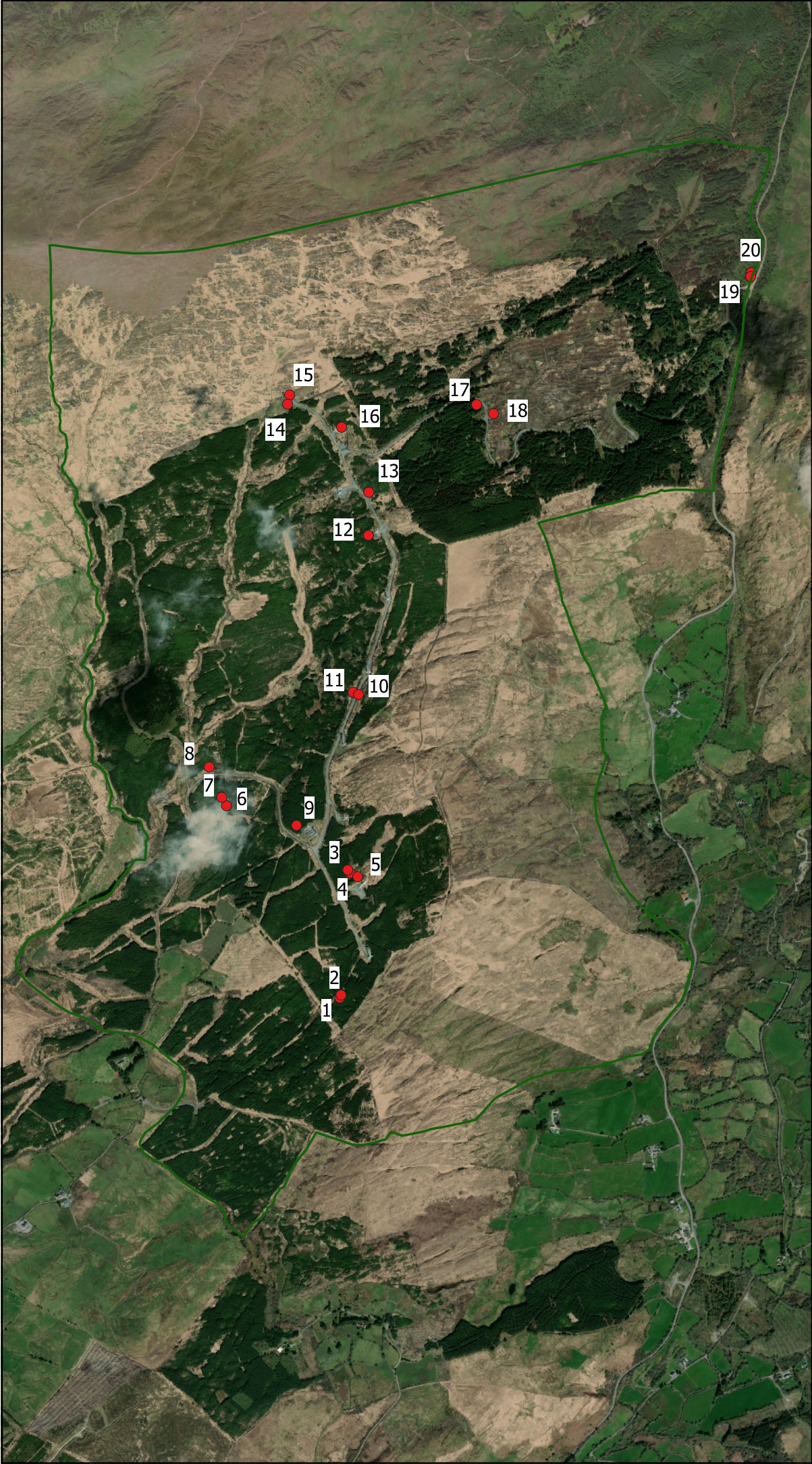


completed during daylight hours on cloudy, damp days, though these surveys are considered to have a lower efficiency. Incidental records of Kerry Slug were noted during general habitat surveys carried out in 2019 and 2020 as part of the overall wind farm assessment. Targeted surveys were completed on the 25th of March 2020. Weather conditions were overcast and damp during daylight hours in the early part of the day with dry periods in the afternoon. Based on the above, it is considered that the Kerry Slug surveys were not subject to constraints or limitations.



Map Legend

- EIA Site Boundary
- Kerry Slug Trap Locations

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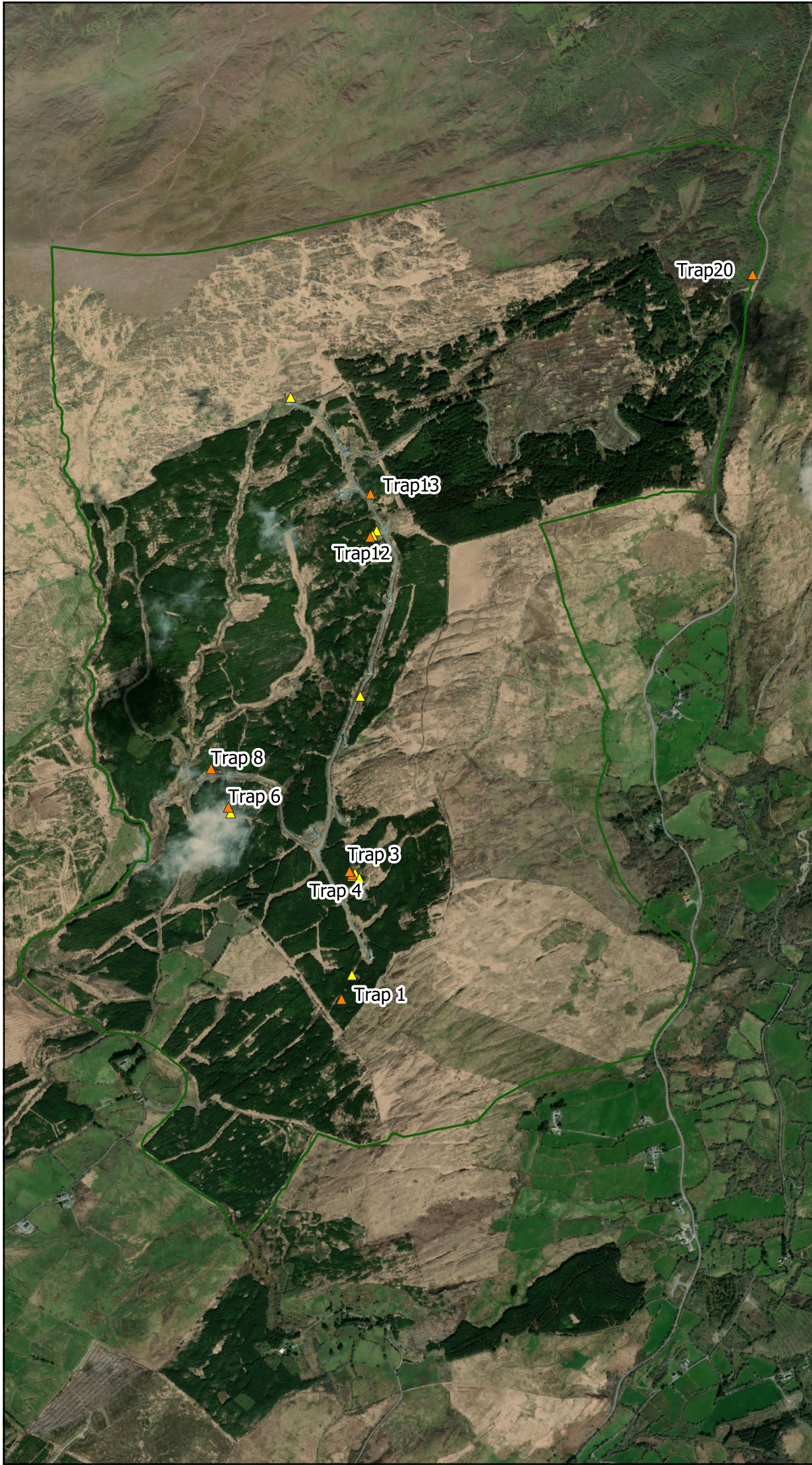


MKO
Planning and
Environmental
Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@mkofireland.ie
Website: www.mkofireland.ie

Drawing Title
Kerry Slug - Trap Locations

Project Title
**Proposed Renewable Energy
Development, Curraglass**

Drawn By LK	Checked By PR
Project No. 190301	Drawing No. Figure 2-1
Scale 1:17500	Date 30-06-2021



- Map Legend
- EIAR Site Boundary
 - Incidental Kerry Slug Records 25.03.2020
 - Kerry Slug Metric Trap Records 26.05.2020



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Drawing Title	
Kerry Slug - Incidental and Metric Trap Records	
Project Title	
Proposed Renewable Energy Development, Curraglass	
Drawn By	Checked By
LK	PR
Project No.	Drawing No.
190301	Figure 2-2
Scale	Date
1:17500	30-06-2021

3.

RESULTS

Hand searches were conducted during suitable weather conditions (i.e. damp weather) on the 25th March 2020. The hand searches confirmed the presence of Kerry Slug within the study area and a total of 19 observations were recorded in a range of habitats through the study area (see Table 3-1 below).

Seventeen records of Kerry Slug were obtained on collection of the metric traps on 26th May 2020 the results of which are shown in Table 3-2. The overall locations of Kerry Slug recorded in the site are shown in Figure 2-2. Photographic records of Kerry Slug recorded in the metric traps on the 26th May 2020 are provided in **Appendix 2**.

Table 3-1 Incidental records of Kerry Slug recorded within the study area 25.03.2020

Habitat	No. Kerry Slug Recorded	Grid reference/Location
Rocky outcrop, boulder	3	E108796; N063602
Felled conifer plantation	N/A	N/A
Boulders at existing turbine base	3	E109091; N063144
Rocky outcrop/boulder	1	E109035; N062576
Conifer tree near proposed hardstanding area at T5	1	E108589; N062175
Individual boulders near T6	3 3 3	E109007; N061959, E109017; N061968 E109031; N061952
Boulder (proposed road to T7)	1	E109006; N061619
Conifer tree	1	E108970; N061536
Incidental Records TOTAL	19	

Table 3-2 Kerry Slug recorded in metric traps 26.05.2020

Habitat	No. Kerry Slug Recorded	Grid reference/Location	Metric Trap No.
Tree in Conifer Plantation (WD4)	3	E108976 N061533	1
Tree in Conifer Plantation (WD4)	1	E108988 N061873	3
Individual boulder	2	E109007 N 061964	4
Tree in Conifer Plantation (WD4)	1	E108583 N062193	6
Tree in Conifer Plantation (WD4)	5	E108526 N062327	8
Recolonising Bare Ground (ED3) adjacent to Conifer Plantation (WD4)	1	E109071 N063121	12
Rocky outcrop, boulder adjacent to Conifer Plantation (WD4)	2	E109072 N063267	13
Oak-Birch-Holly Woodland	1	E110385 N064022	20
Metric Trap Records TOTAL	16		

4.

CONCLUSION

The survey was carried out in accordance with current best practice and guidance in relation to Kerry Slug. Kerry Slug occurred in various locations throughout this site on habitats including rocky outcrop, conifer plantation and Oak-Birch-Holly woodland. The survey was carried out in accordance with the licence provided in Appendix 1.

BIBLIOGRAPHY

Bailey, M. and Rochford J. (2006) Otter Survey of Ireland 2004/2005. Irish Wildlife Manuals, No. 23. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin, Ireland.

Balmer, D.E., Gillings, S., Caffrey, B.J., Swann, R.L., Downie, I.S. and Fuller, R.J. (2013). Bird Atlas 2007-11: the breeding and wintering birds of Britain and Ireland. BTO Books, Thetford, UK.

Barbour, M.T. and J.B. Stribling. (1991) Use of Habitat Assessment in Evaluating the Biological Integrity of Stream Communities. Biological Criteria: Research and Regulation: 25-38. EPA-440/5-91-005. Washington, DC: Office of Water, US EPA.

Birds Directive (2009/47/EC) – http://ec.europa.eu/environment/nature/legislation/birdsdirective/index_en.htm

CIEEM, 2018, Guidelines for Ecological Impact Assessment in the UK and Ireland. Terrestrial, Freshwater, Coastal and Marine.

Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Habitats Directive) and Directive 2009/147/EC (codified version of Directive 79/409/EEC as amended) (Birds Directive) – transposed into Irish law as European Communities (Birds and Natural Habitats) Regulations 2011 (SI 477/2011).

DEHLG (2009) Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities. DEHLG, Dublin.

DoEHLG (2010). Appropriate Assessment of Plans and Projects in Ireland. Guidance for Planning Authorities. Revision, February, 2010. Department of the Environment, Heritage and Local Government.

EC (2000) Managing Natura 2000 Sites: the provisions of Article 6 of the 'Habitats' Directive 92/43/EEC, Office for Official Publications of the European Communities, Luxembourg. European Commission.

EC (2001) Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Articles 6(3) and (4) of the Habitats Directive 92/43/EEC.

EC (2002) Assessment of Plans and Projects Significantly Affecting Natura 2000 Sites: Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC, Office for Official Publications of the European Communities, Luxembourg. European Commission.

EC (2006) Nature and biodiversity cases: Ruling of the European Court of Justice. Office for Official Publications of the European Communities, Luxembourg.

EC (2007a) Guidance document on Article 6(4) of the 'Habitats Directive' 92/43/EEC – Clarification of the concepts of: alternative solutions, imperative reasons of overriding public interest, compensatory measures, overall coherence, opinion of the commission. Office for Official Publications of the European Communities, Luxembourg. European Commission.

EC (2007b) Interpretation Manual of European Union Habitats. Version EUR 27. European Commission, DG Environment.

European Communities (Conservation of Wild Birds) Regulations, 1985, SI 291/1985 & amendments – <http://www.irishstatutebook.ie>

European Communities (Natural Habitats) Regulations, SI 94/1997, SI 233/1998 & SI 378/2005 – <http://www.irishstatutebook.ie>

Fossitt, J. A. (2000). A Guide to Habitats in Ireland. Dublin: The Heritage Council.

Habitats Directive (92/43/EEC).

Murphy, D.F. (2004) Requirements for the Protection of Fisheries Habitat During Construction and Development Works at River Sites. Eastern Regional Fisheries Board, Dublin.

Natural England (March 2007). Draft Guidance: The Assessment of Regional Spatial Strategies and Sub-Regional Strategies Under the Provisions of the Habitats Regulations.

NPWS (2008) The Status of EU Protected Habitats and Species in Ireland. Conservation Status in Ireland of Habitats and Species listed in the European Council Directive on the Conservation of Habitats, Flora and Fauna 92/43/EEC.

NPWS of the DEHLG (2008) The Report on Status of Habitats and Species in Ireland: Technical Reports and Forms.

NPWS Protected Site Synopses and maps available on <http://www.npws.ie/en/ProtectedSites/>

NRA (2004) Environmental Impact Assessment of National Road Schemes – A Practical Guide, National Roads Authority, Dublin.

NRA (2004) Guidelines for the Treatment of Noise and Vibration in National Road Schemes (1 ed.). Dublin: National Roads Authority.

NRA (2005) Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes. Dublin: National Roads Authority.

NRA (2006) Guidelines for the Treatment of Otters prior to the Construction of National Road Schemes. Dublin: National Roads Authority.

NRA (2009). Ecological Surveying Techniques for Protected Flora and Fauna during the Planning of National Road Schemes. Dublin: National Roads Authority.

NRA (2008). The Management of Noxious Weeds and Non-native Invasive Plant Species on National Roads. Dublin: National Roads Authority.

Scottish Natural Heritage (SNH) (July 2013) Assessing Connectivity with Special Protection Areas (SPA)

Stace, C. A. (1997). New Flora of the British Isles. Cambridge: Cambridge University Press.

Therivel R. (2009) Workshop Material on the Habitats Directive Assessment of Plans Levett-Therivel Sustainability Consultants on behalf of the Heritage Council, Kilkenny.

Therivel, R. (2009) 'Appropriate assessment of plans in England', Environmental Impact Assessment Review 29(4), pp. 261-272.



APPENDIX 1

NPWS LICENCE C71/2020



An Roinn Cultúir,
Oidhreacht agus Gaeltachta
Department of Culture,
Heritage and the Gaeltacht

Licence No. C71/2020

NATIONAL PARKS & WILDLIFE SERVICE

Wildlife Acts 1976 to 2018 – Sections 23 and 34

**LICENCE TO CAPTURE PROTECTED WILD ANIMALS FOR EDUCATIONAL, SCIENTIFIC
OR OTHER PURPOSES**

The Minister for Culture, Heritage and the Gaeltacht in exercise of the powers conferred on her by Sections 9, 23 and 34 of the Wildlife Acts 1976 to 2018 authorises:

**Laoise Kelly
MKO, Tuam Road, Galway, H91 VW84**

To disturb specimens of the species specified in Column 1 of the Schedule hereunder in the area specified in Column 2 by the means specified in column 3 for scientific, educational or other purposes during the period beginning **12th March 2020** and ending on **31st December 2020**, subject to the conditions listed overleaf.

SCHEDULE

1	2	3
Species	Area	Means of capture
Kerry Slug (<i>Geomalacus maculosus</i>)	Curraglass Wind Farm, Co. Cork	Metric traps

Dated 12th March 2020

For the Minister for Culture, Heritage and the Gaeltacht



Conditions

1. This licence shall be produced for inspection on a request being made on that behalf by a member of An Garda Síochána or any person appointed by the Minister for Culture, Heritage and the Gaeltacht under Section 72 of the Wildlife Acts 1976 to 2018, to be an authorised person for the purposes of the Acts.
2. The local NPWS District Conservation Officer or Conservation Ranger must be contacted during business hours prior to the activity commencing under the terms of this licence.
3. This licence permits the capture of Kerry Slug using baited refuge traps of the type described in Irish Wildlife Manuals, No. 54 (Distribution and population dynamics of the Kerry Slug, *Geomalacus maculosus* (Arionidae)).
4. Traps must be removed after the survey is completed.
5. This licence does not permit the taking or killing of specimens. All slugs found under the traps must be released where they are found.
6. **A full report must be submitted no later than 3 months after the end of the licence giving full details (location, date, Irish grid reference, surveyor) of the survey methodology and, if any, all records of Kerry Slug. Future licence applications will be refused in the event of a report not being submitted.**
7. Photographs of a sample (minimum of one per trap locality) of the slugs encountered should be included as proof of identification.
8. On expiry of this licence a return stating the work carried out must be provided to
 - Dr Brian Nelson, Invertebrate Ecologist, Science Unit, National Parks and Wildlife Service, 90 North King Street, Dublin 7, D07 N7CV,
9. Any query in relation to this licence should be addressed to National Parks and Wildlife Service, 90 North King Street, Dublin 7, D07 N7CV. Telephone: (01) 888 3287.

Note: This licence does not confer right of entry onto any lands.





APPENDIX 2

PHOTOGRAPHIC RECORDS – KERRY SLUG



Plate 1-1 Metric Trap 1 (E108976 N061533) 3 no. Kerry Slug



Plate 1-2 Metric Trap 3 (E108988 N061873) 1 no. Kerry Slug



Plate 1-3 Metric Trap 4 (E109007 N 061964) 1/2 no. Kerry Slug



Plate 1-4 Metric Trap 4 (E109007 N 061964) 2/2 no. Kerry Slug



Plate 1-5 Metric Trap 6 (E108583 N062193) 1 no. Kerry Slug



Plate 1-6 Metric Trap 8 (E108526 N062327) 3/5 no. Kerry Slug



Plate 1-7 Metric Trap 8 (E108526 N062327) 2/5 no. Kerry Slug



Plate 1-8 Metric Trap 12 (E109071 N063121) 1 no. Kerry Slug



Plate 1-9 Metric Trap 13 (E109072 N063267) 1/2 no. Kerry Slug



Plate 1-10 Metric Trap 13 (E109072 N063267) 2/2 no. Kerry Slug



Plate 1-11 Metric Trap 20 (E110385 N064022) 1 no. Kerry Slug