Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

Volume 5 | Technical appendices map book Ecology | CFA13 | Calvert, Steeple Claydon, Twyford and Chetwode

July 2015

SES and AP2 ES 3.5.13.8

SES and AP2 ES – VOLUME 5



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### Contents

Mapping explanatory notes

Data dictionary and definitions

Map series name	Map series description
	This map series shows statutory and non-statutory sites for nature co
EC-01 - Designated Sites	required for the construction of the Proposed Scheme. They also show
	and Wildlife Trusts, and ancient woodland.
	This map series shows the results of amphibian surveys conducted to i
EC-04 - Amphibians	principally details the results of great crested newt surveys conducted
	'exceptional' populations of common amphibians recorded.
	This map series shows results of field surveys conducted to investigate
EC-05 - Bats – Roost	to support roosting bats. It shows the location of roosts confirmed by j
	high or moderate potential to support roosting bats.
	This map series shows the location of bat activity surveys conducted t
EC-06 - Bats – Activity	addition it shows the location of the key bat foraging and commuting
	of the survey work conducted.
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of protected species surveys conduct

conservation located in the vicinity of the land ow the location of Nature Reserves of the RSPB

to inform the Environmental Assessment. It red. In addition it shows the location of those

ate the potential for trees and buildings/structures by field survey and features identified as having a

d to inform the Environmental Statement. In ng routes which have been established on the basis

ucted to inform the Environmental Statement.

### Mapping explanatory notes

### Structure of the HS2 Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

The Supplementary Environmental Statement (SES) and Additional Provision 2 Environmental Statement (AP2 ES) comprises:

- Non-technical summary (NTS). This provides a summary in non-technical language of the SES (Part 1) and AP2 ES (Part 2) and of any likely significant environmental effects, both beneficial and adverse, which are new or different to those reported in the High Speed 2 (HS2) Phase One Environmental Statement (ES) submitted to Parliament in November 2013 in support of the hybrid Bill ('the Bill') for Phase One of HS2 (hereafter referred to as 'the main ES') and, where relevant, the AP ES submitted in September 2014 (hereafter referred to as 'the AP1 ES').
- Volume 1: Introduction to the SES and the AP2 ES. This introduces the supplementary environmental information and design changes included within the SES and amendments which have resulted in the need to amend the Bill within the AP<sub>2</sub> ES. It also explains any changes to the scope, methodology, assumptions and limitations required for the environmental impact assessment.
- Volume 2: Community Forum Area (CFA) reports and Map Books. These describe the supplementary environmental information and design changes included within the SES (Part 1), amendments within the AP2 ES (Part 2) and report any new or different likely significant environmental effects arising from these changes in each CFA compared to those reported in the main ES and, where relevant, the AP1 ES. The main local alternatives that have been considered are described, where relevant.
- Volume 3: Route-wide effects. This reports new or different likely significant route-wide effects arising from the supplementary environmental information and design changes included within the SES (Part 1) and amendments within the AP<sub>2</sub> ES (Part 2) compared to those reported in the main ES and, where relevant, the AP<sub>1</sub> ES.
- Volume 4: Off-route effects. This reports new or different likely significant off-route effects arising from the supplementary environmental information and design changes included within the SES (Part 1) and amendments within the AP<sub>2</sub> ES (Part 2) compared to those reported in the main ES and, where relevant, the AP<sub>1</sub> ES.
- Volume 5: Appendices and Map Books. This contains supporting environmental information and associated maps in support of the CFA sections of Volume 2.
- Glossary of terms and list of abbreviations. This contains any new or different terms and abbreviations used throughout the SES and AP2 ES compared to those included in the main ES and AP1 ES. •

### **Copyright statements**

Copyright statements are presented in the Data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

### **Ordnance Survey data**

All maps produced as part of the London-West Midlands Supplementary Environmental Statement (SES) and Additional Provision 2 Environmental Statement (AP2 ES) contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data.

As part of our licence conditions, all digital maps carry a watermark.

### Chainage

Most of the maps presented as part of the SES and AP2 ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY. E.g. 77+000 or 158+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing different amounts of alignment on the map.

### Map sheet layout

Each map in Volume 2 is presented twice, with the main ES map (published November 2013) on the left hand page and the SES and AP2 ES map on the right. For the CT-05 and CT-06 map series, the SES and AP2 ES map is annotated with different coloured clouds which highlight the areas of change. The coloured text box provides a brief description of the design change and amendment, and gives the SES and AP2 ES reference number. Only maps which have been amended as a result of the SES and AP2 ES are included within the map books. Other design changes which are within the existing limits of the Bill and do not result in new or different likely significant effects are also shown on the maps, but are not indicated by a cloud. The below table highlights the coloured clouds used, and their description.

Cloud / text box colour	Description
Blue	Design changes relating to the SES (Part 1 of each Volume 2 CFA report).
Red	Proposed amendments relating to AP2 (Part 2 of each Volume 2 CFA report).
Grey	Proposed amendments relating to AP1, as they appeared in the AP1 ES, provided for reference.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES and AP2 ES reference number. For more detailed information about the SES and AP2 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES and AP2 ES are included within the map book.

### Map orientation

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and the West Midlands to the left.

The exception to this, are map series LV-03 and LV-04, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and the West Midlands to the top.

### Map books

In total there are 53 map books which make up the SES and AP2 ES, spread across volumes 2, 4 and 5. A list of the titles is provided below for reference.

Name	Name
Volume 2 Community forum area map book: CFA4 Kilburn (Brent) to Old Oak Common	Volume 5 Technical appendices map book: Ecology - London Metropolitan (CFA4-6)
Volume 2 Community forum area map book: CFA5 Northolt Corridor	Volume 5 Technical appendices map book: Ecology - CFA7 Colne Valley
Volume 2 Community forum area map book: CFA6 South Ruislip to Ickenham	Volume 5 Technical appendices map book: Ecology - CFA8 The Chalfonts and Amersham
Volume 2 Community forum area map book: CFA7 Colne Valley	Volume 5 Technical appendices map book: Ecology - CFA9 Central Chilterns
Volume 2 Community forum area map book: CFA9 Central Chilterns	Volume 5 Technical appendices map book: Ecology - CFA10 Dunsmore, Wendover and Halton
Volume 2 Community forum area map book: CFA10 Dunsmore, Wendover and Halton	Volume 5 Technical appendices map book: Ecology - CFA11 Stoke Mandeville and Aylesbury
Volume 2 Community forum area map book: CFA11 Stoke Mandeville and Aylesbury	Volume 5 Technical appendices map book: Ecology - CFA12 Waddesdon and Quainton
Volume 2 Community forum area map book: CFA12 Waddesdon and Quainton	Volume 5 Technical appendices map book: Ecology - CFA13 Calvert, Steeple Claydon, Twyford and Chetwode
Volume 2 Community forum area map book: CFA13 Calvert, Steeple Claydon, Twyford and Chetwode	Volume 5 Technical appendices map book: Ecology - CFA14 Newton Purcell to Brackley
Volume 2 Community forum area map book: CFA14 Newton Purcell to Brackley	Volume 5 Technical appendices map book: Ecology - CFA15 Greatworth to Lower Boddington
Volume 2 Community forum area map book: CFA15 Greatworth to Lower Boddington	Volume 5 Technical appendices map book: Ecology - CFA16 Ladbroke and Southam
Volume 2 Community forum area map book: CFA16 Ladbroke and Southam	Volume 5 Technical appendices map book: Ecology - CFA17 Offchurch and Cubbington
Volume 2 Community forum area map book: CFA17 Offchurch and Cubbington	Volume 5 Technical appendices map book: Ecology - CFA18 Stoneleigh, Kenilworth and Burton Green
Volume 2 Community forum area map book: CFA18 Stoneleigh, Kenilworth and Burton Green	Volume 5 Technical appendices map book: Ecology - CFA19 Coleshill Junction
Volume 2 Community forum area map book: CFA19 Coleshill Junction	Volume 5 Technical appendices map book: Ecology - CFA20 Curdworth to Middleton
Volume 2 Community forum area map book: CFA20 Curdworth to Middleton	Volume 5 Technical appendices map book: Ecology - CFA21 Drayton Bassett, Hints and Weeford
Volume 2 Community forum area map book: CFA21 Drayton Bassett, Hints and Weeford	Volume 5 Technical appendices map book: Ecology - CFA22 Whittington to Handsacre
Volume 2 Community forum area map book: CFA22 Whittington to Handsacre	Volume 5 Technical appendices map book: Ecology - West Midlands Metropolitan (CFA23-26)
Volume 2 Community forum area map book: CFA23 Balsall Common and Hampton-in-Arden	Volume 5 Technical appendices map book: Ecology - Off-route
Volume 2 Community forum area map book: CFA24 Birmingham Interchange and Chelmsley Wood	Volume 5 Technical appendices map book: Land quality
Volume 2 Community forum area map book: CFA25 Castle Bromwich and Bromford	Volume 5 Technical appendices map book: Landscape and visual
Volume 2 Community forum area map book: CFA26 Washwood Heath to Curzon Street	Volume 5 Technical appendices map book: Socio-economics
Volume 4 Off-route effects map book	Volume 5 Technical appendices map book: Sound, noise and vibration
Volume 5 Technical appendices map book: Agriculture, forestry and soils	Volume 5 Technical appendices map book: Traffic and transport
Volume 5 Technical appendices map book: Air quality	Volume 5 Technical appendices map book: Water resources
Volume 5 Technical appendices map book: Community	Volume 5 Technical appendices map book: Cross-topic appendix 1 - Committed developments
Volume 5 Technical appendices map book: Cultural heritage	

Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

Volume 5 | Data dictionary and definitions

SES and AP2 ES – VOLUME 5



## Data dictionary and definitions

Legend features	Definition	Source	Copyrig
250m radius from all water bodies where presence of Great Crested Newt is confirmed.	250m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of Great Crested Newt is confirmed.	50m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
500m radius from all water bodies where presence of Great Crested Newt is confirmed.	500m radius from all water bodies where presence of Great Crested Newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Activity transect route	Transect route that was surveyed during bat activity surveys.	High Speed Two (HS2) Ltd	
Ancient woodland	Ancient Woodland Inventory. Ancient Woodland is land that has had continuous woodland cover since at least 1600AD.	Natural England	© Natu Survey permiss 100049 http://w governr
Aquatic invertebrate: Aquatic invertebrate survey location	Location of aquatic invertebrate survey.	High Speed Two (HS2) Ltd	
Assumed key area of foraging habitat	Likely areas of bat foraging habitat for local bat populations, derived from bat activity survey results.	High Speed Two (HS2) Ltd	
Assumed key commuting route	Key commuting and foraging bat routes that have been identified by an ecologist after review of available survey data and application of professional judgement.	High Speed Two (HS2) Ltd	
Bat activity static detector location	Location where bat activity static detectors were used during survey period.	High Speed Two (HS2) Ltd	
Biodiversity Alert Site (BAS)	<ul> <li>Local wildlife sites in Staffordshire are Biodiversity Alert Sites (BAS) and Sites of Biological Importance (SBI). BAS are local wildlife sites and are of lower intrinsic quality or have suffered damage or disturbance. Nevertheless, they collectively form a significant part of Staffordshire's nature conservation resource, and, in some cases, a valuable reserve series for some of the SBI.</li> <li>The BAS information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</li> <li>All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</li> <li>The presence of a marked boundary within SER information does not infer any right of public access.</li> </ul>	Staffordshire Ecological Record	Copyrig Partner
Biological Notification Sites (BNS)	Biological Notification Sites (BNS) preceded Local Wildlife Sites as a local non-statutory designation. They were first designated in the late 1980s and have since been revised. There are no formal citations and for some sites we have no survey data.	Buckinghamshire County Council, Buckinghamshire and Milton Keynes Environment Record Centre (BMERC)	Based u permiss Control Copyrig Crown (

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Legend features	Definition	Source	Copyrig
			proceed
			Licence
			Bucking
	The Environmental Statement has been split into 26 sections called		© Crow
Community forum boundary	Community Forum Areas.	High Speed Two (HS2) Ltd	Ordnan
Confirmed bat roost – buildings:			Publicat
Hibernation roost			
Maternity roost	Locations where bat roost survey has been completed within buildings.		
Other roost	Buildings are categorised into those with potential to support bat roosts		
Multiple roost types	(high and medium potential) and those that have confirmed roosts.	High Speed Two (HS2) Ltd	
	Confirmed roosts are further categorised into Hibernation, Maternity,		
Potential to support roosting bats – buildings:	Other or Multiple roosts.		
High			
Moderate			
Confirmed bats roost – trees:			
Hibernation roost			
Maternity roost	Locations where bat roost survey has been completed within trees.		
Other roost	Trees are categorised into those with potential to support bat roosts		
Multiple roost types	(high and medium potential) and those that have confirmed roosts.	High Speed Two (HS2) Ltd	
	Confirmed roosts are further categorised into Hibernation, Maternity,		
Potential to support roosting bats – trees:	Other or Multiple roosts.		
High Moderate			
Moderate			© Crow
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	Ordnan
			Publicat
Denot station headheuse	Extends to cover operational footprint of each depot and station and		
Depot, station, headhouse	the footprint of each tunnel vent shaft and headhouse at surface level.	High Speed Two (HS2) Ltd	
or portal building	Excludes any ancillary buildings associated with these structures.		
			© Crow
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	Ordnan
			Publicat
Ditch vegetation survey	Extent of Ditch vegetation surveys.	High Speed Two (HS2) Ltd	
Dormouse:			
Nest tube survey and/or nut search conducted and presence confirmed	Extent of Dormouse survey using nest tube and/or nut search. Those		
Nest tube survey and/or nut search conducted and no	areas where access was available either had confirmed presence or no	High Speed Two (HS2) Ltd	
signs of dormouse identified	signs were found.		
Site identified as potentially suitable for dormouse but			
no access available			
Fish:			
Fish survey location	Location where fish survey was conducted.	High Speed Two (HS2) Ltd	
Great Crested Newt (GCN) survey locations	Results from Great Crested Newt pond surveys.	High Speed Two (HS2) Ltd	
'Important' hedgerow confirmed by field survey	Location of those hedgerows that have been identified as 'important		
Possible 'Important' hedgerow - no access available for	hedgerows' or possible 'important hedgerows' under the wildlife and	High Speed Two (HS2) Ltd	
survey	landscape criteria in the Hedgerows Regulations (2007).		
Land potentially required during construction	Boundary defining the maximum possible extent of construction works	High Speed Two (HS2) Ltd	
	required to build HS2 as far as the current level of design allows. This		

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Legend features	Definition	Source	Copyrig
	only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.		
Local Nature Reserve (LNR)	A Local Nature Reserve (LNR) is a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local authorities. Data supplied has the status of Declared. The boundaries are interpreted from material gathered from the local authorities and does not currently cover all LNRs. This national dataset is indicative not definitive. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.	Natural England	© Natur Survey o permiss 1000491 http://w governn
		EcoRecord Warwickshire County Council Birmingham Council	Data su Birming permiss 1000491
Local Wildlife Site (LWS)		Greenspace Information for Greater London (GiGL)	© Crown Ordnand derived informa
	Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally-designated wildlife sites.	Buckinghamshire County Council	This ma with the the Con Crown C infringes prosecu County
	They are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.		Copyrig Partners from, or Stafford
National Nature Reserve (NNR)		Staffordshire Ecological Record (SER)	with the records recorder supplied correct a precision upon the and alth checked
	A National Nature Reserve (NNR) is the land declared under the National Parks and Access to the Countryside Act 1949 or Wildlife and Countryside Act (1981) as amended.	Natural England	respons of a mar not infe © Natur Survey o permiss

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Legend features	Definition	Source	Copyrig
			100049: http://w governr
National Vegetation Classification survey	Extent of National Vegetation Classification surveys.	High Speed Two (HS2) Ltd	
Nature reserve	<ul> <li>Designated and non-designated nature reserves managed by local authorities, The Wildlife Trusts and private landowners.</li> <li>Nature reserve information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</li> <li>All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</li> <li>The presence of a marked boundary within SER information does not infer any right of public access.</li> </ul>	Ecorecord, Staffordshire Ecological Record, Royal Society for the Protection of Birds	License © Crow Ordnan Publicat Copyrig Partner Data re Crown o 100021;
Otter: Active otter holt Potential otter holt	Location of active otter holts and potential otter holts found during field survey.	High Speed Two (HS2) Ltd	
Otter terrestrial habitat	Areas of terrestrial habitat within 100m of the Proposed Scheme that are identified as having 'high' potential to act as otter breeding sites (i.e. those ranked as having a score of 5 on the scale devised by Chanin).	High Speed Two (HS2) Ltd	
Phase 1 Habitat survey data	Results from Phase1 habitat surveys.	High Speed Two (HS2) Ltd	
Pond survey: Pond survey – national pond survey Pond survey – PSYM Pond survey – rapid assessment method	Location and type of pond surveys conducted.	High Speed Two (HS2) Ltd	
River corridor survey extent	Extent of river corridor surveys.	High Speed Two (HS2) Ltd	
River habitat survey extent	Extent of river habitat surveys.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Site of Biological Importance (SBI)	Local wildlife sites in Staffordshire are called Sites of Biological Importance (SBI) and Biodiversity Alert Sites (BAS). SBI are generally the best remaining examples within Staffordshire of habitats which rate highly on the basis of such factors as naturalness, diversity or rarity of species or communities. These sites are frequently the remnants of larger areas of semi-natural vegetation, which may not be either sufficiently extensive or undisturbed to warrant SSSI status but are important examples of characteristic or notable vegetation types or habitat complexes (sometimes with associated dependent plant or animal species). As such, they contribute the most significant element in the county's nature conservation resources. The SBI information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with	Staffordshire Ecological Record	Copyrig Partner

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Site of Borough (Grade I) Importance for Nature Conservation (SBI.I)	SINCs are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Borough Importance (grade 1) are selected from candidates within each borough, so ensuring that borough has some sites identified.	Greenspace Information for Greater London (GiGL)	GiGL da
Site of Borough (Grade II) Importance for Nature Conservation (SBI.II)	SINCs are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Borough Importance (grade 2) are selected from candidates within each borough, so ensuring that borough has some sites identified.	Greenspace Information for Greater London (GiGL)	GiGL da
Site of Importance for Nature Conservation (SINC)	Also known as Local Wildlife Sites, these sites have a 'substantive nature conservation value'. They are defined areas, identified and selected locally for their nature conservation value, based on important, distinctive and threatened habitats and species with a national, regional and (importantly) a local context.	EcoRecord	License © Crow Ordnan Publicat
Site of Local Importance for Nature Conservation (SLINC)	Also known as Local Wildlife Sites, these sites have a 'substantive nature conservation value'. They are defined areas, identified and selected locally for their nature conservation value, based on important, distinctive and threatened habitats and species with a national, regional and (importantly) a local context. The system in operation in London identifies three grades of SINC: Sites of Metropolitan Importance (SMI); Sites of Borough Importance (SBI); and Sites of Local Importance (SLI).	EcoRecord Greenspace Information for Greater London (GiGL)	License © Crow Ordnan Publicat 2012 Or GiGL da
Site of Metropolitan Importance for Nature Conservation (SMI)	Sites of Metropolitan Importance are selected on a London-wide basis. These come under the umbrella designation of SINCs which are designated by a panel of local ecological professionals. This is a non- statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Metropolitan Importance are selected on a London-wide basis.	Greenspace Information for Greater London (GiGL)	License © Crow Ordnan Publicat GiGL da
Site of Special Scientific Interest (SSSI)	A Site of Special Scientific Interest (SSSI) is the land notified as an SSSI under the Wildlife and Countryside Act (1981), as amended.	Natural England	© Natu Survey

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Legend features	Definition	Source	Copyrig
			permiss 1000493 http://w governr
Terrestrial invertebrate: Terrestrial invertebrate survey extent	Extent of terrestrial invertebrate survey.	High Speed Two (HS2) Ltd	
Water body	Based on Ordnance Survey Vector Map District.	Ordnance Survey	© Crow Ordnan Publicat
Water vole: Water vole survey undertaken – presence confirmed Water vole survey undertaken – assumed absent Watercourse potentially suitable for water vole – no or limited access for survey	Extent of water vole survey. Those areas where access was available either had confirmed presence or water voles were assumed absent.	High Speed Two (HS2) Ltd	
Watercourse	The Detailed River Network (DRN) is the only large-scale, accurate and fully attributed digital river centreline covering England and Wales.	Environment Agency	© Envir right 20
White clawed crayfish: Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available	Location where white clawed crayfish survey was conducted. Location categorised as to whether presence was confirmed, assumed absent or no access was available.	High Speed Two (HS2) Ltd	
Woodland (not verified by survey) Woodland (verified by survey)	Woodland areas derived from Ordnance Survey mastermap data.	Ordnance Survey	© Crow Ordnan Publicat

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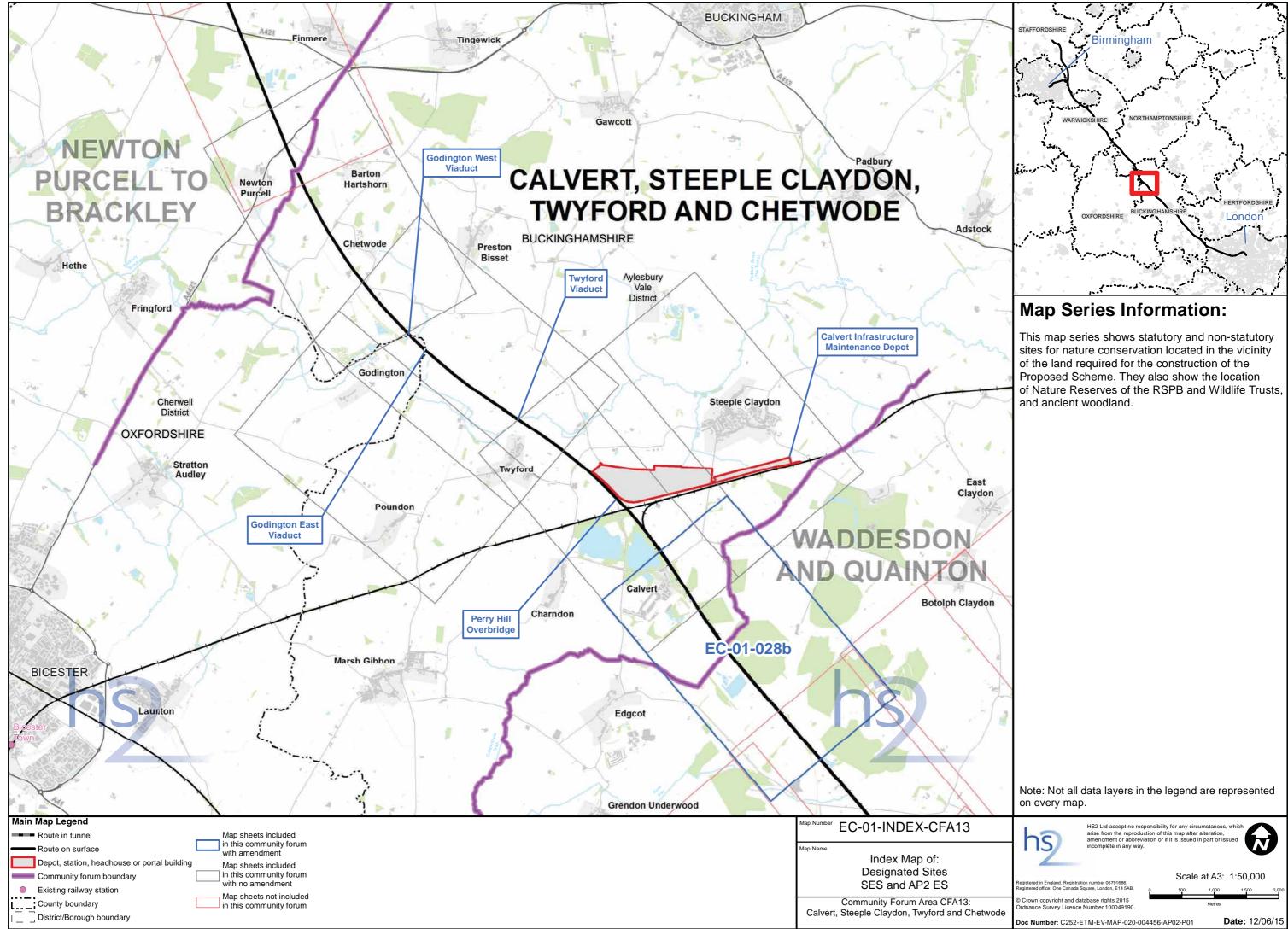
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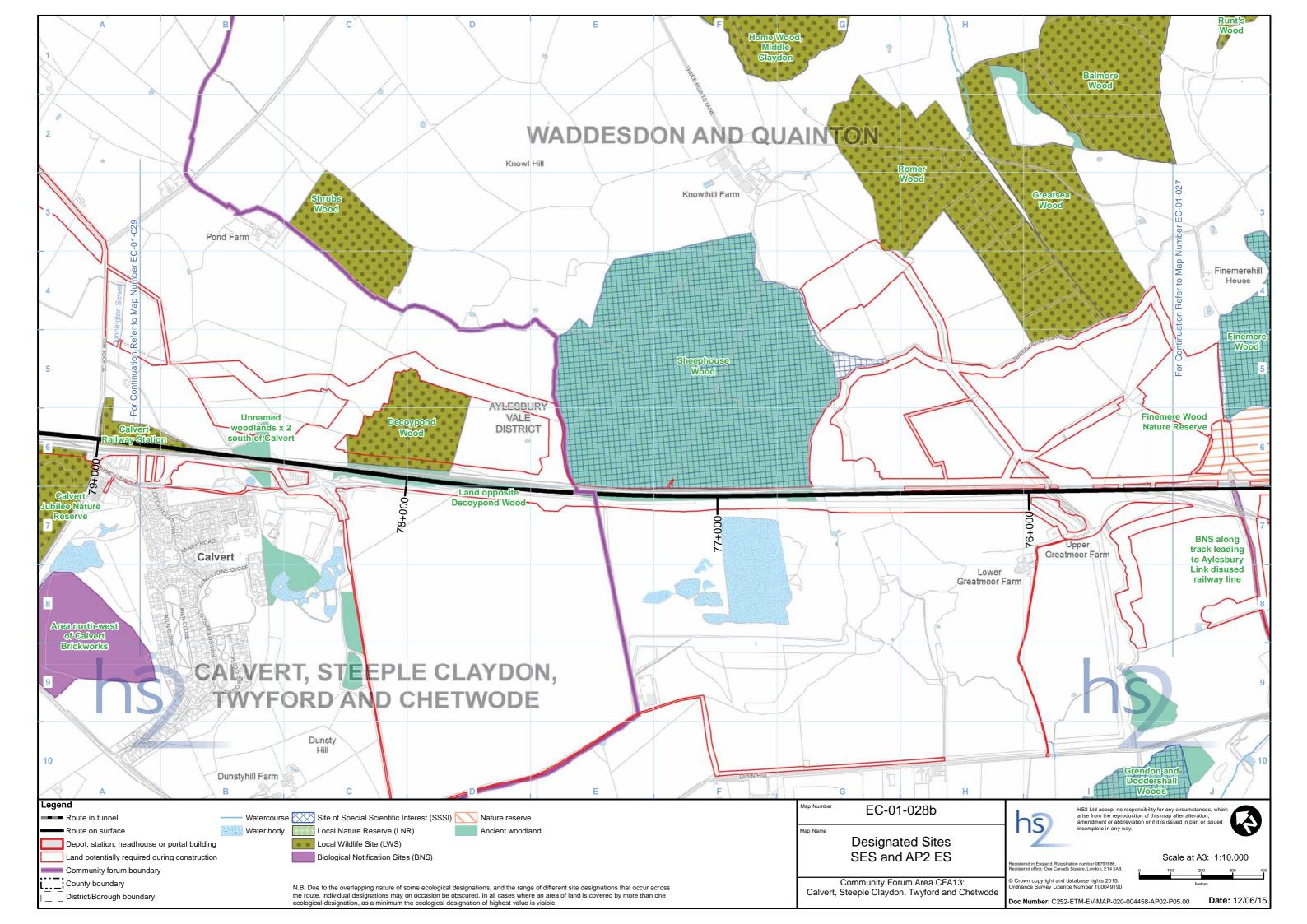
Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

Volume 5 | EC-01 – Designated Sites

SES and AP2 ES – VOLUME 5







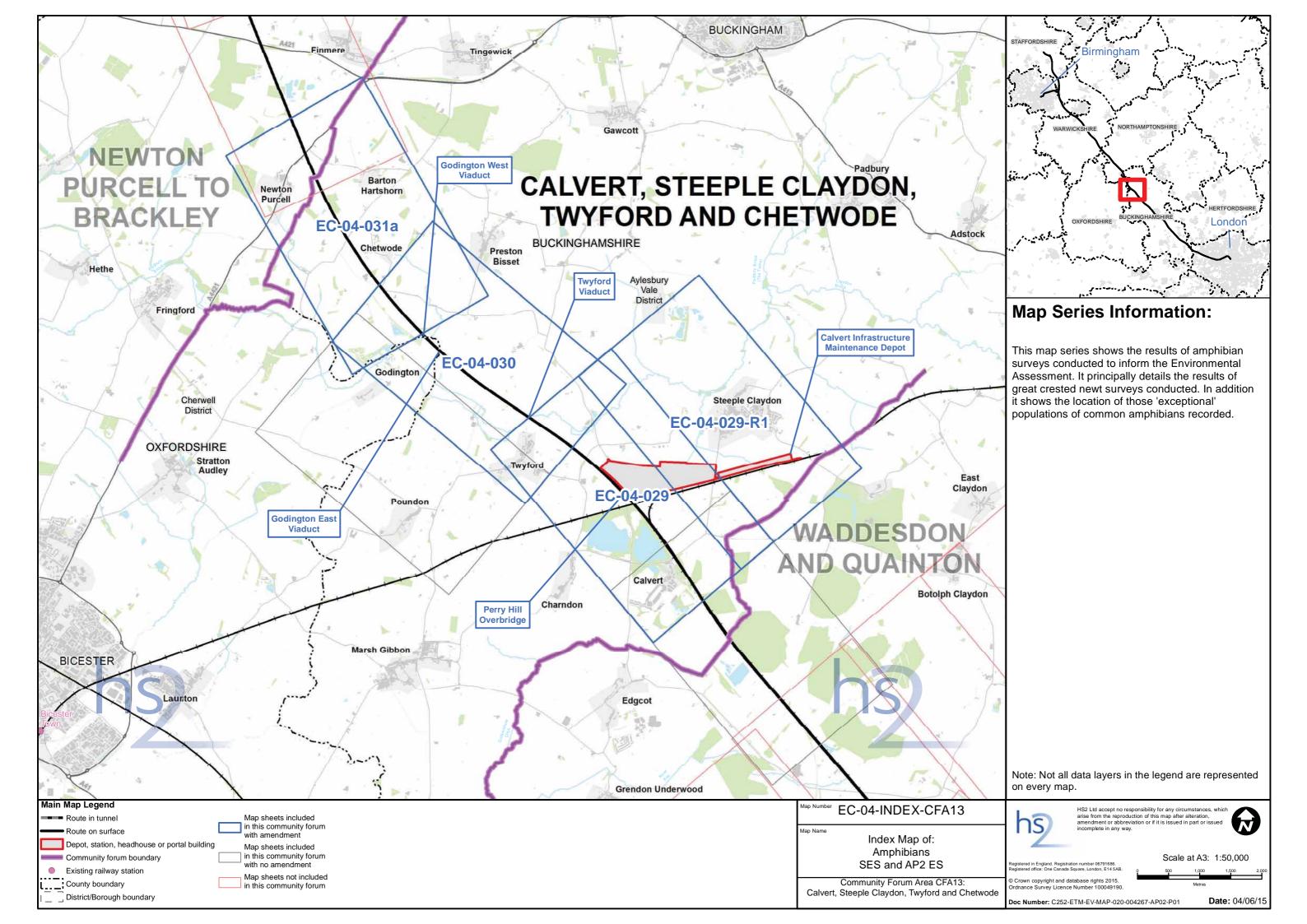
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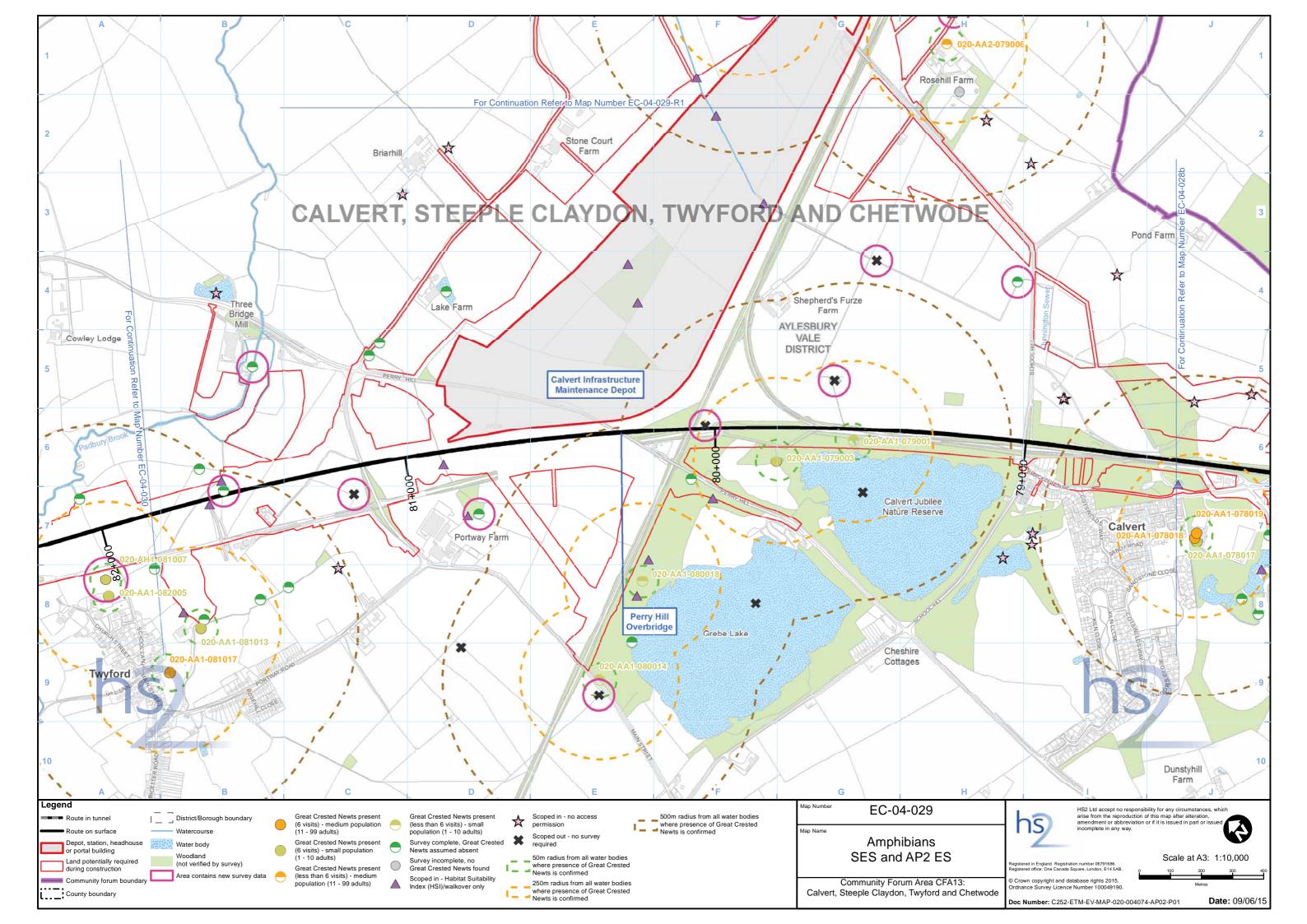
Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

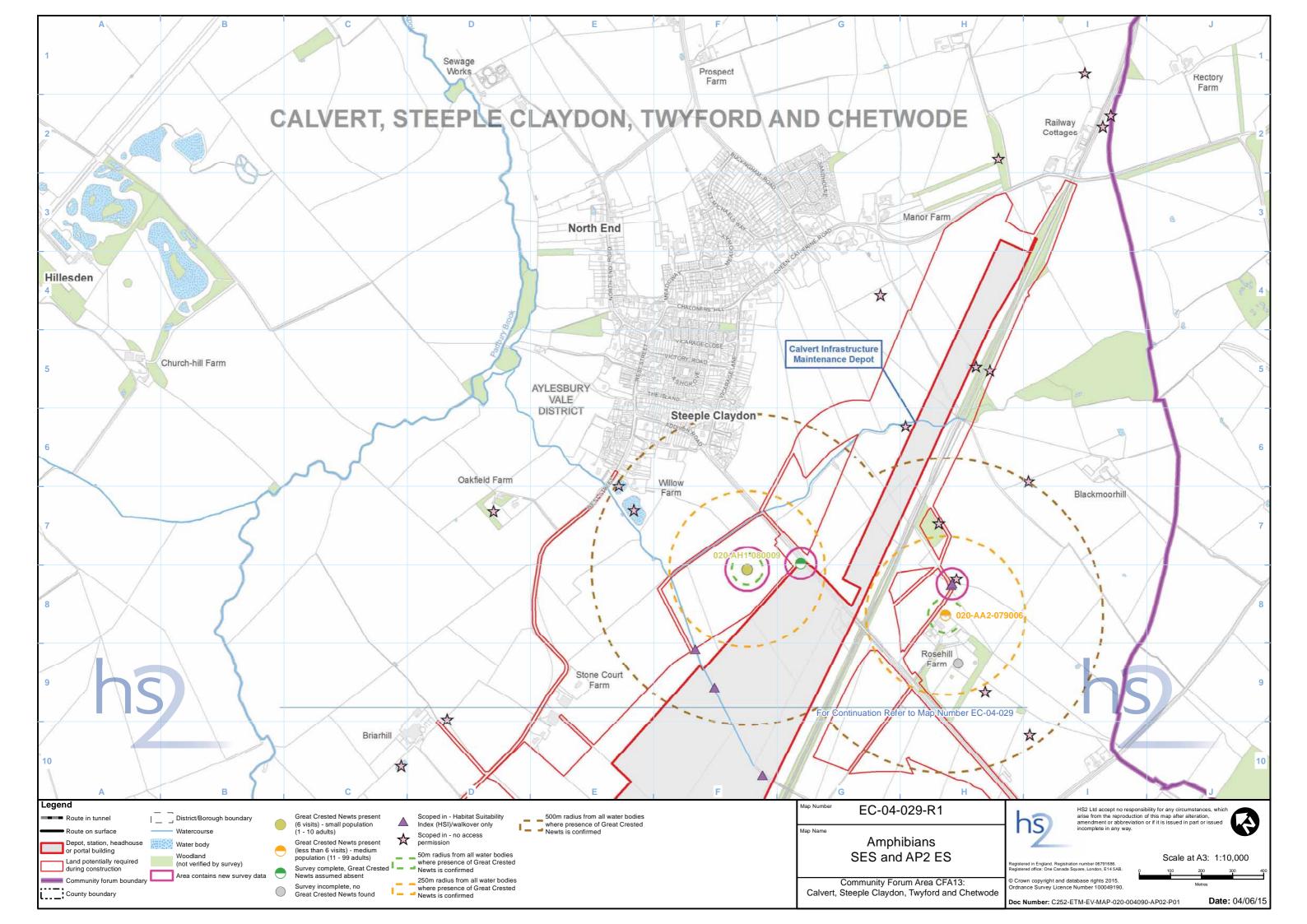
Volume 5 | EC-04 – Amphibians

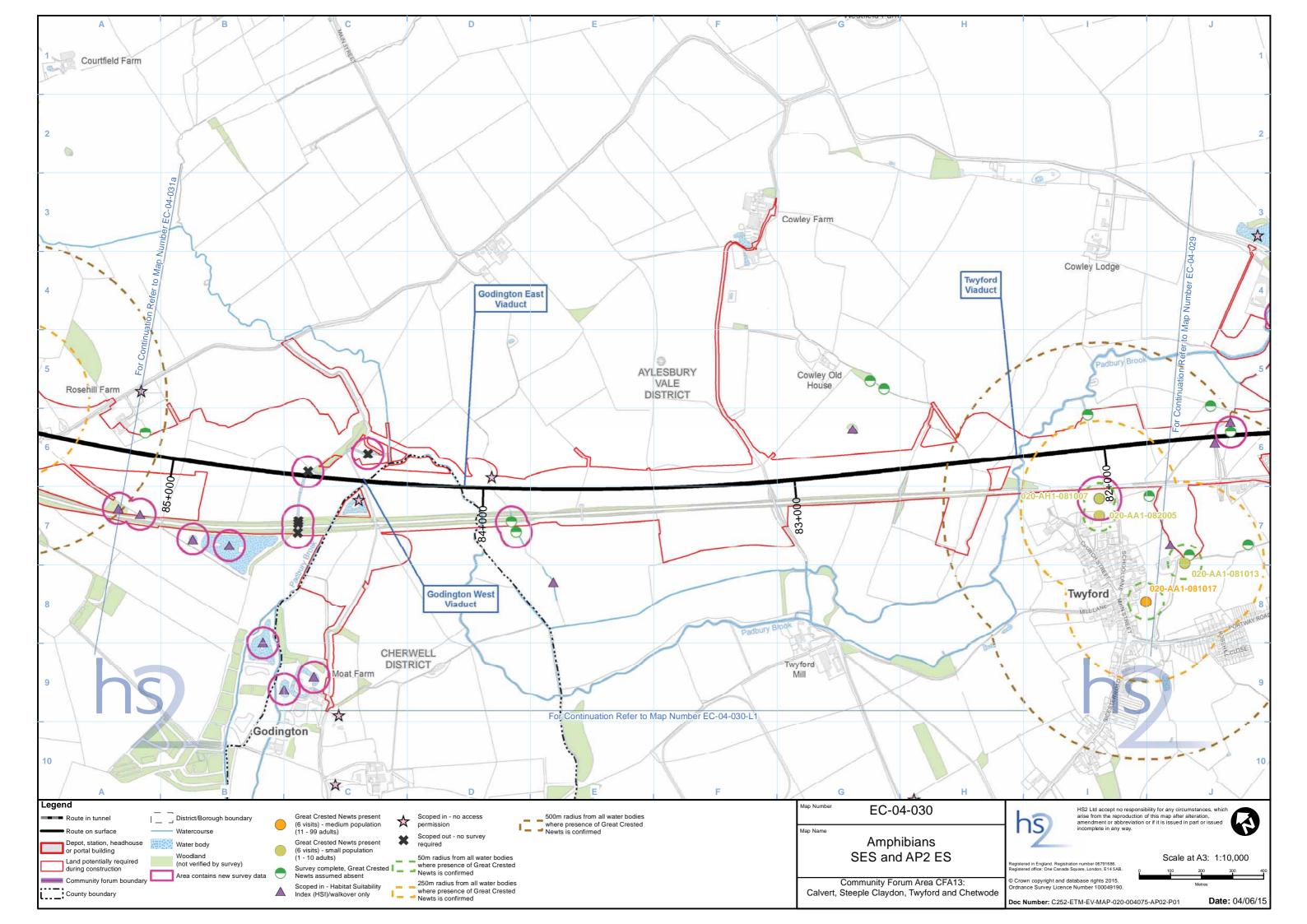
SES and AP2 ES – VOLUME 5

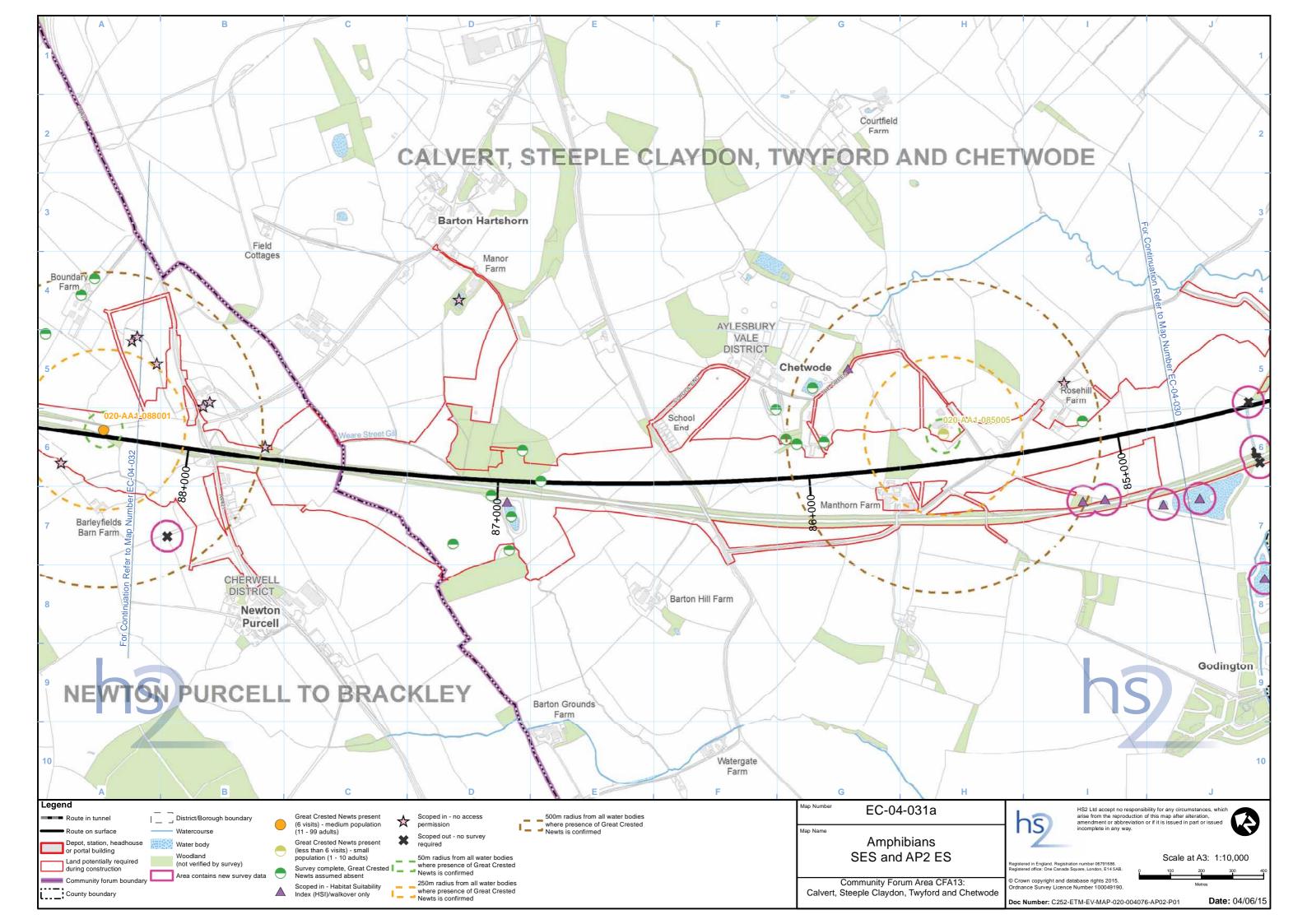










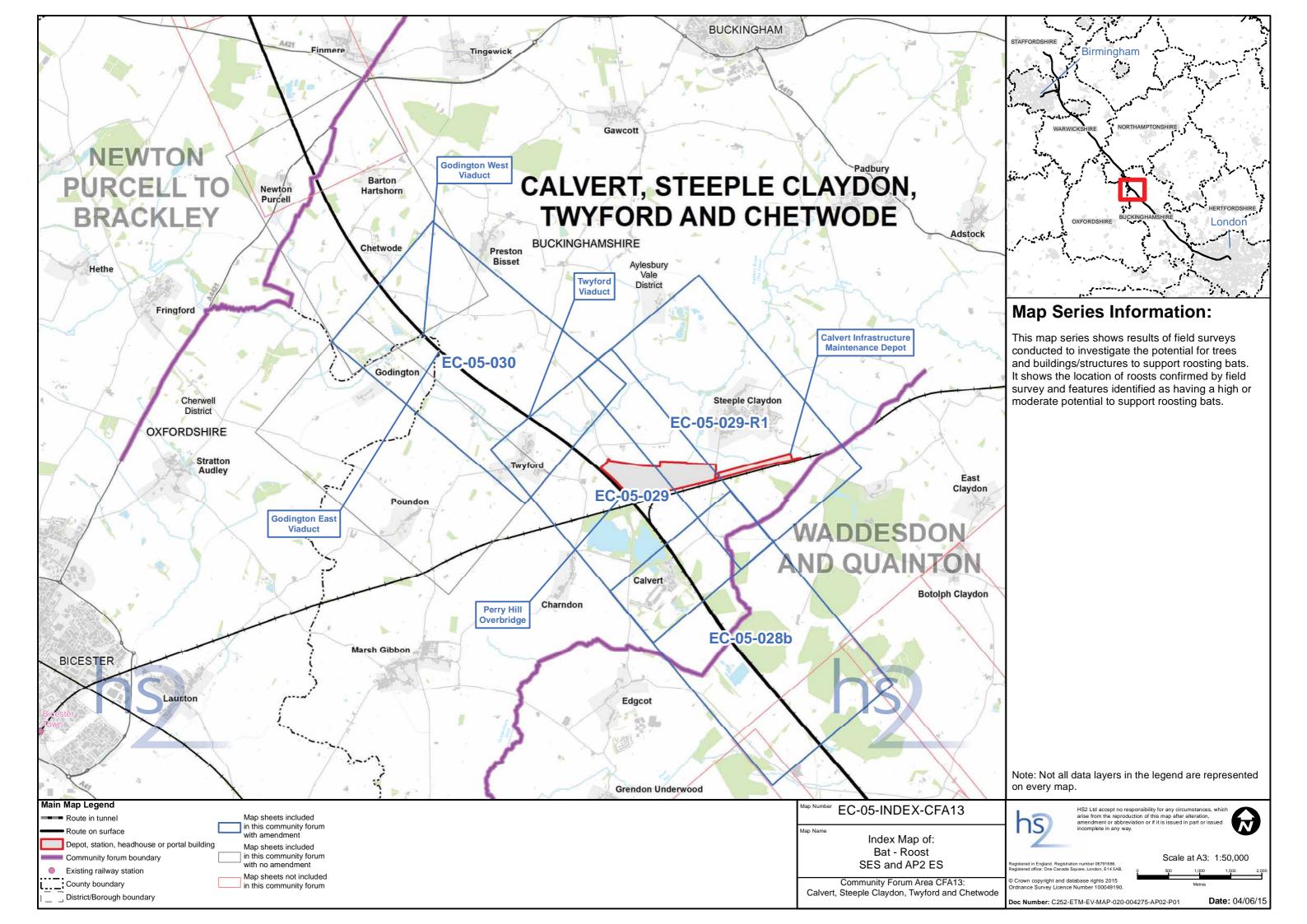


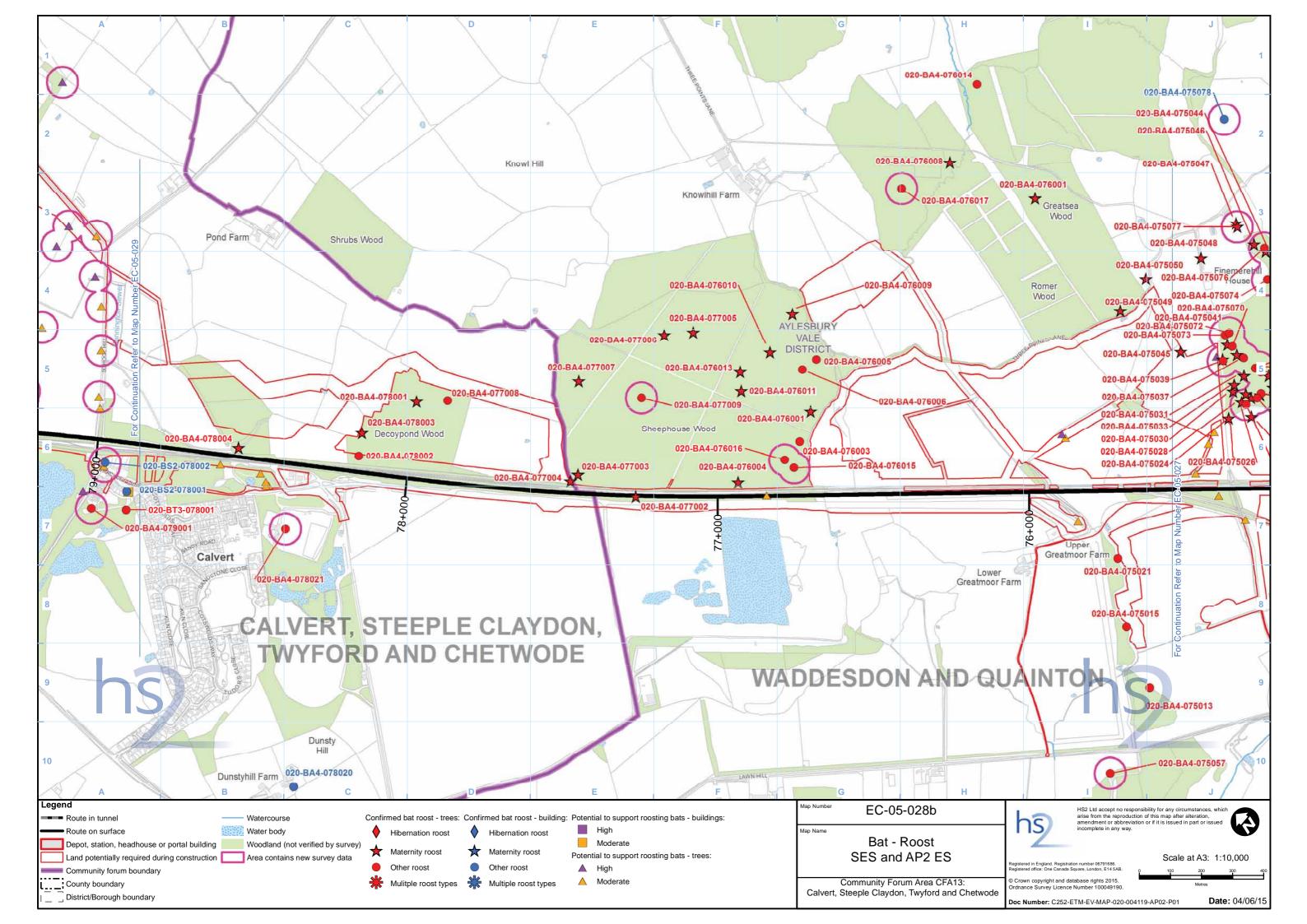
Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

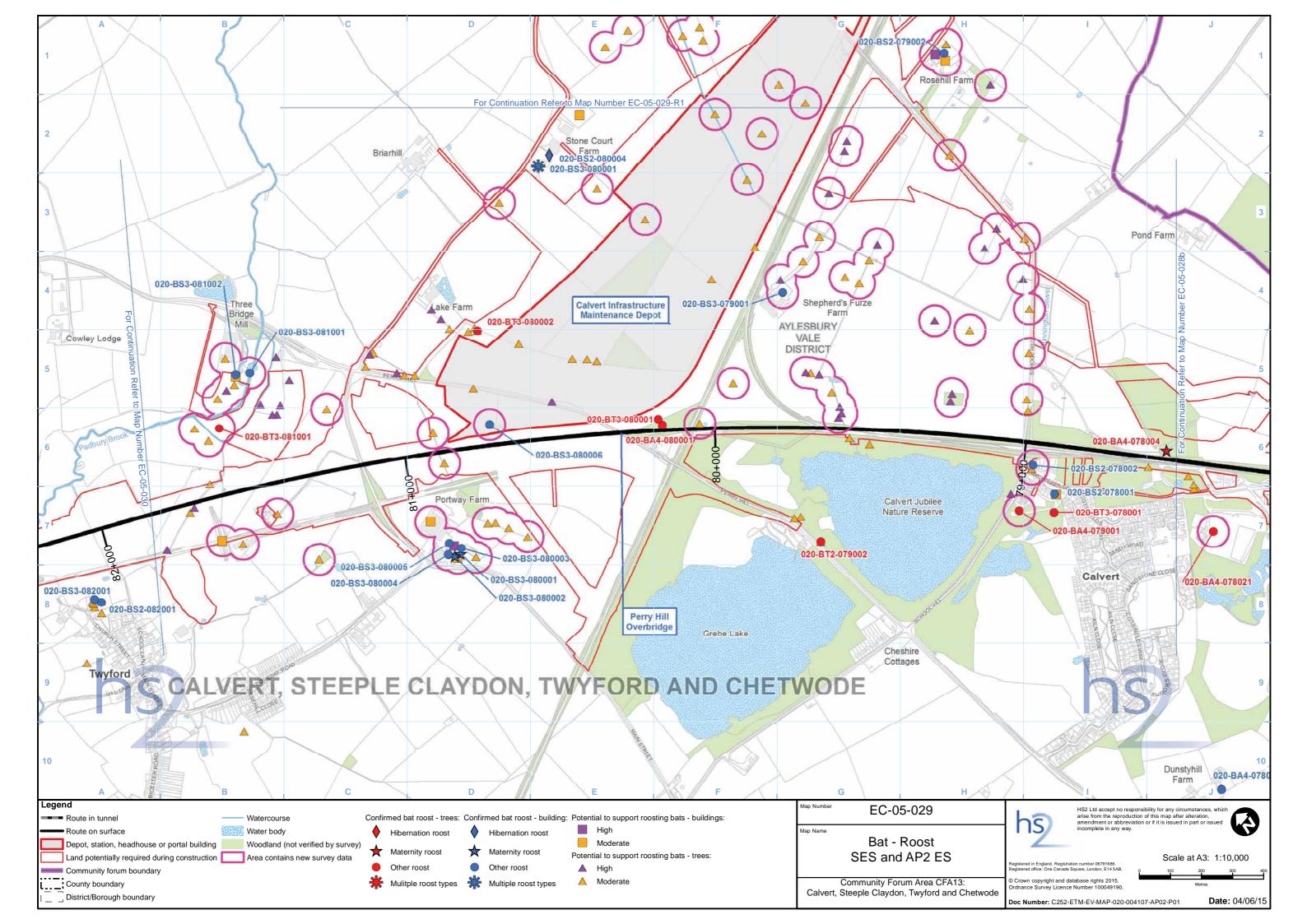
Volume 5 | EC-05 – Bats – Roosts

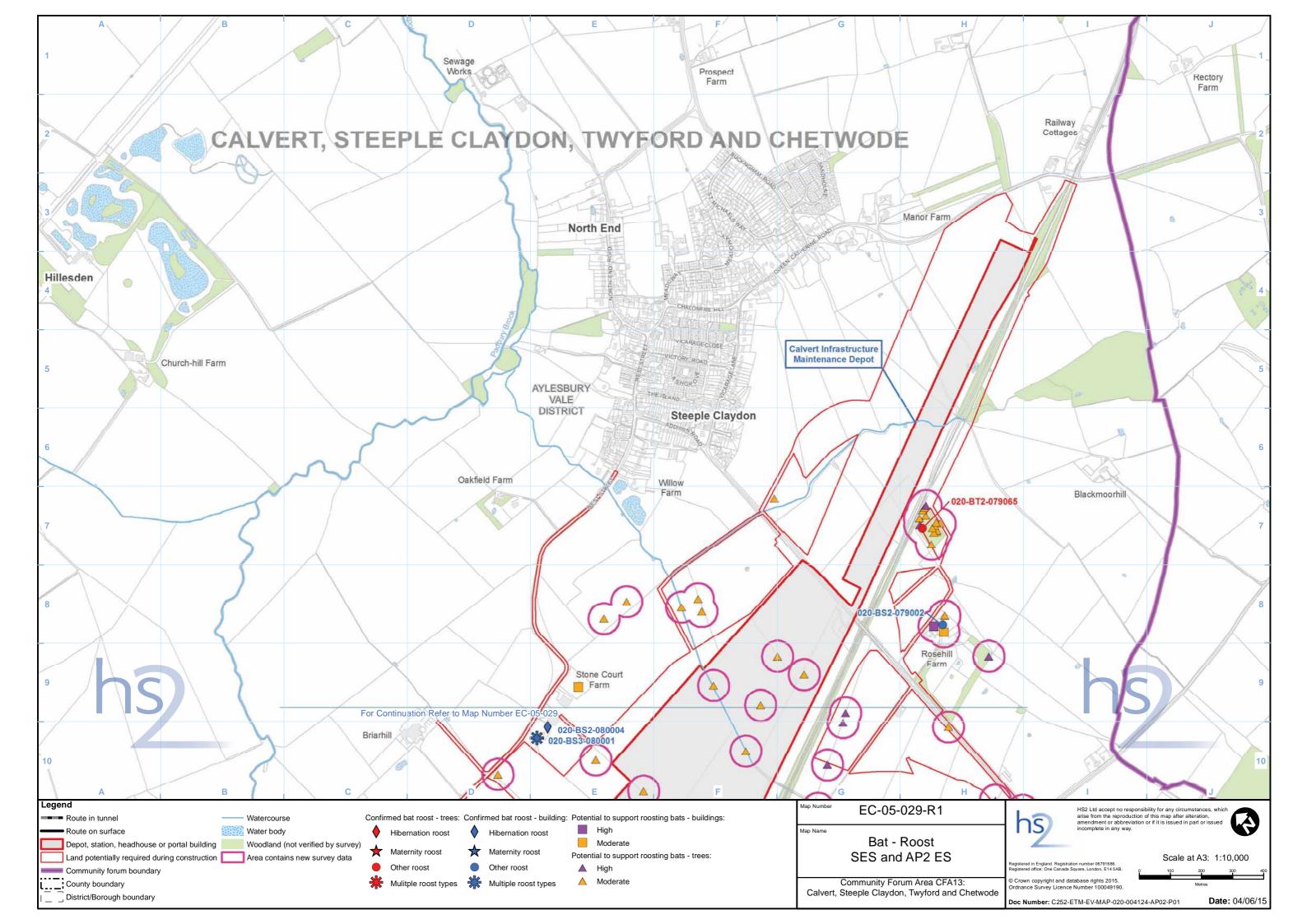
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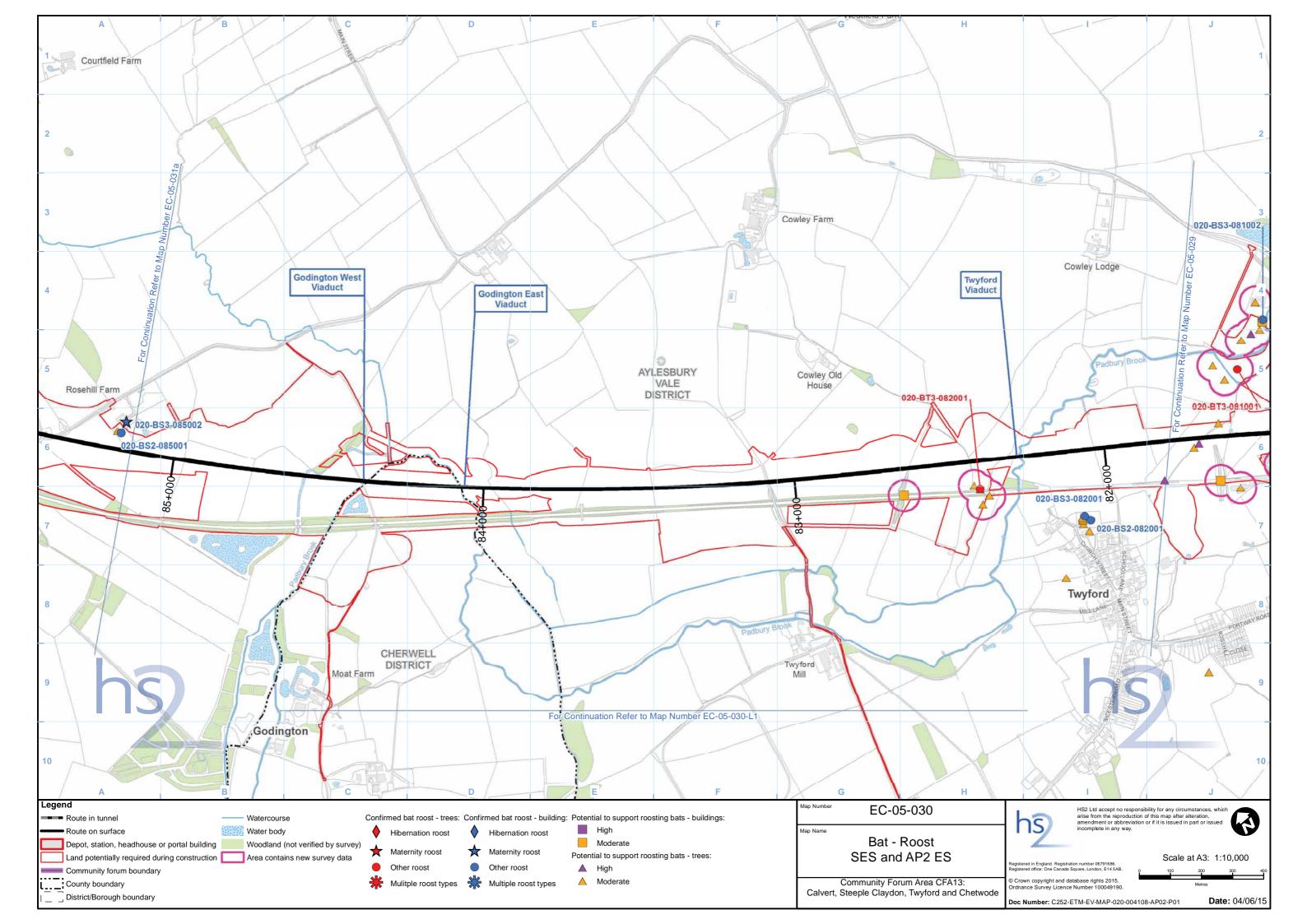










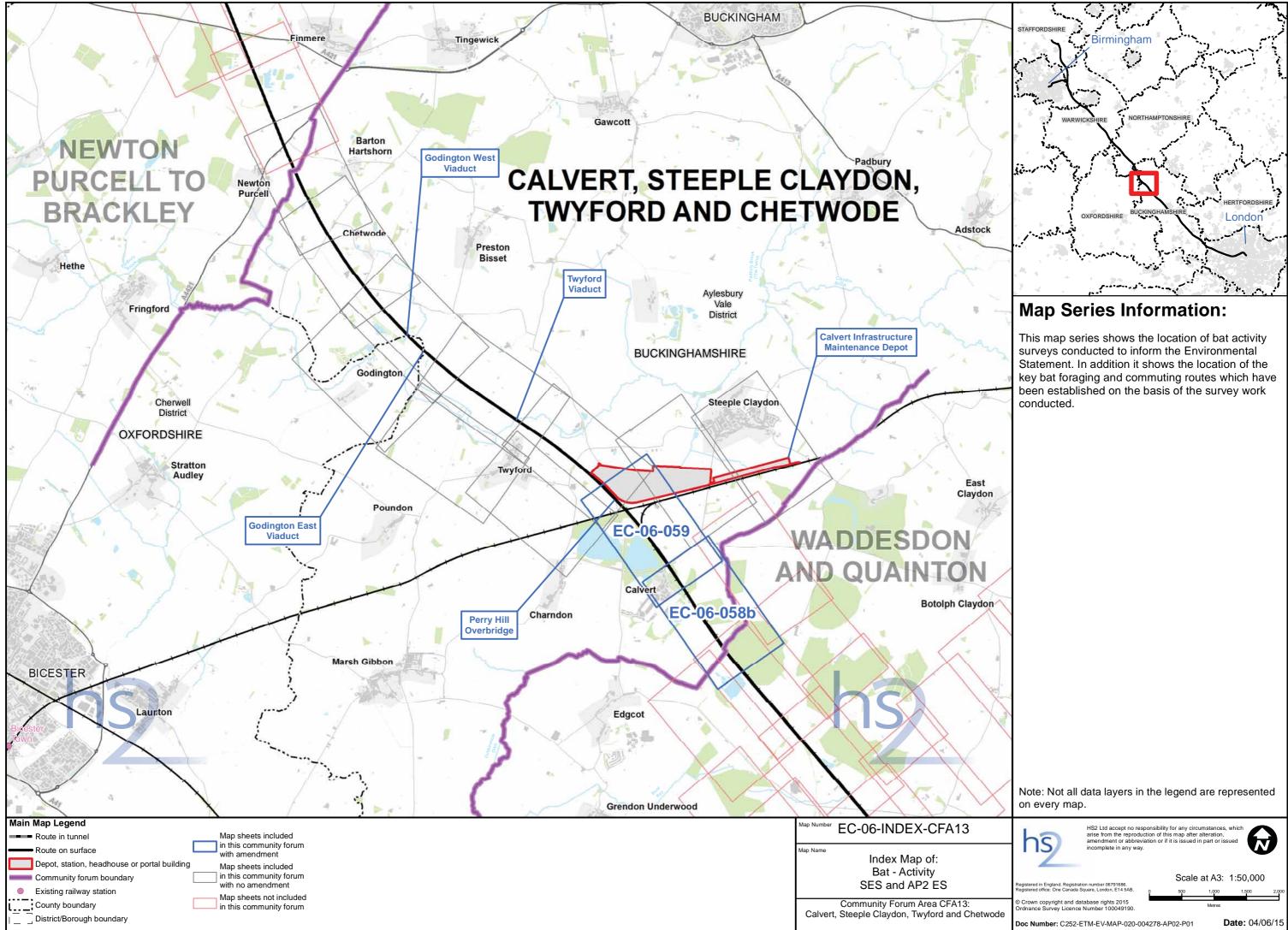


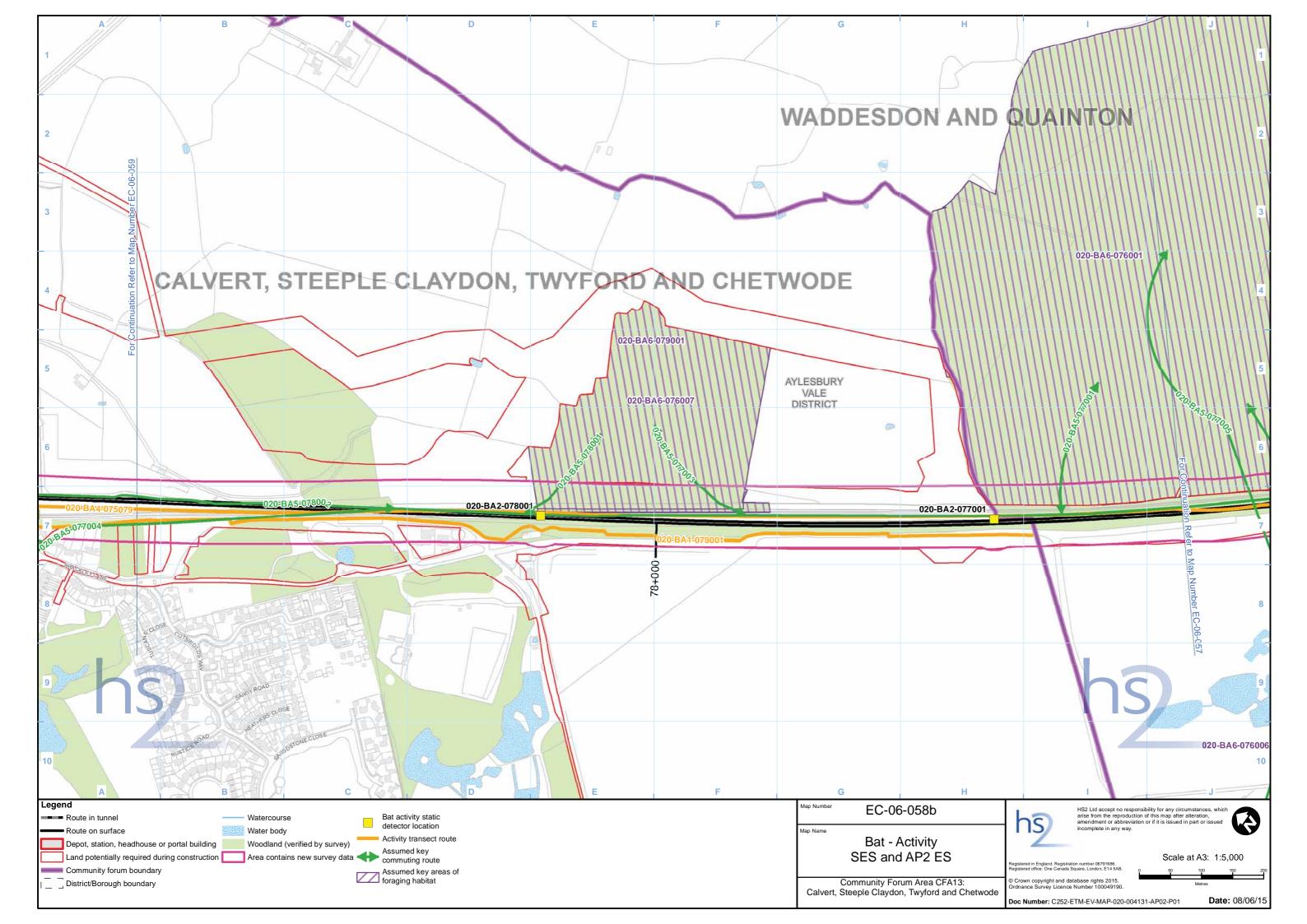
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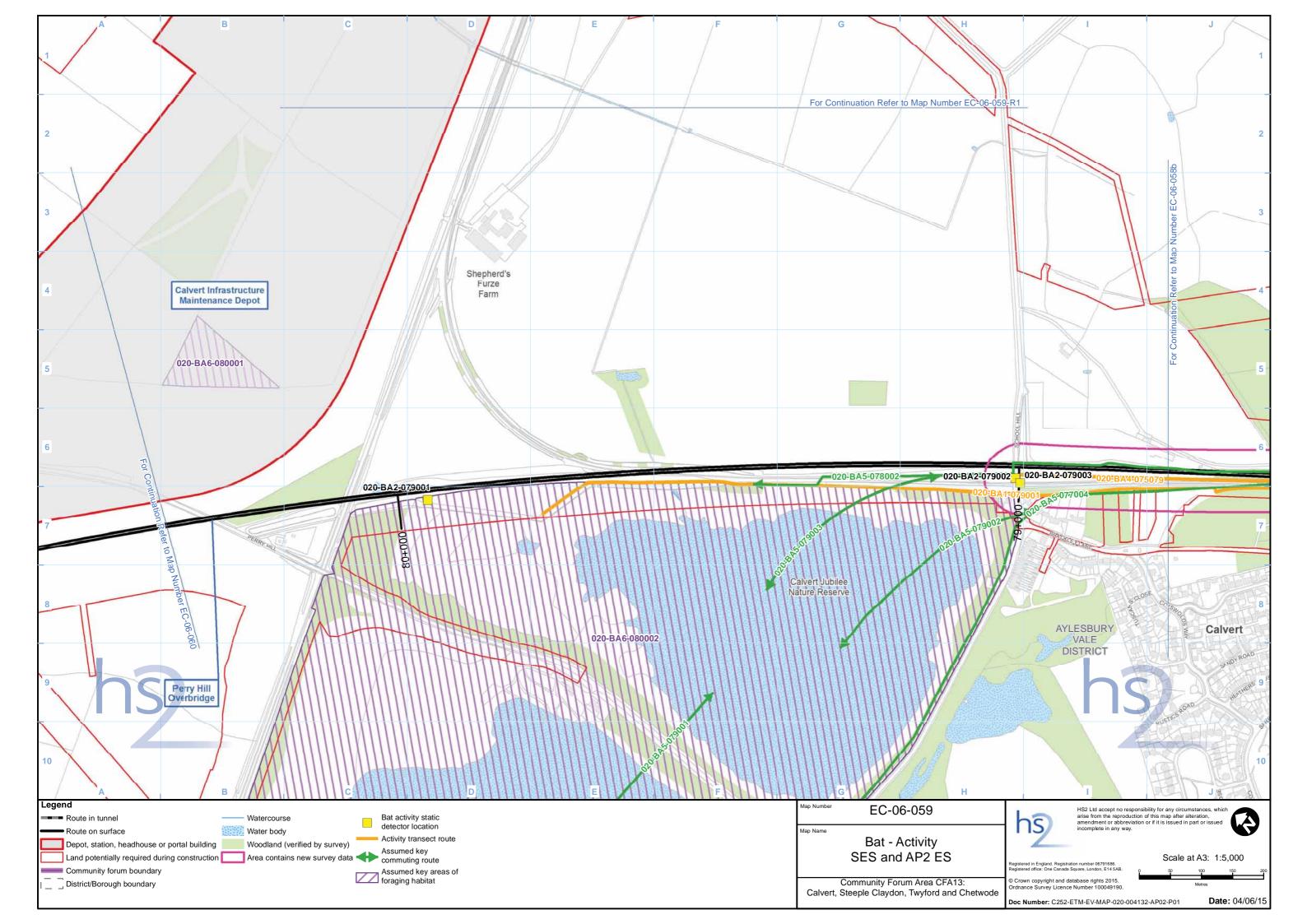
Volume 5 | EC-06 – Bats – Activity

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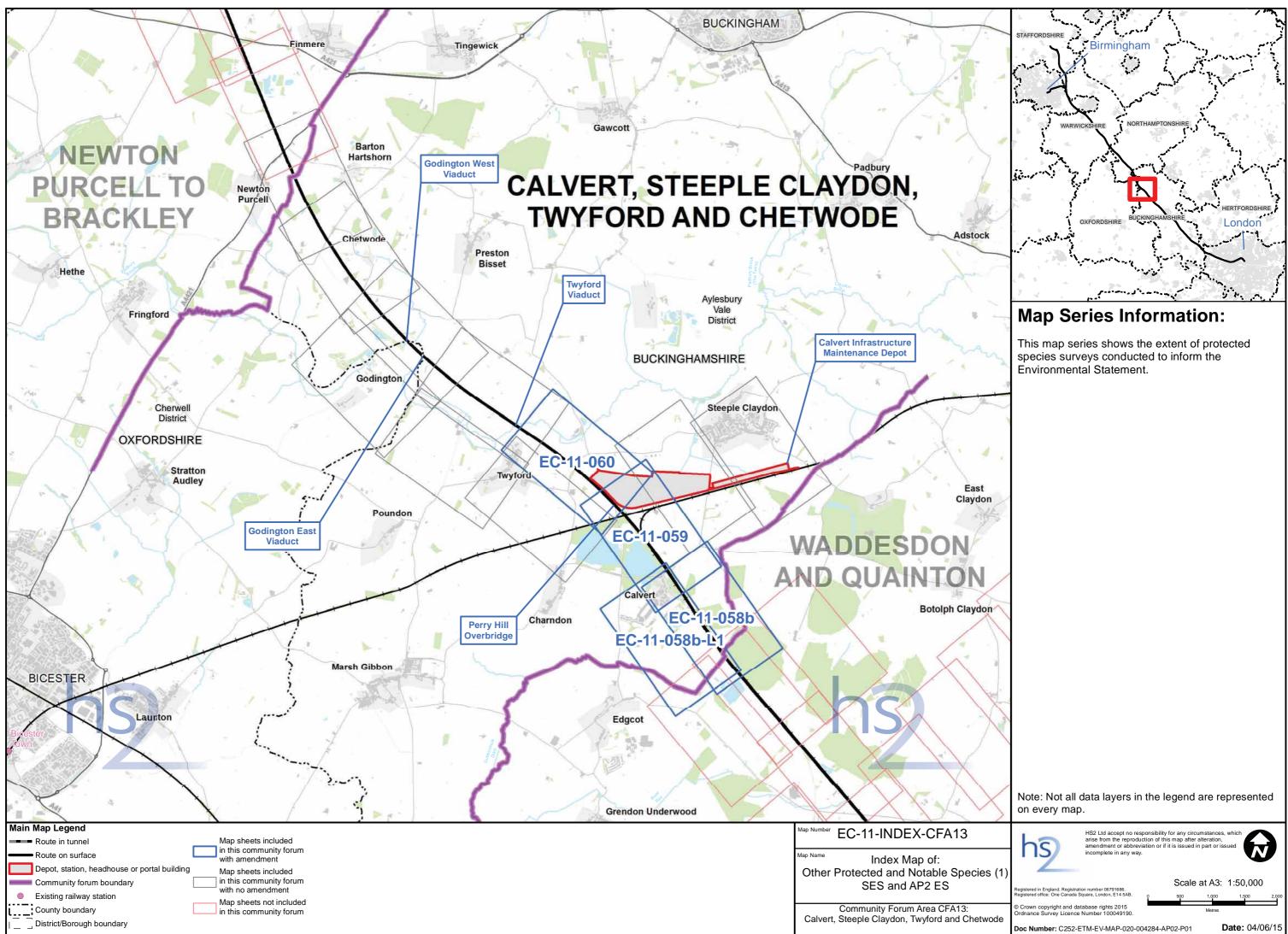


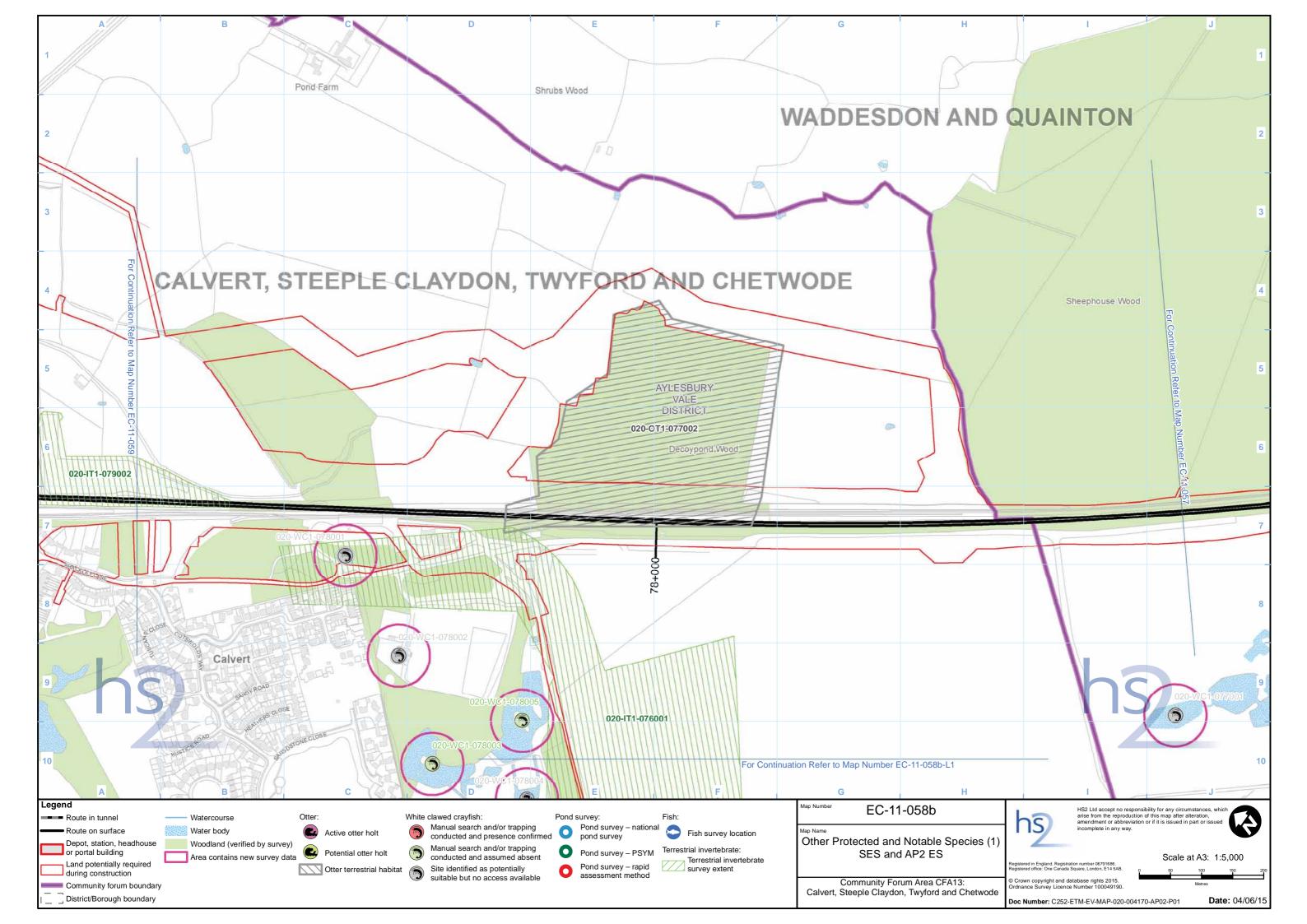
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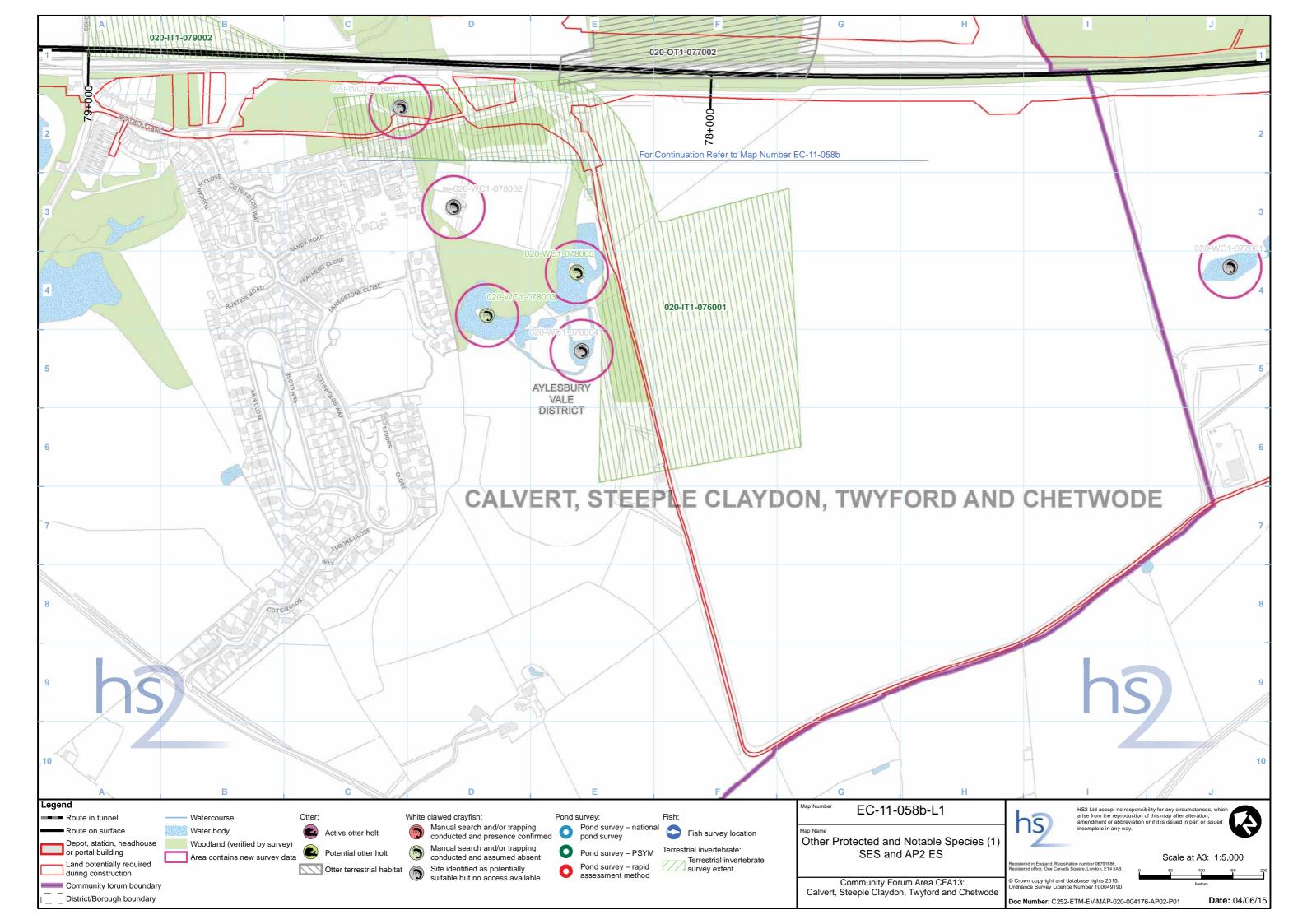
Volume 5 | EC-11 – Other Protected and Notable Species (1)

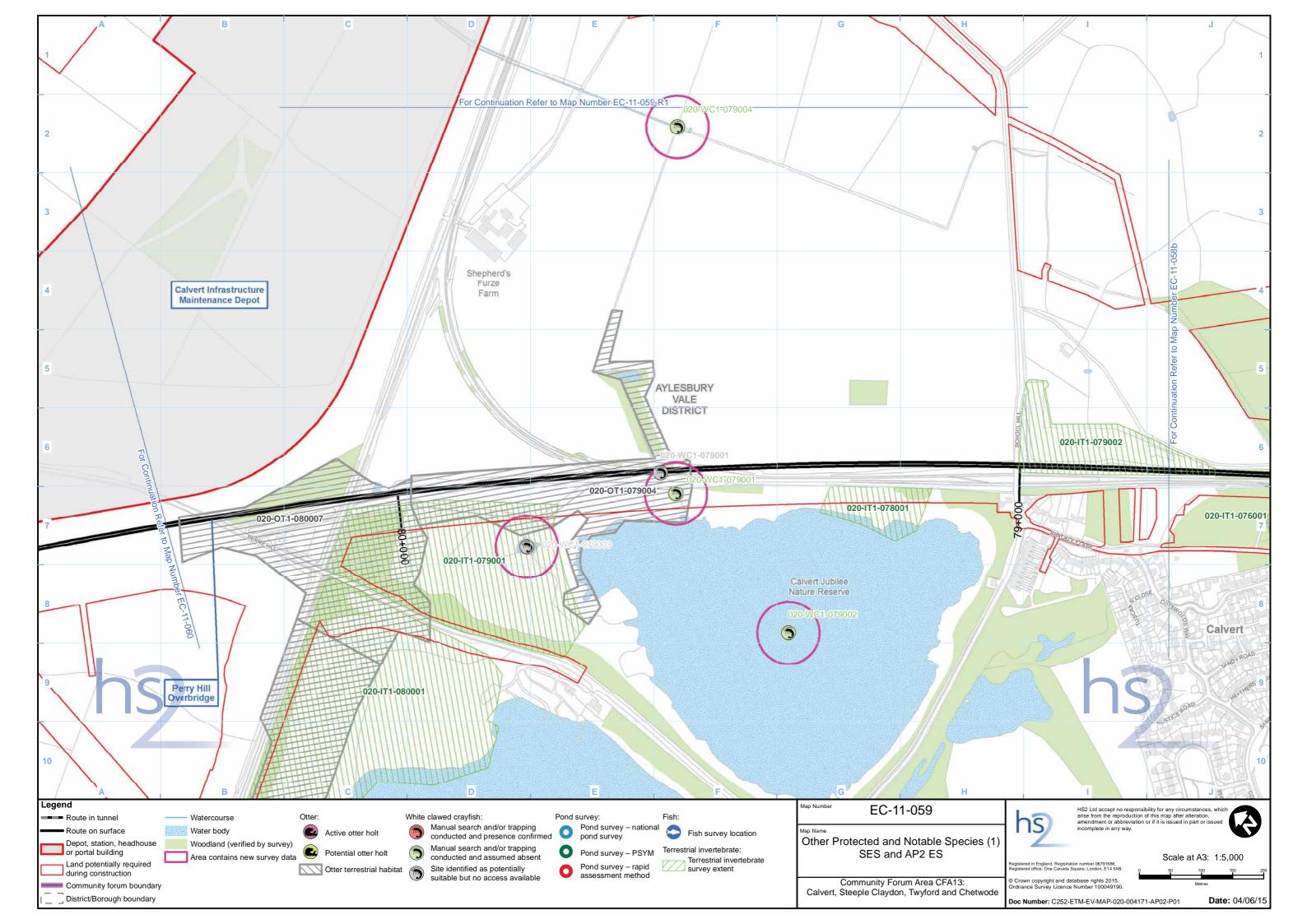
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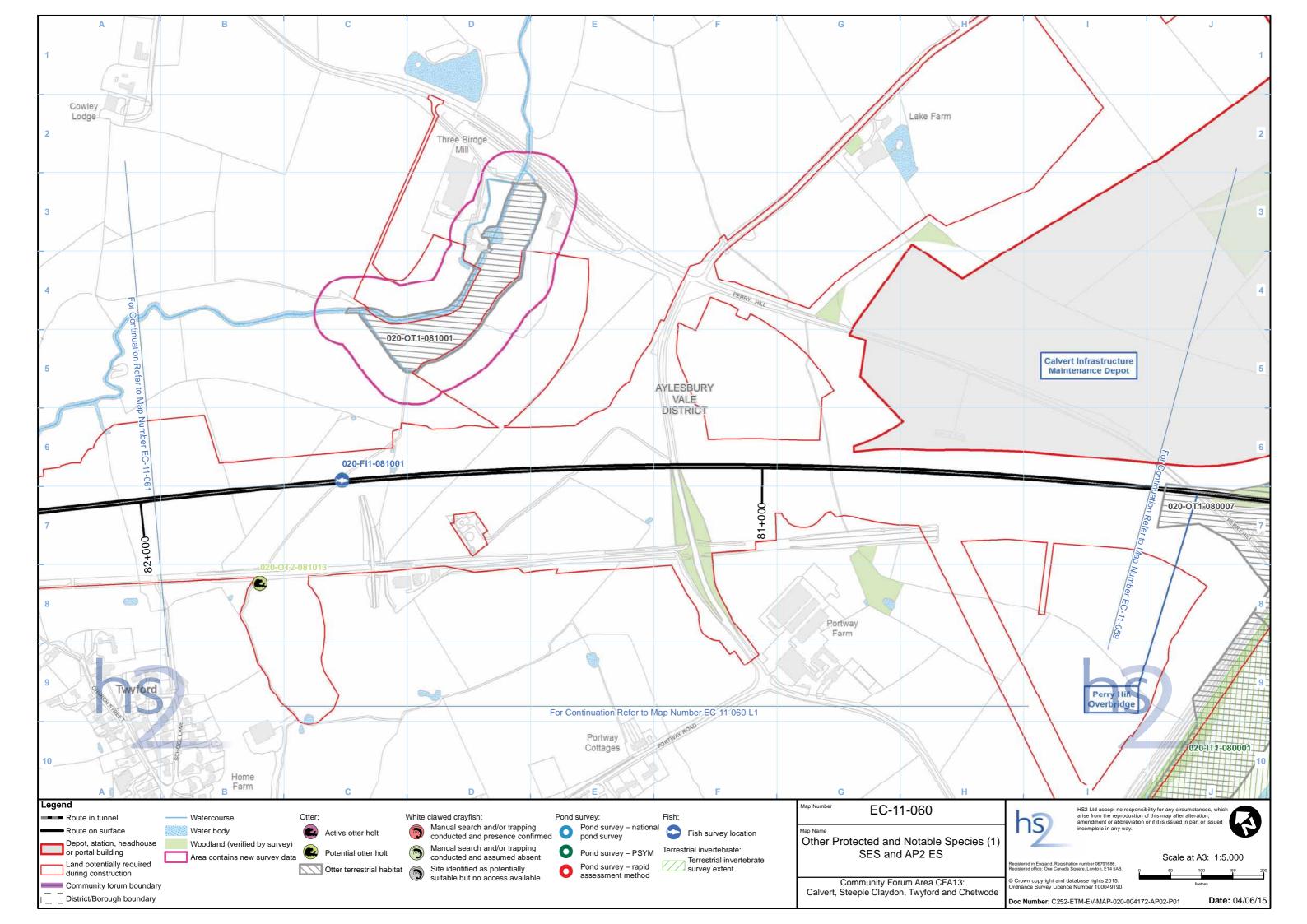












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X88