



Rampion Offshore Wind Farm



ES Section 24 – Terrestrial Ecology Appendix 24.8

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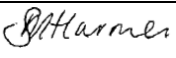
Rampion Offshore Wind Farm –
Onshore EIA

Reptile Survey
Technical Report

Prepared For E.ON Climate and
Renewables

October 2012

INTERNAL PROJECT REPORT FOR EON**RSK General Notes****Project No:** 852425**Title:** Rampion Offshore Wind Farm – Onshore EIA – Reptile Survey
Technical Report**Client:** E.ON Climate and Renewables**Issue Date:** October 2012**Revision:** Rev02**Issuing Office:** Hemel Hempstead

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1 INTRODUCTION

1.1 Purpose of this Report

This report presents the findings of reptile surveys carried out along the alignment of a proposed cable route through Sussex associated with a proposed off-shore windfarm development. An outline of the cable route is shown in *Figure 1*. The surveys comprised a preliminary habitat assessment carried out in December 2010 and subsequent presence/absence surveys using artificial refugia in selected areas, carried out between May and September 2011.

1.2 Scheme Description

The proposed cable route is approximately 27 km long running south to north from a landfall site near East Worthing to a proposed substation site east of the existing Bolney substation near Twineham. Construction activities will be undertaken within a fenced strip of land, known as the working width. The working width is expected to be no wider than 40m, comprising 15m for the cable easement, and 25m for additional areas for storage of excavated material and access along the cable trench. The cable easement will not necessarily be central to the working width.

Therefore, for the purposes of the ecological surveys, a survey corridor of 65m or 125m (depending on the survey-type) was used. For the reptile surveys, the search area covered a 65m survey corridor.

The term ‘cable route’ has been used throughout this report and represents the area within the Development Boundary for the onshore cable.

As shown on *Figure 2*, the ecology survey corridor for the cable route extends further north than the Development Boundary. This is due to the fact that the cable route connection with the substation was not defined at the time of the surveys and therefore a wider survey area was covered.

Ecological surveys undertaken for the proposed substation are detailed elsewhere in the Substation Technical Report (*Appendix 24.11*), although the survey areas do overlap, as shown in *Figure 2*

1.3 Ecological Context

The proposed cable route starts at the Sussex coast on the eastern outskirts of Worthing and proceeds in a general north-east direction, crossing the South Downs National Park and terminating east of Bolney Substation.

Between the coast and the A27 road, the route crosses semi-urban habitats, including a golf course, parkland and former allotments, and a section of mostly arable farmland. It then enters the South Downs NP, passing through a landscape of rolling chalk hills predominately converted to intensive arable farming. Beyond Tottington Mount the final half of the route comprises a mixture of arable and pastoral farmland enclosed by hedges.

The route generally avoids large areas of woodland and other semi-natural habitats, though it crosses a few discrete areas of unimproved grassland, most notably at Tottington Mount and Old Erringham Farm Valley and road cutting SNCI. Other noteworthy habitats crossed include coastal shingle, the tidal River Adur (which will be crossed via directional drilling techniques) and a few narrow woodland corridors.

1.4 *Structure of this Report*

The remainder of the report is set out as follows:

- *Section 2* describes the survey and assessment methods;
- *Section 3* presents the results of the surveys;
- *Section 4* provides the evaluation and conclusions;
- *Section 5* is the reference section;
- *Section 6* provides the figures;
- *Appendix A* gives relevant legislation; and
- *Appendix B* lists the full survey data.

2 METHODS

2.1 Survey Constraints

Access was denied by landowners for a 1 km section of the route between Horn Lane and the A281 road, although it was included in the animal walkover in December 2010 so some information is available, although limited.

A minor route change occurred subsequent to the completion of the reptile surveys to accommodate the 'Teville Stream Restoration project'. As a result, survey locations REP005, REP006 and REP009 no longer fall within the 65m survey corridor. Due to the confirmed presence of reptiles at REP009 and REP006 a precautionary approach will be taken at these locations and the results will apply to any new adjacent areas of habitat crossed, unless they are completely unsuitable for reptiles.

2.2 Survey Method

2.2.1 Habitat Assessment

An Extended Phase 1 Habitat Survey was undertaken by RSK Environment in December 2010 which identified areas that are suitable for one or more of the four common reptile species. Particular attention was paid to those features that provide suitable basking areas (e.g. south-facing slopes), hibernation sites (e.g. banks, walls, piles of rotting vegetation) and opportunities for foraging (rough grassland and scrub).

Areas of optimal reptile habitat crossed by the proposed route were then surveyed to confirm reptile presence/absence.

At all hedgerow breaches, a suitable mitigation strategy will be implemented to ensure reptiles are not adversely affected, therefore hedgerows were generally not included in the presence/absence survey areas.

2.2.2 Artificial Refuge Surveys

The standard method for establishing reptile presence is to use reptile 'tinning' surveys. Artificial refuges (roofing felt tiles 'tins' approximately 0.5 m²) were placed in the areas that had been identified as suitable for reptiles during the habitat assessment. The felt tiles attract reptiles, which use them for shelter and to aid temperature regulation, which allows surveyors to find reptiles that would otherwise be widely dispersed and well-hidden.

48 locations were identified which were suitable for reptile tinning surveys along the proposed cable route including woodland, scrub, vegetated tracks/paths, rough grassland, and the banks of waterbodies including ditches.

Reptile surveys using approximately 373 felt tiles were carried out between May and September 2010 when reptiles are active. Tins were checked for reptiles on five occasions during suitable weather (ideally in bright sunshine between the hours of 0830 to 1100 and 1600 to 1830 with air temperatures between 9 and 15°C, or if there is hazy or intermittent sunshine and little wind then between 9 and 18°C, not during rain).

When checking tins, a general watch was kept for other signs of reptiles, e.g. Grass Snake eggs, excrement or sloughed skins (often found beneath refuges).

3

RESULTS

Common Lizard, Grass Snake and Slow-worm were recorded, but not Adder.

Table 1 summarises the results of the survey locations where reptiles are present. *Column 1* gives the numbers that relate to the discrete survey locations shown in *Figure 2*. *Columns 2 – 6* give information on species and numbers recorded on visits 1 to 5 respectively. The species recorded are given using the following codes: SW – Slow-worm, CL – Common Lizard, GS – Grass Snake, followed by the number of individuals observed in brackets. *Column 7* concludes the findings at each survey location in terms of the numbers present (based on experience and professional judgement). Full survey results (including negative survey locations for reptiles) can be found in *Appendix B*.

Table 1. Survey Results for Reptiles

Site No	Area description	Check 1	Check 2	Check 3	Check 4	Check 5	Conclusion
001	Scrub, at the end of St Pauls Avenue	-	-	-	SW (1)	-	Low numbers
002	Disused allotments	SW (16)	SW (14)	-	SW (5) GS (1)	SW (17)	High numbers
006	Dry ditch, north of railway	-	-	SW (1)	-	-	Low numbers
009	Vegetated edge of field/public footpath	-	SW (1)	SW (2)	-	-	Low numbers
011	Rough grassland, under pylons	CL (1) SW (1)	SW (2)	SW (2)	SW (2)	SW (11)	High numbers
014	Rough grassland edge along track	-	-	-	-	CL (1)	Low numbers
018	South Downs link embankment	CL (1)	SW (1)	SW (5) GS (2)	-	-	Low numbers
019	Rough grassland west of A283	-	GS (1)	CL (1)	-	-	Low numbers
020	Old Erringham SNCI, east of A283	SW (2)	SW (2)	SW (7)	SW (6) CL (2)	SW (2)	High numbers
025	Small vegetated quarry on slope	-	GS (1)	-	-	-	Low numbers
026	Dry ditch in improved field	-	-	GS (1)	-	-	Low numbers

Site No	Area description	Check 1	Check 2	Check 3	Check 4	Check 5	Conclusion
027	Rough grassland adjacent to stream/pond	-	SW (1) CL (1) GS (1)	SW (1) GS (1)	CL (1)	-	Low numbers
028	Overgrown path with slight mound	GS (1)	-	SW (1) GS (1)	SW (1)	-	Low numbers
029	Field of rough grassland	SW (1)	-	-	CL (4)	-	Low numbers
033	Vegetated track	CL (1)	-	-	-	-	Low numbers
034	Area of marshy grassland	SW (1)	CL (3) SW (4)	SW (5) GS (5)	CL (7) SW (2)	CL (1)	High numbers
035	Rough grassland adjacent to ditch	-	SW (2)	SW (1)	-	-	Low numbers
059	Thin section of rough grassland on bank adjacent to track	SW (1)	SW (2)	SW (4) CL (1)	SW (1)	SW (5) CL (9)	High numbers
064	Area of bramble and nettles	SW (2)	-	-	SW (1)	-	Low numbers
065	Rough grassland	SW (1)	-	-	-	-	Low numbers
067	Woodland edge with bramble	-	-	-	GS (2)	GS (1)	Low numbers

EVALUATION AND CONCLUSIONS

The three common species of reptile; Common Lizard (*Zootoca vivipara*), Slow-worm (*Anguis fragilis*) and Grass Snake (*Natrix natrix*) were recorded along the proposed cable route, albeit at generally low levels in most areas. In most areas, due to the relatively low number of individuals, a mitigation strategy involving the strimming of vegetation (under supervision of an ecologist) to discourage reptiles from the area prior to any works commencing is appropriate. This strategy will also be used at hedgerow breaches as discussed in *Section 2.3.1*.

However, the following five areas have notably higher number of reptiles and therefore additional mitigation measures (involving fencing and translocating reptiles from the working width) will be needed if they are affected:

- Disused allotment area south of the railway – Reptile location 002
- Small area of rough grassland situated under a pylon to the south of the cable route (please note it is unlikely this area will be affected due to its location underneath a pylon) – Reptile location 011
- Old Erringham SNCI, east of A283 – Reptile location 020
- Area of marshy grassland – Reptile location 034
- Thin section of rough grassland on bank adjacent to track (please note this is a very small area and therefore a thorough hand search followed by strimming to dissuade reptiles from the area may suffice) – Reptile location 059

REFERENCES

Beebee, T. & Griffith, R. (2000). *Amphibians and Reptiles*. HarperCollins, London.

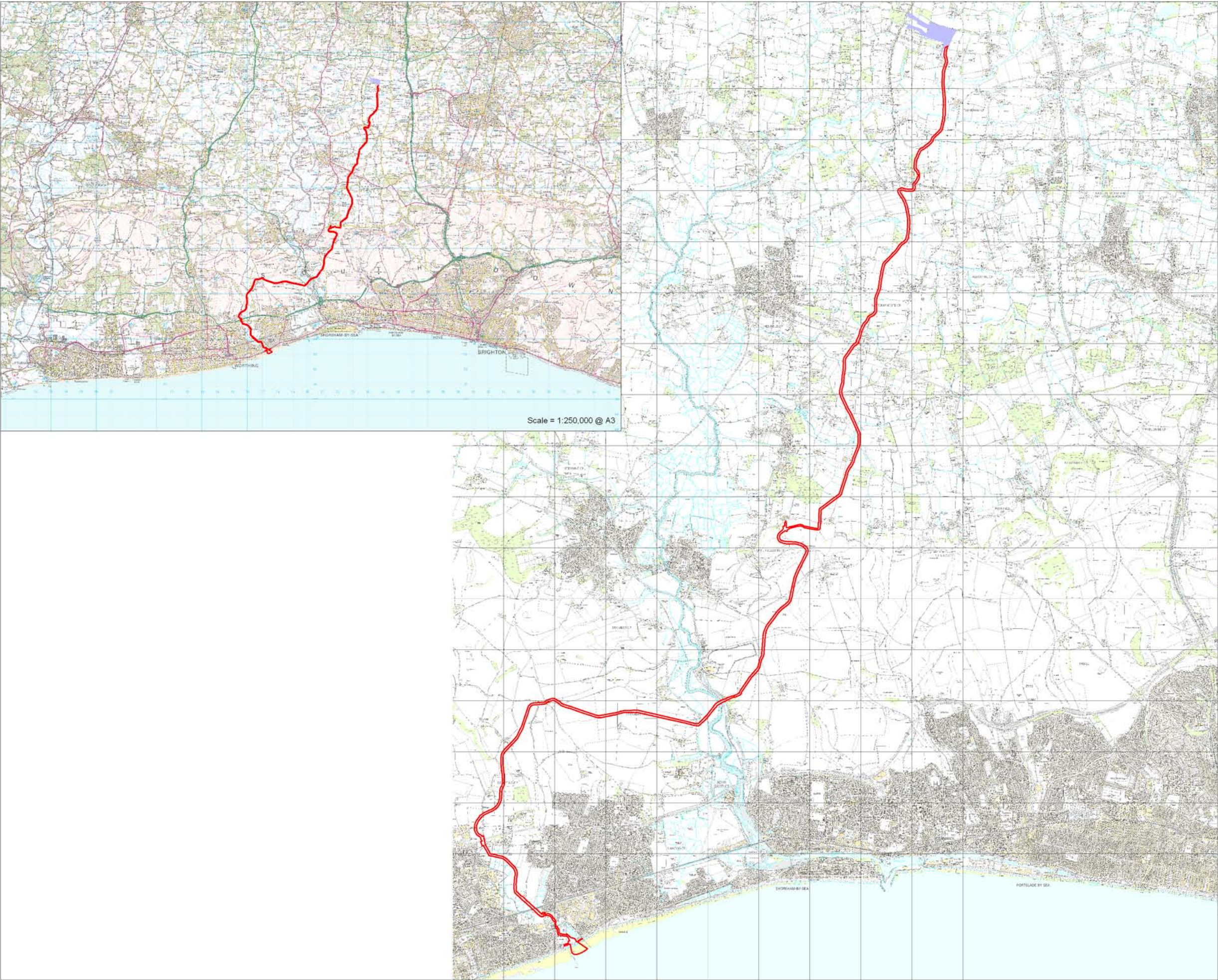
English Nature, (1996). *Reptile survey methods: Proceedings of a seminar held on 7 November 1995 at the Zoological Society of London's meeting rooms, Regent's Park, London*.

Gent, T & Gibson, S. (1998). *The Herpetofauna Workers' Manual*. Joint Nature Conservation Committee, Peterborough.

FIGURES

Figure 1 – Site location plan

Figure 2 – Reptile Survey locations



Legend :

- Development Boundary
- Substation Development Boundary

00	21.11.12	Loc	RG	NH	VG
Rev	Date	Description	Drn	Chk	App

Rampion Wind Farm



Title :

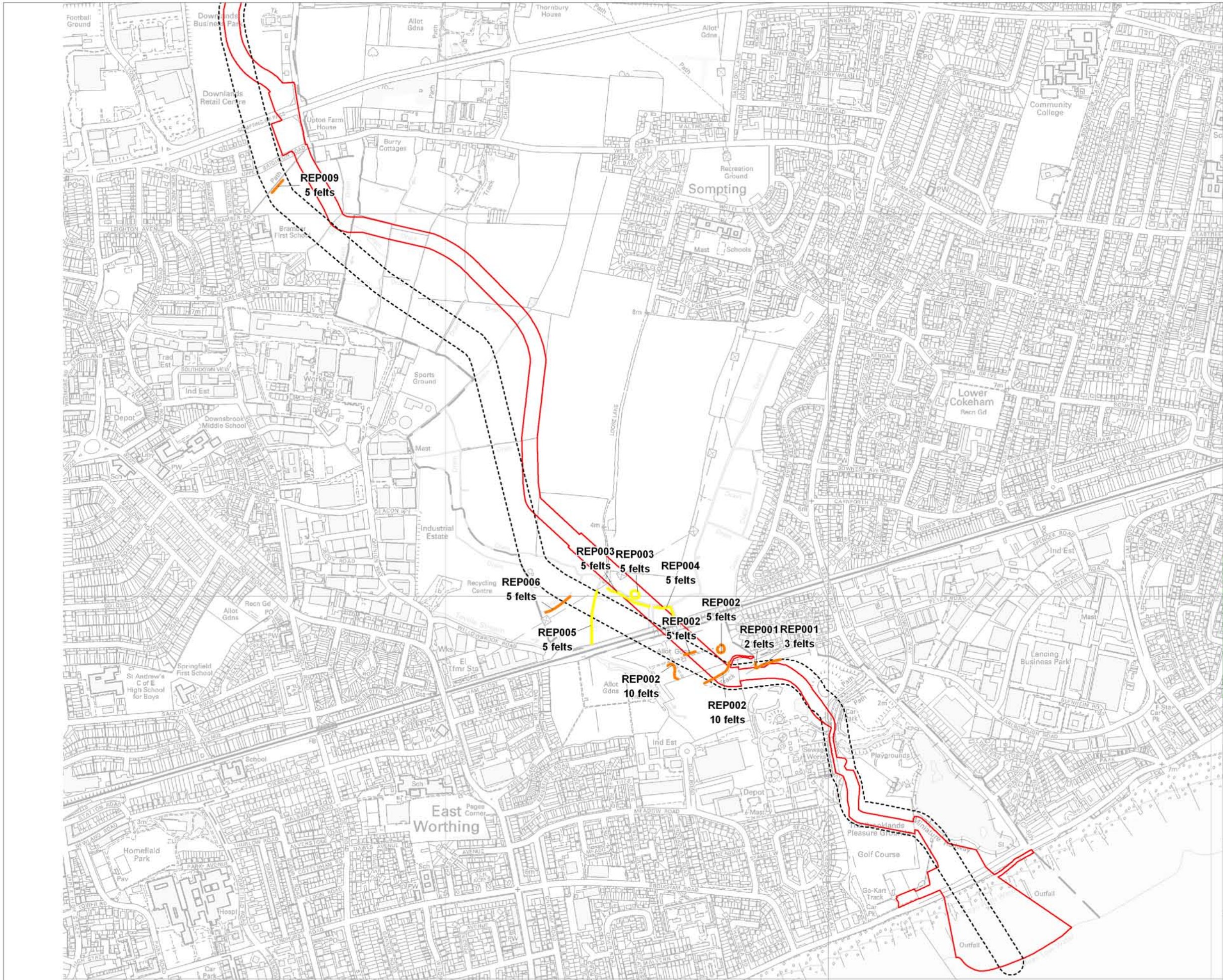
Figure 1 -
Site Location Plan



Scale = 1:75,000 @ A3



REV 16



- Legend:**
- Ecology survey corridor (65m)
 - Development Boundary
 - Substation Development Boundary
 - No access
 - Reptile survey location
 - Reptile survey location - reptiles found
 - REP002 Survey location reference

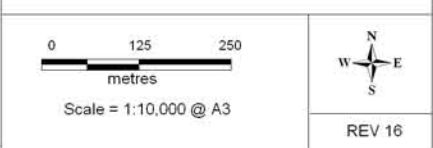


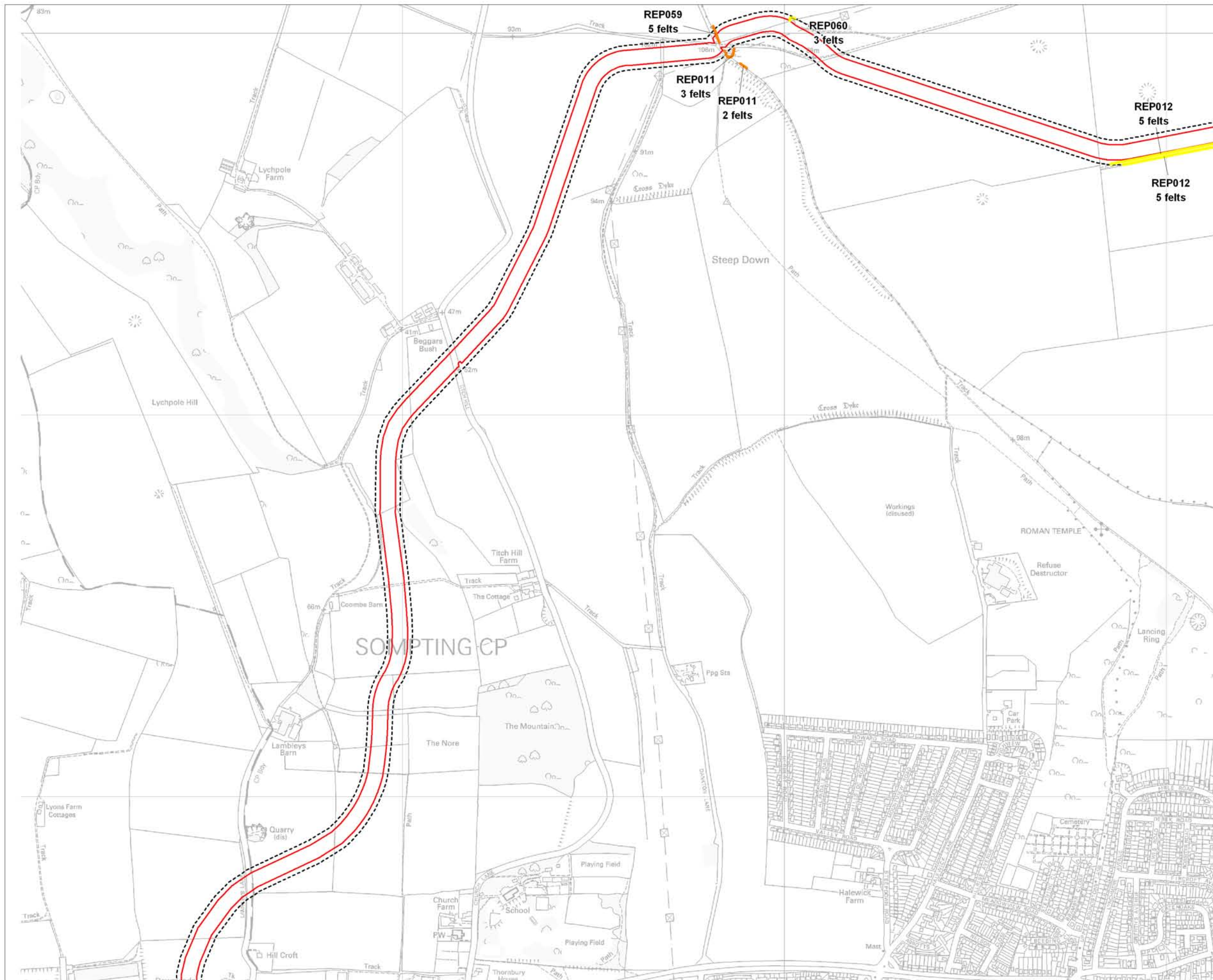
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Rev	Date	Description	Drn	Chk	App

Rampion Wind Farm



Title:
Figure 2 -
Reptile Survey
Map 1 of 8





- Legend :**
- Ecology survey corridor (65m)
 - Development Boundary
 - Substation Development Boundary
 - No access
 - Reptile survey location
 - Reptile survey location - reptiles found
 - REP002 Survey location reference



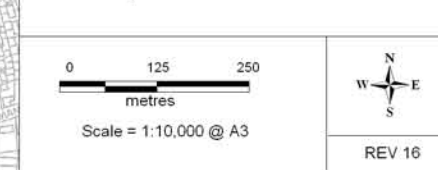
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Rev	Date	Description	Drn	Chk	App

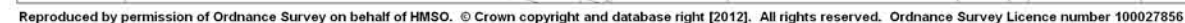
Rampion Wind Farm

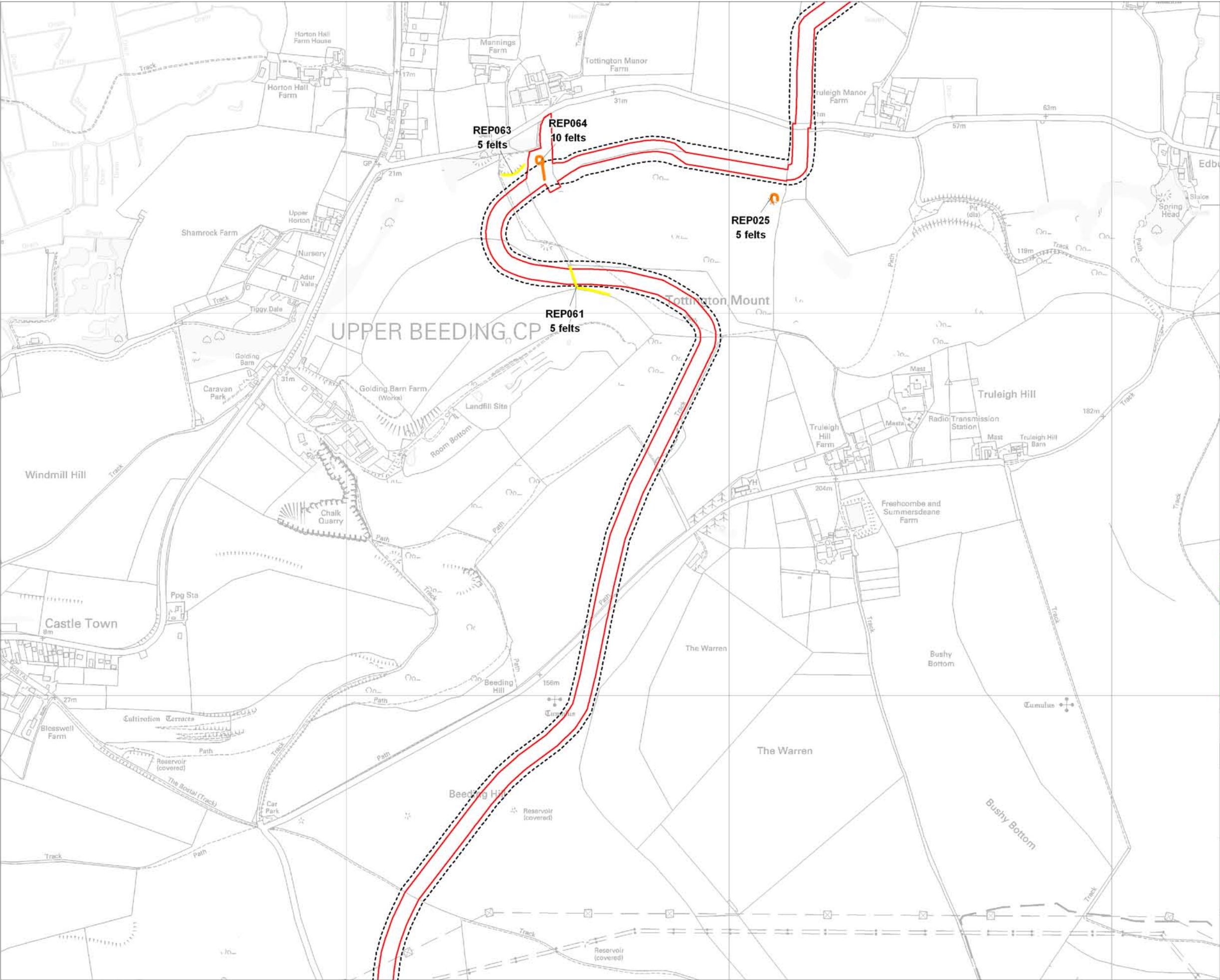
RSK e-on

Title :

Figure 2 -
Reptile Survey
Map 2 of 8







- Legend:
- Ecology survey corridor (65m)
 - Development Boundary
 - Substation Development Boundary
 - No access
 - Reptile survey location
 - Reptile survey location - reptiles found
 - REP002 Survey location reference

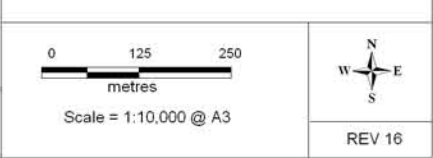


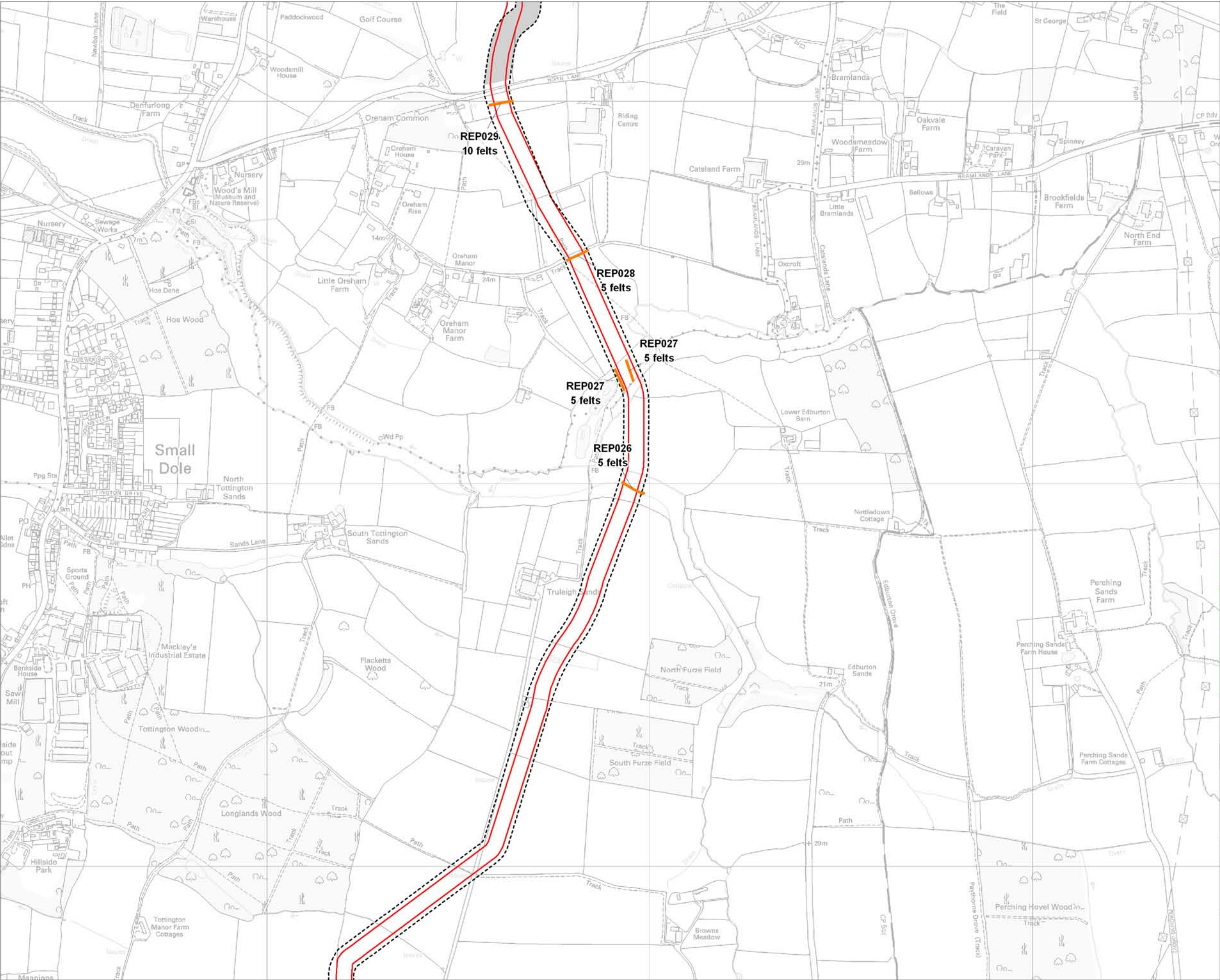
00	21.11.12	P2	RG	NH	VG
Rev	Date	Description	Dn	Chk	App

Rampion Wind Farm



Title:
Figure 2 -
Reptile Survey
Map 4 of 8





Legend :

- Ecology survey corridor (65m)
- Development Boundary
- Substation Development Boundary
- No access
- Reptile survey location
- Reptile survey location - reptiles found
- REP002 Survey location reference



00	21.11.12	P2	RG	NH	VG
Rev	Date	Description	Drn	Chk	App

Rampion Wind Farm

RSK e-on

Title :

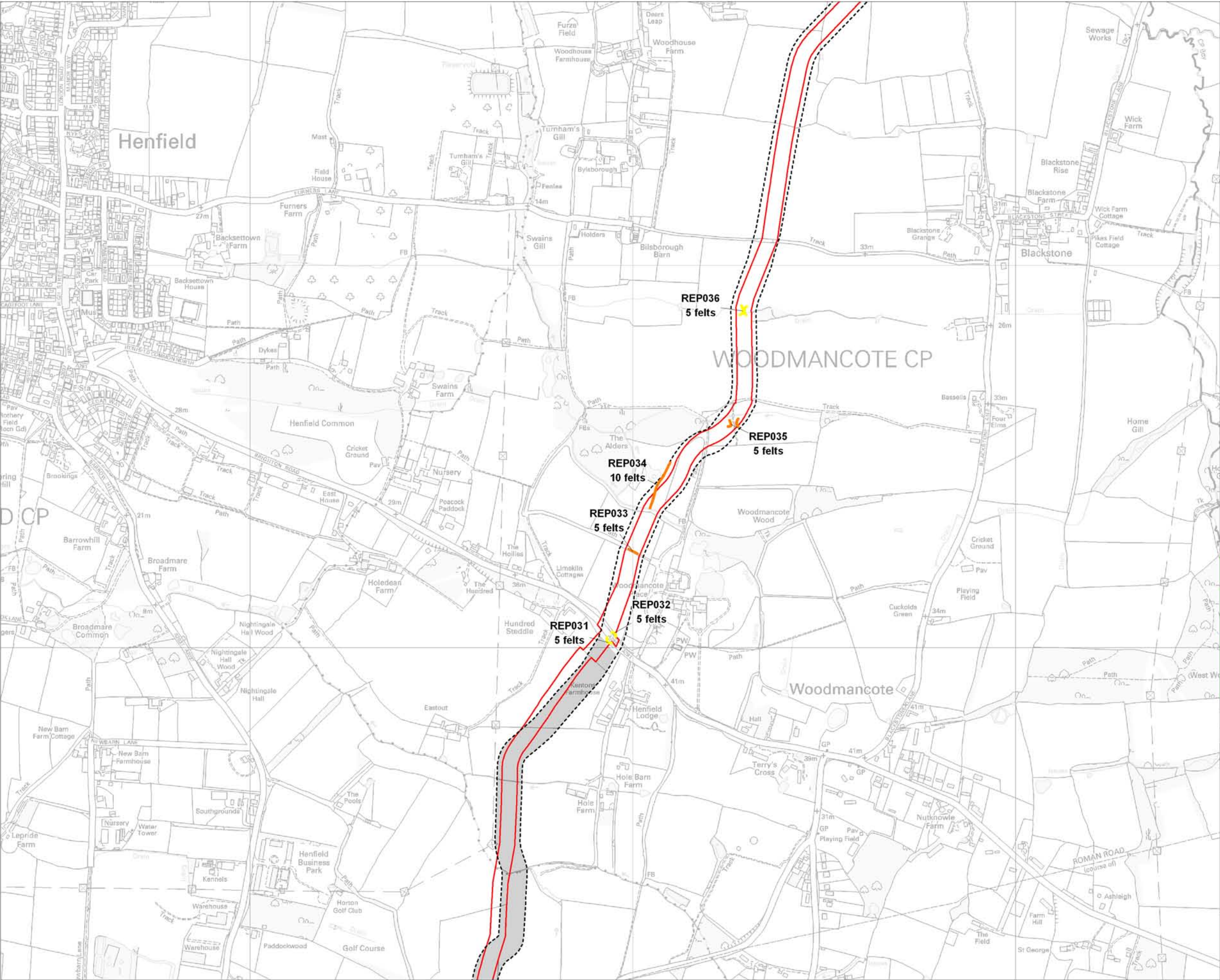
Figure 2 -
Reptile Survey
Map 5 of 8

0 125 250
metres

Scale = 1:10,000 @ A3

N
W E
S

REV 16



Legend :

- Ecology survey corridor (65m)
- Development Boundary
- Substation Development Boundary
- No access
- Reptile survey location
- Reptile survey location - reptiles found
- REP002 Survey location reference



00	21.11.12	P2	RG	NH	VG
Rev	Date	Description	Drn	Chk	App

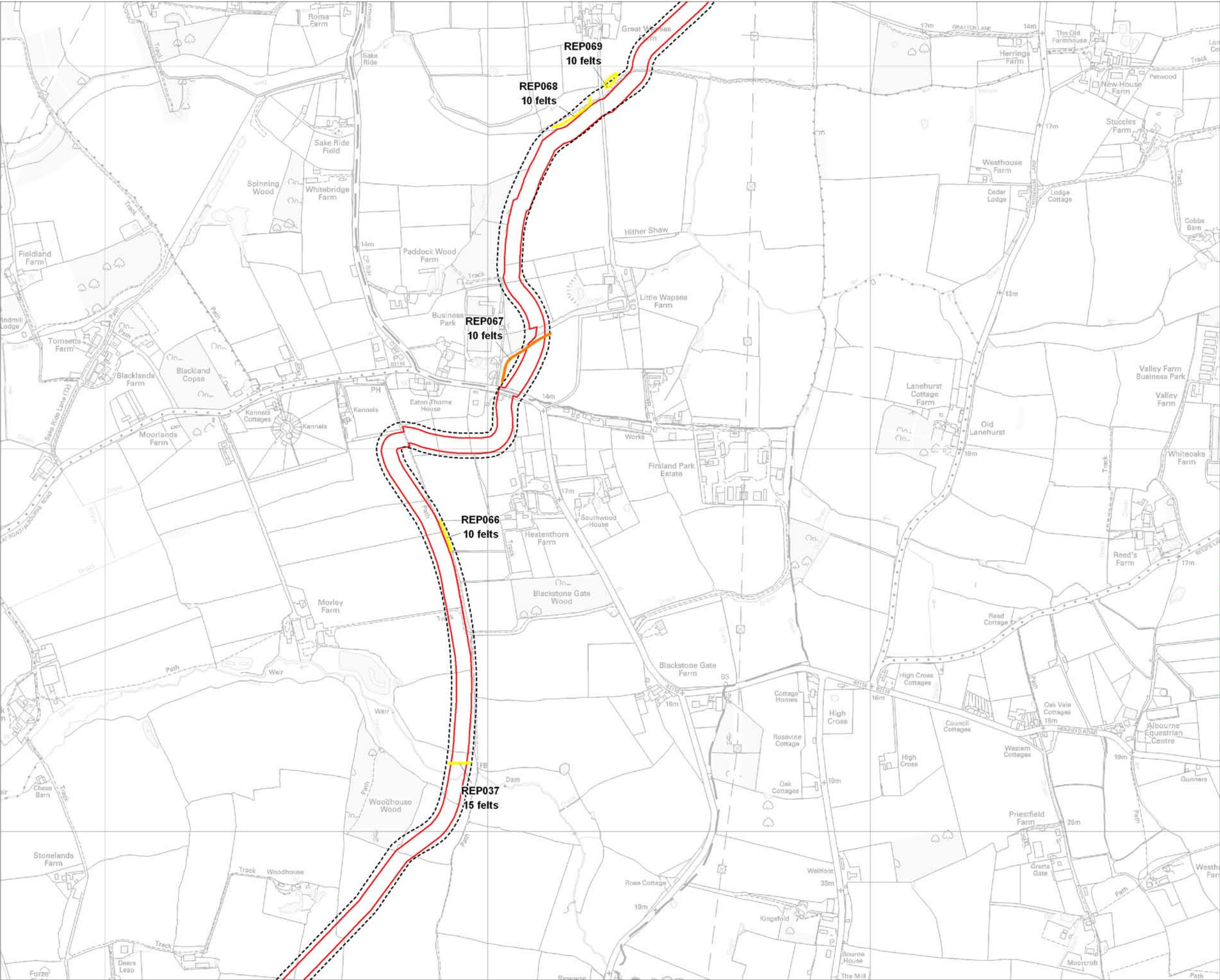
Rampion Wind Farm



Title :
Figure 2 -
Reptile Survey
Map 6 of 8

Scale = 1:10,000 @ A3

REV 16



- Legend :**
- Ecology survey corridor (65m)
 - Development Boundary
 - Substation Development Boundary
 - No access
 - Reptile survey location
 - Reptile survey location - reptiles found
 - REP002 Survey location reference

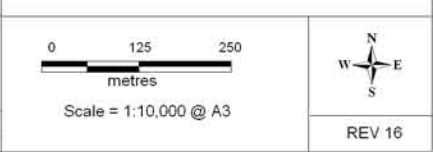


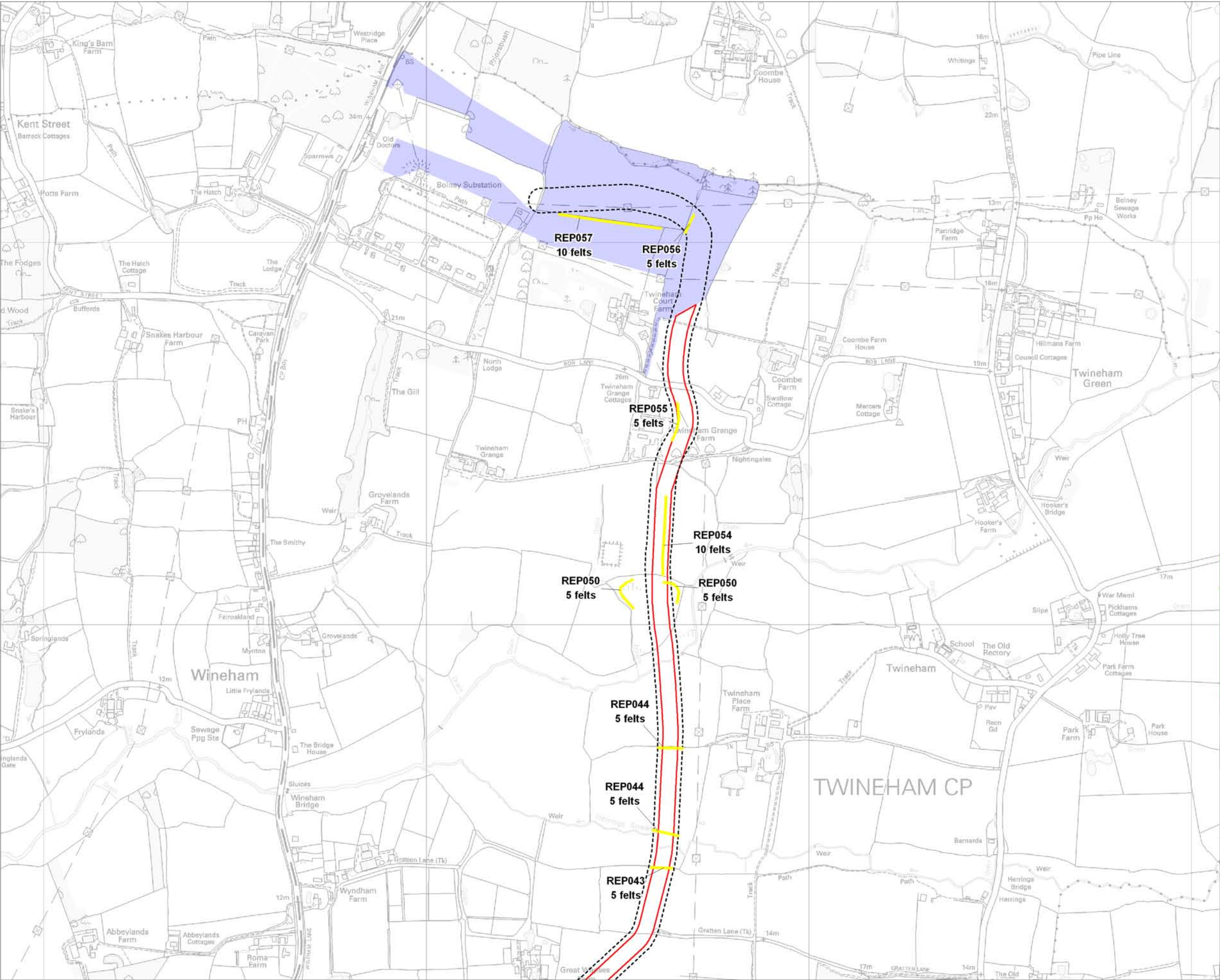
00	21.11.12	P2	RG	NH	VG
Rev	Date	Description	Drn	Chk	App

Rampion Wind Farm



Title :
Figure 2 -
Reptile Survey
Map 7 of 8





- Legend:
- Ecology survey corridor (65m)
 - Development Boundary
 - Substation Development Boundary
 - No access
 - Reptile survey location
 - Reptile survey location - reptiles found
 - REP002 Survey location reference

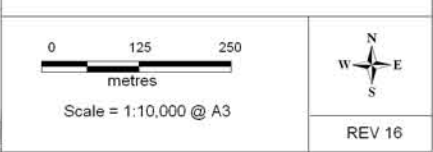


00	21.11.12	P2	RG	NH	VG
Rev	Date	Description	Drn	Chk	App

Rampion Wind Farm



Title:
Figure 2 -
Reptile Survey
Map 8 of 8



7**APPENDIX A – LEGISLATION****7.1*****Common Reptiles***

Lacerta vivipara (Common Lizard), *Natrix natrix* (Grass Snake), *Anguis fragilis* (Slow-worm), and *Vipera berus* (Adder) are listed under *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), in respect of *Section 9(5)* and part of *Section 9(1)*. This protection was extended by the CRow Act.

Under the above legislation it is an offence to:

- intentionally or deliberately kill or injure any individual of such a species; or
- sell or attempt to sell any part of the species alive or dead.

APPENDIX B – FULL SURVEY RESULTS**Reptile Survey Results**

Survey Location	Check 1 (23/05/11 – 27/05/11 & 22/06/11 – 24/06/11 & 15/08/11)	Check 2 (31/05/11 – 03/06/11 & 22/06/11 – 24/06/11 & 20/7/11 & 11/08/11 & 15/08/11)	Check 3 (23/08/11- 26/08/11)	Check 4 (12/09/11 – 16/09/11)	Check 5 (19/09/11 - 22/09/11)
REP 001	1st Check	2nd Check	3rd Check	Af J (1)	5th check
REP 002	Af Am (4), Af (6), J(6)	Af Am (4), Af (2), J(8)	3rd Check	Af AF (5), Nn (1)	Af AF(5), AM(4), J(8)
REP 003	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 004	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 005	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 006	1st Check	2nd Check	Af (f)	4th Check	5th check
REP 007	1st Check	2nd Check	3rd Check	REMOVED, habitat modified, no longer suitable	
REP 008	1st Check	2nd Check	3rd Check	REMOVED, habitat modified, no longer suitable	
REP 009	1st Check	Af Af (1)	2 Af (f)	4 th Check	5th Check
REP 011	Zv SA (1), Af Af (1)	Af Af (2)	2 Af (f)	2 Af	11 Af
REP 012	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 013	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 014	1st Check	2nd Check	3rd Check	4th Check	1 Zv
REP 015	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 016	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 017	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 018	ZvAf (1)	Af Af (1),	5 Af, 2 Nn	4th Check	5th check
REP 019	1st Check	Nn J (1)	Zv (1)	4th Check	5th check
REP 020	Af Am (1), Af (1)	Zv Am (1) Af Am (1)	7 Af	2 Lv, 6 Af	Af AF (2)
REP 021	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 022	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 025	1st Check	Nn J (1)	3rd Check	4th Check	5th Check
REP 026	1st Check	2nd Check	Nn J (1)	4th Check	5th check
REP 027	1st Check	Af Af (1), Zv Af (1), Nn J (1)	1 Af, 1Nn (J)	1 Lv	5th check
REP 028	Nn A (1)	2nd Check	1 Af, 1Nn (J)	1 Af	5th check
REP 029	Af Af (1)	2nd Check	3rd Check	4 Lv	5th check
REP 031	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 032	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 033	Zv Af (1)	2nd Check	3rd Check	4th Check	5th check

Survey Location	Check 1 (23/05/11 – 27/05/11 & 22/06/11 – 24/06/11 & 15/08/11)	Check 2 (31/05/11 – 03/06/11 & 22/06/11 – 24/06/11 & 20/7/11 & 11/08/11 & 15/08/11)	Check 3 (23/08/11- 26/08/11)	Check 4 (12/09/11 – 16/09/11)	Check 5 (19/09/11 - 22/09/11)
REP 034	Af Af (1)	Zv Am (3), Af (1). Af Af (2), J (1)	5 Af, 5Nn (J)	7 Lv, 2 Af	1 Lv
REP 035	1st Check	Af Af (2)	1 Af	4th Check	5th check
REP 036	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 037	1st Check	2nd Check	3rd check	4th Check	5th check
REP 042	1st Check	2nd Check	REMOVED, habitat modified, no longer suitable		
REP 043	1st Check	2nd Check	3RD Check	4th Check	5th check
REP 044	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 050	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 054	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 055	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 056	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 057	1st Check	2nd Check	3rd Check	4th Check	5th check
REP 058	1st Check	2nd Check	REMOVED, habitat modified, no longer suitable		
REP059	1 Af	2 Af	Af (4), Zv (1)	Af J (1)	5 Af, 9 Zv
REP060	1st check	2nd Check	3rd Check	4th Check	5th check
REP061	1st check	2nd Check	3rd Check	4th Check	5th check
REP063	1st check	2nd Check	3rd Check	4th Check	5th check
REP064	2 Af	2nd Check	3rd Check	1 Af	5th check
REP066	1st check	2nd Check	3rd Check	4th Check	5th check
REP067	1st check	2nd Check	Nn (1A, 1J)	1 Nn	5th check
REP068	1st check	2nd Check	3rd Check	4th Check	5th check
REP069	1st check	2nd Check	3rd Check	4th Check	5th check

Af – Slow Worm (*Anguis fragilis*)

Zv – Common lizard (*Zootoca vivipara*),

Nn – Grass snake (*Natrix natrix*)

Juvenile – J, Sub adult – SA, Adult – A

Survey dates and weather conditions for each survey location

Site No	Survey Visit	Date	Time	Temp. (Air)	Wind (Beaufort)	Cloud (Octas)	Rain (0 – 5)	Suitable Conditions Yes, No or Fair
REP 001	1	26/05/11	08.15	14-16	6	7	1	Yes
	2	01/06/11	09.15	15.0	3	1	0	Yes
	3	23/08/11	12.30	18	0	8	2	Yes
	4	15/09/11	09.30	17.1	3	2	0	Yes
	5	19/09/11	10.40	12	0	0	0	Yes
REP 002	1	26/05/2011	08.15	14-16	6	7	1	Yes
	2	01/06/2011	09.15	15	3	1	0	Yes
	3	23/08/2011	12.30	18	0	8	2	Yes
	4	15/09/11	09.30	17.1	3	2	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 003	1	26/05/11	08.15	14-16	6	7	1	Yes
	2	01/06/11	09.15	15	3	1	0	Yes
	3	23/08/2011	11.00	15	0	8	0	Fair
	4	14/09/11	13.30	21.4	3	3	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 004	1	26/05/11	08.15	14-16	6	7	1	Yes
	2	01/06/11	09.15	15	3	1	0	Yes
	3	23/08/2011	11.20	15	0	8	0	Fair
	4	14/09/11	13.30	21.4	3	3	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 005	1	26/05/11	08.15	14-16	6	7	1	Yes
	2	01/06/11	09.15	15	3	1	0	Yes
	3	23/08/2011	11.20	15	0	8	0	Fair
	4	14/09/11	13.30	21.4	3	3	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 006	1	26/05/11	08.15	14-16	6	7	1	Yes
	2	01/06/11	09.15	15	3	1	0	Yes
	3	23/08/2011	11.30	15	0	8	0	Fair
	4	14/09/11	13.30	21.4	3	3	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 007	1	25/05/11	16.00	12	2	3	0	Yes
	2	24/06/11	08.00	13-16	0	0	0	Yes
	3	23/08/2011	11.50	15	0	8	0	Fair
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
REP 008	1	25/05/11	16.00	12	2	3	0	Yes
	2	24/06/11	08.00	13-16	0	0	0	Yes
	3	23/08/2011	11.50	15	0	8	0	Fair
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
REP 009	1	25/05/11	16.00	12	2	3	0	Yes
	2	24/06/11	08.00	13-16	0	0	0	Yes
	3	23/08/2011	13.50	19	0	8	0	Fair
	4	15/09/11	09.30	17.1	3	2	0	Yes
	5	19/09/11	15.30	19.5	0	0	0	Yes

Site No	Survey Visit	Date	Time	Temp. (Air)	Wind (Beaufort)	Cloud (Octas)	Rain (0 – 5)	Suitable Conditions Yes, No or Fair
REP 011	1	24/05/2011	10.26	19.8	5	4	0	Yes
	2	11/07/2011	17.40	18	5	4	0	Yes
	3	23/08/2011	14.30	16	0	8	0	Yes
	4	15/09/11	11.00	18.3	3	2	0	Yes
	5	20/09/11	11.00	19.5	10	8	1	Yes
REP 012	1	24/05/11	09.00	17	4	3	0	Yes
	2	24/06/11	08.45	13.5	2	3	0	Yes
	3	23/08/2011	16.30	17	0	8	0	Yes
	4	15/09/11	11.00	18.3	3	2	0	Yes
	5	28/09/11	09.00	18.9	1	1	0	Yes
REP 013	1	24/05/11	09.00	17	4	3	0	Yes
	2	24/06/11	08.45	13.5	2	3	0	Yes
	3	23.08/11	16.30	17	0	8	0	Yes
	4	15/09/11	11.00	18.3	3	2	0	Yes
	5	27/09/11	14.00	21.6	1	2	0	Yes
REP 014	1	24/05/11	09.00	17	4	3	0	Yes
	2	24/06/11	09.00	13.5	2	3	0	Yes
	3	23/08/2011	16.00	17	0	8	0	Yes
	4	14/09/11	13.30	21.4	3	2	0	Yes
	5	20/09/11	11.00	19.5	10	8	1	Yes
REP 015	1	24/05/11	09.00	17	4	3	0	Yes
	2	24/06/11	09.15	13.5	2	3	0	Yes
	3	05/09/11	14.00	18.3	5	6	0	Yes
	4	14/09/11	13.30	21.4	3	2	0	Yes
	5	28/09/11	12.00	23.0	1	1	0	Yes
REP 016	1	24/05/11	09.00	17	4	3	0	Yes
	2	24/06/11	09.45	13.5	2	3	0	Yes
	3	05/09/11	14.15	19.4	5	6	0	Yes
	4	14/09/11	13.30	21.4	3	2	0	Yes
	5	28/09/11	13.00	22.8	1	1	0	Yes
REP 017	1	24/05/2011	11.30	17.0	3	4	0	Yes
	2	31/05/11	16.55	17.3	3	4	0	Yes
	3	24/08/2011	11.00	21	0	0	0	Yes
	4	15/09/11	13.00	20.1	3	2	0	Yes
	5	28/09/11	18.00	23	1	0	0	Yes
REP 018	1	24/05/2011	11.30	17.0	3	4	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/2011	11.20	21	0	0	0	Yes
	4	15/09/11	13.00	20.1	3	2	0	Yes
	5	28/09/11	18.00	23	1	0	0	Yes
REP 019	1	24/05/2011	11.30	17.0	3	4	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	05/09/11	13.30	18.5	5	6	0	Yes
	4	15/09/11	13.00	20.1	3	2	0	Yes
	5	28/09/11	18.00	23	1	0	0	Yes

Site No	Survey Visit	Date	Time	Temp. (Air)	Wind (Beaufort)	Cloud (Octas)	Rain (0 – 5)	Suitable Conditions Yes, No or Fair
REP 020	1	24/05/2011	11:30	17.0	3	4	0	Yes
	2	31/05/2011	16.55	17.3	3	4	0	Yes
	3	24/08/2011	11.40	21	0	0	0	Yes
	4	15/09/11	13.00	20.1	3	2	0	Yes
	5	28/09/11	17.00	22	1	1	0	Yes
REP 021	1	24/05/2011	11.30	17.0	3	4	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/2011	13.00	22	0	8	0	Yes
	4	14/09/11	13.30	21.4	3	2	0	Yes
	5	28/09/11	17.00	22	1	1	0	Yes
REP 022	1	24/05/2011	11.30	17.0	3	4	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	13.00	22	0	8	0	Yes
	4	14/09/11	13.30	21.4	3	3	0	Yes
	5	28/09/11	17.00	22	1	1	0	Yes
REP 025	1	24/05/11	11.30	21	4	4	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	16.30	18	3	4	0	Yes
	4	15/09/11	15.00	19.6	3	2	0	Yes
	5	22/9/11	10.00	15.5	2	6	0	Yes
REP 026	1	24/05/11	09.00	17	4	3	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	05/09/11	13.30	20	5	6	0	Yes
	4	14/09/11	11.00	19.1	3	3	0	Yes
	5	28/09/11	18.30	20	1	0	0	Yes
REP 027	1	03/06/11	09.00	17	2	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	17.30	18	3	4	0	Yes
	4	14/09/11	11.00	19.1	3	3	0	Yes
	5	28/09/11	18.30	20	1	0	0	Yes
REP 028	1	25/05/2011	09.30	18	2	0	0	Yes
	2	03/06/11	09.00	17	2	0	0	Yes
	3	24/08/11	16.00	21	3	4	0	Yes
	4	14/09/11	11.00	19.1	3	3	0	Yes
	5	27/09/11	14.00	21.6	1	2	0	Yes
REP 029	1	25/05/2011	9.30	18	2	0	0	Yes
	2	03/06/11	09.00	17	2	0	0	Yes
	3	05/09/11	16.00	20	5	6	0	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	27/08/11	14.00	21.6	1	2	0	Yes
REP 031	1	25/05/11	09.00	16-19	4	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	10.35	17	0	2	0	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	28/09/11	11.00	20	2	1	0	Yes

Site No	Survey Visit	Date	Time	Temp. (Air)	Wind (Beaufort)	Cloud (Octas)	Rain (0 – 5)	Suitable Conditions Yes, No or Fair
REP 032	1	25/05/11	09.00	16-19	4	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	10.35	17	0	2	0	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	28/09/11	09.00	18.9	1	1	0	Yes
REP 033	1	25/05/11	09.00	16-19	4	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	10.00	16	0	8	1	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	28/09/11	09.00	18.9	1	1	0	Yes
REP 034	1	25/05/11	09.00	16-19	4	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	09.40	16	0	8	1	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	28/09/11	09.00	18.9	1	1	0	Yes
REP 035	1	25/05/11	09.00	16-19	4	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	09.30	16	0	8	1	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	28/09/11	09.00	18.9	1	1	0	Yes
REP 036	1	27/05/11	10.30	15.4	1	7	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	07/09/11	9.30	16.5	3	7	2	Yes
	4	14/09/11	09.00	17	3	2	0	Yes
	5	29/09/11	09.00	17.1	1	0	0	Yes
REP 037	1	25/05/11	09.00	16-19	4	0	0	Yes
	2	22/06/11	10.30	12-16	3	8	1-2	Fair
	3	24/08/11	06.00	16	4	6	0	Yes
	4	13/09/11	13.00	20.3	4	2	0	Yes
	5	29/09/11	09.00	17.1	1	0	0	Yes
REP 042	1	25/05/11	09.30	16.8	1	0	0	Yes
	2	01/06/11	17.30	16	3	4	0	Yes
	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
REP 043	1	25/05/11	09.30	16.8	1	0	0	Yes
	2	01/06/11	17.30	16	3	4	0	Yes
	3	07/09/11	12.00	17.8	3	7	0	Yes
	4	13/09/11	10.30	18	4	3	0	Yes
	5	29/09/11	11.00	22.3	1	0	0	Yes
REP 044	1	25/05/11	09.30	16.8	1	0	0	Yes
	2	01/06/11	17.30	16	3	4	0	Yes
	3	25/08/11	14.00	18	2	6	0	Yes
	4	13/09/11	10.30	18	4	3	0	Yes
	5	29/09/11	11.00	22.3	1	0	0	Yes

Site No	Survey Visit	Date	Time	Temp. (Air)	Wind (Beaufort)	Cloud (Octas)	Rain (0 – 5)	Suitable Conditions Yes, No or Fair
REP 050	1	26/05/11	08.00	15.7	3	8	1	Yes
	2	02/06/11	16.55	17.5	3	0	0	Yes
	3	25/08/11	13.00	19	2	8	0	Yes
	4	13/09/11	09.00	16	4	3	0	Yes
	5	29/09/11	14.00	25.5	1	0	0	Yes
REP 054	1	26/05/11	08.00	15.7	3	8	1	Yes
	2	23/06/11	09.30	15	1	2	0	Yes
	3	25/08/11	13.00	19	2	4	0	Yes
	4	12/09/11	14.00	25	6	4	0	Yes
	5	29/08/11	13.00	24.2	1	0	0	Yes
REP 055	1	26/05/11	08.00	15.7	3	8	1	Yes
	2	02/06/11	09.05	15	3	0	0	Yes
	3	07/09/11	12.45	18.9	3	7	0	Yes
	4	12/09/11	13.30	25	6	4	0	Yes
	5	29/09/11	14.00	25.5	1	0	0	Yes
REP 056	1	26/05/11	08.00	15.7	3	8	1	Yes
	2	02/06/11	09.05	15	3	0	0	Yes
	3	07/09/11	13.30	18.8	3	7	0	Yes
	4	12/09/11	12.15	25	6	4	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 057	1	26/05/11	08.00	15.7	3	8	1	Yes
	2	02/06/11	09.05	15	3	0	0	Yes
	3	25/08/11	13.00	19	2	4	0	Yes
	4	12/09/11	12.30	25	6	4	0	Yes
	5	26/09/11	14.00	19.3	2	4	0	Yes
REP 058	1	26/05/11	08.00	15.7	3	8	1	Yes
	2	02/06/11	09.05	15	3	0	0	Yes
	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
REP 059	1	15/08/11	10.50	18	0	1	0	Yes
	2	07/09/11	16.30	16.6	3	7	0	Yes
	3	15/09/11	09.30	17.1	3	2	0	Yes
	4	20/09/11	11.00	19.5	10	8	1	Yes
	5	27/09/11	09.15	16.2	1	8	1	Yes
REP 060	1	15/08/11	10.50	18	0	1	0	Yes
	2	08/09/11	09.55	16.6	3	7	0	Yes
	3	15/09/11	09.30	17.1	3	2	0	Yes
	4	20/09/11	11.00	19.5	10	8	1	Yes
	5	27/09/11	09.15	16.2	1	8	1	Yes
REP 061	1	11/08/11	09.00	16	10	7	0	Yes
	2	07/09/11	16.15	15.9	3	7	0	Yes
	3	15/09/11	15.00	19.6	3	2	0	Yes
	4	20/09/11	14.00	20	9	8	1	Yes
	5	27/09/11	14.00	21.6	1	2	0	Yes

Site No	Survey Visit	Date	Time	Temp. (Air)	Wind (Beaufort)	Cloud (Octas)	Rain (0 – 5)	Suitable Conditions Yes, No or Fair
REP 063	1	11/08/11	09.00	16	10	7	0	Yes
	2	07/09/11	16.00	16.2	3	7	0	Yes
	3	15/09/11	15.00	19.6	3	2	0	Yes
	4	20/09/11	14.00	20	9	8	1	Yes
	5	27/09/11	14.00	21.6	1	2	0	Yes
REP 064	1	11/08/11	09.00	16	10	7	0	Yes
	2	07/09/11	16.10	16.2	3	7	0	Yes
	3	15/09/11	15.00	19.6	3	2	0	Yes
	4	20/09/11	14.00	20	9	8	1	Yes
	5	27/09/11	14.00	21.6	1	2	0	Yes
REP 066	1	15/08/11	08.30	13	0	0	0	Fair
	2	07/09/11	15.15	17.3	3	7	0	Yes
	3	13/09/11	20.3	20.3	4	2	0	Yes
	4	20/09/11	15.00	19	9	8	1	Yes
	5	29/09/11	09.00	17.1	1	0	0	Yes
REP 067	1	08/08/11	12.00	17	3	6	0	Yes
	2	11/08/11	09.00	16	10	7	0	Yes
	3	07/09/11	15.30	17.2	3	7	0	Yes
	4	13/09/11	13.00	20.3	4	2	0	Yes
	5	29/08/11	10.14	19.4	1	0	0	Yes
REP 068	1	08/08/11	12.00	17	3	6	0	Yes
	2	11/08/11	09.00	16	10	7	0	Yes
	3	07/09/11	11.00	18	3	7	8	Yes
	4	13/09/11	13.00	20.3	4	2	0	Yes
	5	27/09/11	10.14	19.4	1	0	0	Yes
REP 069	1	08/08/11	12.00	17	3	6	0	Yes
	2	11/08/11	09.00	16	10	7	0	Yes
	3	07/09/11	11.15	17.8	3	7	0	Yes
	4	13/09/11	13.00	20.3	4	2	0	Yes
	5	29/09/11	10.14	19.4	1	0	0	Yes