtail			✓			NS; DN1; DR
Bur Chervil	✓	✓	✓			DN1
Canadian Pondweed			✓		WCA 9	NULL
Common Club-rush	✓		✓			DN1
Corky-Fruited Water-Dropwort		✓	✓			DN3
English Scurvygrass			✓			DN2
Fat Duckweed			✓			DN2
Fennel Pondweed			✓			DN1
Floating Pennywort	✓	✓			WCA 9	NULL
Galingale	✓	✓	✓			NS; DN1; DR
Great Pond-Sedge			✓			DN2
Great Water Dock			✓			DN2
Greater Duckweed			✓			DN1
Greater Sea-Spurrey			✓			DN2
Grey Club-Rush			✓			DN2
Hard Grass			✓			DN1
Horned Pondweed			✓			DN1; DR
Indian Balsam			✓		WCA 9	NULL
Ivy-Leaved Duckweed			✓			DN1
Japanese Knotweed		✓	✓		WCA 9	NULL
Lesser Pondweed			✓			DN1; DR
Lesser Sea-Spurrey			✓			DN3
Meadow Barley			✓			DN1
Meadow Brome			✓			DN2
Nuttall's Water-Weed	✓	✓	✓			DN1

Taxon Common Name	Present <1km of Option?			Legislation and Conservation Status (as assigned by DBRC)		
	1	2	3	International	UK	Status
Pepper-Saxifrage		✓				DN1
Prickly Lettuce	✓					DN2
Primrose		✓	✓			DBAP
Procumbent Meadow-Grass			✓			NS; DN1; DR
Pyramidal Orchid	✓	✓	✓			DN2
Reed Sweet-grass	✓		✓			DN2
Rhododendron	✓	✓	✓		WCA 9	NULL
Saltmarsh Rush			✓			DN3
Sea Aster			✓			DN3
Sea Couch			✓			DN3
Sea Meadow-Grass			✓			DN2
Sea Purslane			✓			DN2
Sea Rush			✓			DN2
Smooth Brome		✓				DN2
Spiked Water-Milfoil			✓			DN1
Unbranched Bur-reed	✓		✓			DN2
White Water-Lily	✓	✓	✓			DN1
Wood Club-rush	✓					DN3
Yellow Water-Lily	✓		✓			DN1
Reptile	2spp	2spp	2spp			
Grass Snake	✓	✓	✓	Bern III	WCA 5 (KIS); NERC 41	UKBAP (P)
Slow worm	✓	✓	✓	Bern III	WCA 5 (KIS); NERC 41	UKBAP (P)
Grand Total	64spp	118spp	199spp			



Species Status Explanations

NERC 41 NERC Act (2006) Section 41: Species listed under Section 41 of the Natural Environment and Rural Communities Act (2006). These are the species found in England which have been identified as requiring action under the UK BAP. All local authorities and other public authorities in England and Wales have a duty to promote and enhance biodiversity in all of their functions.

WCA 1 Wildlife and Countryside Act (1981) Schedule 1: birds which are protected by special penalties at all times.

WCA 5 Wildlife and Countryside Act (1981) Schedule 5: species protected against killing, injury, disturbance and handling.

WCA 5 (S) Wildlife and Countryside Act (1981) Schedule 5: (sale): species protected against sale only.

WCA 5 (KIS) Wildlife and Countryside Act (1981) Schedule 5: (killing & injury): species protected against killing, injury and sale only.

WCA 9 Wildlife and Countryside Act (1981) Schedule 9: animals and plants for which release into the wild is prohibited.

Bern I Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) Appendix I: Special protection for listed plant species and their habitats.

Bern II Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) Appendix II: Special protection for listed animal species and their habitats.

Bern III Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) Appendix

III: Exploitation of listed animal species to be subject to regulation.

UKBAP(P) UK Priority Species (Short and Middle Lists - UK Biodiversity steering Group Report 1995) i.e., species that are globally threatened and rapidly declining in the UK (by more than 50% in the last 25 years). Has a Species Action Plan.

DBAP Devon Biodiversity Action Plan species: these have been identified as species of key conservation concern in Devon.

NR Nationally Rare: 1-15 10km squares in Atlas of British Flora 1962.

NS Nationally Scarce: 15-100 10km squares in Atlas of British Flora 1962.

Devon Notable Species: Selected species recorded from over 50 2km squares in the Atlas of Devon Flora 1984 (R.B. Ivimey-Cook, Department of Biological Sciences, The University of Exeter).

Na Nationally Notable A: known from 30 or fewer 10km squares. Taken from the Invertebrate Site Register.

Nb Nationally Notable B: known from 100 or fewer 10km squares. Taken from the Invertebrate Site Register.

Decline Substantial local decline in Devon.

Red List Bird species of high conservation concern, such as those whose population or range is rapidly declining, recently or historically, and those of global conservation concern.

Amber List Bird species of medium conservation concern, such as those whose population is in moderate decline, rare breeders, internationally important and localised species and those of unfavourable conservation status in Europe.

7.0 Summary

7.1 Table 6 provides a summary of the ecological features identified by this ecological desk study within potential influence of the three option areas.

Table 6: Summary of desk-based ecological baseline for options

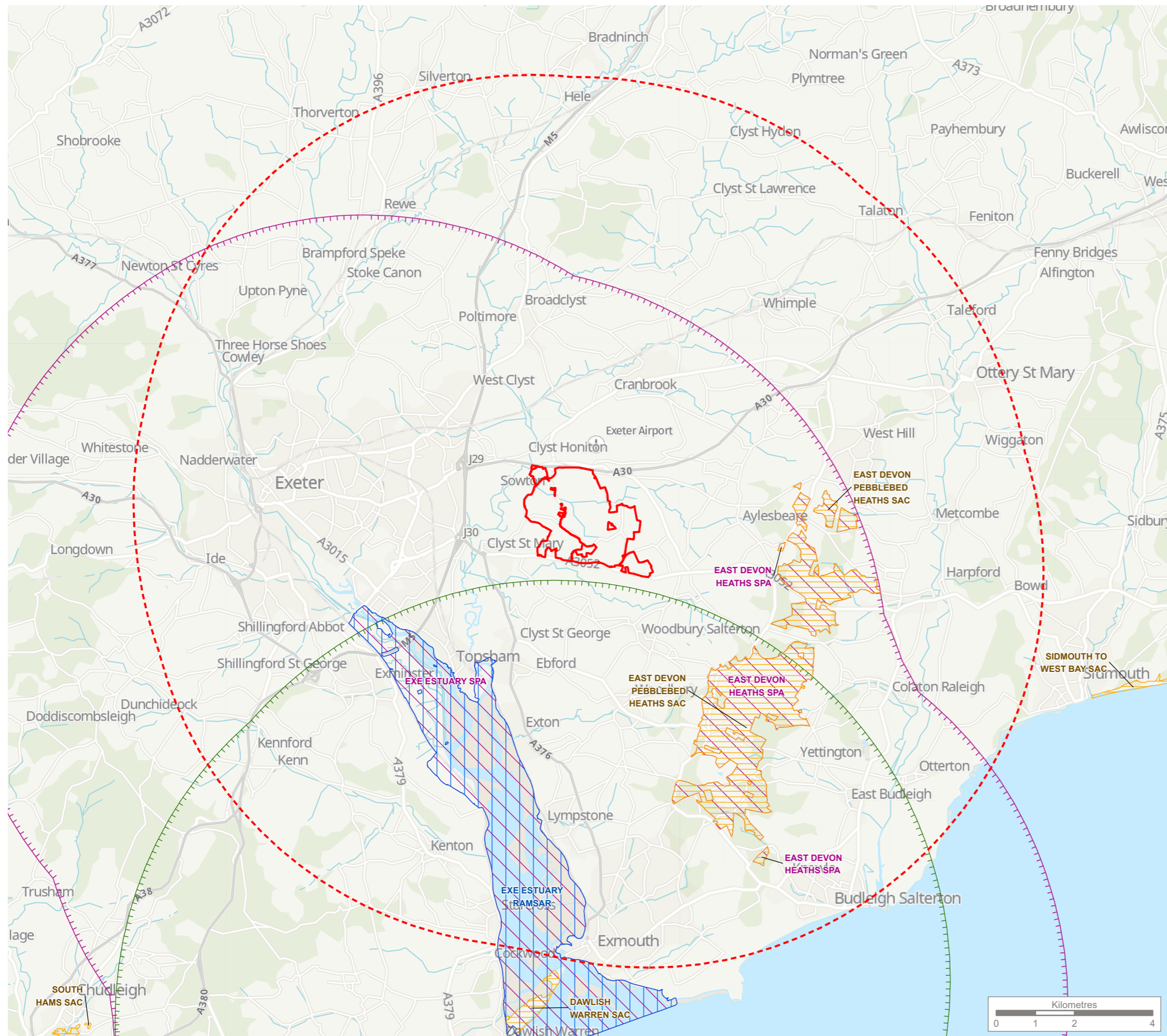
Assessment Category		
Option 1	Option 2	Option 3
Statutory Wildlife Sites of International & National Significance (closest proximity)		
East Devon Pebblebed Heaths SPA SAC SSSI NNR >2km Exe Estuary Ramsar SPA SSSI >2km Dawlish Warren SAC SSSI NNR >10km	East Devon Pebblebed Heaths SPA SAC SSSI NNR 1.6km Exe Estuary Ramsar SPA SSSI >2km Dawlish Warren SAC SSSI >5km	East Devon Pebblebed Heaths SPA SAC SSSI NNR >2km Exe Estuary Ramsar SPA SSSI 0.4km Dawlish Warren SAC SSSI >5km
Strategy 47 Applies (Recreational Pressure)		
Exe Estuary East Devon Pebblebed Heaths	Exe Estuary East Devon Pebblebed Heaths	Exe Estuary East Devon Pebblebed Heaths Dawlish Warren
SSSI Impact Risk Zones		
Infrastructure Wind / Solar Energy Minerals, Oil & Gas Air Pollution Combustion Waste Discharges Strategic Solutions	Infrastructure Wind/Solar Energy Minerals/Oil/Gas Rural non-Residential Residential Rural Residential Air Pollution Combustion Waste Composting Discharges Water Supply Strategic Solutions	All Planning Applications Infrastructure Wind/Solar Energy Minerals, Oil & Gas Rural non-Residential Residential Rural Residential Air Pollution Combustion Waste Composting Discharges Water Supply Strategic Solutions
Statutory Wildlife Sites of Regional / Local Significance (closest proximity)		
Exmouth LNR >5km	Exmouth LNR >5km	Exmouth LNR >2km
Non-Statutory Wildlife Sites of Local Significance (closest proximity)		
Exe Estuary RSPB >2km Exe Estuary IBA 1.4km Aylesbeare RSPB >2km East Devon Heaths IBA >2km Two LWS contained within option One LWS partly contained within option Five LWS adjacent to option Ten LWS <1km	Exe Estuary RSPB >2km Exe Estuary IBA 1.4km Aylesbeare RSPB 2km East Devon Heaths IBA 1.6km One LWS contained within option Two LWS partly contained within option 12nr LWS <1km	Exe Estuary RSPB 0.6km Exe Estuary IBA 0.3km Aylesbeare RSPB >2km East Devon Heaths IBA >2km No LWS within or adjacent to option One LWS partly contained within option Five LWS adjacent to option 11nr LWS <1km
Potential for impact on Wildlife Sites network (in absence of mitigation)		
High risk of local severance or fragmentation impact (east-west)	Moderate risk of local severance or fragmentation impact (east-west)	Moderate risk of local severance or fragmentation impact (east-west)

Assessment Category		
Option 1	Option 2	Option 3
Irreplaceable habitats pre-recorded within option		
None recorded within option. Woodland Trust tree inventory identifies potential veteran and notable trees close or adjacent to west boundary.	None recorded within option. Woodland Trust tree inventory identifies two ancient trees within an adjacent field to the east.	None recorded within option. Woodland Trust tree inventory identifies a notable tree adjacent to the option in the southwest.
HPI or DBAP habitats pre-recorded within option		
Coastal floodplain and grazing marsh Traditional Orchard Woodland Veteran/Ancient Trees Devon Hedgerows Arable field margins Ponds/Lakes Rivers/Streams	Woodland Veteran/Ancient Trees Devon Hedgerows Arable field margins Ponds/Lakes Rivers/Streams	Traditional Orchard Woodland Veteran/Ancient Trees Devon Hedgerows Arable field margins Ponds/Lakes Rivers/Streams
Overall Risk to HPI and Habitat Network (in absence of mitigation)		
Limited overlap with Habitat Network zones for enhancement / expansion. Contains land allocated for Valley Park and areas of pre-recorded HPI, particularly in west and northwest of option. Position within wider network has potential risk for fragmentation effects east-west particularly	Limited overlap with Habitat Network for enhancement or expansion. Minor areas of pre-recorded HPI present within option.	Some overlap with Habitat Network enhancement zone linking east-west, particularly in north of option area. Closer proximity to local and statutory sites east and west, with potential risk for fragmentation effects.
Diversity of protected or notable species pre-recorded within 1km of option		
12 plants 4 amphibians 2 reptiles 21 birds 10 bats 8 other mammals 5 invertebrates	9 plants 4 amphibians 2 reptiles 18 birds 10 bats 10 other mammals 62 invertebrates	39 plants 3 amphibians 2 reptiles 2 fish 58 birds 11 bats 10 other mammals 70 invertebrates



Drawings

Option 1



KEY

- Site boundary
- Site boundary - 10km buffer
- Ramsar
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Dawlish Warren SAC Buffer Area
- Exe Estuary SPA Buffer Area

CONFIDENTIAL

Sites searched for were as follows:
 - Ramsar and Proposed Ramsar
 - Special Protection Areas (SPA) and Potential SPA
 - Special Areas of Conservation (SAC) and Potential SAC

Natural England Data
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Rev	Description	Drawn	Approved	Date



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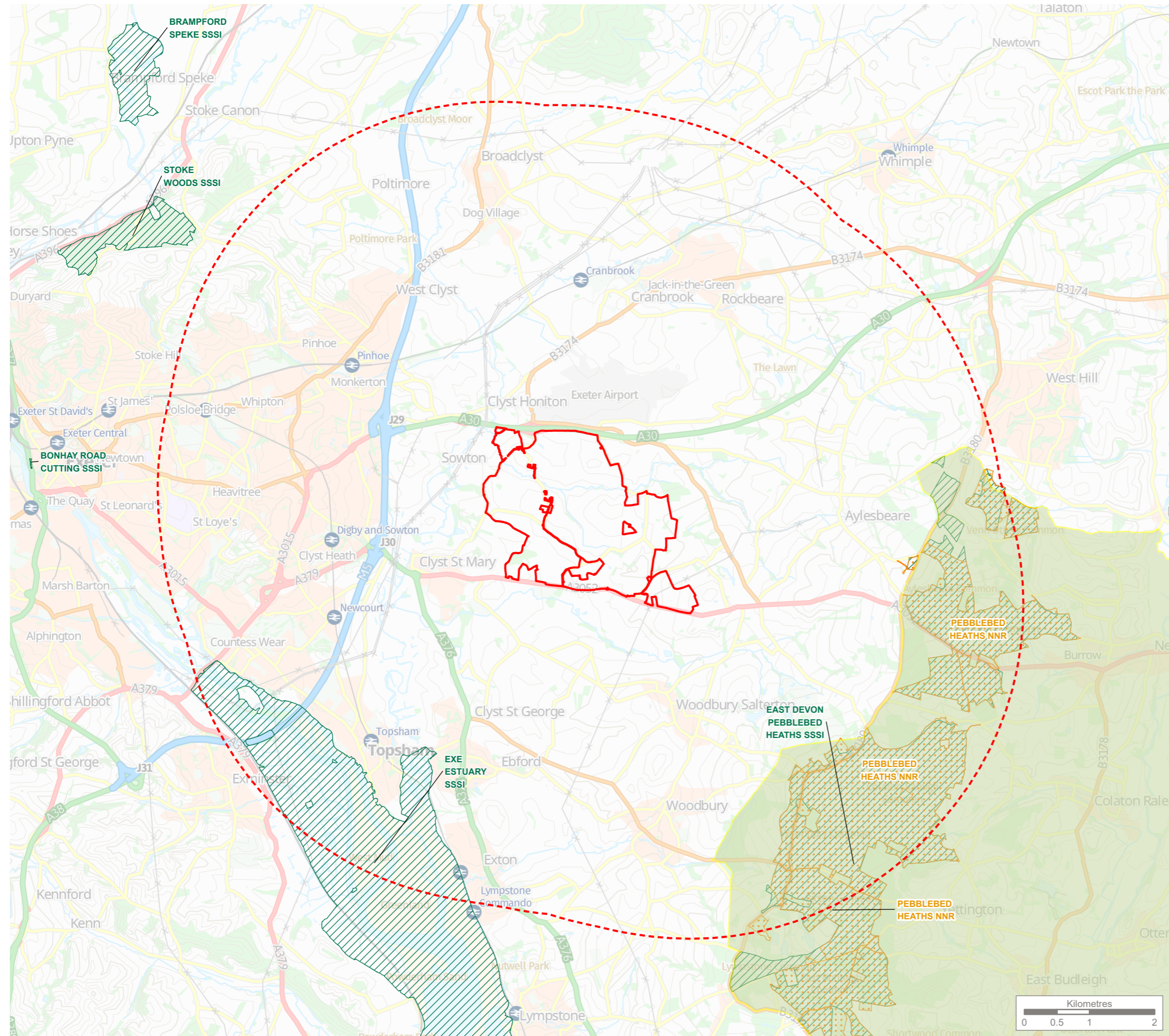
Project
East Devon Options Appraisal

Title
**Internationally Designated Sites Within a 10km Buffer
 Option 1**

Drawing Number
G9631.002

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:100,000 @ A3	03/10/2022





KEY

- Site boundary
- Site boundary - 5km buffer

Natural England Data

- Areas of Outstanding Natural Beauty
- National Nature Reserve (NNR)
- Sites of Special Scientific Interest (SSSI)

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- Sites searched for were as follows:
- Sites of Special Scientific Interest (SSSI)
 - National Nature Reserve (NNR)
 - Area of Outstanding Natural Beauty (AONB)
 - Marine Conservation Zones (MCZ)

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Rev	Description	Drawn	Approved	Date

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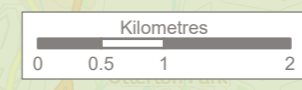
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
 Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

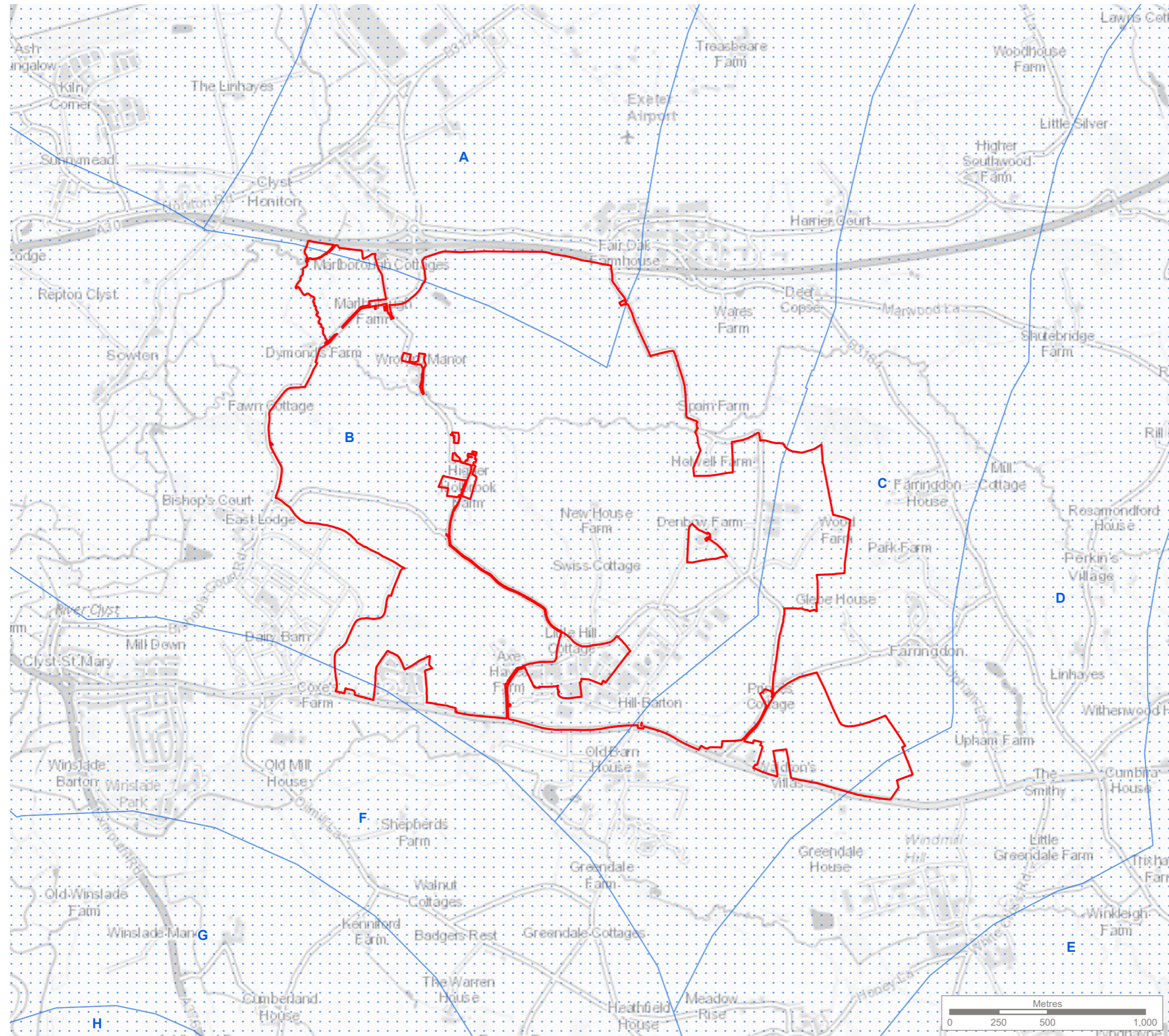
Project
East Devon Options Appraisal

Title
**Nationally Designated Sites Within a 5km Buffer
 Option 1**

Drawing Number
G9631.005

Drawn BJ	Checked CW	Approved RR	Scale 1:60,000 @ A3	Date 21/09/2022
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KEY

- Site boundary
- Sites of Special Scientific Interest - Impact Risk Zone

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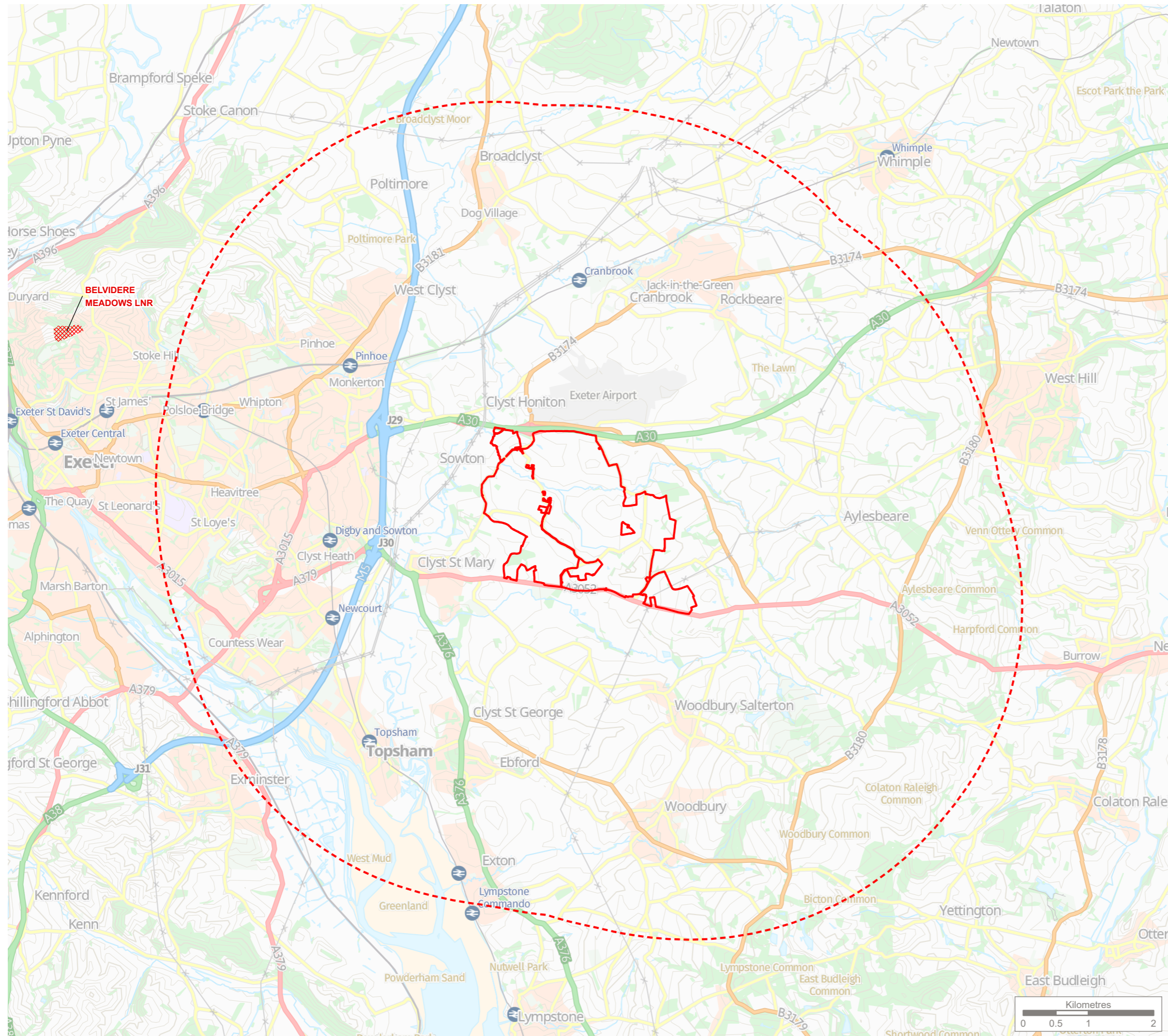
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Project
East Devon Options Appraisal

Title
**SSSI IRZ
 Option 1**

Drawing Number
G9631.014

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:20,000 @ A3	29/09/2022



KEY

- Site boundary
- Site boundary - 5km buffer
- Local Nature Reserve

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Sites searched for were as follows:
 - Local Nature Reserve (LNR)

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Rev	Description	Drawn	Approved	Date



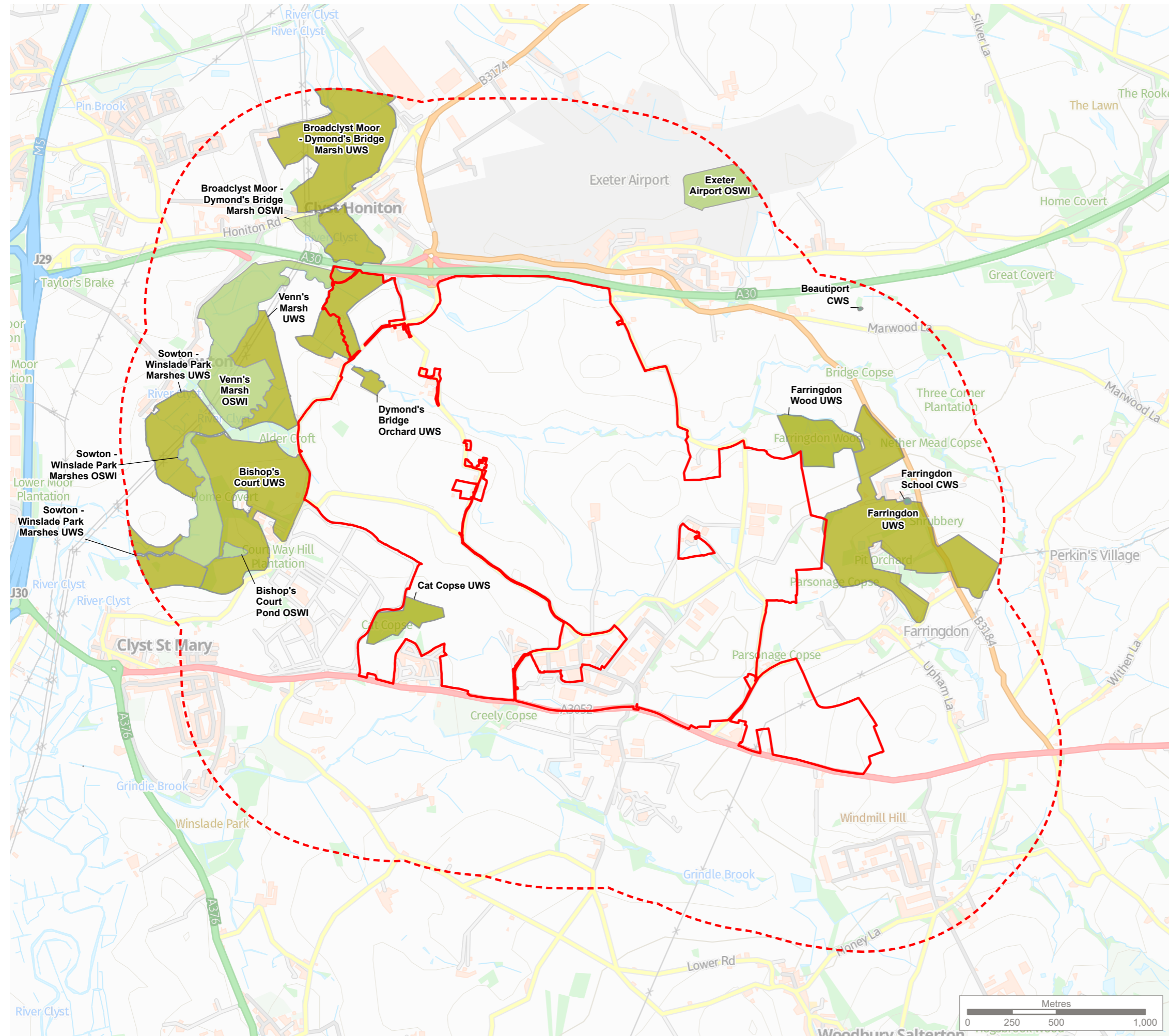
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Project
East Devon Options Appraisal

Title
**Statutory Local Designated Sites Within a 5km Buffer
 Option 1**

Drawing Number
G9631.008

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:60,000 @ A3	03/10/2022



- KEY**
- Site boundary
 - Site boundary - 1km buffer
- Non-Statutory Designation**
- County Wildlife Site (CWS)
 - Unconfirmed Wildlife Site (UWS)
 - Other Sites of Wildlife Interest (OSWI)

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 Local sites data provided by DBRC

Rev	Description	Drawn	Approved	Date

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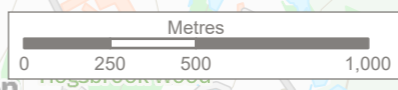
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
 Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

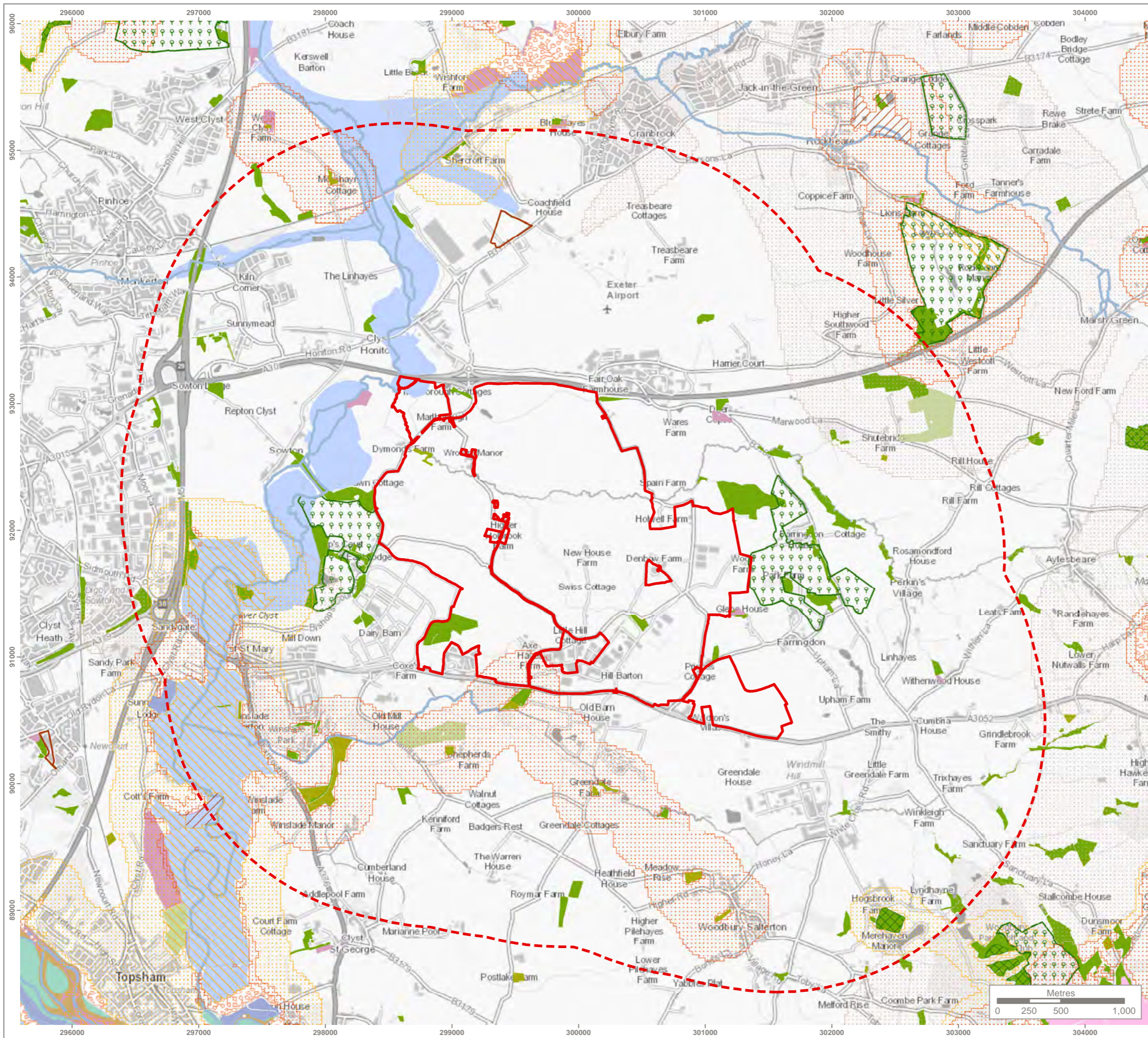
Project
East Devon Options Appraisal

Title
**Non-Statutory Locally Designated Sites Within 1km
 Option 1**

Drawing Number
G9631.041

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:22,000 @ A3	07/10/2022





KEY

- Option boundary
- 2km buffer
- Main rivers
- Ancient woodland
- Woodpasture and parkland
- Open mosaic habitat on previously developed land

Priority Habitat Inventory

- Traditional orchard
- Deciduous woodland
- Coastal and floodplain grazing marsh
- Good quality semi-improved grassland
- Lowland fens
- Lowland heathland
- Coastal saltmarsh
- Mudflats
- No main habitat but additional habitats present

Habitat Networks

- Habitat Restoration-Creation
- Restorable Habitat
- Fragmentation Action Zone
- Network Enhancement Zone 1
- Network Enhancement Zone 2
- Network Expansion Zone

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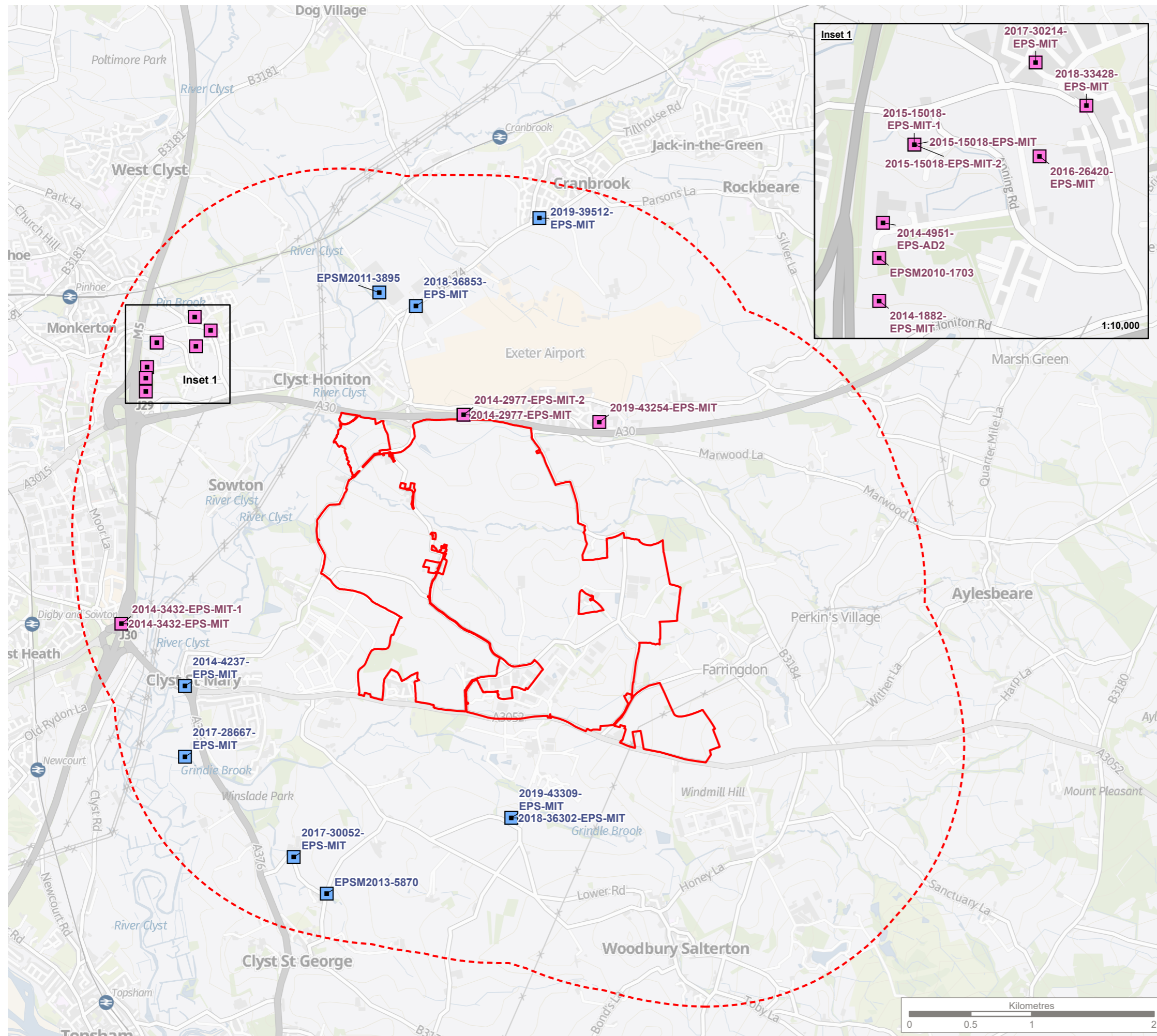
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Project
East Devon Options Appraisal

Title
Notable Habitats and Habitat Network Within 2km Option 1

Drawing Number
G9631.017

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:30,000 @ A3	22/09/2022



KEY

- Site boundary
- Site boundary - 2km buffer

Granted European Protected Species Mitigation Licence Application

- Bat
- Other mammal

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 Granted EPS Mitigation Licence Applications <https://magic.defra.gov.uk>

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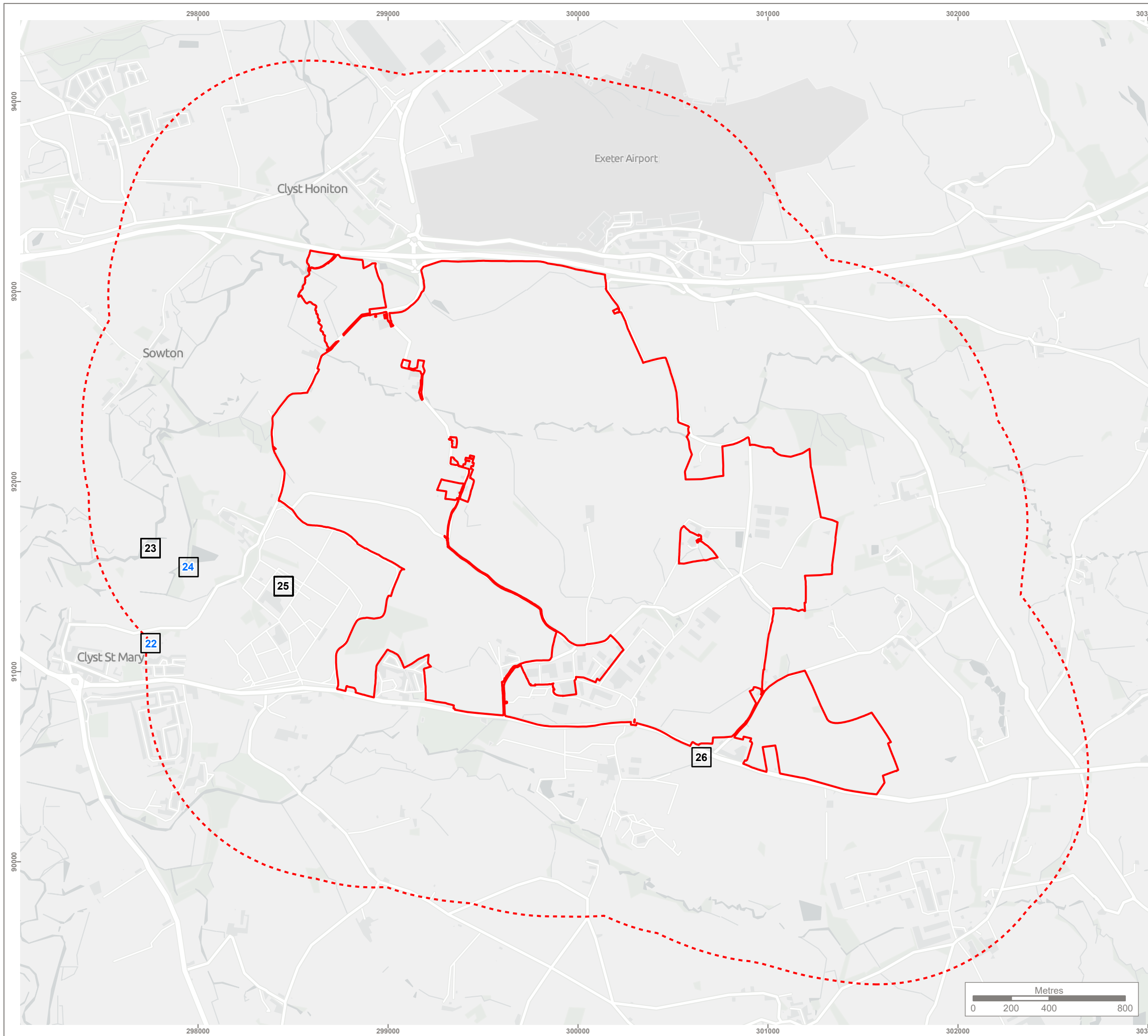
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Project
East Devon Options Appraisal

Title
Granted European Protected Species Mitigation Licence Applications Within 2km - Option 1

Drawing Number
G9631.020

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:32,000 @ A3	29/09/2022



KEY

- Site boundary
- Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

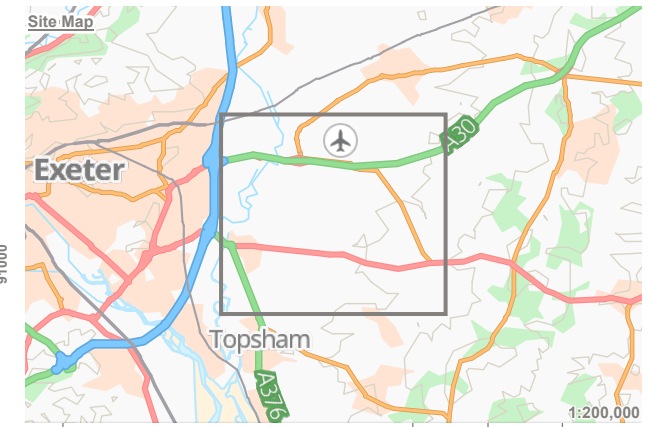
100m

Note:
Record IDs in blue indicate the presence of invasive species

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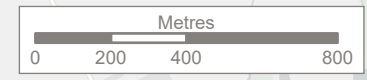
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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Plants
Option 1**

Drawing Number
G9631.023

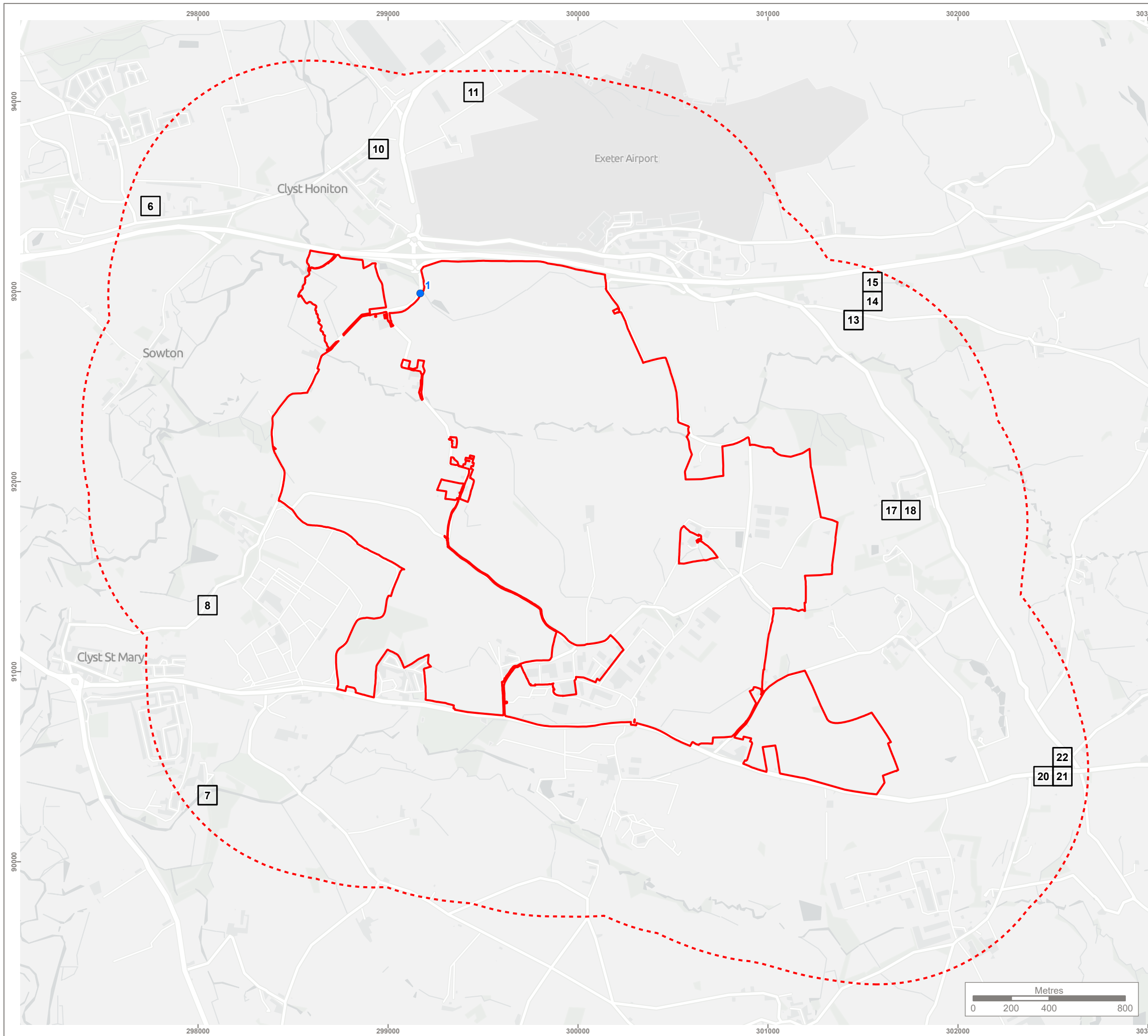
Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:20,000 @ A3	30/09/2022



Plant Desktop Records (Option 1)

Refer to drawing G9631.023 for spatial location of species data

Species Record Identifier	Common Name	Count
22	Floating Pennywort	1
23	Blue Water-Speedwell	1
	Common Club-rush	1
	Prickly Lettuce	1
	Reed Sweet-grass	1
	Rhododendron	1
	Unbranched Bur-reed	1
	Wood Club-rush	1
	Yellow Water-Lily	1
24	Rhododendron	1
25	Bur Chervil	1
	Galingale	1
	Nuttall's Water-Weed	1
	Rhododendron	1
	White Water-Lily	1
26	Pyramidal Orchid	1



KEY

- Site boundary
- Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

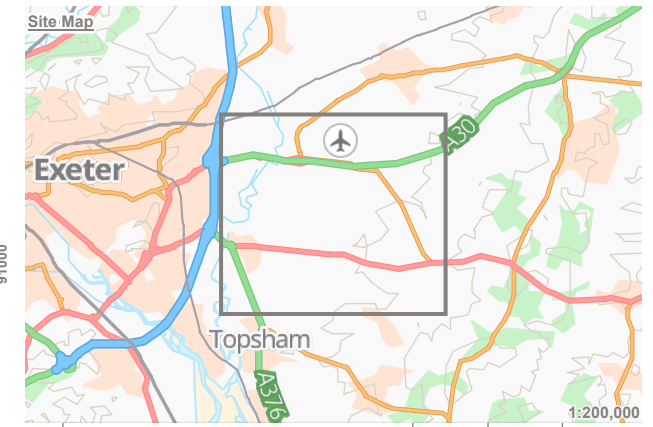
- 1 and 10m
- 100m

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Project
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Title
Species Desktop Records - Amphibians, Reptiles and Fish Option 1

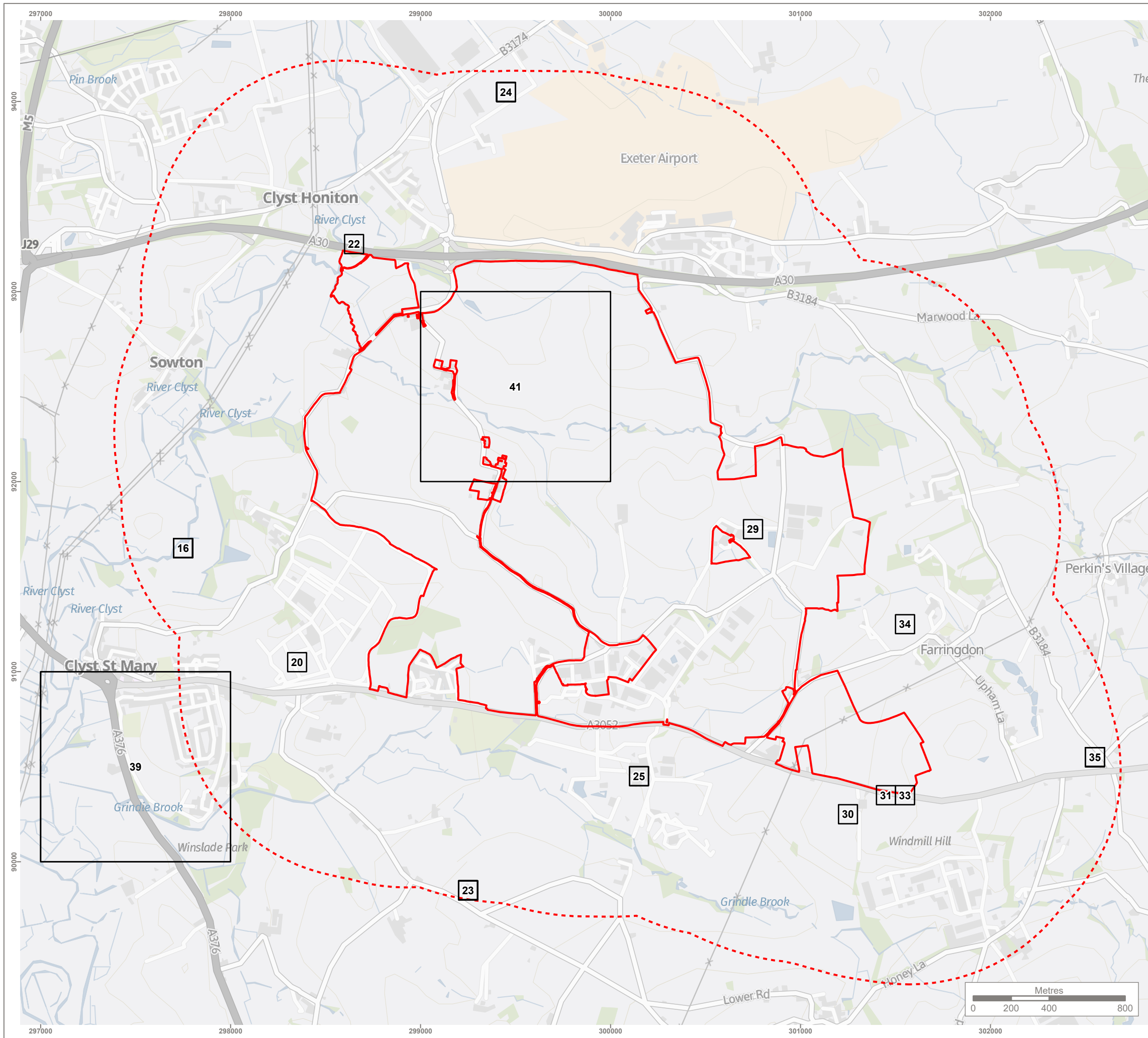
Drawing Number
G9631.026

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:20,000 @ A3	03/10/2022

Amphibian, Reptile and Fish Desktop Records (Option 1)

Refer to drawing G9631.026 for spatial location of species data

Species Record Identifier	Common Name	Count
1	Common Toad	1
6	Common Frog	1
7	Grass Snake	1
	Slow-worm	1
8	Common Toad	1
10	Grass Snake	1
	Slow-worm	1
11	Slow-worm	1
13	Great Crested Newt	2
14	Great Crested Newt	1
15	Great Crested Newt	1
17	Great Crested Newt	1
18	Great Crested Newt	1
20	Common Toad	1
21	Common Toad	1
	Slow-worm	1
22	Common Frog	1
	Smooth Newt	1



KEY

- Site boundary
- Site boundary - 1km buffer

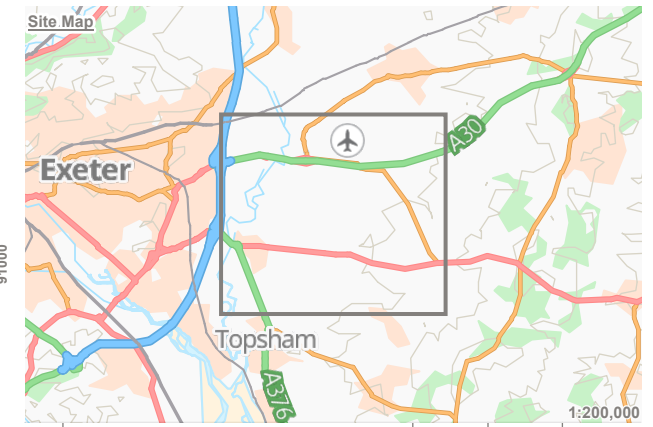
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

- 100m
- 1000m

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Project
East Devon Options Appraisal

Title
Species Desktop Records - Birds
Option 1

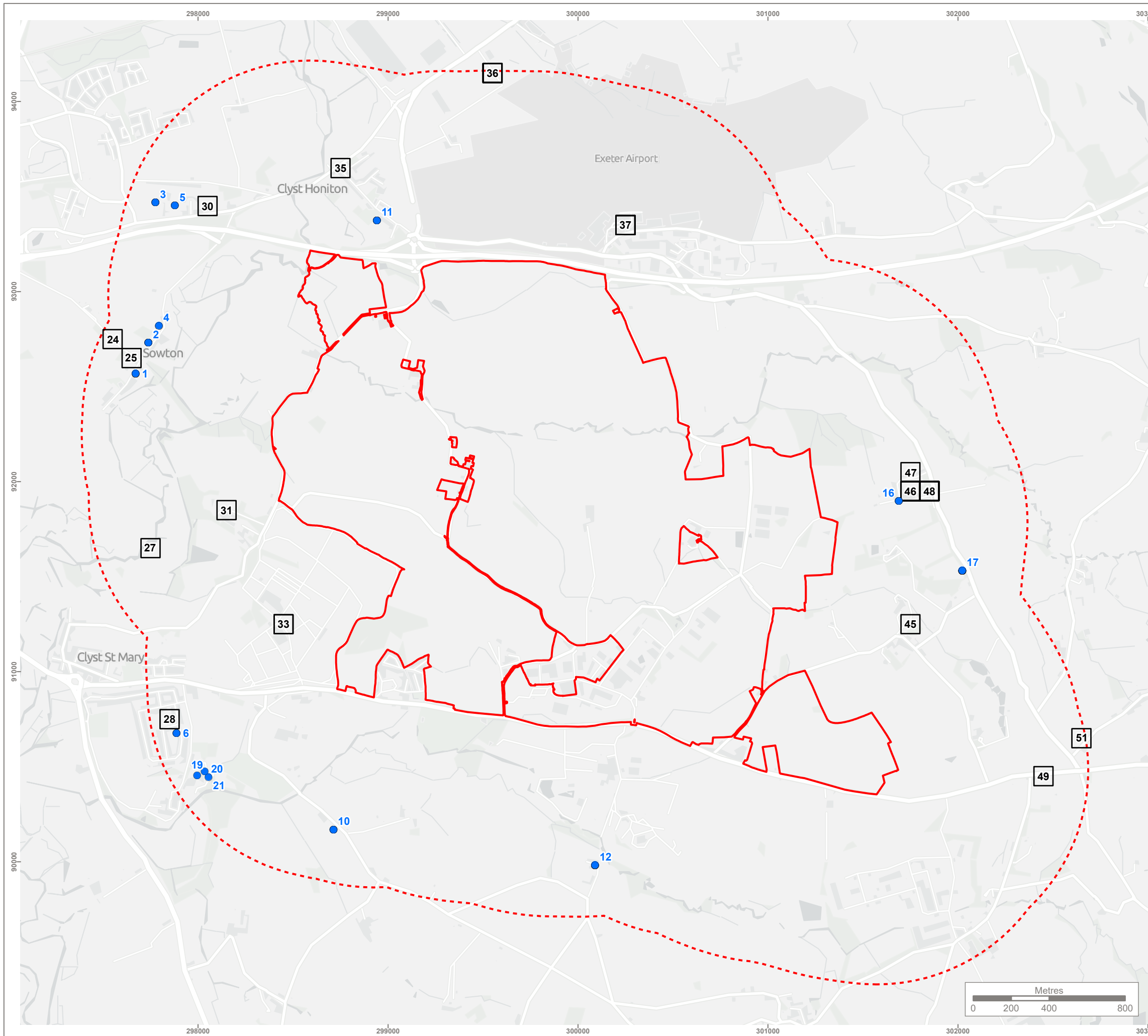
Drawing Number
G9631.029

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:20,000 @ A3	03/10/2022

Bird Desktop Records (Option 1)

Refer to drawing G9631.029 for spatial location of species data

Species Record Identifier	Common Name	Count
16	Blue Tit	1
	Great Tit	1
	Green Woodpecker	1
	Grey Wagtail	1
	Herring Gull	1
	Kestrel	1
	Moorhen	1
	Nuthatch	1
	Robin	1
	Woodpigeon	1
	Wren	1
20	Swift	1
22	Red Kite	1
23	Bullfinch	1
	Herring Gull	1
	Kestrel	1
	Skylark	1
	Snipe	1
24	Kestrel	1
	Rook	1
	Skylark	1
	Swallow	1
	Wren	1
25	Common Bullfinch	1
	Kestrel	1
29	Hoopoe	1
30	Cirl Bunting	1
31	Barn Owl	1
33	Kestrel	1
34	Barn Owl	1
35	Blue Tit	1
	Great Tit	1
	Greenfinch	1
	House Martin	2
	Redwing	1
	Robin	1
	Song Thrush	1
39	Barn Owl	1
	Mediterranean Gull	1
41	Kestrel	1



KEY

- Site boundary
- Site boundary - 1km buffer

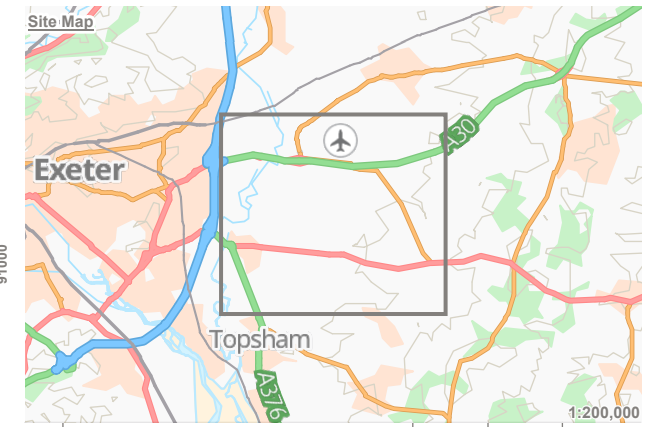
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

- 1 and 10m
- 100m

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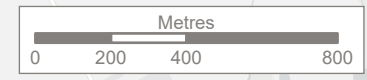
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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Bats
 Option 1**

Drawing Number
G9631.032

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:20,000 @ A3	03/10/2022

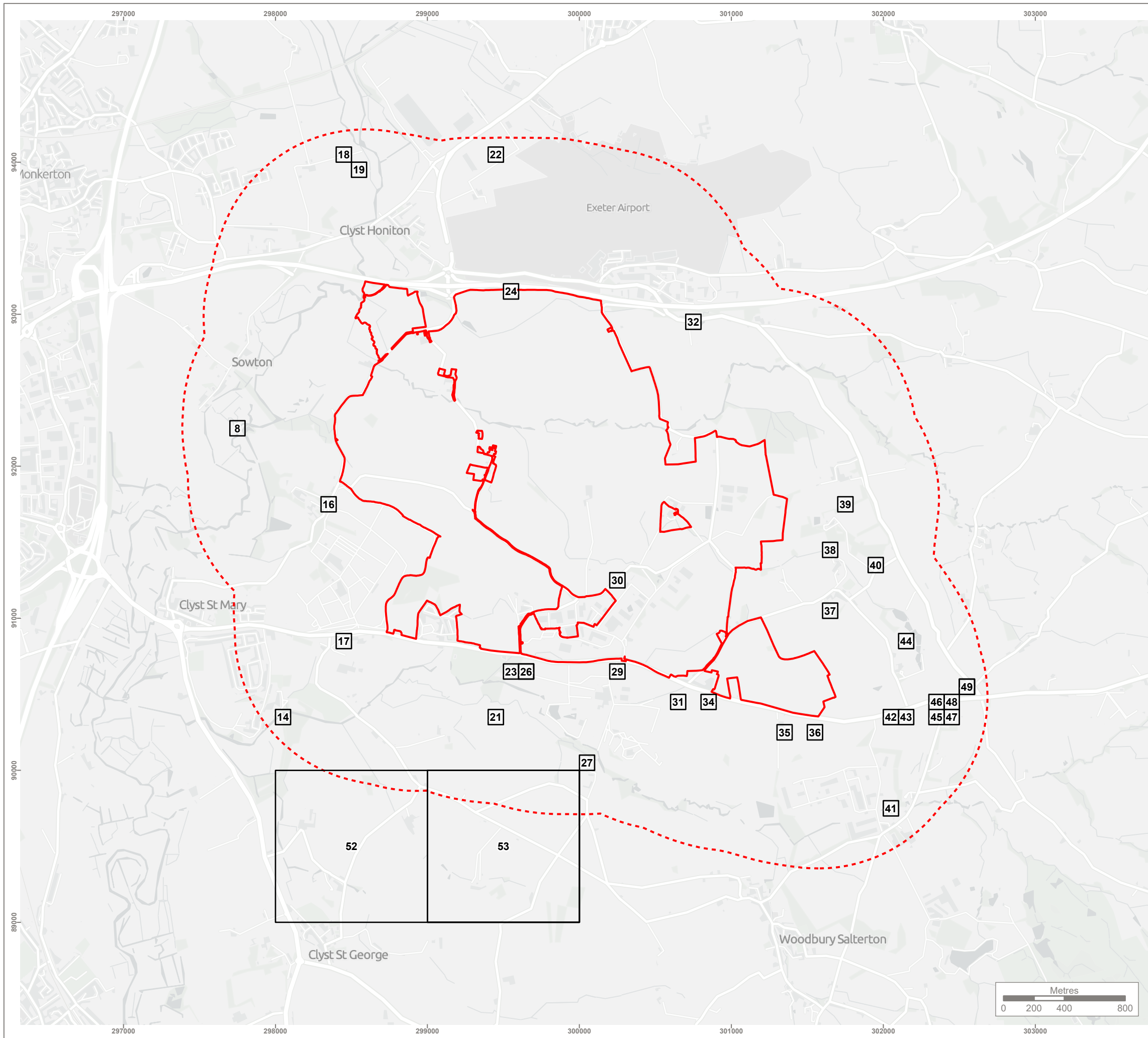


Bat Desktop Records (Option 1)

Refer to drawing G9631.032 for spatial location of species data

Species Record Identifier	Common Name	Count
1	a Bat	1
	a Long-eared Bat	1
	Nathusius's Pipistrelle	1
	Noctule Bat	1
2	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
	Western Barbastelle	2
3	a Long-eared Bat	1
	Common Pipistrelle	1
	Noctule Bat	1
	Soprano Pipistrelle	1
4	Greater Horseshoe Bat	1
	Western Barbastelle	1
5	a Bat	1
	Noctule Bat	1
	Western Barbastelle	1
6	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
10	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
	Western Barbastelle	1
11	a Bat	1
	a Long-eared Bat	1
	Lesser Horseshoe Bat	1
	Nathusius's Pipistrelle	1
	Noctule Bat	1
12	Brown Long-eared Bat	1
	Common Pipistrelle	1
	Lesser Horseshoe Bat	1
	Natterer's Bat	1
	Western Barbastelle	1
16	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
	Western Barbastelle	1
17	a Bat	1
	Brown Long-eared Bat	1
	Common Pipistrelle	1
	Greater Horseshoe Bat	1
	Lesser Horseshoe Bat	1
	Nathusius's Pipistrelle	1
	Natterer's Bat	2
	Noctule Bat	1
	Serotine	1
	Soprano Pipistrelle	1
Western Barbastelle	1	

Species Record Identifier	Common Name	Count
19	Soprano Pipistrelle	1
20	Soprano Pipistrelle	140
21	Soprano Pipistrelle	1
24	a Bat	1
25	Lesser Horseshoe Bat	1
27	a Bat	1
28	a Bat	1
30	a Bat	1
31	a Long-eared Bat	1
33	a Bat	1
	a Long-eared Bat	1
35	a Long-eared Bat	3
36	Common Pipistrelle	2
	Noctule Bat	2
	Serotine	1
	Soprano Pipistrelle	2
37	a Long-eared Bat	1
	Common Pipistrelle	1
	Noctule Bat	1
	Serotine	1
	Soprano Pipistrelle	2
45	a Bat	1
46	a Long-eared Bat	1
	Brown Long-eared Bat	2
	Common Pipistrelle	1
	Lesser Horseshoe Bat	4
47	Soprano Pipistrelle	1
48	Common Pipistrelle	1
	Brown Long-eared Bat	2
	Common Pipistrelle	2
49	Lesser Horseshoe Bat	35
	Common Pipistrelle	1
51	Common Pipistrelle	1



KEY

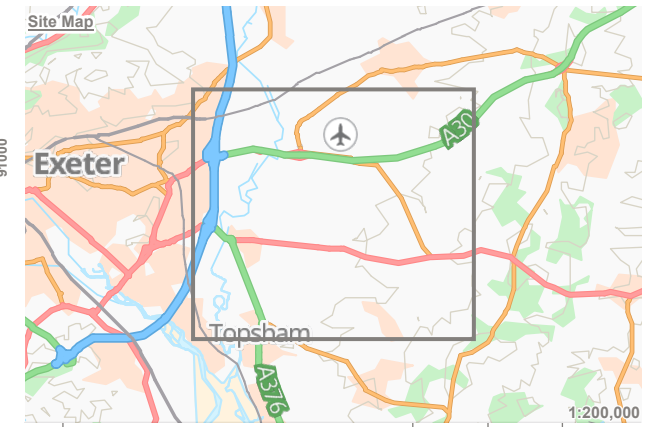
- Site boundary
- Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

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Project
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Title
Species Desktop Records - Other Mammals Option 1

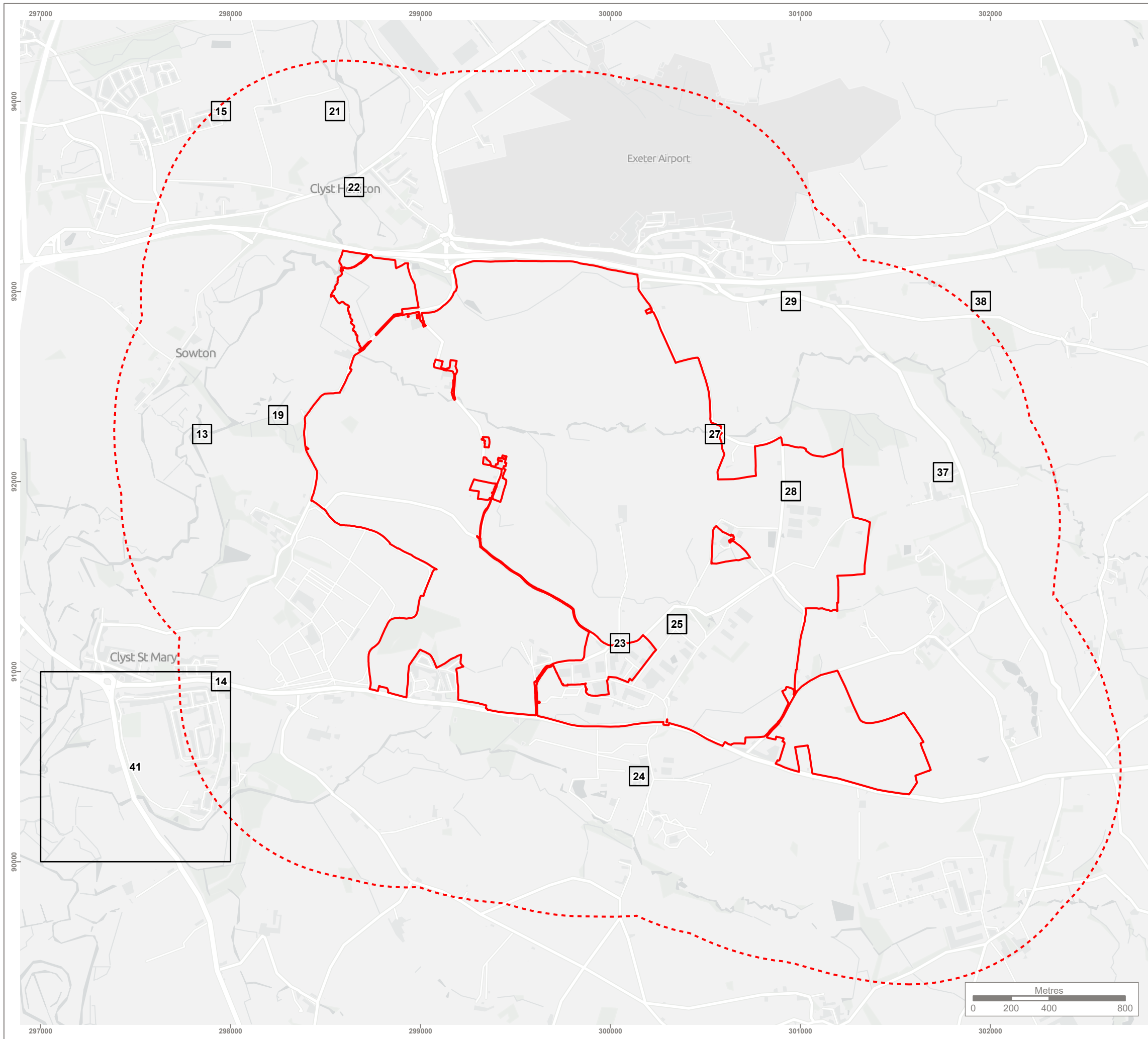
Drawing Number
G9631.035

Drawn BJ	Checked MK	Approved RR	Scale 1:25,000 @ A3	Date 03/10/2022
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Other Mammal Desktop Records (Option 1)

Refer to drawing G9631.035 for spatial location of species data

Species Record Identifier	Common Name	Count
8	Eurasian Otter	1
14	Hazel Dormouse	1
16	Eurasian Badger	1
17	Eurasian Badger	1
18	Eurasian Otter	1
19	Eurasian Otter	1
21	Eurasian Badger	1
22	Eurasian Badger	1
23	Eurasian Otter	1
24	Eurasian Badger	1
26	Eurasian Otter	2
27	Eurasian Otter	1
29	Eurasian Otter	1
30	Eurasian Badger	1
31	Eurasian Badger	1
32	Eurasian Badger	1
34	Eurasian Badger	1
35	Eurasian Badger	1
36	Eurasian Badger	1
37	Hazel Dormouse	1
38	Eurasian Badger	1
39	Eurasian Badger	1
40	Hazel Dormouse	1
41	Eurasian Otter	1
42	Eurasian Otter	1
43	Eurasian Badger	1
44	Eurasian Otter	1
45	West European Hedgehog	1
46	Eurasian Badger	1
47	Eurasian Badger	1
48	Eurasian Badger	1
49	Red Deer	1
	West European Hedgehog	1
52	Eurasian Badger	1
53	Eurasian Common Shrew	1
	Eurasian Pygmy Shrew	1
	Eurasian Water Shrew	1



KEY

- Site boundary
- Site boundary - 1km buffer

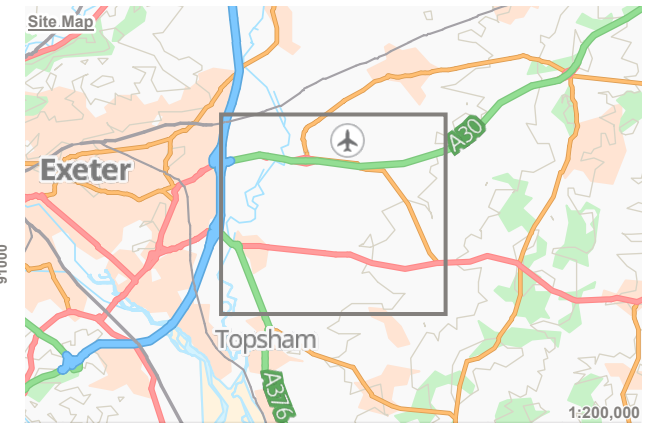
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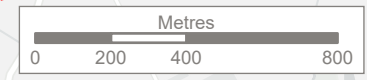
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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Invertebrates
 Option 1**

Drawing Number
G9631.038

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:20,000 @ A3	03/10/2022



Invertebrate Desktop Records (Option 1)

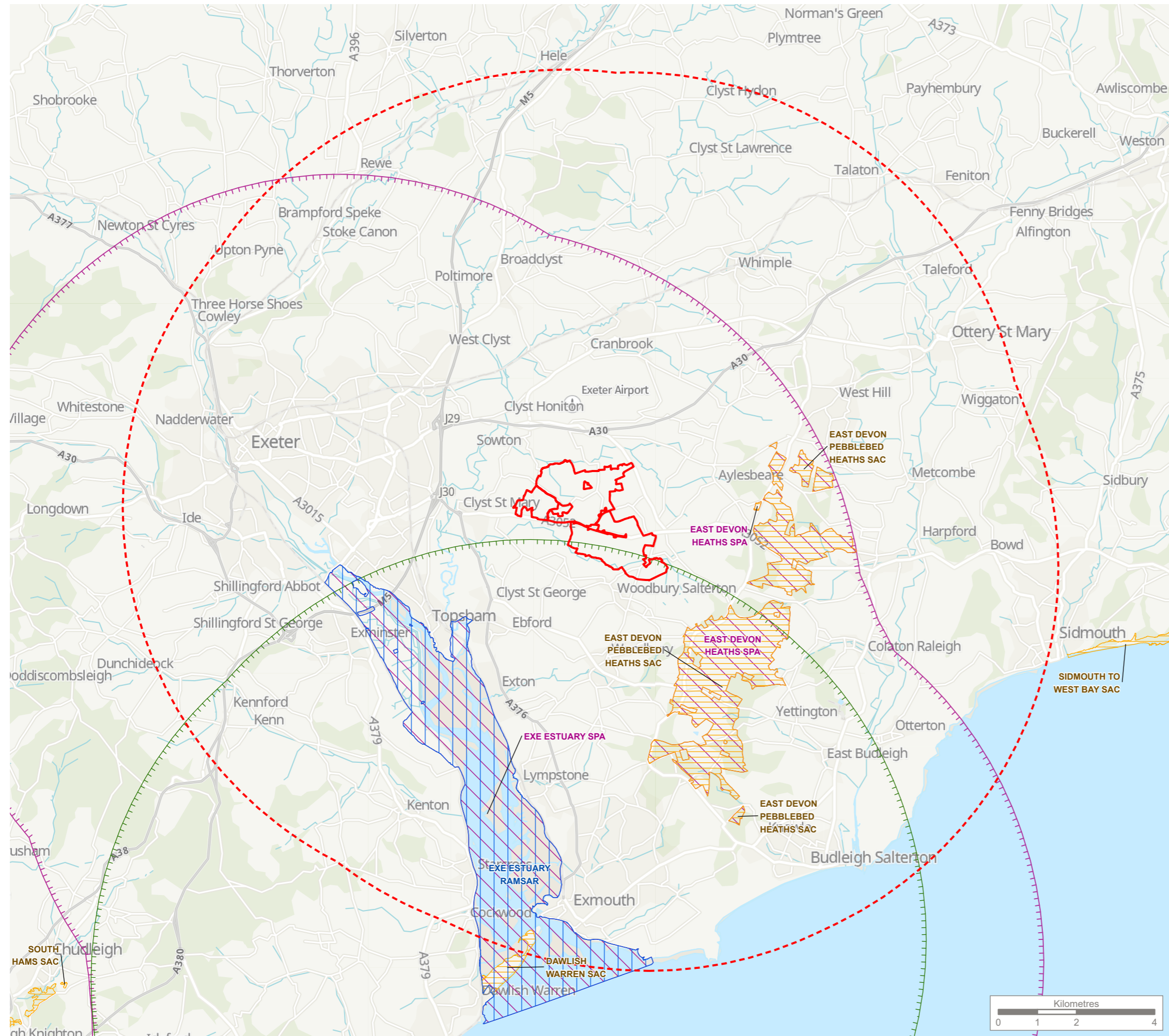
Refer to drawing G9631.038 for spatial location of species data

Species Record Identifier	Common Name	Count
13	Purple Hairstreak	1
14	Purple Hairstreak	1
15	Purple Hairstreak	1
19	Purple Hairstreak	1
21	Wall	1
22	Purple Hairstreak	1
23	Purple Hairstreak	1
24	Jersey Tiger	1
25	Purple Hairstreak	2
27	Purple Hairstreak	2
28	Small Heath	2
29	Purple Hairstreak	1
37	Purple Hairstreak	1
38	Purple Hairstreak	1
	Small Heath	1
41	Knot Grass	1



Drawings

Option 2



KEY

- Site boundary
- Site boundary - 10km buffer
- Ramsar
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Dawlish Warren SAC Buffer Area
- Exe Estuary SPA Buffer Area

CONFIDENTIAL

- Sites searched for were as follows:
- Ramsar and Proposed Ramsar
 - Special Protection Areas (SPA) and Potential SPA
 - Special Areas of Conservation (SAC) and Potential SAC

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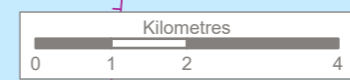
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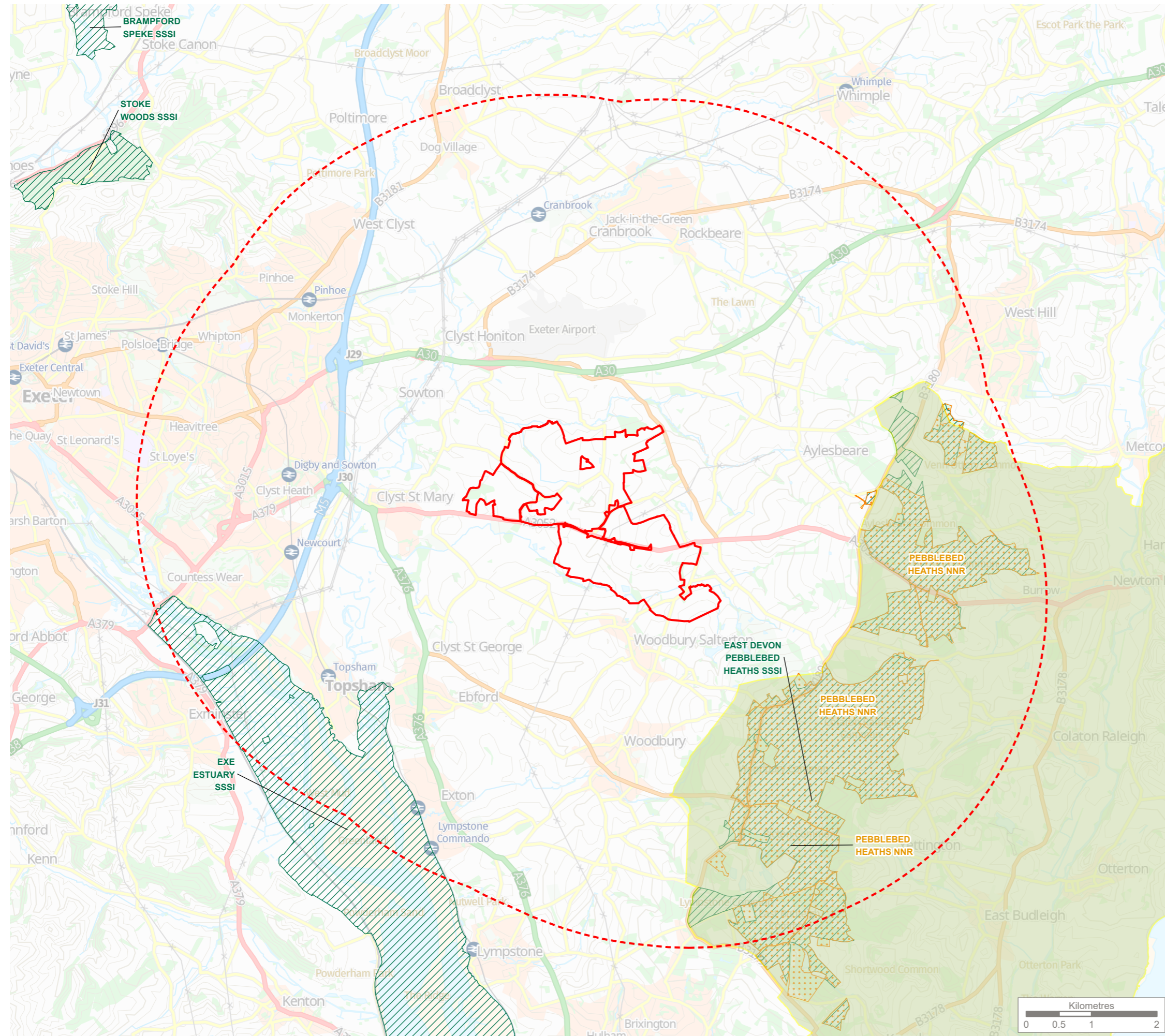
Project
East Devon Options Appraisal

Title
**Internationally Designated Sites Within a 10km Buffer
 Option 2b**

Drawing Number
G9631.003

Drawn BJ	Checked CW	Approved RR	Scale 1:100,000 @ A3	Date 03/10/2022
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KEY

- Site boundary
- Site boundary - 5km buffer

Natural England Data

- Areas of Outstanding Natural Beauty
- National Nature Reserve (NNR)
- Sites of Special Scientific Interest (SSSI)

CONFIDENTIAL

Sites searched for were as follows:

- Sites of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Area of Outstanding Natural Beauty (AONB)
- Marine Conservation Zones (MCZ)



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Rev	Description	Drawn	Approved	Date



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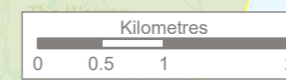
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
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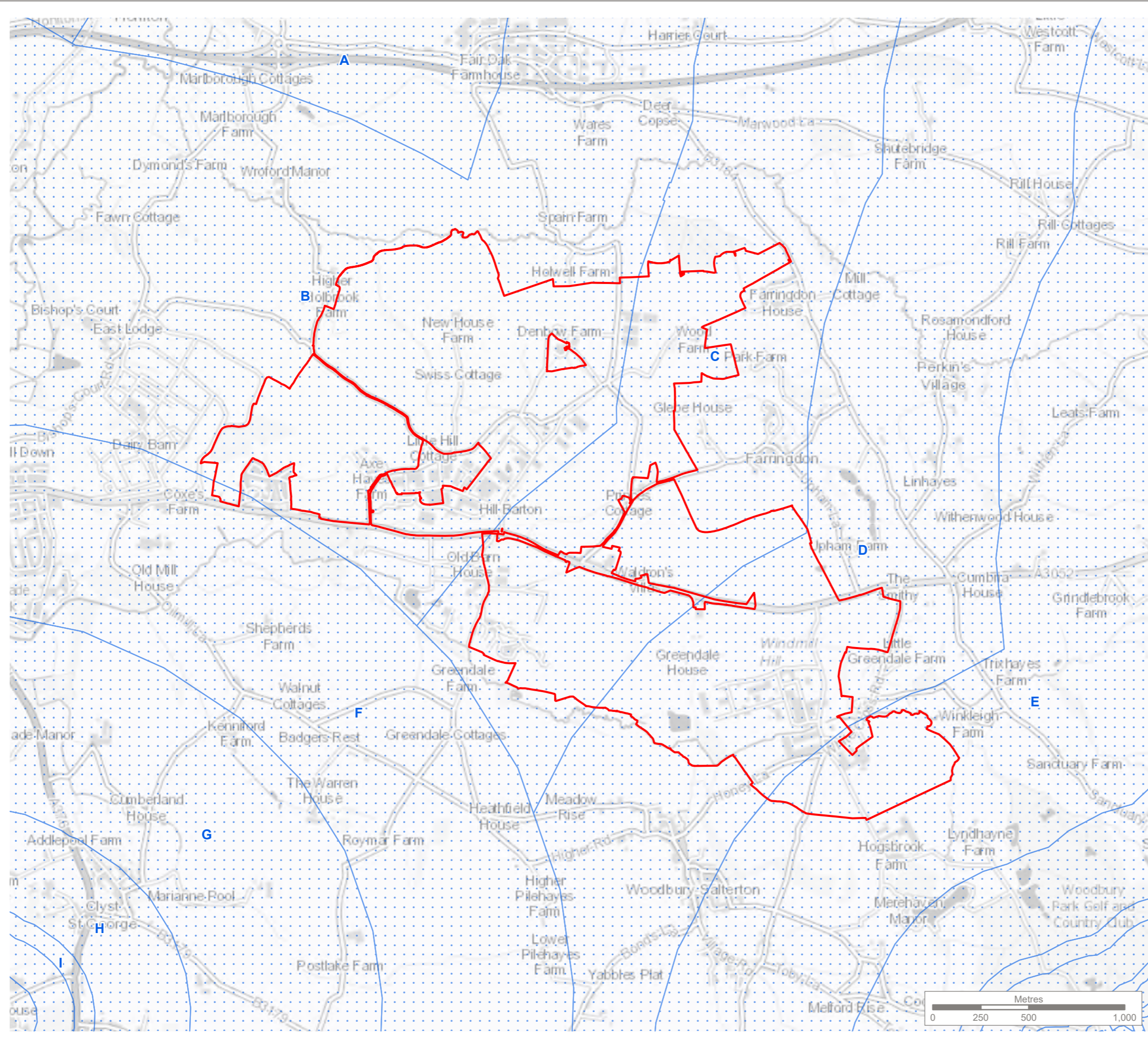
Project
East Devon Options Appraisal

Title
**Nationally Designated Sites Within a 5km Buffer
 Option 2b**

Drawing Number
G9631.006

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:60,000 @ A3	21/09/2022





KEY

- Site boundary
- Sites of Special Scientific Interest - Impact Risk Zone

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Rev	Description	Drawn	Approved	Date

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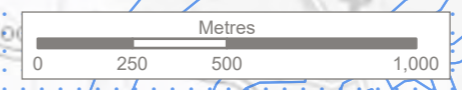
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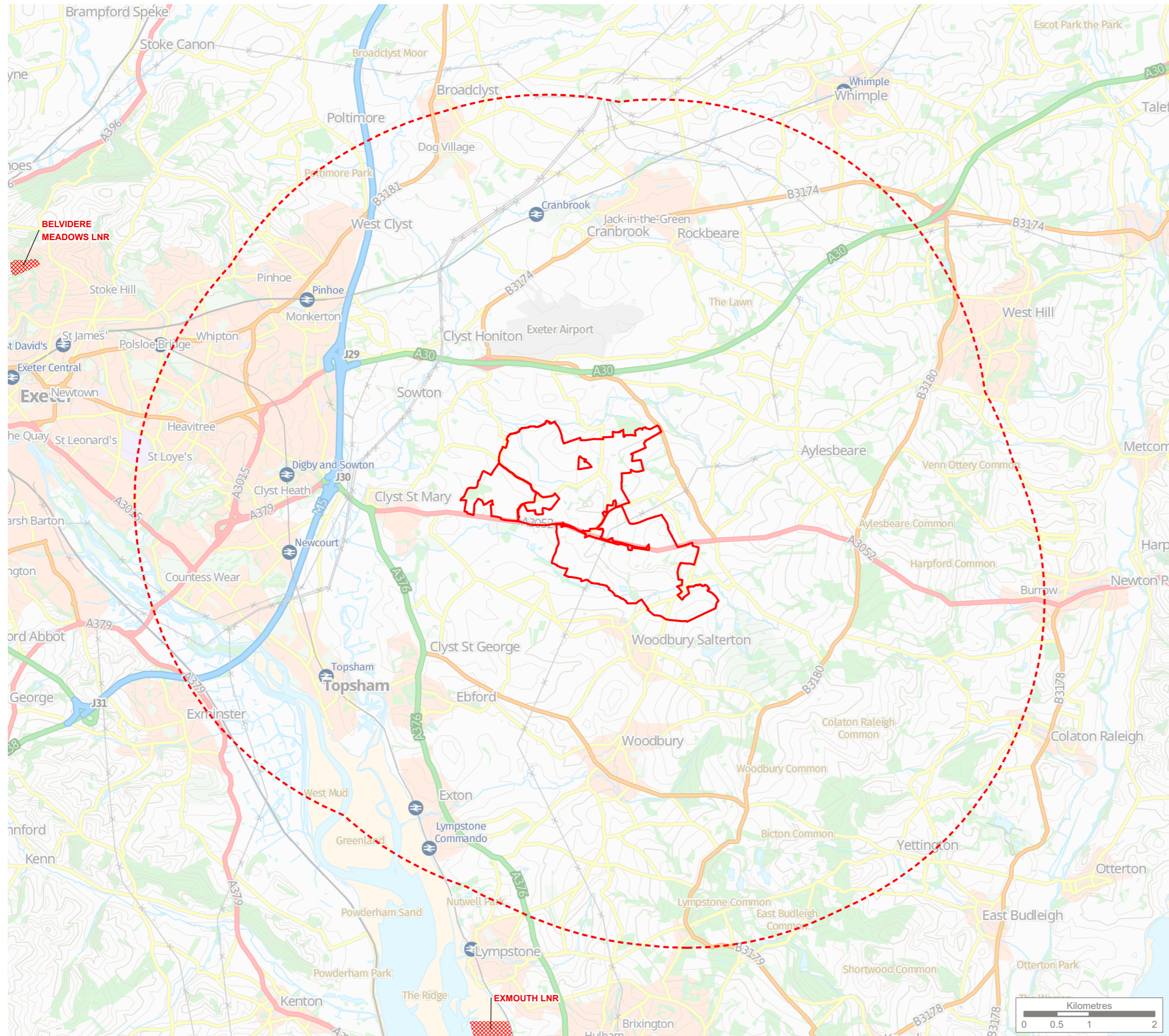
Project
East Devon Options Appraisal

Title
SSSI IRZ Option 2b

Drawing Number
G9631.015

Drawn BJ	Checked CW	Approved RR	Scale 1:20,000 @ A3	Date 29/09/2022
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KEY

- Site boundary
- Site boundary - 5km buffer
- Local Nature Reserve

CONFIDENTIAL

Sites searched for were as follows:
 - Local Nature Reserve (LNR)



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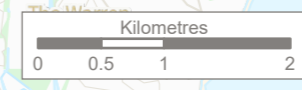
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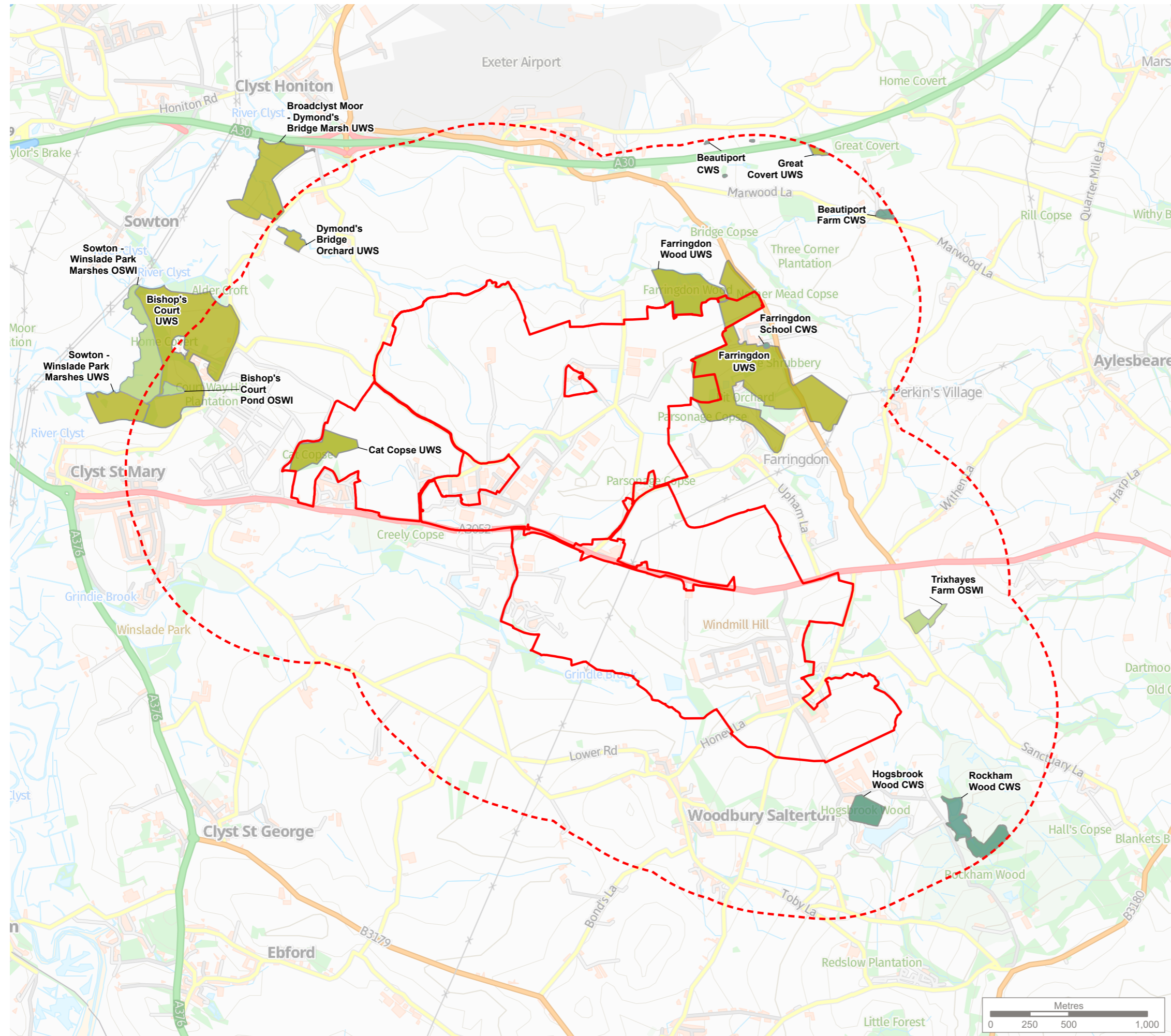
Project
East Devon Options Appraisal

Title
**Statutory Local Designated Sites Within a 5km Buffer
 Option 2b**

Drawing Number
G9631.009

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:60,000 @ A3	03/10/2022





KEY

- Site boundary
- Site boundary - 2km buffer

Non-Statutory Designation

- County Wildlife Site (CWS)
- Unconfirmed Wildlife Site (UWS)
- Other Sites of Wildlife Interest (OSWI)

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 Local sites data provided by DBRC

Rev	Description	Drawn	Approved	Date



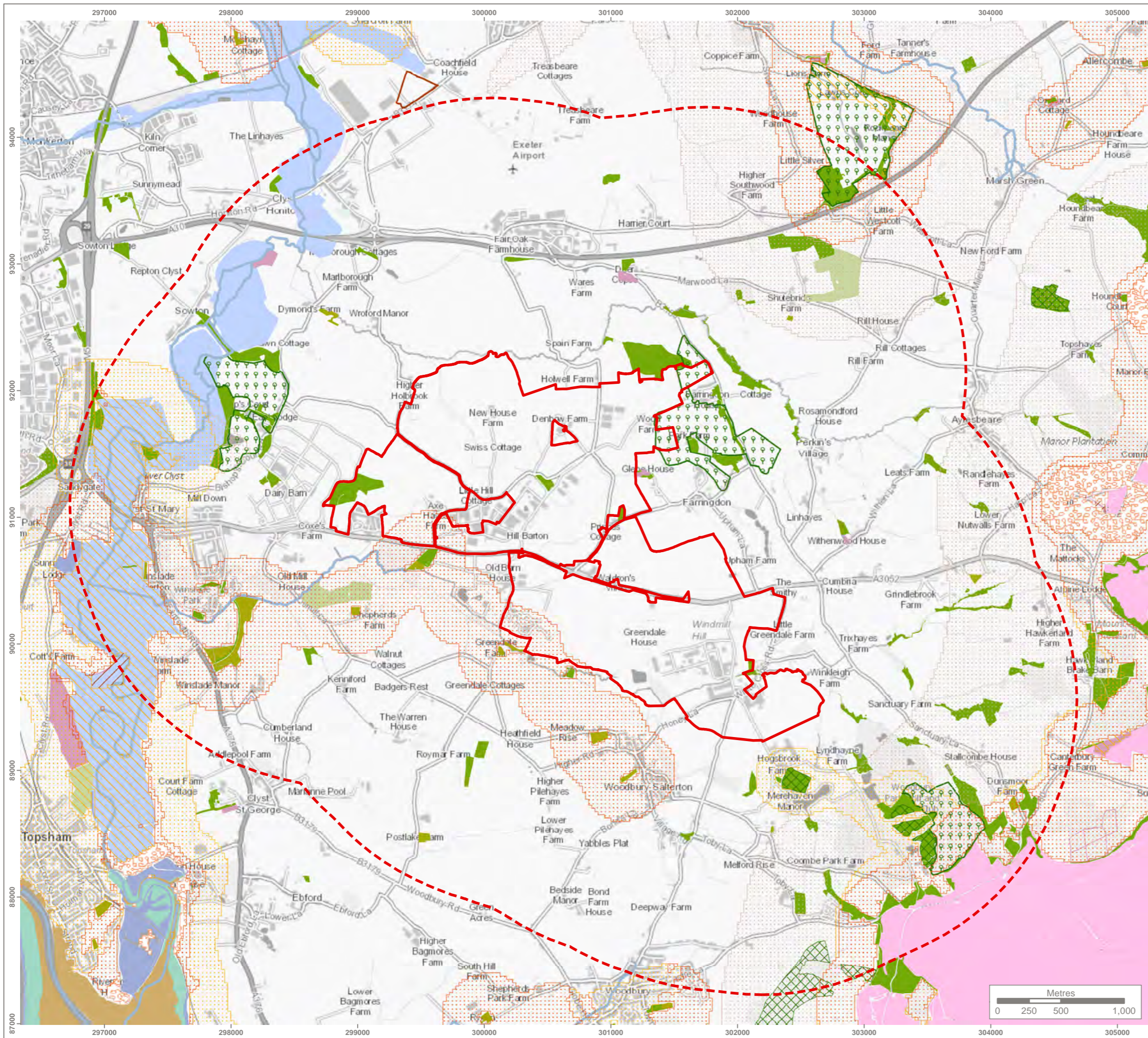
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Project
East Devon Options Appraisal

Title
**Non-Statutory Locally Designated Sites Within 1km
 Option 2b**

Drawing Number
G9631.042

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	07/10/2022



KEY

- Option boundary
 - 2km buffer
 - Main rivers
 - Ancient woodland
 - Woodpasture and parkland
 - Open mosaic habitat on previously developed land
- Priority Habitat Inventory**
- Traditional orchard
 - Deciduous woodland
 - Coastal and floodplain grazing marsh
 - Good quality semi-improved grassland
 - Lowland fens
 - Lowland heathland
 - Coastal saltmarsh
 - Mudflats
 - No main habitat but additional habitats present
- Habitat Networks**
- Habitat Restoration-Creation
 - Restorable Habitat
 - Fragmentation Action Zone
 - Network Enhancement Zone 1
 - Network Enhancement Zone 2
 - Network Expansion Zone

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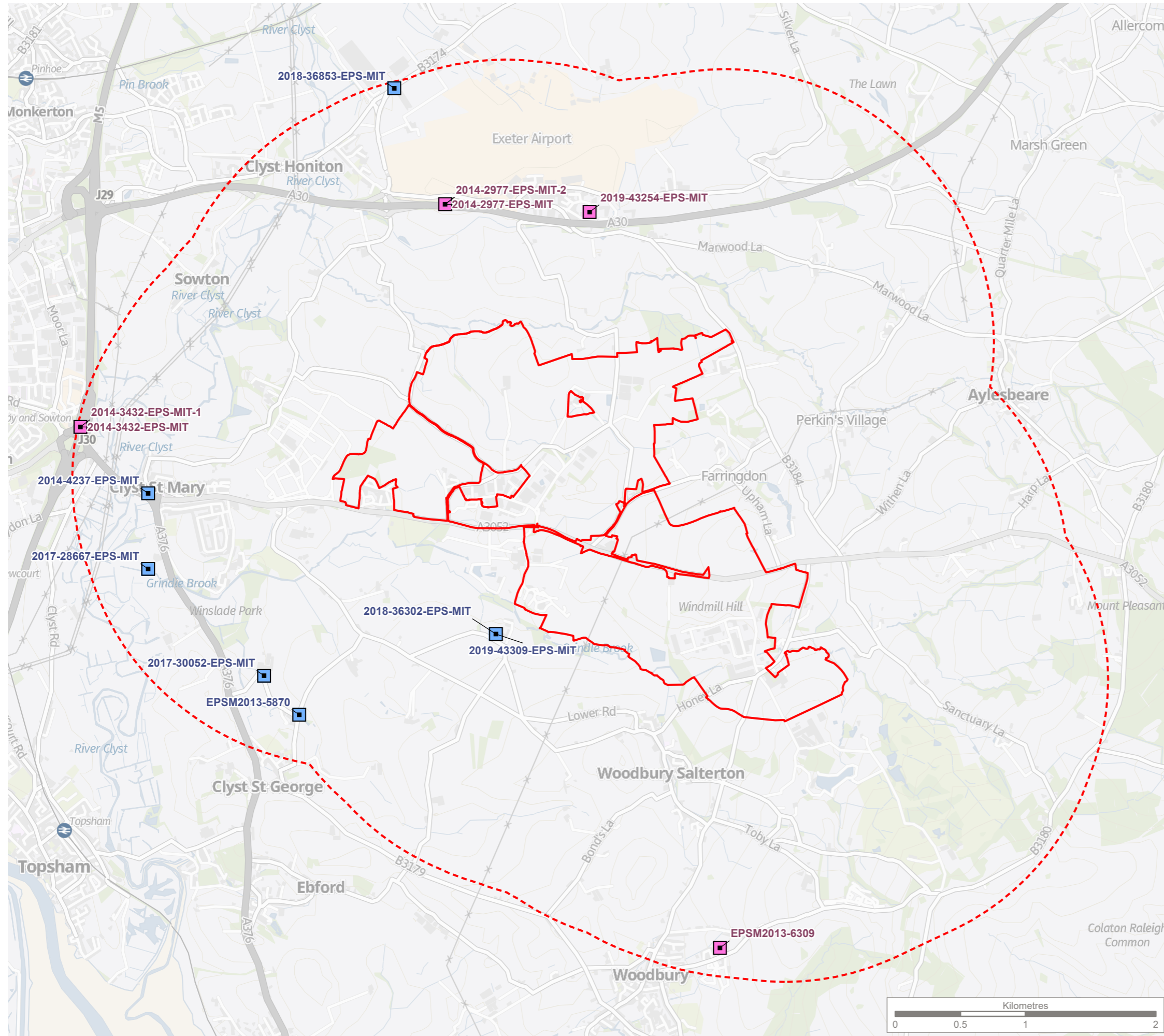
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Project
 East Devon Options Appraisal

Title
 Notable Habitats and Habitat Network Within 2km
 Option 2

Drawing Number
 G9631.018

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:30,000 @ A3	22/09/2022



KEY

- Site boundary
- Site boundary - 2km buffer

Granted European Protected Species Mitigation Licence Application

- Bat
- Other mammal

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 Granted EPS Mitigation Licence Applications <https://magic.defra.gov.uk>

Rev	Description	Drawn	Approved	Date



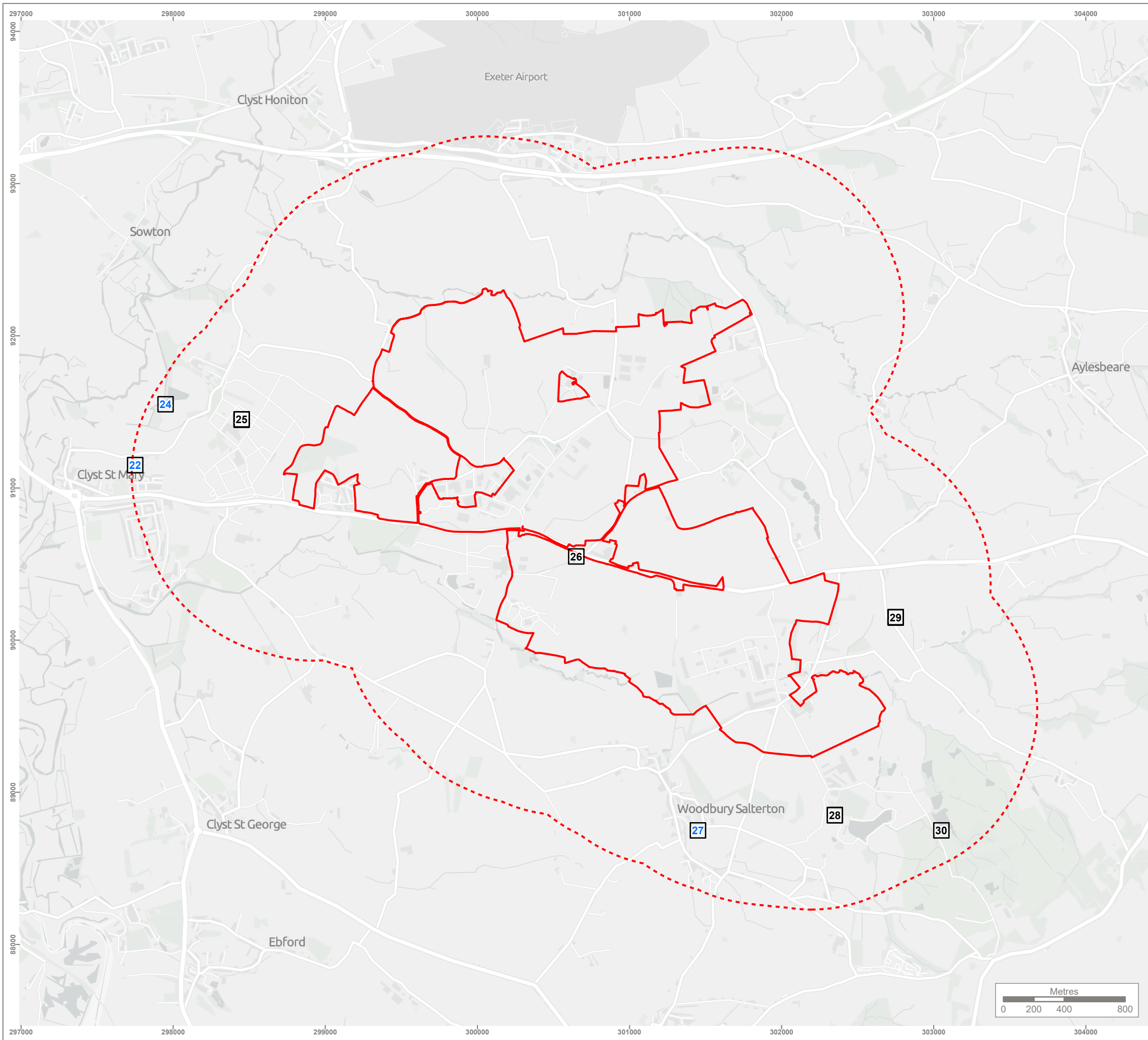
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Project
East Devon Options Appraisal

Title
Granted European Protected Species Mitigation Licence Applications Within 2km - Option 2b

Drawing Number
G9631.021

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:30,078 @ A3	23/09/2022



KEY

- Site boundary
- Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

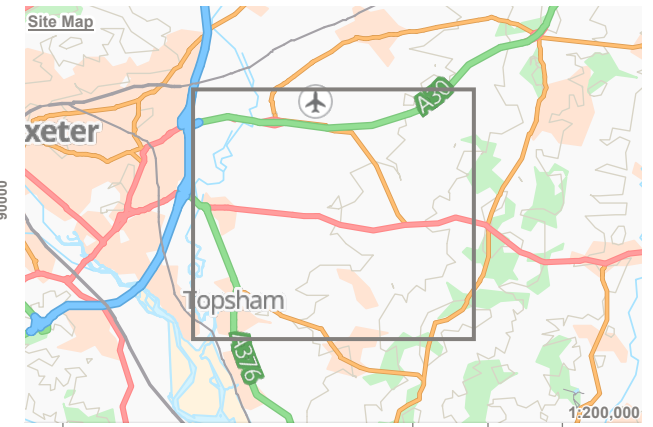
100m

Note:
Record IDs in blue indicate the presence of invasive species

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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Plants
Option 2b**

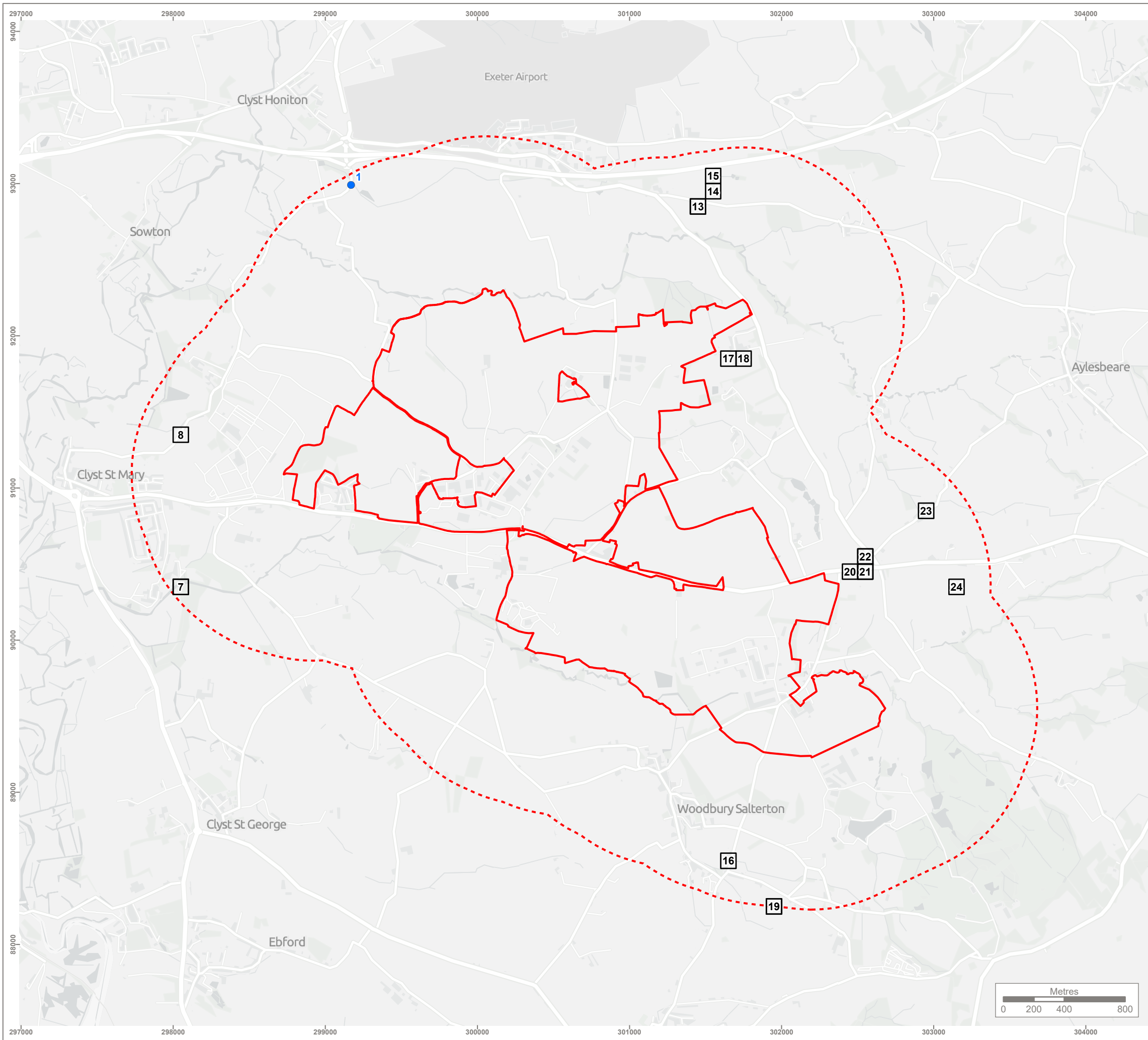
Drawing Number
G9631.024

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	30/09/2022

Plant Desktop Records (Option 2b)

Refer to drawing G9631.024 for spatial location of species data

Species Record Identifier	Common Name	Count
22	Floating Pennywort	1
24	Rhododendron	1
25	Bur Chervil	1
	Galingale	1
	Nuttall's Water-Weed	1
	Rhododendron	1
	White Water-Lily	1
26	Pyramidal Orchid	1
27	Japanese Knotweed	1
28	Primrose	1
	Smooth Brome	1
29	Corky-Fruited Water-Dropwort	2
	Pepper-Saxifrage	2
	Primrose	1
30	Corky-Fruited Water-Dropwort	1



KEY

Site boundary

Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

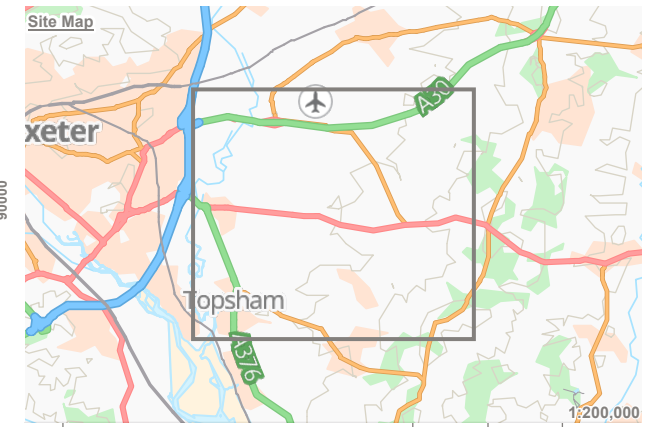
1 and 10m

100m

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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Amphibians, Reptiles and Fish
 Option 2b**

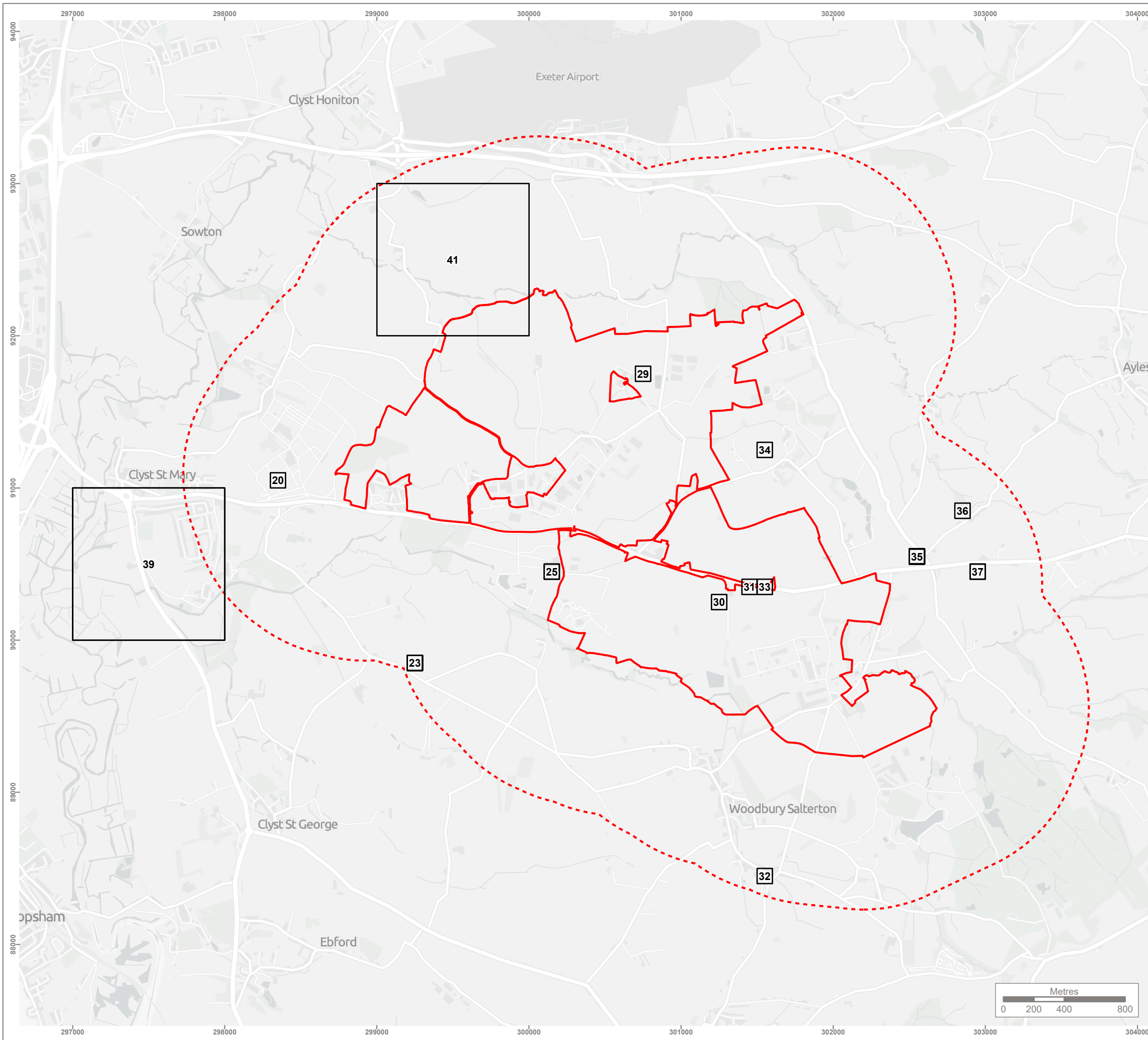
Drawing Number
G9631.027

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022

Amphibian, Reptile and Fish Desktop Records (Option 2b)

Refer to drawing G9631.027 for spatial location of species data

Species Record Identifier	Common Name	Count
1	Common Toad	1
7	Grass Snake	1
	Slow-worm	1
8	Common Toad	1
13	Great Crested Newt	2
14	Great Crested Newt	1
15	Great Crested Newt	1
16	Common Toad	1
17	Great Crested Newt	1
18	Great Crested Newt	1
19	a Newt	1
	Common Frog	1
20	Common Toad	1
21	Common Toad	1
	Slow-worm	1
22	Common Frog	1
	Smooth Newt	1
23	Smooth Newt	1
24	Common Frog	1



KEY

- Site boundary
- Site boundary - 1km buffer

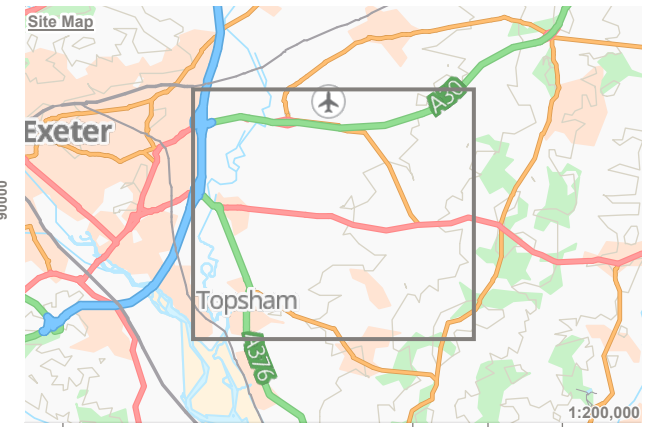
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

- 100m
- 1000m

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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Birds
 Option 2b**

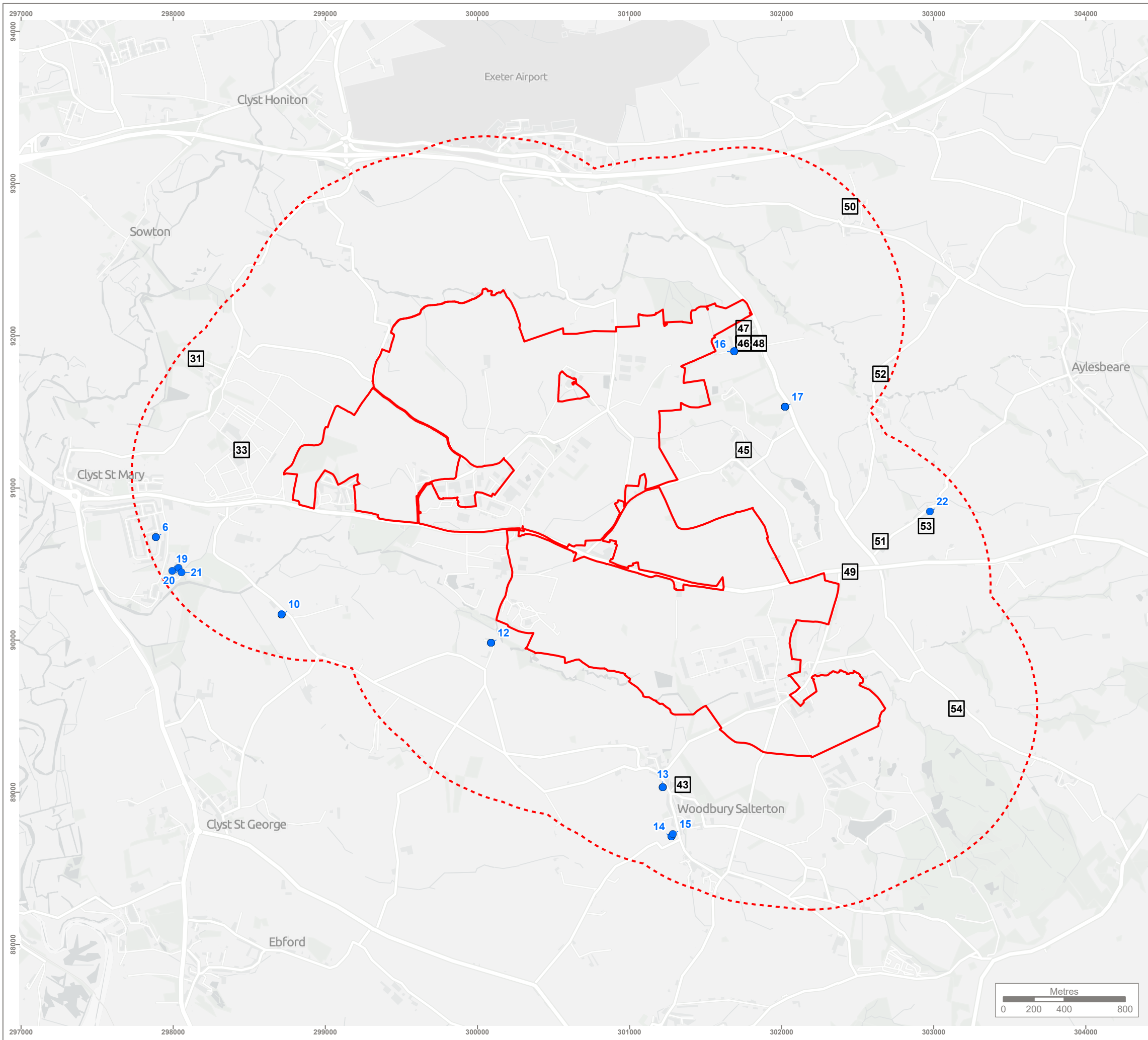
Drawing Number
G9631.030

Drawn BJ	Checked MK	Approved RR	Scale 1:25,000 @ A3	Date 03/10/2022
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Bird Desktop Records (Option 2b)

Refer to drawing G9631.030 for spatial location of species data

Species Record Identifier	Common Name	Count
20	Swift	1
23	Bullfinch	1
	Herring Gull	1
	Kestrel	1
	Skylark	1
	Snipe	1
25	Common Bullfinch	1
	Kestrel	1
29	Hoopoe	1
30	Cirl Bunting	1
31	Barn Owl	1
32	Turtle Dove	1
33	Kestrel	1
34	Barn Owl	1
35	Blue Tit	1
	Great Tit	1
	Greenfinch	1
	House Martin	2
	Redwing	1
	Robin	1
	Song Thrush	1
36	Montagu's Harrier	1
37	Kestrel	1
	Robin	1
39	Barn Owl	1
	Mediterranean Gull	1
41	Kestrel	1



KEY

- Site boundary
- Site boundary - 1km buffer
- 1 and 10m
- 100m

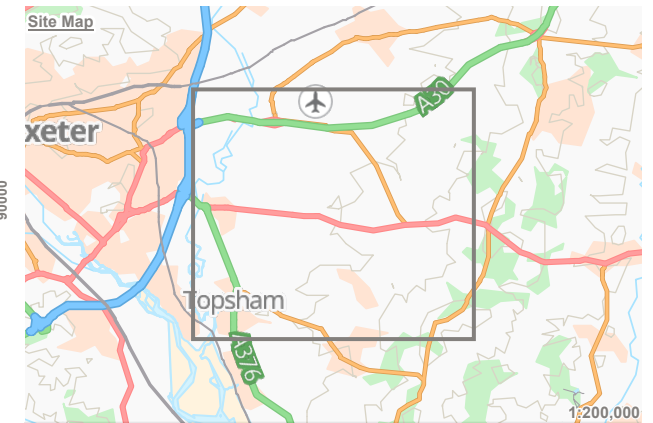
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Bats
Option 2b**

Drawing Number
G9631.033

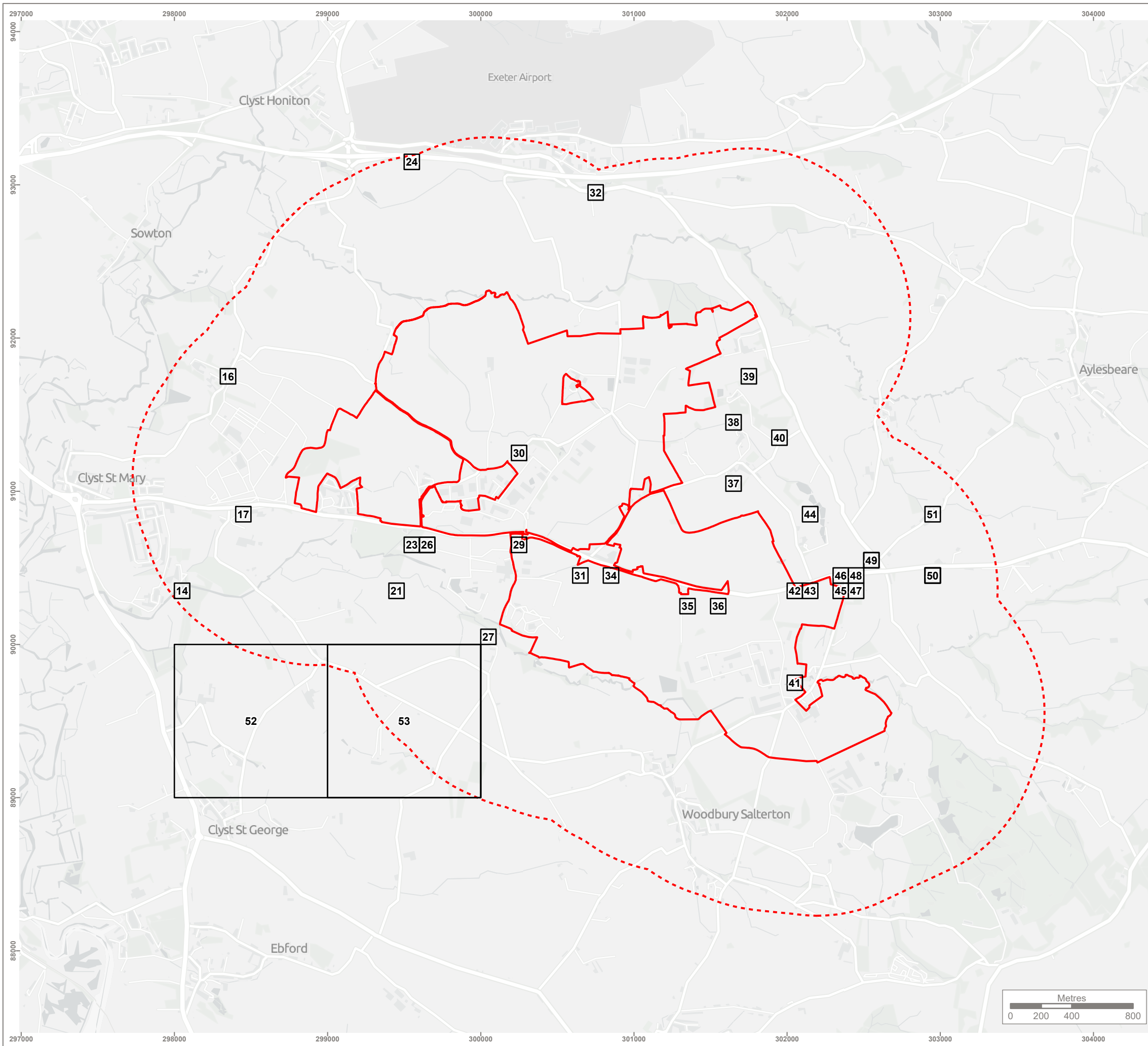
Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022

Bat Desktop Records (Option 2b)

Refer to drawing G9631.033 for spatial location of species data

Species Record Identifier	Common Name	Count
6	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
10	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
	Western Barbastelle	1
12	Brown Long-eared Bat	1
	Common Pipistrelle	1
	Lesser Horseshoe Bat	1
	Natterer's Bat	1
13	a Bat	1
	a Long-eared Bat	1
	Lesser Horseshoe Bat	1
	Western Barbastelle	1
14	a Bat	1
	a Long-eared Bat	1
	Lesser Horseshoe Bat	1
15	Western Barbastelle	1
16	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
	Western Barbastelle	1
17	a Bat	1
	Brown Long-eared Bat	1
	Common Pipistrelle	1
	Greater Horseshoe Bat	1
	Lesser Horseshoe Bat	1
	Nathusius's Pipistrelle	1
	Natterer's Bat	2
	Noctule Bat	1
	Serotine	1
	Soprano Pipistrelle	1
Western Barbastelle	1	

Species Record Identifier	Common Name	Count
19	Soprano Pipistrelle	1
20	Soprano Pipistrelle	140
21	Soprano Pipistrelle	1
22	a Bat	1
31	a Long-eared Bat	1
33	a Bat	1
	a Long-eared Bat	1
43	a Bat	1
45	a Bat	1
46	a Long-eared Bat	1
	Brown Long-eared Bat	2
	Common Pipistrelle	1
	Lesser Horseshoe Bat	4
47	Soprano Pipistrelle	1
	Common Pipistrelle	1
48	Brown Long-eared Bat	2
	Common Pipistrelle	2
	Lesser Horseshoe Bat	35
49	Common Pipistrelle	1
50	a Bat	1
51	Common Pipistrelle	1
52	Brown Long-eared Bat	1
53	a Bat	1
54	Common Pipistrelle	1



KEY

- Site boundary
- Site boundary - 1km buffer

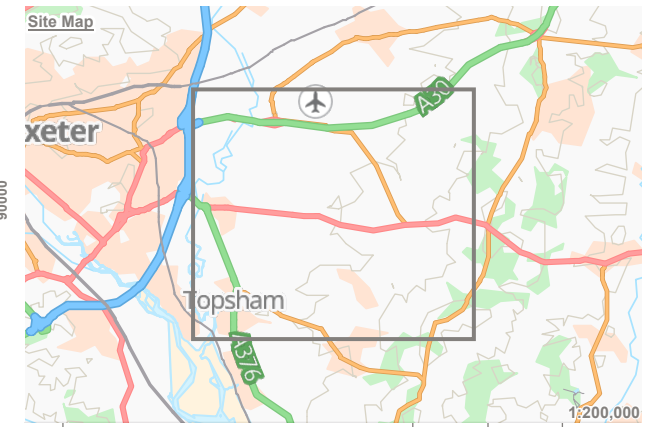
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

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Project
East Devon Options Appraisal

Title
Species Desktop Records - Other Mammals Option 2b

Drawing Number
G9631.036

Drawn BJ	Checked MK	Approved RR	Scale 1:25,000 @ A3	Date 03/10/2022
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Other Mammal Desktop Records (Option 2b)

Refer to drawing G9631.036 for spatial location of species data

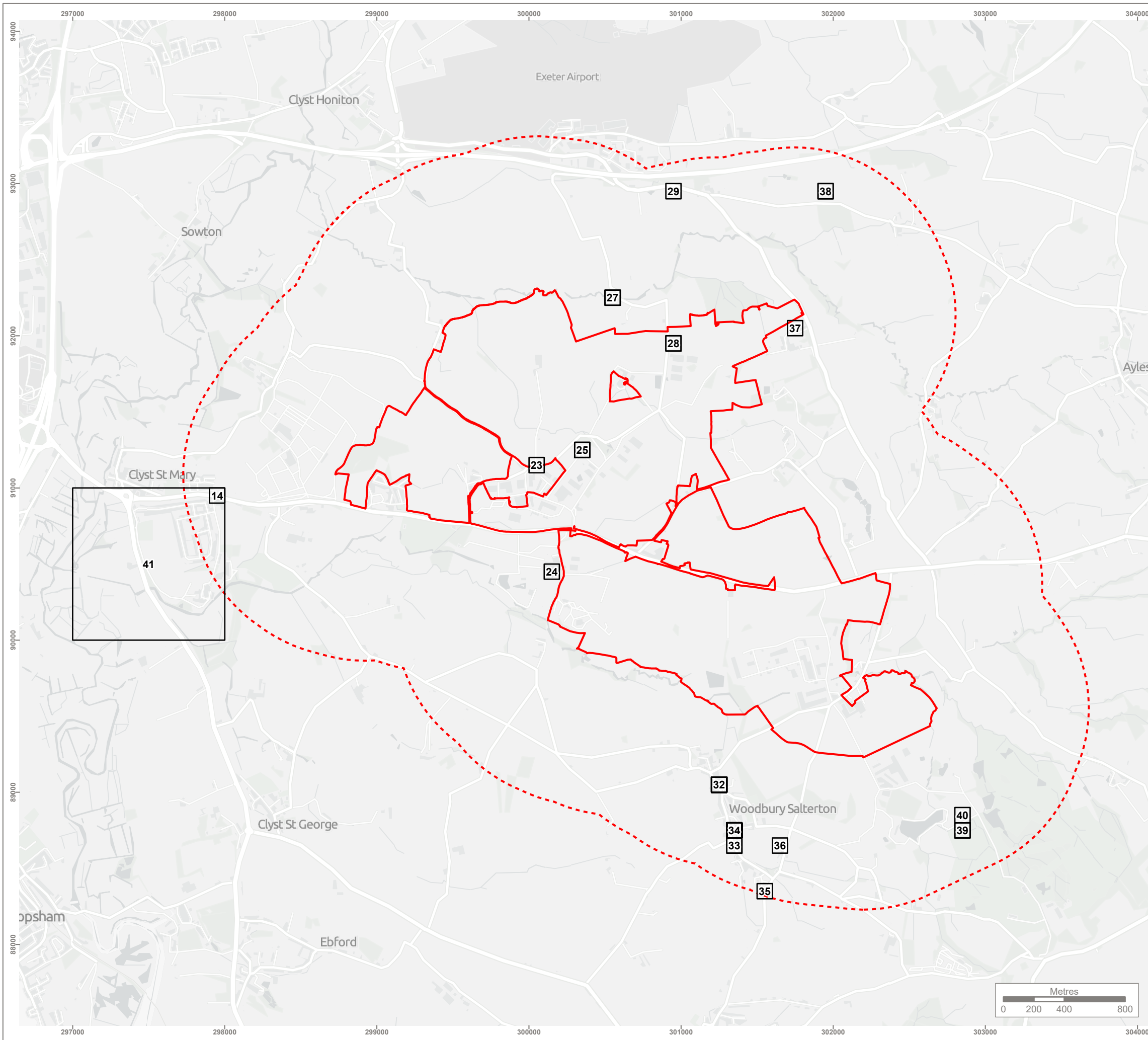
Species Record Identifier	Common Name	Count
14	Hazel Dormouse	1
16	Eurasian Badger	1
17	Eurasian Badger	1
21	Eurasian Badger	1
23	Eurasian Otter	1
24	Eurasian Badger	1
26	Eurasian Otter	2
27	Eurasian Otter	1
29	Eurasian Otter	1
30	Eurasian Badger	1
31	Eurasian Badger	1
32	Eurasian Badger	1
34	Eurasian Badger	1
35	Eurasian Badger	1
36	Eurasian Badger	1
37	Hazel Dormouse	1
38	Eurasian Badger	1
39	Eurasian Badger	1
40	Hazel Dormouse	1
41	Eurasian Otter	1
42	Eurasian Otter	1
43	Eurasian Badger	1
44	Eurasian Otter	1
45	West European Hedgehog	1
46	Eurasian Badger	1
47	Eurasian Badger	1
48	Eurasian Badger	1
49	Red Deer	1
	West European Hedgehog	1
50	Red Deer	1
	Roe Deer	1
	Sika Deer	1
51	Eurasian Badger	1
52	Eurasian Badger	1
53	Eurasian Common Shrew	1
	Eurasian Pygmy Shrew	1
	Eurasian Water Shrew	1

Invertebrate Desktop Records (Option 2b)

Refer to drawing G9631.039 for spatial location of species data

Species Record Identifier	Common Name	Count
14	Purple Hairstreak	1
23	Purple Hairstreak	1
24	Jersey Tiger	1
25	Purple Hairstreak	2
27	Purple Hairstreak	2
28	Small Heath	2
29	Purple Hairstreak	1
32	Beaded Chestnut	1
	Bloxworth Snout	1
	Brindled Beauty	1
	Buff Ermine	1
	Cinnabar	1
	Cloaked Carpet	1
	Coastal Pearl	1
	Dot Moth	1
	Dusky Brocade	1
	Dusky Thorn	1
	Green-brindled Crescent	1
	Horse Chestnut	1
	Jersey Tiger	1
	Knot Grass	1
	Lackey	1
	L-album Wainscot	1
	Marbled Green	1
	Mottled Rustic	1
	Pied Grey	1
	Portland Ribbon Wave	1
	Powdered Quaker	1
	Rosy Rustic	1
	Sallow	1
	September Thorn	1
	Shoulder-striped Wainscot	1
	Spinach	1
	White Ermine	1
	White-line Dart	1
33	Mullein Wave	1
	White Ermine	1
34	August Thorn	1
	Autumnal Rustic	1
	Beaded Chestnut	1
	Bleached Pug	1
	Blood-Vein	1
	Bloxworth Snout	1
	Brindled Beauty	1
	Buff Ermine	1
	Centre-barred Sallow	1
	Cinnabar	1
	Cloaked Carpet	1
	Dark-barred Twin-spot Carpet	1

Species Record Identifier	Common Name	Count
34	Dot Moth	1
	Double Dart	1
	Dusky Brocade	1
	Dusky Thorn	1
	Figure of Eight	1
	Flounced Chestnut	1
	Galium Carpet	1
	Garden Tiger	1
	Ghost Moth	1
	Green-brindled Crescent	1
	Heath Rustic	1
	Horse Chestnut	1
	Jersey Tiger	1
	Kent Black Arches	1
	Knot Grass	1
	Lackey	1
	L-album Wainscot	1
	Large Wainscot	1
	Marbled Green	1
	Mocha	1
	Mottled Rustic	1
	Mouse Moth	1
	Neglected Rustic	1
	Oak Hook-tip	1
	Orange Footman	1
	Pale Eggar	1
	Powdered Quaker	1
	Rosy Minor	1
	Rosy Rustic	1
	Ruddy Carpet	1
	Rustic	1
	Sallow	1
	September Thorn	1
Shaded Broad-bar	1	
Shoulder-striped Wainscot	1	
Small Emerald	1	
Small Phoenix	1	
Small Square-spot	1	
Sprawler	1	
White Ermine	1	
35	Lackey	1
36	Small Eggar	1
37	Purple Hairstreak	1
38	Purple Hairstreak	1
	Small Heath	1
39	Dark Green Fritillary	1
	Purple Hairstreak	1
40	Purple Hairstreak	1
41	Knot Grass	1



KEY

- Site boundary
- Site boundary - 1km buffer

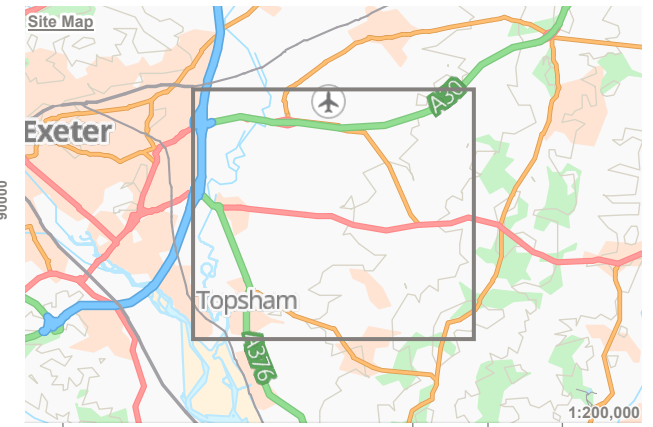
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

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Project
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Title
Species Desktop Records - Invertebrates Option 2b

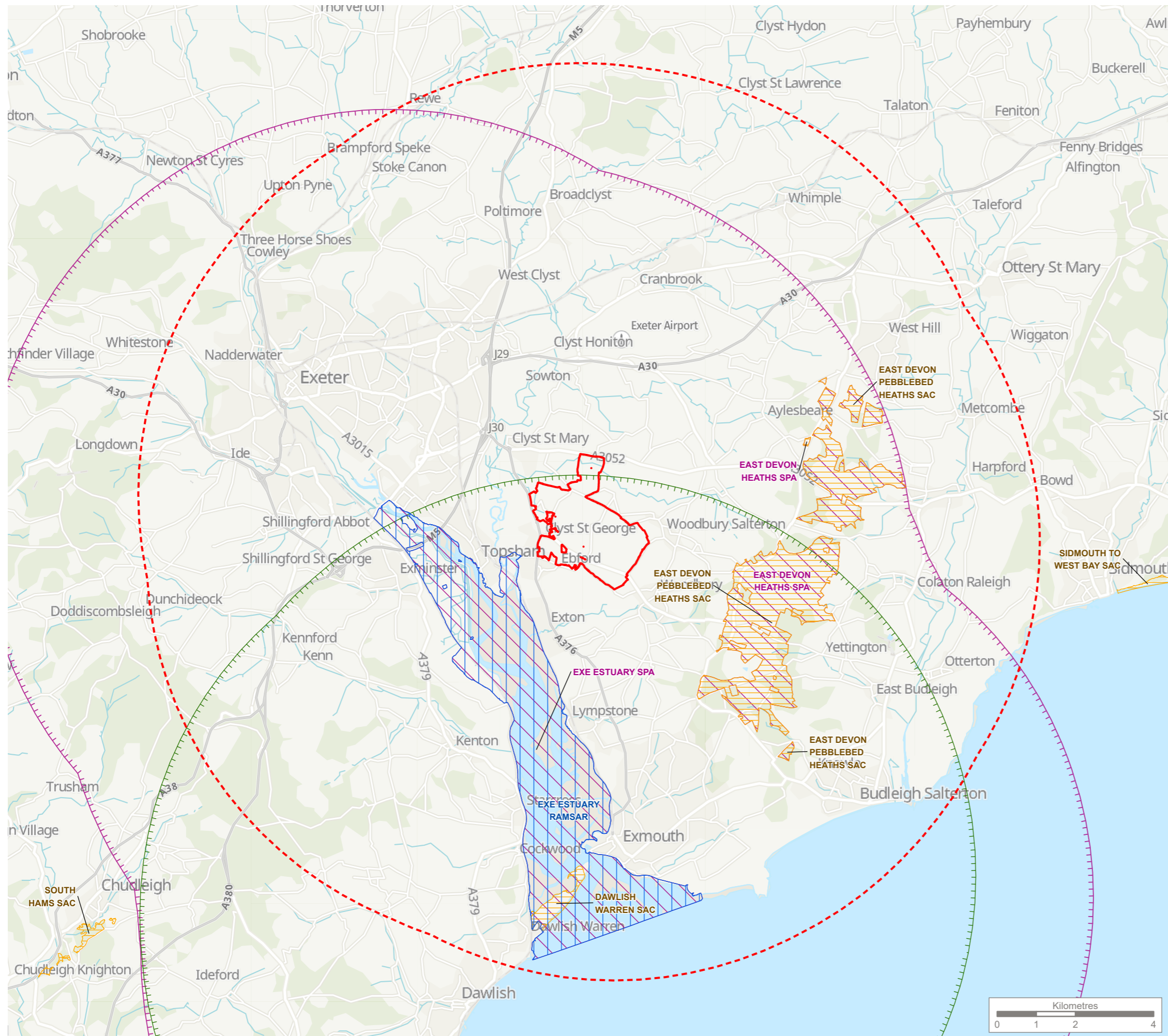
Drawing Number
G9631.039

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022



Drawings

Option 3



KEY

- Site boundary
- Site boundary - 10km buffer
- Ramsar
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Dawlish Warren SAC Buffer Area
- Exe Estuary SPA Buffer Area

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- Sites searched for were as follows:
- Ramsar and Proposed Ramsar
 - Special Protection Areas (SPA) and Potential SPA
 - Special Areas of Conservation (SAC) and Potential SAC

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Rev	Description	Drawn	Approved	Date



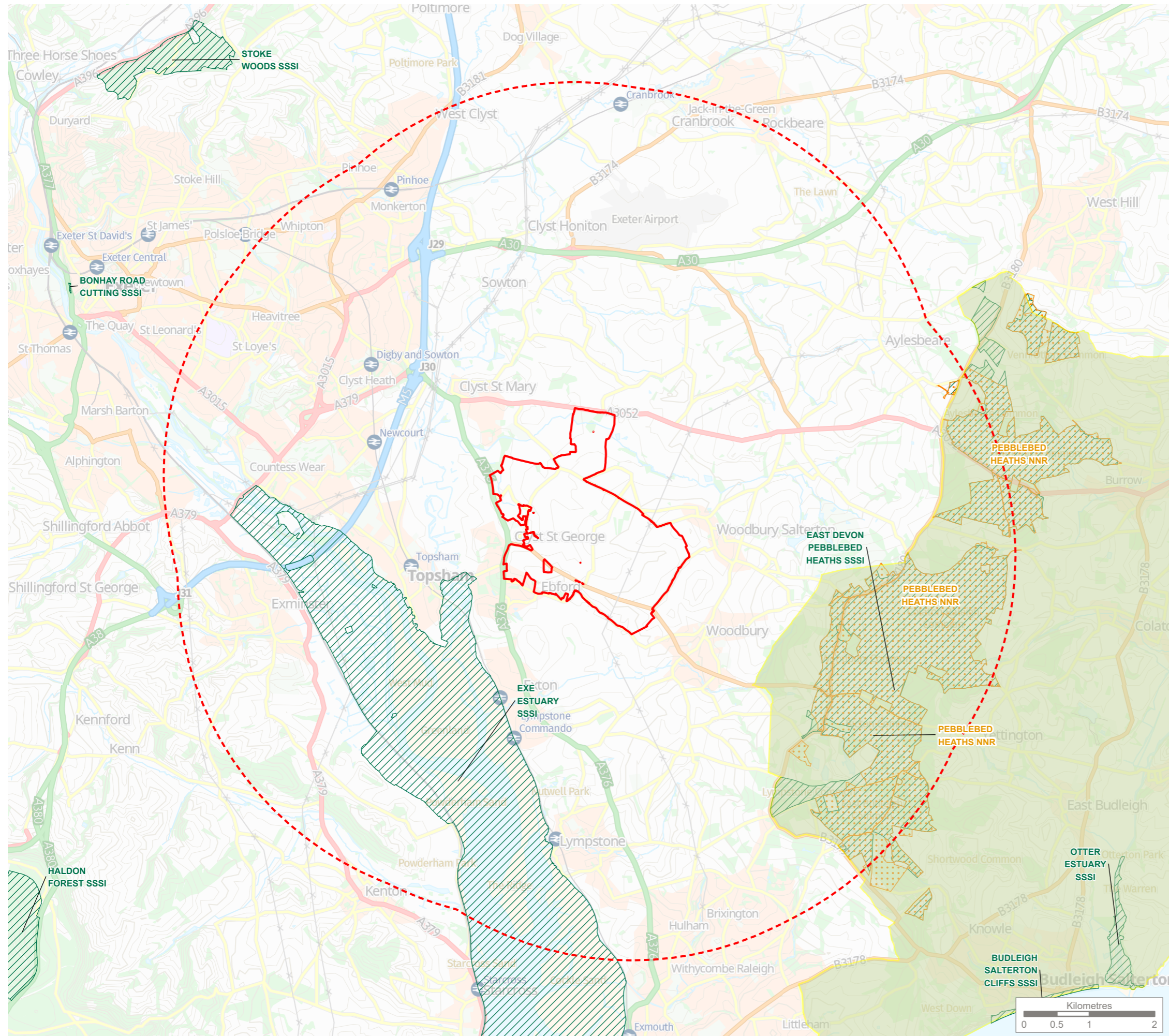
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
 Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
East Devon Options Appraisal

Title
**Internationally Designated Sites Within a 10km Buffer
 Option 3**

Drawing Number
G9631.004

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:100,000 @ A3	03/10/2022



KEY

- Site boundary
- Site boundary - 5km buffer
- Natural England Data**
- Areas of Outstanding Natural Beauty
- National Nature Reserve (NNR)
- Sites of Special Scientific Interest (SSSI)

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- Sites searched for were as follows:
- Sites of Special Scientific Interest (SSSI)
 - National Nature Reserve (NNR)
 - Area of Outstanding Natural Beauty (AONB)
 - Marine Conservation Zones (MCZ)



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Rev	Description	Drawn	Approved	Date



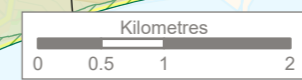
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Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

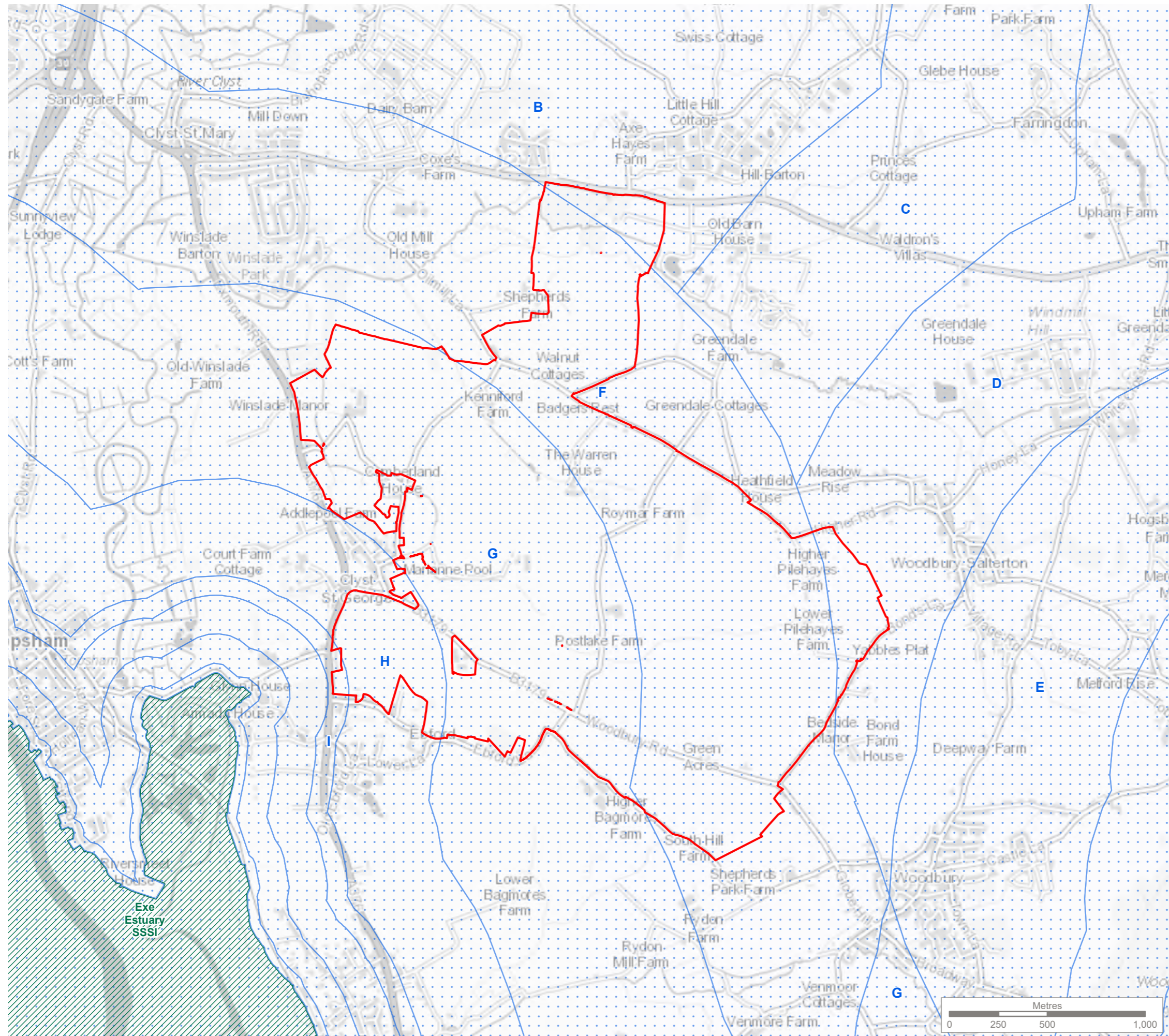
Project
East Devon Options Appraisal

Title
**Nationally Designated Sites Within a 5km Buffer
Option 3**

Drawing Number
G9631.007

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:60,000 @ A3	21/09/2022





KEY

- Site boundary
- Sites of Special Scientific Interest
- Sites of Special Scientific Interest - Impact Risk Zone

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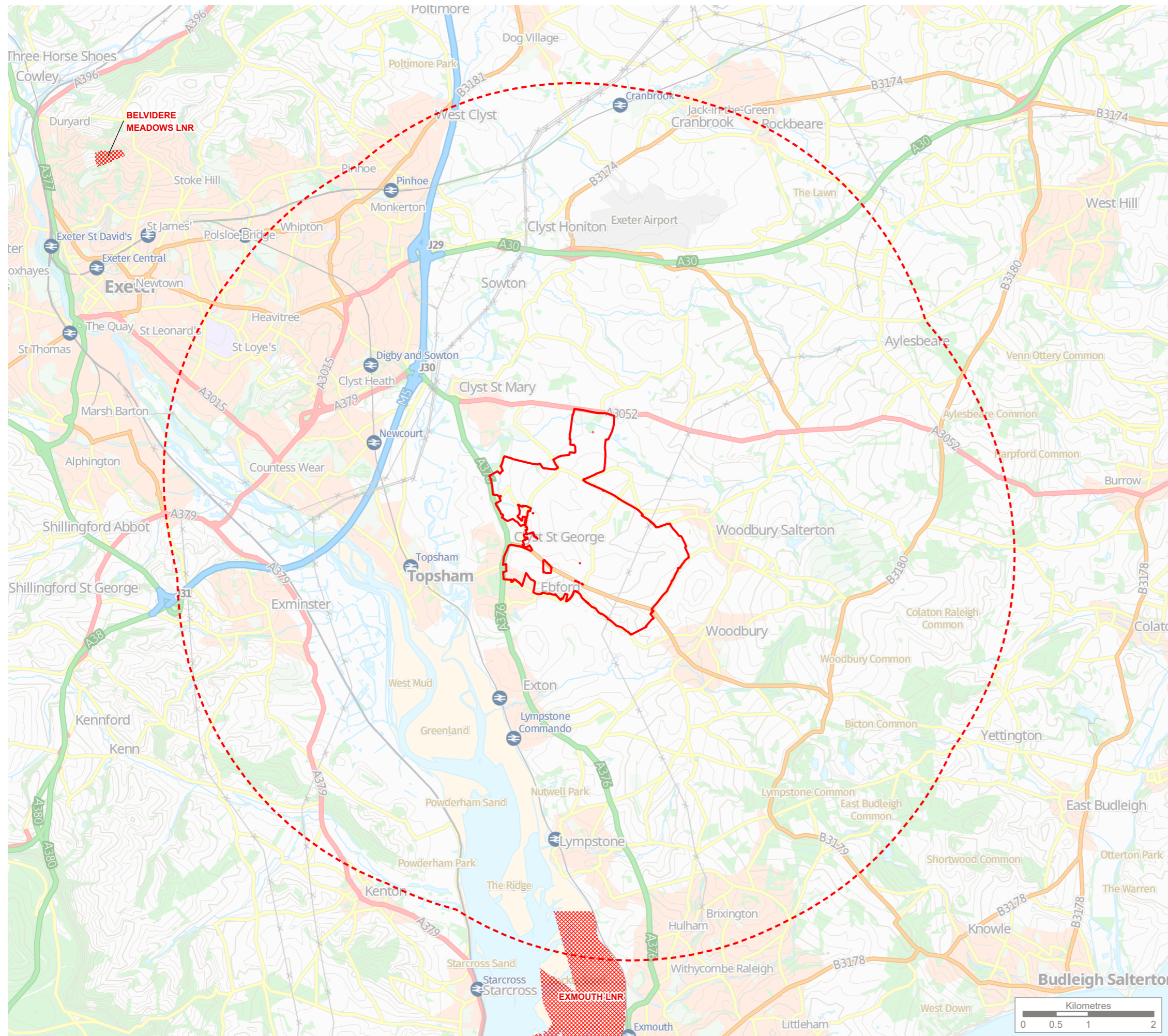
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Project
East Devon Options Appraisal




Title
**SSSI IRZ
 Option 3**

Drawing Number
G9631.016

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:20,000 @ A3	29/09/2022



KEY

-  Site boundary
-  Site boundary - 5km buffer
-  Local Nature Reserve

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Sites searched for were as follows:
- Local Nature Reserve (LNR)



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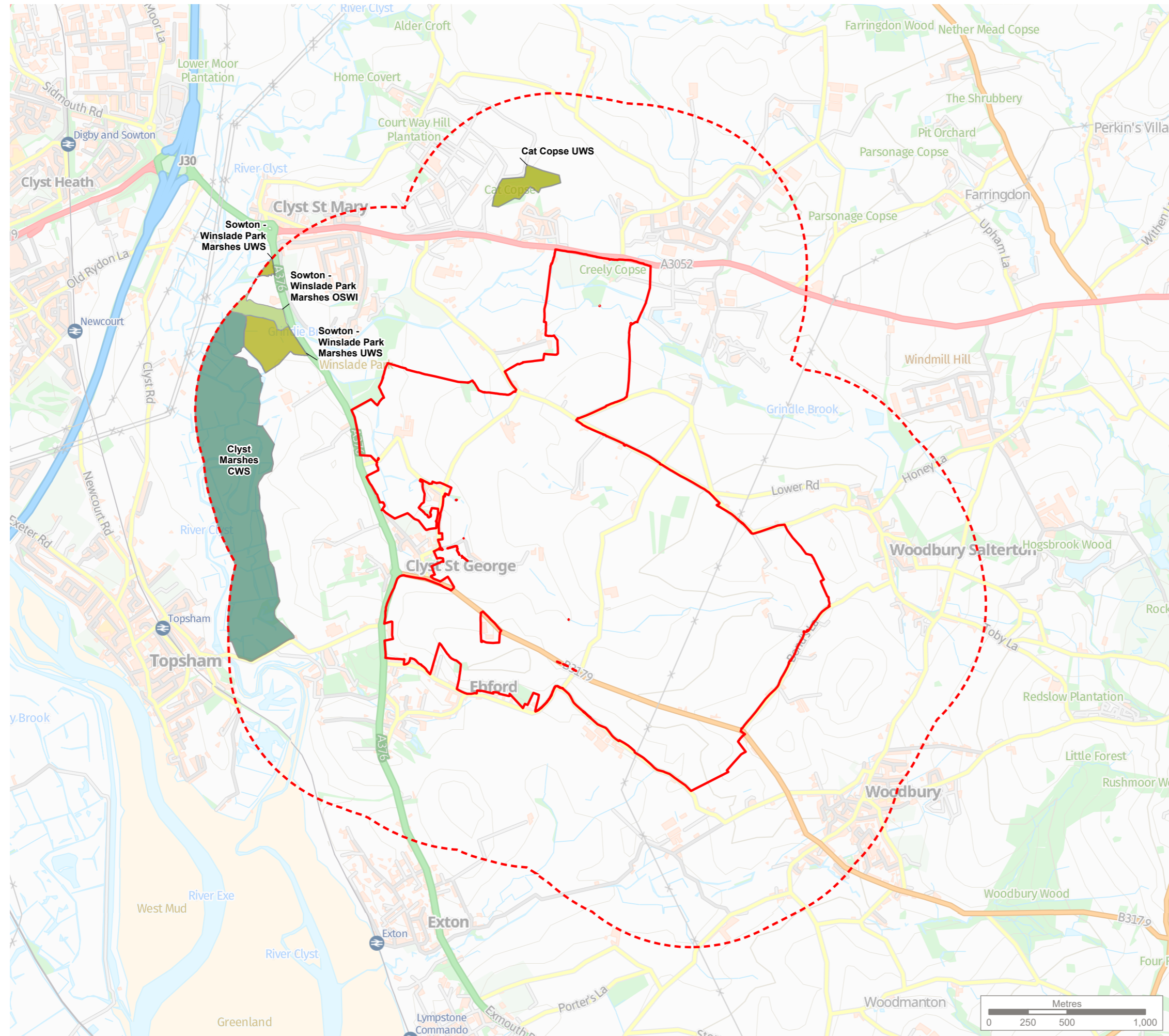
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Project
East Devon Options Appraisal

Title
**Statutory Local Designated Sites Within a 5km Buffer
Option 3**

Drawing Number
G9631.010

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:60,000 @ A3	10/10/2022



KEY

- Site boundary
- Site boundary - 1km buffer

Non-Statutory Designation

- County Wildlife Site (CWS)
- Unconfirmed Wildlife Site (UWS)
- Other Sites of Wildlife Interest (OSWI)

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 Devon Biodiversity Record Centre
 Local sites data provided by DBRC

Rev	Description	Drawn	Approved	Date



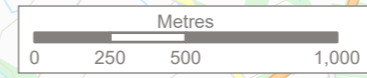
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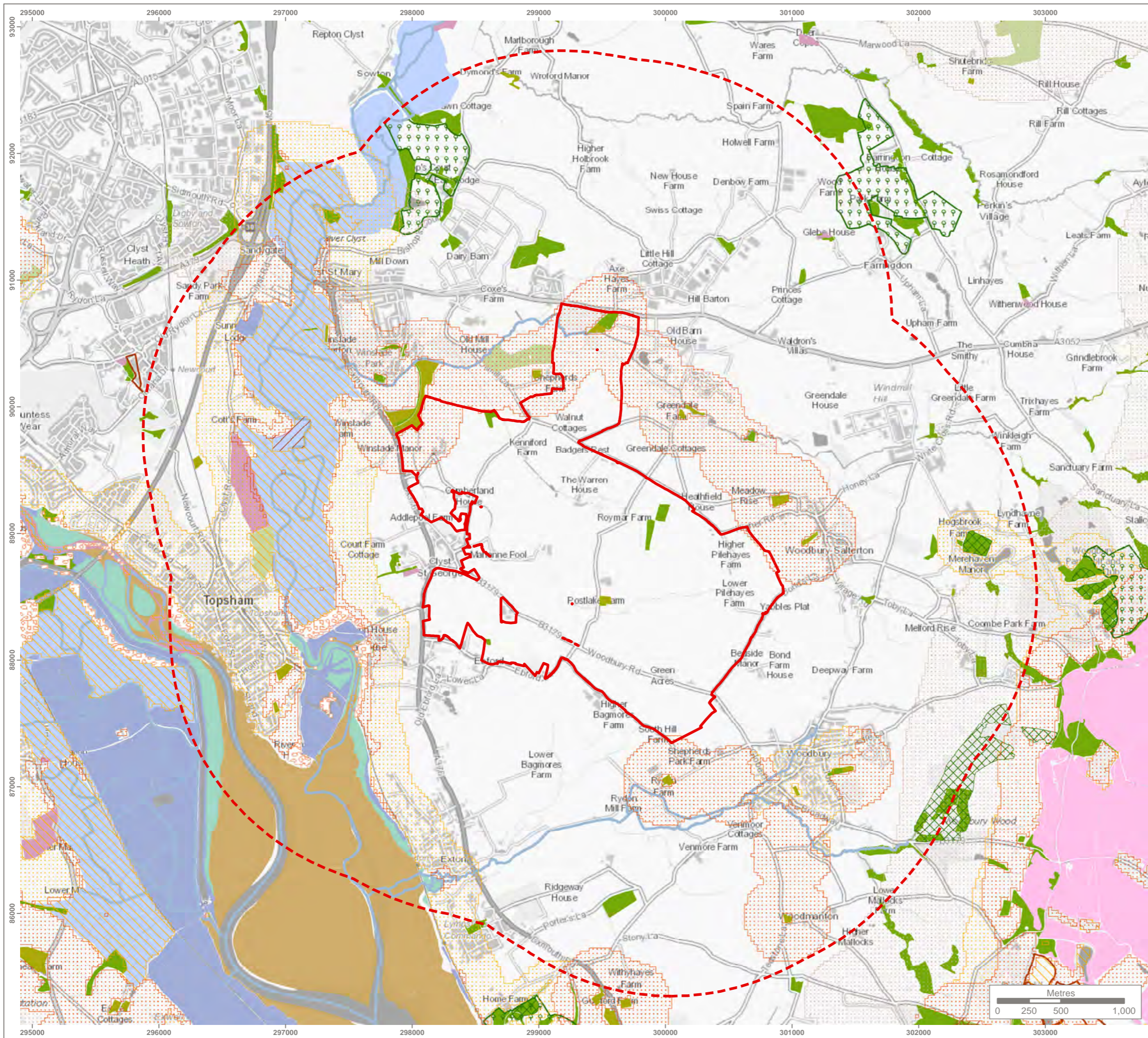
Project
East Devon Options Appraisal

Title
**Non-Statutory Locally Designated Sites Within 1km
 Option 3**

Drawing Number
G9631.043

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	07/10/2022





KEY

- Option boundary
- 2km buffer
- Main rivers
- Ancient woodland
- Woodpasture and parkland
- Open mosaic habitat on previously developed land

Priority Habitat Inventory

- Traditional orchard
- Deciduous woodland
- Coastal and floodplain grazing marsh
- Good quality semi-improved grassland
- Lowland fens
- Lowland heathland
- Coastal saltmarsh
- Mudflats
- No main habitat but additional habitats present

Habitat Networks

- Habitat Restoration-Creation
- Restorable Habitat
- Fragmentation Action Zone
- Network Enhancement Zone 1
- Network Enhancement Zone 2
- Network Expansion Zone

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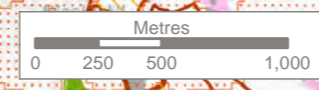
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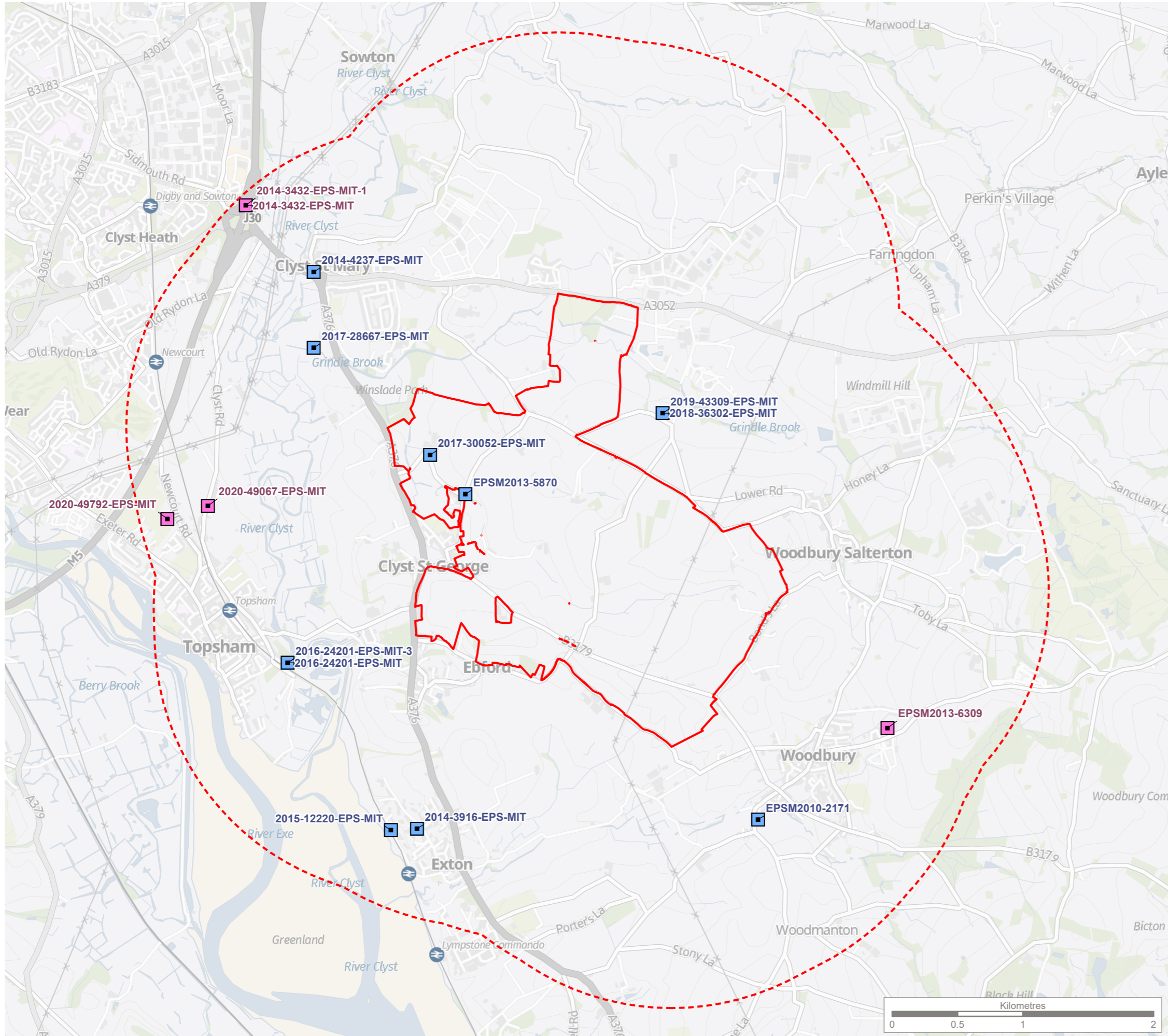
Project
East Devon Options Appraisal

Title
Notable Habitats and Habitat Network Within 2km Option 3

Drawing Number
G9631.019

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:30,000 @ A3	22/09/2022





KEY

- Site boundary
- Site boundary - 2km buffer

Granted European Protected Species Mitigation Licence Application

- Bat
- Other mammal

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 Granted EPS Mitigation Licence Applications <https://magic.defra.gov.uk>

Rev	Description	Drawn	Approved	Date

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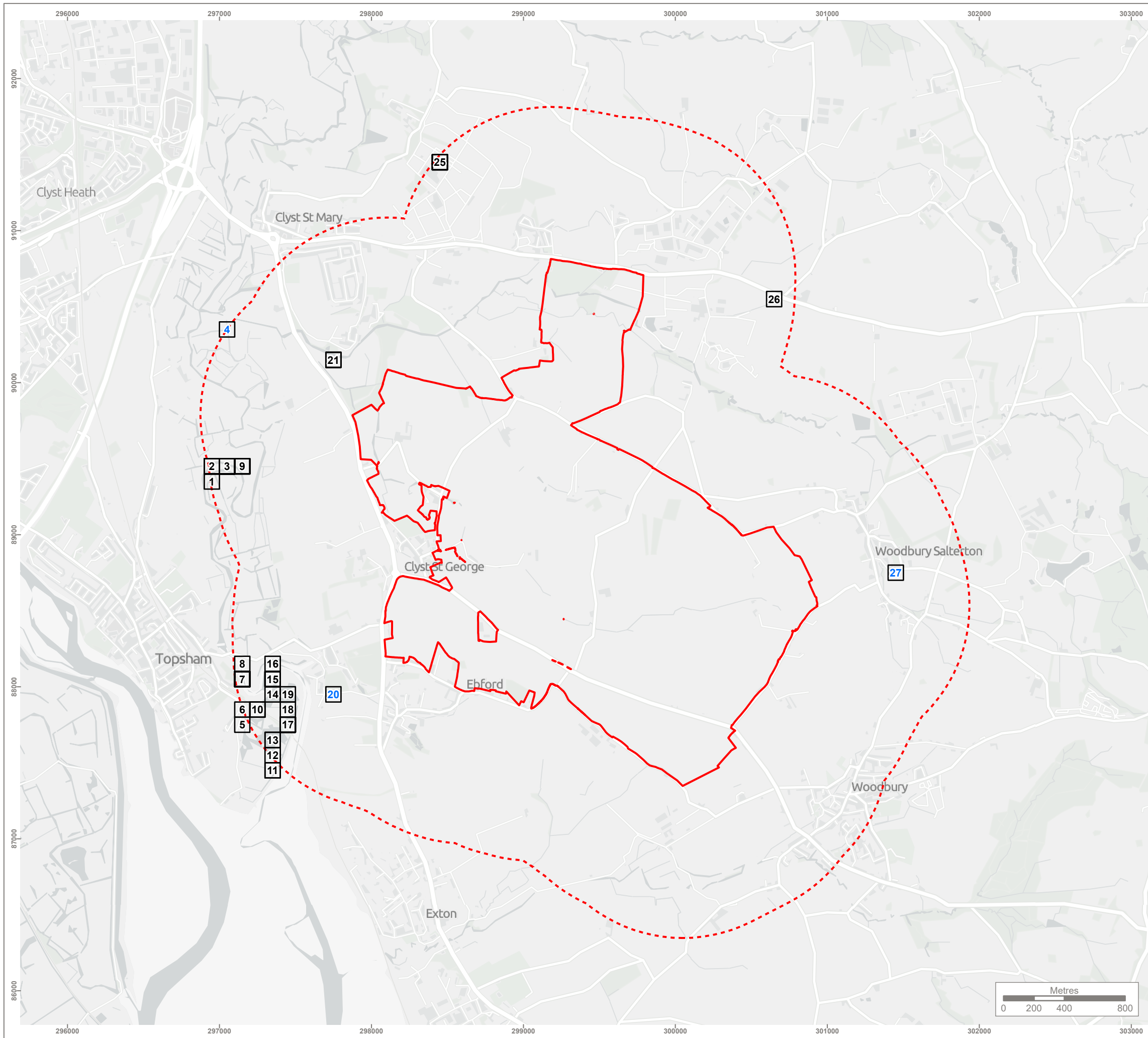
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Project
East Devon Options Appraisal

Title
Granted European Protected Species Mitigation Licence Applications Within 2km - Option 3

Drawing Number
G9631.022

Drawn	Checked	Approved	Scale	Date
BJ	CW	RR	1:30,000 @ A3	23/09/2022



KEY

- Site boundary
- Site boundary - 1km buffer

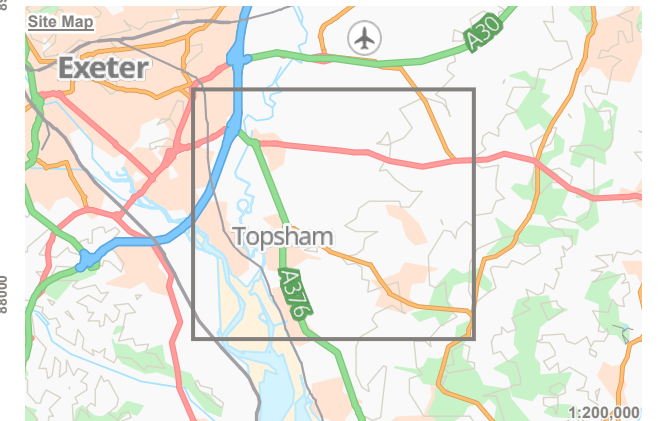
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

100m

Note:
Record IDs in blue indicate the presence of invasive species

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Project
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Title
**Species Desktop Records - Plants
Option 3**

Drawing Number
G9631.025

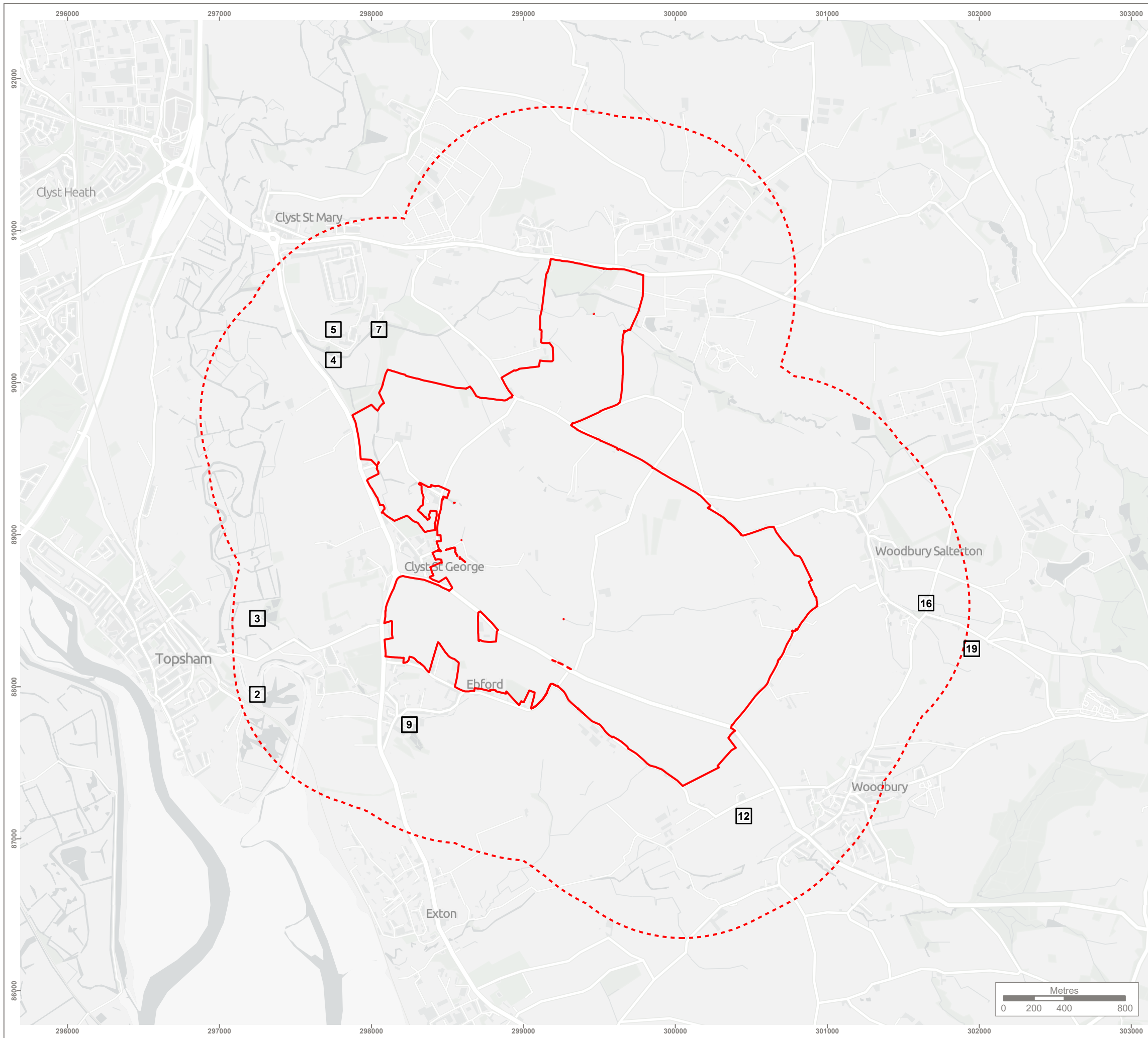
Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	30/09/2022

Plant Desktop Records (Option 3)

Refer to drawing G9631.025 for spatial location of species data

Species Record Identifier	Common Name	Count
1	Bulbous Foxtail	1
2	Bulbous Foxtail	1
	Corky-Fruited Water-Dropwort	1
	Fat Duckweed	1
	Great Pond-Sedge	1
	Greater Duckweed	1
	Grey Club-Rush	1
	Ivy-Leaved Duckweed	1
	Meadow Barley	1
	Meadow Brome	1
3	Bulbous Foxtail	1
	Bulrush	1
	Canadian Pondweed	1
	Corky-Fruited Water-Dropwort	1
	English Scurvygrass	1
	Fennel Pondweed	1
	Great Pond-Sedge	2
	Great Water Dock	1
	Greater Sea-Spurrey	1
	Grey Club-Rush	1
	Lesser Sea-Spurrey	1
	Meadow Barley	1
	Meadow Brome	1
	Sea Aster	1
	Small Bur-Reed	1
Yellow Water-Lily	1	
4	Indian Balsam	1
5	Box	1
6	Annual Beard-Grass	1
7	Borrer's Saltmarsh-Grass	1
	Bulbous Foxtail	1
	Greater Sea-Spurrey	1
	Lesser Sea-Spurrey	1
	Meadow Barley	1
	Primrose	1
	Procumbent Meadow-Grass	1
	Sea Aster	1
	Sea Meadow-Grass	1
	Sea Purslane	1
Sea Rush	1	
8	Bulbous Foxtail	1

Species Record Identifier	Common Name	Count
9	Bulbous Foxtail	1
	Canadian Pondweed	1
	Horned Pondweed	1
	Lesser Pondweed	1
	Spiked Water-Milfoil	1
10	Borrer's Saltmarsh-Grass	1
	Bulbous Foxtail	2
11	Bulbous Foxtail	1
	Procumbent Meadow-Grass	1
12	Procumbent Meadow-Grass	1
13	Great Pond-Sedge	1
	Procumbent Meadow-Grass	1
14	Bulbous Foxtail	1
15	Annual Sea-blite	1
	English Scurvygrass	1
	Greater Sea-Spurrey	1
	Hard Grass	1
	Lesser Sea-Spurrey	1
	Sea Aster	1
	Sea Couch	1
	Sea Meadow-Grass	1
Sea Purslane	1	
16	Sea Aster	1
17	Corky-Fruited Water-Dropwort	1
	Greater Sea-Spurrey	1
	Grey Club-Rush	1
	Lesser Sea-Spurrey	1
	Meadow Barley	1
	Procumbent Meadow-Grass	1
18	Procumbent Meadow-Grass	1
19	Procumbent Meadow-Grass	1
20	Japanese Knotweed	1
21	Indian Balsam	1
	Reed Sweet-grass	1
	Yellow Water-Lily	1
25	Bur Chervil	1
	Galingale	1
	Nuttall's Water-Weed	1
	Rhododendron	1
	White Water-Lily	1
26	Pyramidal Orchid	1
27	Japanese Knotweed	1



KEY

- Site boundary
- Site boundary - 1km buffer

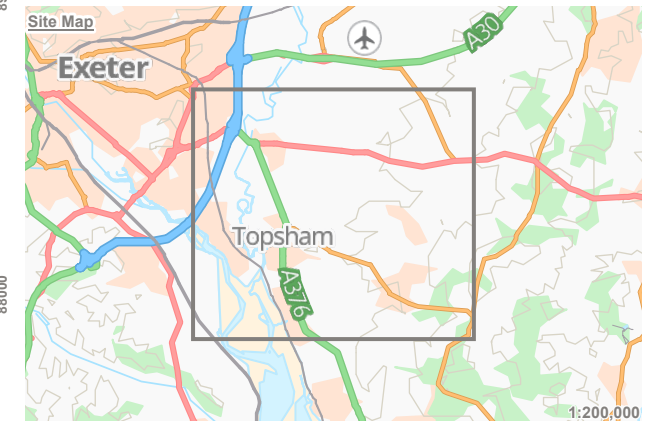
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

- 100m

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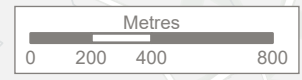
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Project
East Devon Options Appraisal

Title
Species Desktop Records - Amphibians, Reptiles and Fish Option 3

Drawing Number
G9631.028

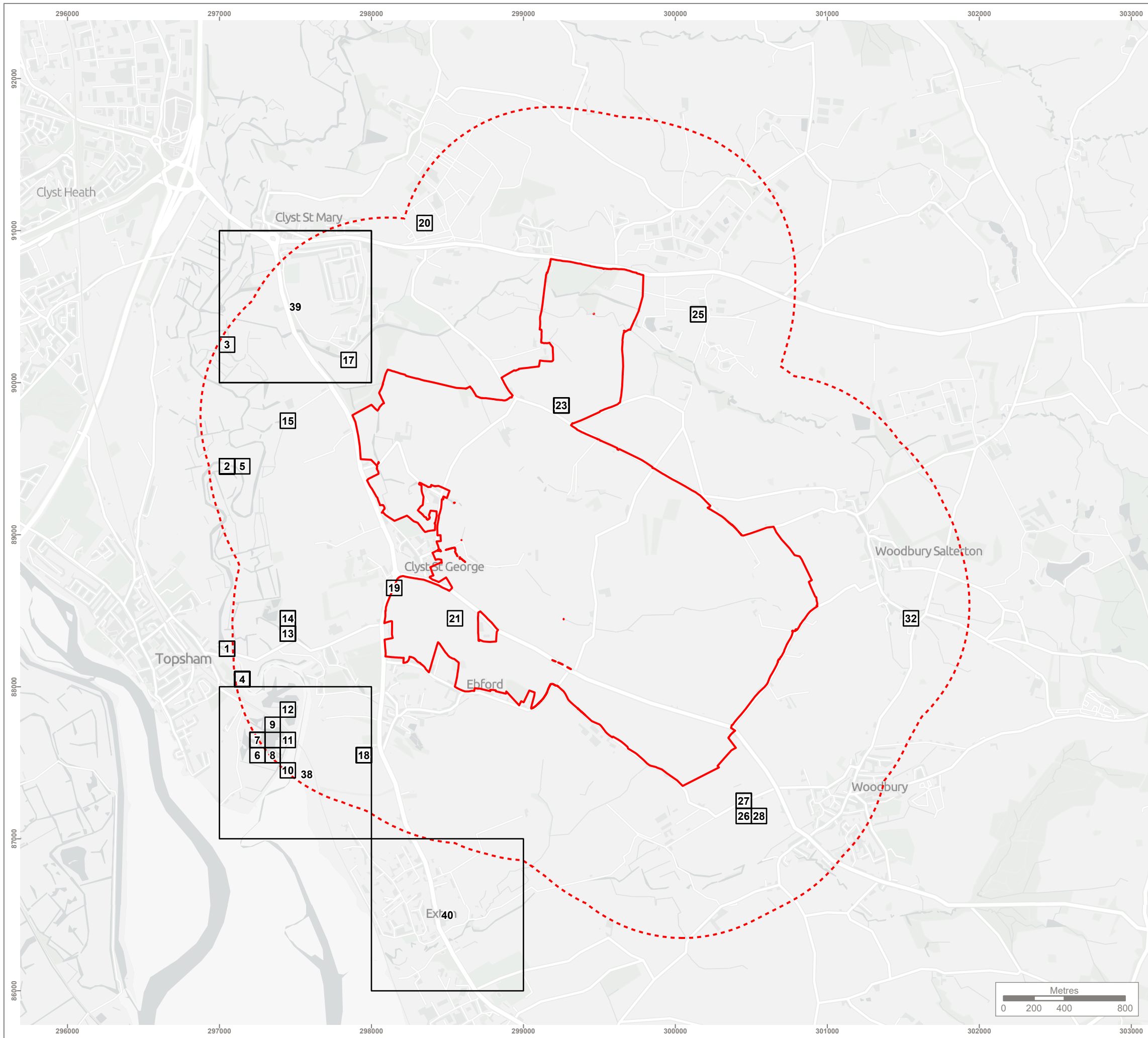
Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022



Amphibian, Reptile and Fish Desktop Records (Option 3)

Refer to drawing G9631.028 for spatial location of species data

Species Record Identifier	Common Name	Count
2	Sea Lamprey	1
3	Grass Snake	1
	Slow-worm	1
4	European Eel	1
5	Slow-worm	1
7	Grass Snake	1
	Slow-worm	1
9	a Newt	1
	Common Frog	1
	Common Toad	1
	Smooth Newt	1
12	Slow-worm	1
16	Common Toad	1
19	a Newt	1
	Common Frog	1



KEY

- Site boundary
- Site boundary - 1km buffer

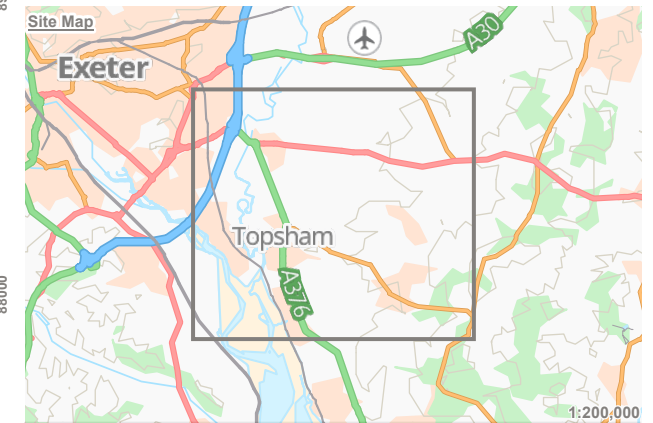
Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

- 100m
- 1000m

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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Birds
 Option 3**

Drawing Number
G9631.031

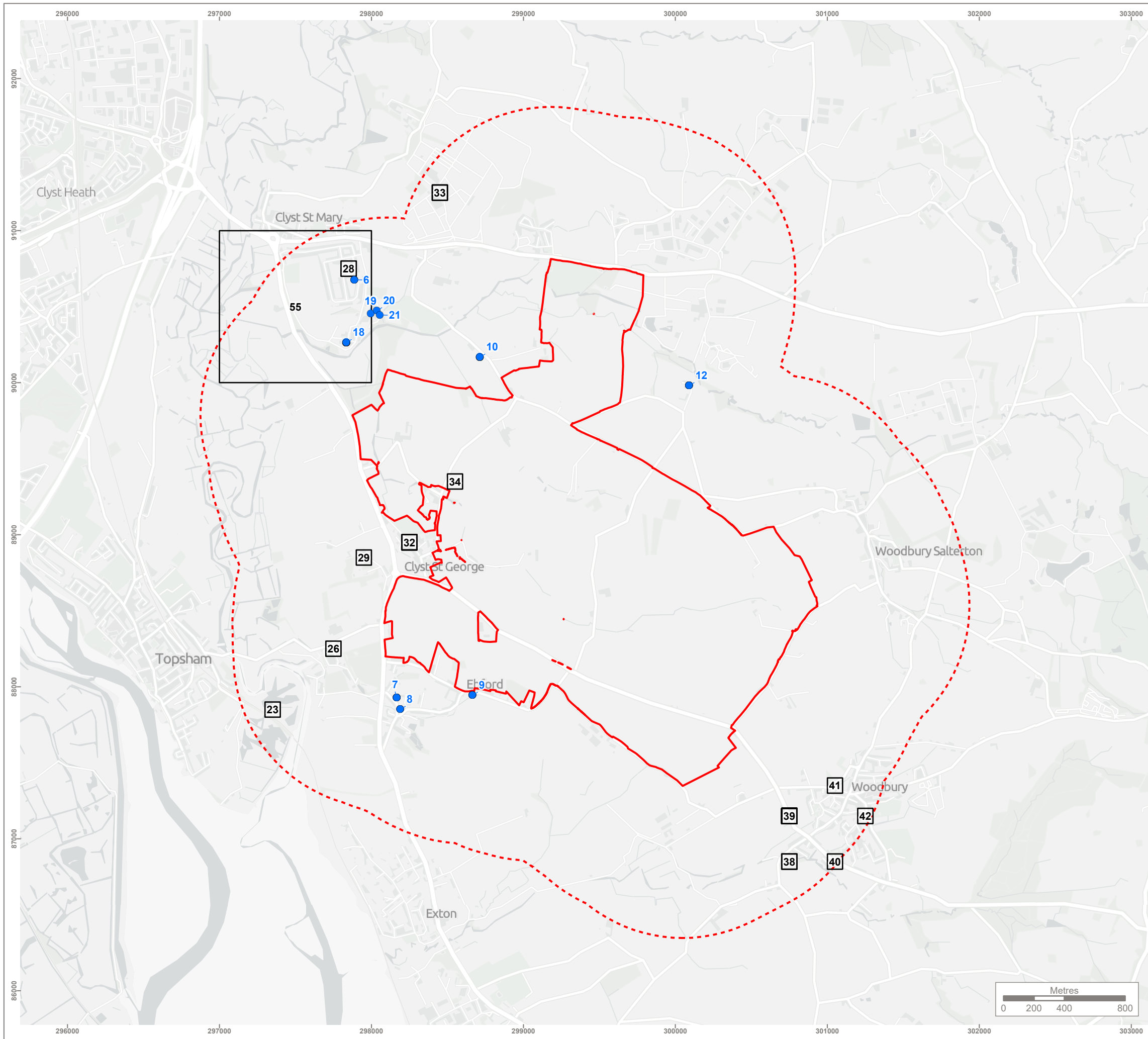
Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022

Bird Desktop Records (Option 3)

Refer to drawing G9631.031 for spatial location of species data

Species Record Identifier	Common Name	Count	
1	Little Egret	2	
	Black-Tailed Godwit	1	
	Common Kingfisher	1	
	Curlew	1	
	Grasshopper Warbler	1	
	Green Sandpiper	2	
	Grey Plover	1	
	Mallard	1	
	Meadow Pipit	1	
	Mute Swan	1	
	2	Reed Bunting	1
		Ruff	1
		Sedge Warbler	1
		Snipe	1
		Stonechat	1
		Teal	1
		Water Pipit	1
Water Rail		1	
Whinchat		1	
Wigeon		1	
3	Starling	1	
4	Common Kingfisher	1	
	Common Sandpiper	1	
	Curlew Sandpiper	1	
	Dunlin	1	
	Greenshank	1	
	Little Egret	1	
	Little Stint	1	
Redshank	1		
Spotted Redshank	1		
5	Curlew	1	
6	Wheatear	1	
7	Lapwing	1	
	Peregrine	1	
	Swift	1	
8	Brent Goose	1	
	Little Stint	1	
	Starling	1	
9	Shelduck	1	
10	Osprey	1	
11	Greenshank	1	

Species Record Identifier	Common Name	Count
12	Little Egret	1
13	Duncock	1
	Fieldfare	1
	Herring Gull	1
	Lesser Spotted Woodpecker	1
	Mistle Thrush	1
	Redwing	1
	Skylark	1
	Song Thrush	1
14	Starling	1
	Common Bullfinch	1
15	House Sparrow	1
	Barn Owl	1
17	Common Kingfisher	1
18	Black-throated Diver	1
	Eider	1
	Great Northern Diver	1
	Little Gull	1
	Long-tailed Duck	1
	Mediterranean Gull	1
	Red-necked Grebe	1
Slavonian Grebe	1	
19	Kestrel	1
20	Swift	1
21	Barn Owl	1
23	Bullfinch	1
	Herring Gull	1
	Kestrel	1
	Skylark	1
	Snipe	1
25	Common Bullfinch	1
	Kestrel	1
26	Bullfinch	1
27	Barn Owl	1
	Skylark	1
28	Skylark	1
32	Turtle Dove	1
38	Sanderling	1
39	Barn Owl	1
	Mediterranean Gull	1
40	Barn Owl	1



KEY

Site boundary

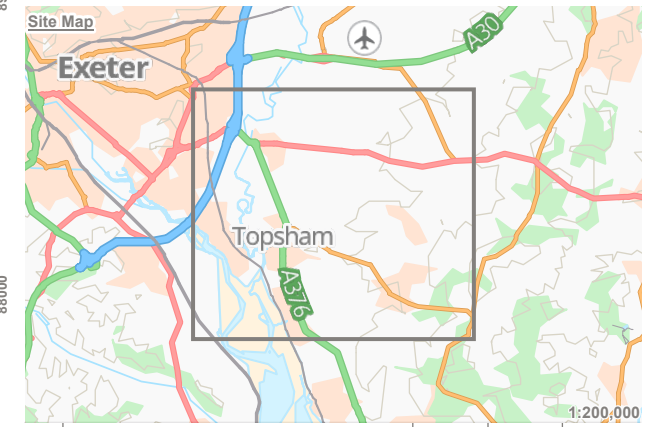
Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

- 1 and 10m
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- 1000m

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Title
Species Desktop Records - Bats
Option 3

Drawing Number
G9631.034

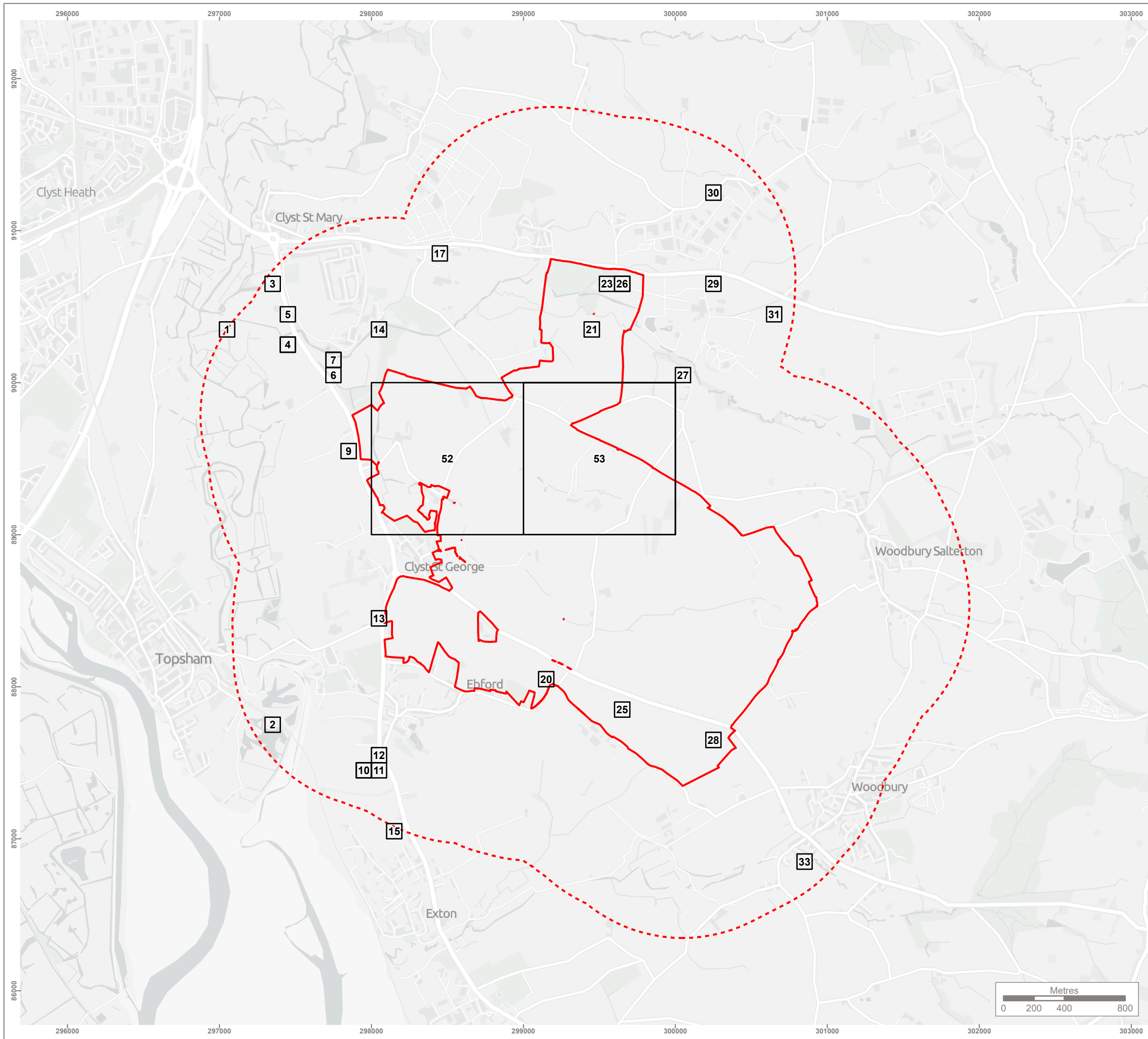
Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022

Bat Desktop Records (Option 3)

Refer to drawing G9631.034 for spatial location of species data

Species Record Identifier	Common Name	Count
6	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
7	a Bat	1
	a Long-eared Bat	1
	Nathusius's Pipistrelle	1
	Noctule Bat	1
	Western Barbastelle	1
8	a Bat	1
	Noctule Bat	1
	Western Barbastelle	1
9	a Bat	1
	a Long-eared Bat	1
	Nathusius's Pipistrelle	1
	Noctule Bat	1
10	a Bat	1
	a Long-eared Bat	1
	Noctule Bat	1
	Western Barbastelle	1
12	Brown Long-eared Bat	1
	Common Pipistrelle	1
	Lesser Horseshoe Bat	1
	Natterer's Bat	1
	Western Barbastelle	1
18	a Bat	1
	a Long-eared Bat	1
	Common Pipistrelle	1
	Daubenton's Bat	1
	Lesser Horseshoe Bat	1
	Lesser Noctule	1
	Noctule Bat	1
	Serotine	1
	Soprano Pipistrelle	1
Western Barbastelle	1	
19	Soprano Pipistrelle	1

Species Record Identifier	Common Name	Count
20	Soprano Pipistrelle	140
21	Soprano Pipistrelle	1
23	Noctule Bat	1
26	a Bat	1
28	a Bat	1
29	a Bat	1
32	Common Pipistrelle	1
	Serotine	1
	Soprano Pipistrelle	1
33	a Bat	1
	a Long-eared Bat	1
34	Serotine	1
38	Brown Long-eared Bat	1
	Common Pipistrelle	1
39	a Bat	2
	a Long-eared Bat	2
	Common Pipistrelle	2
	Lesser Horseshoe Bat	2
	Nathusius's Pipistrelle	2
	Noctule Bat	2
	Serotine	2
Soprano Pipistrelle	2	
40	a Bat	1
41	a Long-eared Bat	1
42	a Bat	1
55	Common Pipistrelle	1



KEY

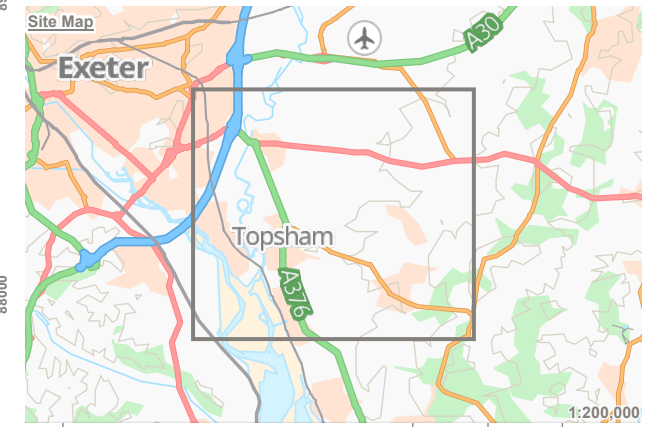
- Site boundary
- Site boundary - 1km buffer

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

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- 1000m

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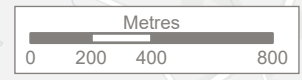
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Project
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Title
**Species Desktop Records - Other Mammals
 Option 3**

Drawing Number
G9631.037

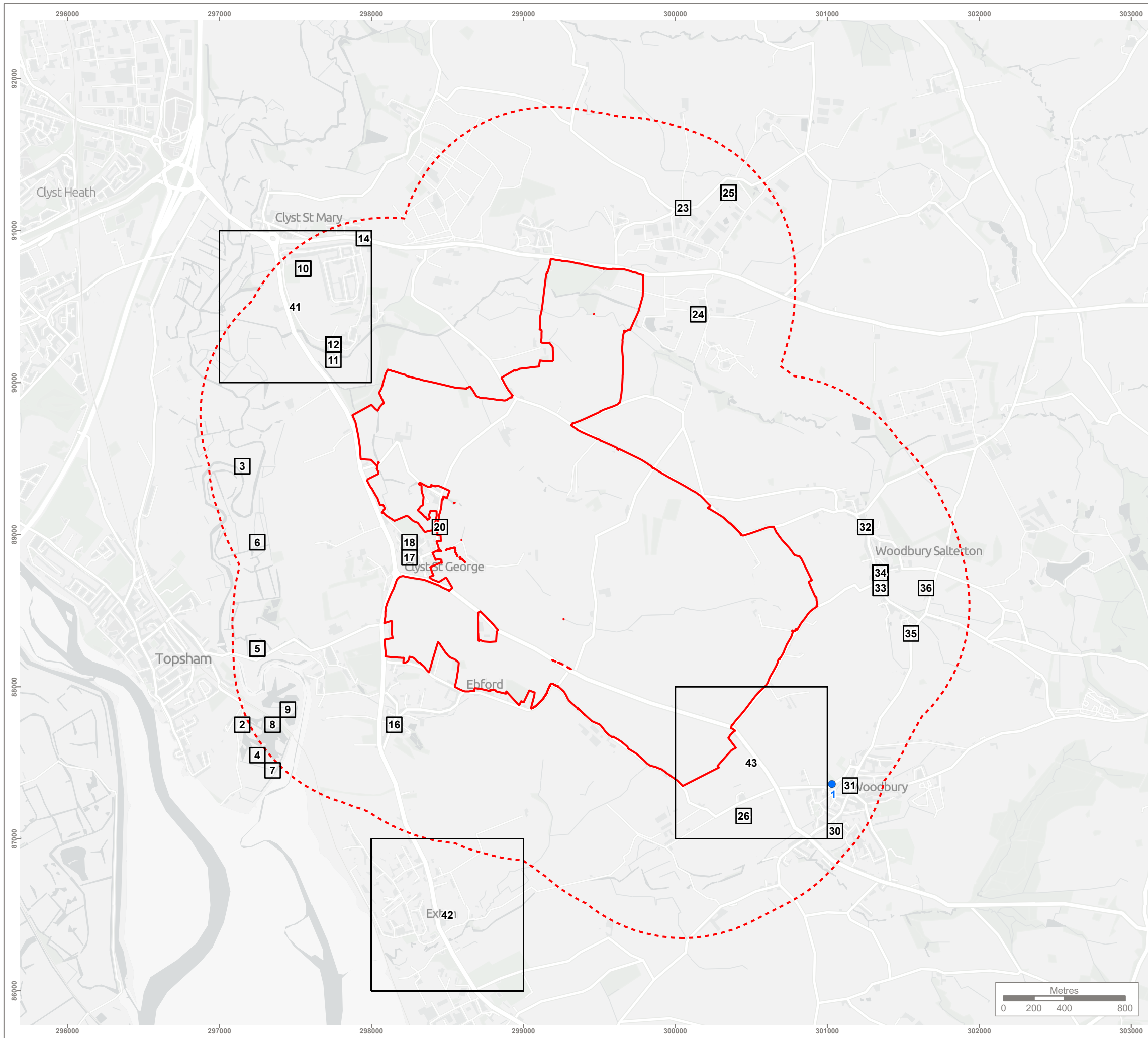
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Other Mammal Desktop Records (Option 3)

Refer to drawing G9631.037 for spatial location of species data

Species Record Identifier	Common Name	Count
1	Eurasian Otter	1
2	Eurasian Otter	1
3	Weasel	1
4	Eurasian Otter	1
	Hazel Dormouse	1
5	Hazel Dormouse	1
6	Eurasian Otter	1
7	Indet. Deer	1
	Stoat	1
9	Eurasian Badger	1
10	Eurasian Badger	2
11	Eurasian Badger	1
12	Eurasian Otter	1
13	Eurasian Badger	1
14	Hazel Dormouse	1
15	Eurasian Badger	1
17	Eurasian Badger	1
20	Eurasian Otter	1
21	Eurasian Badger	1
23	Eurasian Otter	1
25	Eurasian Badger	1
26	Eurasian Otter	2
27	Eurasian Otter	1
28	Eurasian Otter	1
29	Eurasian Otter	1
30	Eurasian Badger	1
31	Eurasian Badger	1
33	West European Hedgehog	1
52	Eurasian Badger	1
53	Eurasian Common Shrew	1
	Eurasian Pygmy Shrew	1
	Eurasian Water Shrew	1



KEY

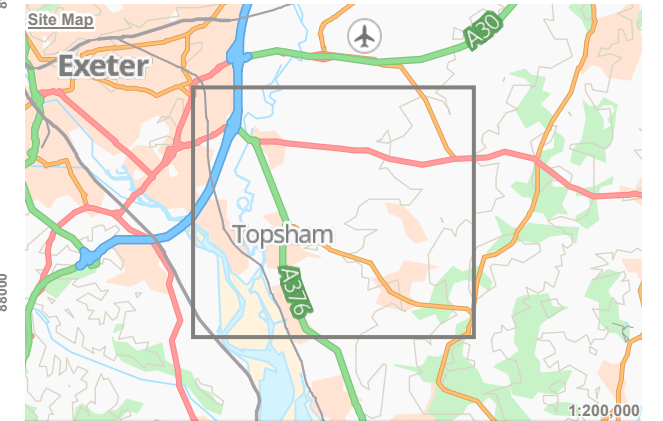
- Site boundary
- Site boundary - 1km buffer
- 1 and 10m
- 100m
- 1000m

Accuracy of Data (Refer to Desktop Assessment Report for Species Records Identifier for Desktop Records)

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 Contains data from OS Zoomstack
 Species record data provided by Devon Biodiversity Record Centre



Rev	Description	Drawn	Approved	Date



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Project
East Devon Options Appraisal

Title
**Species Desktop Records - Invertebrates
 Option 3**

Drawing Number
G9631.040

Drawn	Checked	Approved	Scale	Date
BJ	MK	RR	1:25,000 @ A3	03/10/2022

Invertebrate Desktop Records (Option 3)

Refer to drawing G9631.040 for spatial location of species data

Species Record Identifier	Common Name	Count
1	Wasp Spider	1
2	Cinnabar	1
3	Keeled Skimmer	1
	Ruddy Darter	1
4	Hairy Dragonfly	1
5	Hairy Dragonfly	1
	Scarce Chaser	1
6	Hairy Dragonfly	1
7	Dark Green Fritillary	1
8	Hairy Dragonfly	1
9	Hairy Dragonfly	1
10	Purple Hairstreak	4
11	Black Oil-beetle	1
12	Blood-Vein	1
	Buff Ermine	1
	Cinnabar	1
	Currant Clearwing	1
	Dusky Brocade	1
	Jersey Tiger	1
	Kent Black Arches	1
	Knot Grass	1
	Lackey	1
	Marbled Green	1
	Mottled Rustic	1
	Mouse Moth	1
	Oak Hook-tip	1
	Rosy Minor	1
Rosy Rustic	1	
Small Square-spot	1	
White Ermine	1	
14	Purple Hairstreak	1
16	Kent Bent-wing	1
17	Wall	1
18	Wall	1
20	Wall	1
23	Purple Hairstreak	1
24	Jersey Tiger	1
25	Purple Hairstreak	2
26	Wall	1
30	Buff Ermine	1
31	Jersey Tiger	1
32	Beaded Chestnut	1
	Bloxworth Snout	1
	Brindled Beauty	1
	Buff Ermine	1
	Cinnabar	1
	Cloaked Carpet	1
	Coastal Pearl	1

Species Record Identifier	Common Name	Count
32	Dot Moth	1
	Dusky Brocade	1
	Dusky Thorn	1
	Green-brindled Crescent	1
	Horse Chestnut	1
	Jersey Tiger	1
	Knot Grass	1
	Lackey	1
	L-album Wainscot	1
	Marbled Green	1
	Mottled Rustic	1
	Pied Grey	1
	Portland Ribbon Wave	1
	Powdered Quaker	1
	Rosy Rustic	1
	Sallow	1
	September Thorn	1
	Shoulder-striped Wainscot	1
	Spinach	1
	White Ermine	1
	White-line Dart	1
33	Mullein Wave	1
	White Ermine	1
34	August Thorn	1
	Autumnal Rustic	1
	Beaded Chestnut	1
	Bleached Pug	1
	Blood-Vein	1
	Bloxworth Snout	1
	Brindled Beauty	1
	Buff Ermine	1
	Centre-barred Sallow	1
	Cinnabar	1
	Cloaked Carpet	1
	Dark-barred Twin-spot Carpet	1
	Dot Moth	1
	Double Dart	1
	Dusky Brocade	1
	Dusky Thorn	1
	Figure of Eight	1
	Flounced Chestnut	1
	Galium Carpet	1
	Ghost Moth	1
Green-brindled Crescent	1	

Species Record Identifier	Common Name	Count
34	Garden Tiger	1
	Heath Rustic	1
	Horse Chestnut	1
	Jersey Tiger	1
	Kent Black Arches	1
	Knot Grass	1
	Lackey	1
	L-album Wainscot	1
	Large Wainscot	1
	Marbled Green	1
	Mocha	1
	Mottled Rustic	1
	Mouse Moth	1
	Neglected Rustic	1
	Oak Hook-tip	1
	Orange Footman	1
	Pale Eggar	1
	Powdered Quaker	1
	Rosy Minor	1
	Rosy Rustic	1
	Ruddy Carpet	1
	Rustic	1
	Sallow	1
	September Thorn	1
	Shaded Broad-bar	1
	Shoulder-striped Wainscot	1
	Small Emerald	1
	Small Phoenix	1
	Small Square-spot	1
	Sprawler	1
	White Ermine	1
	35	Lackey
36	Small Eggar	1
41	Knot Grass	1
42	Beaded Chestnut	1
	Figure of Eight	1
	Green-brindled Crescent	1
	L-album Wainscot	1
	Large Wainscot	1
	Mouse Moth	1
	Pale Eggar	1
Rosy Rustic	1	
Small Square-spot	1	
43	Lackey	1
	Pale Eggar	1



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