moray offshore renewables ltd

Environmental Statement

Technical Appendix 2.1 A - Export Cable Feasibility Study (Metoc-Hyder, 2011)

Telford, Stevenson, MacColl Wind Farms and associated Transmission Infrastructure Environmental Statement

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MORAY OFFSHORE RENEWABLES LTD

MORAY FIRTH OFFSHORE WINDFARM

EXPORT CABLE ROUTE FEASIBILITY STUDY

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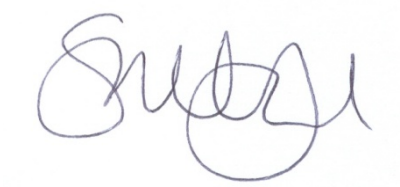	
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EXECUTIVE SUMMARY

Moray Offshore Renewables Limited (MORL) is currently looking at options to connect the Moray Firth Round 3 Windfarm Zone to the UK electricity grid, with a connection point at Peterhead. The OFTO infrastructure is anticipated to consist of offshore substations, an export cable and onshore substation.

MORL has commissioned Intertek-Metoc and Hyder to identify and evaluate possible offshore and onshore cable routes and substation sites.

The principal objectives of this study are to identify options and assess feasibility for the Moray Firth Windfarm Zone export transmission infrastructure, comprising:

- route corridors for the export cable (onshore and offshore)
- landfalls
- onshore substation locations

The study includes an assessment of the likely offshore and onshore environmental issues and engineering constraints for each route.

Specifically, the Scope of Work will comprise:

- The identification of possible onshore routes between suitable landfall areas and the grid connection point (including onshore substation locations, onshore export cable routes and landfall sites);
- The identification of possible offshore export cable routes;
- A review of the potential offshore and onshore environmental issues for each route identified
- A review of possible consenting issues for each route identified
- A review of the potential engineering constraints both onshore and offshore for each route identified

This feasibility study has been primarily a desk-based study only and has involved only limited consultation with third parties at this stage. Site visits have been undertaken to the possible landfall sites, but no other site visits or investigations have been undertaken.

During route development the primary aim was to establish the feasibility of routing cables from the offshore connection point at the Moray Firth windfarm zone to the grid connection

point at Peterhead. Potential transmission infrastructure options have been considered and recommendations made based on an assessment of the permitting constraints and technical feasibility.

Thirteen potential offshore transmission infrastructure route corridors were initially identified, connecting, via 11 potential landfall sites, with 2 potential substation site end points. The onshore routes comprise 3 primary onshore route corridors which diverge to connect with 8 of the potential landfall sites. The 2 km strategic corridors connect into all 11 landfall points, and the more detailed 500 m corridors connect into the 8 landfall points that were taken forward to the more detailed assessment, as discussed and agreed at the workshop on 19th November 2010.

The transmission infrastructure options were ranked in terms of environmental/permitting constraints and engineering constraints in order to compare feasibility of the various options. In terms of the offshore marine routes, indicative installation costs have also been estimated. It was not possible to determine even indicative cost for the onshore options at this stage, due to the number of variables required to come up with a realistic estimate and therefore the overall ranking excludes financial considerations to allow the onshore and offshore options to be compared on the same basis.

The engineering and environmental risk factors are, however, relevant to the economic considerations of each option, as increased technical complexity and potential consenting requirements and delays will have a direct influence on the overall cost of developing and installing the transmission infrastructure.

The report concludes that there is potential to engineer a cable route through the study area whilst avoiding any significant potential environmental impacts. Based on the scorings given to the various transmission infrastructure options, the preferred options overall, given in order of preference are:

1) Option K (marine corridor 9b; Inverallochy; Land corridor 2; substation option 1)

- This option combines the preferred land option, which obtained the lowest ERA score with a technically and environmentally straightforward marine route which avoids the main areas of concern for fishing, and the technically challenging southern trench area. Micro-siting of the land route, and directionally drilling to the landfall and under watercourses and roads, would minimise direct impacts to a number of features that lie within the corridor. However, temporary impacts to areas of landscape significance, areas at risk of flooding from rivers and draft core paths would need to be considered

during construction. The landfall is also fairly straightforward, although consultation with the Golf Club would be required to confirm landfall feasibility.

2) Option D (marine corridor 4a; Sandend; Land corridor 3; substation option 1)

- This option combines the joint (with 4b) preferred marine option, which obtained the lowest marine score with one of the lowest scoring of the longer land routes connecting with the north coast landfalls. The marine route is environmentally straightforward which minimises the route in the main areas of concern for fishing, and avoids the technically challenging southern trench area. Micro-siting of the land route, and directionally drilling to the landfall and under watercourses (including the River Deveron) and roads, would minimise direct impacts to a number of features that lie within the corridor. However, the length of the land route means that there are considerably more features to consider avoiding / minimising impact upon. Furthermore, temporary impacts to areas of landscape significance, areas at risk of flooding from rivers and draft core paths would need to be considered during construction. The landfall is also fairly straightforward, requiring only a short HDD.

3) Option E (marine corridor 4b; Sandend; Land corridor 3; substation option 1)

- This option combines the joint (with 4a) preferred marine option, which obtained the lowest marine score with one of the lowest scoring of the longer land routes connecting with the north coast landfalls. The marine route is environmentally straightforward which minimises the route in the main areas of concern for fishing, and avoids the technically challenging southern trench area. Micro-siting of the land route, and directionally drilling to the landfall and under watercourses (including the River Deveron) and roads, would minimise direct impacts to a number of features that lie within the corridor. However, the length of the land route means that there are considerably more features to consider avoiding / minimising impact upon. Furthermore, temporary impacts to areas of landscape significance, areas at risk of flooding from rivers and draft core paths would need to be considered during construction. The landfall is also fairly straightforward, requiring only a short HDD.

4) Option F (marine corridor 5; Inverboyndie; Land corridor 3; substation option 1)

- This option combines the second preferred marine option, with one of the lowest scoring of the longer land routes connecting with the north coast landfalls. The marine route is environmentally straightforward which minimises the route in the main areas of concern for fishing, and avoids the technically challenging southern trench area. Micro-siting of the land route, and directionally drilling to the landfall and under watercourses

(including the River Deveron) and roads, would minimise direct impacts to a number of features that lie within the corridor. However, the length of the land route means that there are considerably more features to consider avoiding / minimising impact upon. Furthermore, temporary impacts to areas of landscape significance, areas at risk of flooding from rivers and draft core paths would need to be considered during construction. The landfall is also fairly straightforward, requiring only a short HDD.

All options connect with the preferred substation site 1.

All these infrastructure options are considered to be feasible, based on the desk based study and landfall site visits undertaken. The overall scorings for each of these options is very similar, with option K (Inverallochy) preferred from an onshore perspective and D and E (Sandend) preferred from an offshore perspective.

The majority of the lower ranked options are also considered to be feasible but with increasing environmental and engineering risk attached to them, based on this high level desk study.

This study has been primarily desk based and has only included limited consultation and site visits to the landfall sites only. Further more detailed studies, site visits and consultation are recommended to improve confidence in route option feasibility have been identified. Subject to the further information obtained, the risk rating attached to the options considered here can be refined, and may result in a change of option preference.

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ACRONYMS

AC	Alternating Current
BGS	British Geological Survey
CEFAS	Centre for Environment, Fisheries and Aquaculture Science
CLV	Cable Laying Vessel
CLB	Cable Laying Barge
CPA	Coast Protection Act 1949
DECC	Department of Energy and Climate Change
EC	European Community
EIA	Environmental Impact Assessment
EMF	Electromagnetic Field
EPS	European Protected Species
ES	Environmental Statement
EU	European Union
FEPA	Food and Environment Protection Act 1985
HDD	Horizontal Directional Drilling
HVDC	High Voltage Direct Current
HRA	Habitats Regulations Appraisal
IBA	Important Bird Area
IPC	Infrastructure Planning Commission
JNCC	Joint Nature Conservation Committee
KISCA	Kingfisher Information Service Cable Awareness
Kg	Kilogram
km	Kilometre
km^2	Square kilometre
kV	Kilovolt: 1,000 volts (a volt is the unit used to measure electric potential)
LPA	Local Planning Authority
M	Metre
MCA	Maritime and Coastguard Agency
Mm	Millimetre
MoD	Ministry of Defence

MORL	Moray Offshore Renewables Ltd
MW	Megawatt: 1,000,000 watts (a watt is the unit used to measure electric power)
Nm	Nautical miles
NESBReC	North East Scotland Biological Records Centre
pAIH	Potential Annex I Habitat
PEXA	Practice and Exercise Area
REZ	Renewable energy zone
RCAHMS	Royal Commission on the Ancient and Historical Monuments of Scotland
RYA	Royal Yachting Association
SAC	Special Area of Conservation
SCADA	Supervisory and Data Acquisition
SEA	Strategic Environmental Assessment
SHETL	Scottish Hydro-Electric Transmission Ltd
TLP	Transition Joint Pit
UKBAP	UK Biodiversity Action Plan
UKHO	UK Hydrographic Office

1 BACKGROUND AND OBJECTIVES

1.1 BACKGROUND

Moray Offshore Renewables Limited (MORL) is currently looking at options to connect the Moray Firth Round 3 Windfarm Zone to the UK electricity grid, with a connection point at Peterhead. The OFTO infrastructure is anticipated to consist of offshore substations, an export cable and onshore substation.

MORL has commissioned Intertek-Metoc and Hyder to identify and evaluate possible offshore and onshore cable routes and substation sites.

1.2 STUDY OBJECTIVES

The principal objectives of this study are to identify options and assess feasibility for:

- route corridors for the export cable (onshore and offshore)
- landfalls
- onshore substation locations

The study includes an assessment of the likely offshore and onshore environmental and consenting issues, engineering constraints and economic constraints for each route.

Specifically, the Scope of Work will comprise:

- The identification of possible onshore routes between suitable landfall areas and the grid connection point (including onshore substation locations, onshore export cable routes and landfall sites);
- The identification of possible offshore export cable routes;
- A review of the potential offshore and onshore environmental issues for each route identified
- Review of possible consenting issues for each route identified
- Review of the potential engineering constraints both onshore and offshore for each route identified

1.3 APPROACH

1.3.1 Study Area

The study area is shown on Figure 1-1. The study area has been defined based on the approximate location of the offshore converter site location (as provided by MORL), and the connection point at Peterhead. It includes the marine area south and east of the Moray Firth windfarm zone, extending east around the coast to Peterhead. The marine study area did not extend as far south as Peterhead due to the presence of existing sub-sea infrastructure off the coast of Peterhead. It should be noted that the marine study area does extend over the pipelines, to allow the report to describe the issues associated with crossing these pipelines and to justify why this marine route is not favourable. However, the significant technical difficulties with crossing the

pipelines were identified at the outset, and therefore it was not considered necessary to look at marine routes any further south than this. On land, the southern boundary was defined by the onshore geographical end point of the existing substation at Peterhead Power Station, and the northern boundary by the coast.

1.3.2 Stage 1: Generic engineering considerations

In stage 1, the likely cable engineering and installation issues for an HVDC transmission system are described both in terms of the onshore and offshore aspects of the route. Whilst the project has not yet undertaken any detailed design for this stage of the project, some basic assumptions can be made about the scheme in order to allow the route feasibility and environmental and engineering constraints to be meaningfully assessed in the subsequent sections. These are discussed in section 2.

1.3.3 Stage 2: Data collection and description of the study area

Table 1.1 lists the data sets used to compile the GIS database. For the onshore study, data at the District / Local level were collated for the potential 2 km corridors only, once they had been defined.

Table 1-1: Environmental Constraints / Data Sources at the International / National / Regional / District / Local Level

Data	Data Source	Level
General Elements		
Location of settlements, transport corridors, existing transmission lines	Ordnance Survey base mapping	International / National / Regional
Natural Resources		
Marine geology	British Geological Survey	National / Regional
Sites of Special Scientific Interest (Geological)	Scottish Natural Heritage	International / National / Regional
Watercourses, topography	Ordnance Survey base mapping	International / National / Regional
Fish spawning locations and timing.	CEFAS	National / Regional
Study of Environmentally Sensitive Areas Sites (Geological)	North East Scotland Biological Records Centre (NESBReC)	District / Local
Nature Conservation		
Special Protection Areas, Special Areas of Conservation, Sites of Special Scientific Interest (Ecological), National Nature Reserves, Ramsar sites	Scottish Natural Heritage; JNCC	International / National / Regional

Data	Data Source	Level
Study of Environmentally Sensitive Areas Sites (Ecological), Scottish Wildlife Trust Reserves, Local Nature Conservation Sites	North East Scotland Biological Records Centre (NESBReC)	District / Local
Ancient Woodland, Semi-natural Woodland	Scottish Natural Heritage	District / Local
Local Nature Reserves (LNRs)	Scottish Natural Heritage	District / Local
Historic Environment		
Scheduled Monuments, Historic Gardens and Designed Landscapes, Listed Buildings, Conservation Areas	Historic Scotland	International / National / Regional
Properties in Care	Historic Scotland	District / Local
Landscape		
National Parks	Scottish Natural Heritage	International / National / Regional
Areas of Landscape Significance	Aberdeenshire County Council	International / National / Regional
Areas of Great Landscape Value	Moray County Council	International / National / Regional
Historic Gardens and Designed Landscapes	Historic Scotland	International / National / Regional
National Scenic Areas	Scottish Government	International / National / Regional
Country Parks	Scottish Natural Heritage	District / Local
Human Uses of the Marine Environment		
Marine disposal sites	CEFAS	National / Regional
Aggregate extraction areas	Crown Estate	National / Regional
Navigational setting: Scotland East Coast – Fraserburgh to Newburgh; Scotland East Coast – Buckie to Fraserburgh; Scotland East Coast – Moray Firth	UKHO Admiralty Charts	District / Local
Oil and gas infrastructure including pipelines	UK Deal	National / Regional
Power and telecom cable infrastructure	Kingfisher Information Service – Cable Awareness (KISCA)	National / Regional
Military practice areas	Seazone	National / Regional

Data	Data Source	Level
Other		
Long Distance Routes	Moray County Council	International / National / Regional
Tree Preservation Orders, Draft Core Paths	Aberdeenshire County Council and Moray County Council	District / Local
Areas at Risk of Flooding from Rivers, Areas at Risk of Flooding from the Sea, Areas at Risk of Flooding from both Rivers and the Sea	Scottish Environmental Protection Agency (SEPA) website (http://www.sepa.org.uk/). N.B. As no digital flood mapping data were available, Areas at Risk from Flooding had to be manually presented on Figure 6-4. Therefore, they should be treated as being indicative	District / Local
Natural Burial Grounds	Natural Death Centre website (http://www.naturaldeath.org.uk/)	District / Local

Environmental, technical and consenting constraints have been assessed and their relevance to the offshore works for the export cable is discussed in the Section 6. The constraints have been mapped using a geographical information system and will be referred to throughout.

Based on this information, a high level assessment has been undertaken for all routes to the feasible landfalls. More detailed assessment was then undertaken for the proposed marine routes, and three terrestrial corridors.

1.3.4 Stage 3: Identification and assessment of transmission infrastructure options

The potential infrastructure options for the onshore and offshore components of the project were assessed for their feasibility, as set out in the methodology.

A set of criteria for selecting and assessing the land and marine cable route corridors, and substation have been applied. Details of the criteria used are included in Appendix A.2, and the approach is summarised below:

Marine cable route corridors: Criteria developed by Intertek-Metoc based on SHETL guidelines, best practice and UKCPC recommendations.

Land cable route corridors: Criteria adapted from the Holford rules to suit underground cabling.

Substation sites: Approach based on the Holford Rules (Supplementary Notes on the Siting of Substations), and informed by MORL preference for sites within 1 km of the existing substation at Peterhead Power Station.

For the onshore cable elements, strategic 2 km routing onshore corridors were identified, and subsequently refined to a width of 0.5 km through more detailed environmental investigation. The potential substation sites were also assessed

in relation to the 0.5 km corridors. A corridor of 0.5 km was considered appropriate to allow flexibility in locating an underground cable route on the ground.

The 0.5 km routes were subject to more detailed analysis, and potential risks have been quantified as much as possible to enable preferred routes to be compared and ranked.

The route option assessment comprised the following sub-stages:

Defining Potential Landfall Sites

The landfalls, as the connecting point between the onshore and offshore aspects of the transmission infrastructure were determined early on in the study. Possible landfall sites were identified based on desk based information including admiralty charts, ordnance survey charts and satellite imagery. The key criteria used in the desk based selection of possible landfall sites were a flat sandy beach, and avoidance of rocky areas and cliffs. Sufficient space for the installation infrastructure and good access. Avoidance of the key environmental and engineering concerns that have been applied throughout the route selection were also particularly critical in the selection of landfall sites. A total of 11 landfall sites were selected for site visits to further inform their engineering feasibility. The landfall site visit accounts are included in Appendix B4.

During a project workshop held on 19 November 2010, eight potential landfall sites were taken forward to detailed onshore route development. The three westernmost landfall sites (Lossiemouth Forest, Cullen and Portgordon) were initially discounted as they would entail an indirect route for the overall transmission infrastructure. It was considered unnecessary to consider these landfalls further given that feasible landfalls and route options had been identified on a more direct route. Portgordon was brought back into the assessment to allow for potential collaboration with SHETL to be considered in association with the proposed Viking cable. The landfall at Rattray was also discounted, on the basis that the marine route option to this site would have very significant technical and environmental constraints due to the need to cross the numerous pipelines connecting into St Fergus.

Defining Offshore Route Corridors

Thirteen 1 km width marine route corridors were identified and assessed for their feasibility in terms of environmental/consenting and engineering considerations, based on the routing criteria set out in Appendix B.1. The marine corridors were assessed, to the same level of detail to each of the 13 possible landfall sites, including a number of route alternatives to 2 of the sites (Sandend and Inverallochy).

Defining Potential Onshore Corridors

Potential route corridor options (up to 2 km width) around a nominal centre line were defined, connecting the 11 initial landfall sites to the existing substation at Peterhead Power Station. This process has considered (i) criteria adapted from the Holford rules; (ii) environmental constraints at the International / National / Regional level; and (iii) engineering constraints. The criteria adapted from the Holford Rules are presented in Appendix A2.

Defining Potential Substation Sites

Potential substation sites were defined based on (i) the requirements of MORL; (ii) the approach outlined in the Holford Rules (Supplementary Notes on the Siting of Substations); (iii) environmental constraints at the International / National / Regional level; and (iv) engineering constraints. The criteria taken from the Holford Rules are presented in Appendix A2.

Defining Preferred Onshore Corridors and Substation Sites
This stage involved refining the potential 2 km onshore corridors, and defining 0.5 km corridors within them, through more detailed environmental investigation. The 0.5 km corridors were identified for 3 overall routes, which branch off to connect to the 8 landfall sites taken forward to this stage of the assessment. The potential substation sites were also assessed in relation to the 0.5 km corridors. A corridor of 0.5 km was considered appropriate to allow flexibility in locating an underground cable route on the ground.

The international, national and regional level environmental baseline information collected was updated with district and local level information. However, this information was solely collected for the 2 km corridors, and not for the entire onshore study area. Collectively, these data were used to refine the 2 km corridors around a nominal centreline, and also define 0.5 km corridors within them. As in defining the potential onshore corridors, the corridors were widened or narrowed in response to environmental constraints on the ground. The practical considerations for the routeing of underground cables outlined in Appendix A2 were again considered at this stage.

The potential substation sites were assessed again in terms of the additional environmental constraints information and the refinement of the corridors to 0.5 km width. As in defining the potential substation sites, the Holford Rules (Supplementary Notes on the Siting of Substations) outlined in Appendix A2 were again considered at this stage.

The three onshore 500 m corridors were subsequently assessed according to the principles of the Environmental Risk Assessment (ERA) approach to define the preferred route option. ERA is an established method for performing environmental assessment, allowing the assessor to organise and analyse the available information on an environmental problem.

The ERA approach has been adapted to suit the needs of the onshore elements of the routing study. It follows a three stage approach, which firstly assesses the ‘value’ of a particular environmental feature located within the 500 m corridors (the importance of the feature as a constraint), secondly predicts the risk of impact on a particular environmental feature located within the 500 m corridors (only direct physical impacts have been considered at this stage), and thirdly assigns a risk rating score to a particular environmental feature.

The ERA approach adopted is explained in Section 4. It should be noted that this approach does not assess the potential impacts of preferred onshore cable corridor to the level of detail required under the Environmental Impact Assessment (Scotland) Regulations 1999 (as amended), but is considered sufficient to assess route corridor alternatives. Development of any of the route corridor options taken forward for further consideration would require further detailed surveys and investigation (refer to Section 8). Furthermore, the ERA approach has not been applied in determining the preferred substation sites, as the preferred substation sites were consciously located away from / outwith any environmental constraints collated at Stage 2 and therefore no direct physical impacts are predicted (refer to Section 6.4.1).

2 STAGE 1: GENERIC ENGINEERING CONSIDERATIONS

2.1 ONSHORE SUBSTATION INSTALLATION

Based on information from ABB, the land requirements per 800 MW substation would be of the order of a footprint measuring 50 m x 90 m. As there are two substations, the size of each may reduce with some synergies. Both substations would house converter equipment.

As there may be a requirement for some office buildings adjacent to the substations, this study has considered the potential footprint of each substation to be 60 m x 100 m.

Construction of the substations would typically include the following stages:

- Site mobilisation, site clearance and installation of vehicular access and any necessary enabling works on the access route to the site. Temporary facilities for construction workers and storage area for materials would also be established
- Installation of foundations followed by the erection of buildings
- Installation of plant
- Commissioning (of both the substations and HVDC cable) and site restoration (including removal of site machinery etc)

Operation and maintenance programmes would require regular attendance by staff and potentially the need to replace items of equipment.

Potential environmental impacts in terms of the construction of the substations may include temporary noise impacts on nearby receptors and impacts on habitats / species. During operation, there may be visual impacts, although screening of the substations through landscaping may reduce such impacts.

2.2 HVDC ONSHORE CABLE INSTALLATION

Up to two HVDC circuits are required, each comprising a pair of HVDC cables laid together in a single trench. Such a bipolar configuration involves one cable that is positively charged and the other negative. The key effect of this is that this reduces, or cancels, the effect of any induced magnetic field normally associated with high voltage cables. Circuits would be separated by approximately 5 m.

The installation of cable systems consists mainly of cable pulling, clamping of cable and accessories as well as mounting of accessories. HVDC Light cables have smaller bending radius compared with paper insulated cables, making it possible to use smaller cable drums for transportation.

Cables would be buried to approximately 1 m in depth, though this may be deeper in agricultural ground or may be reduced in areas of rock. When installing cables in agricultural land, it is necessary that the cable be laid at sufficient depth to allow for deep ploughing and cultivation. The appropriate depth would need to be agreed with the National Farmers' Union. Where excavations deeper than normal are to be dug, reference shall be made to

British Standard (BS) 6031 *Code of Practice for Earthworks*. This deals with the dangers of water draining into deep excavations and also with the importance of having knowledge of the types of ground being investigated.

Detailed design of the cable trench and its fill materials will respond to local ground conditions to ensure appropriate heat conduction and cable protection. However, the smaller bending radius of the HVDC Light cables also makes it possible to use compact installation and to go around obstacles such as rocks etc. Where ground contains unavoidably large or sharp rocks or cannot conduct heat effectively (e.g. peat is a particularly poor conductor), then a backfill material would be required.

As well as its poor heat conduction, deep peat is also a weak material and may not support the weight of the cable. Any extra peat below the cable may therefore need to be removed or wooden battens installed in the cable trench to 'float' the cables on peat.

In ground where subsidence is likely, the cable should be bedded in sand with a pronounced snake to allow for settlement. Damage may be caused to a cable termination by movement of the cable due to ground subsidence, and an anchor may be required to be fitted to the cable.

The actual width and location of cable trench would be influenced by the following factors:

- Suitable levels and contours to facilitate continuous pulling of cable by winch. The trench requires a firm and smooth contoured base. If the level of the trench alters, the base level would need to rise and fall gradually
- Where bends are unavoidable, the trench should allow the cable to be installed at not less than its minimum bending radius. During installation of the HVDC Light cable, the bending radius should exceed 18 x D_e. When the cable is installed (no force applied to the cable), the bending radius must exceed 12 x D_e. D_e is the external diameter of the cable
- All existing railways, tramways, walls, roads, sewers, drains, pipes, cables, structures, places would need to be secure against risk of subsidence or damage, and all trenching works would need to be carried out to meet the requirements of the authorities/owners concerned

Lengths of HVDC cable would be delivered to the construction site on spools by Heavy Goods Vehicle. The lengths would be jointed together inside a portable jointing house, which is placed into a joint bay. The jointing house is designed to provide adequate light, dust control, clean work surfaces and cable stands in which the joints would be formed. As clean and dry conditions are required a concrete floor (or similar) may be installed with temporary cover to create the necessary conditions. Once the joints are created, the joint bays would be buried with no structure visible at the ground surface.

Installation of cables would follow a standard sequence of events:

- Prior to installation commencing, trial holes would be taken at the proposed joint location and at such other positions along the route as is necessary to ascertain the practical positioning of the cable, unless it is known from co-ordinating drawings that the route is relatively clear of obstructions. Trial holes should generally be at right-angles to run off cables at least 150mm deeper than the proposed trench. Surface covers belonging to other utilities may give a guide to the location of their

equipment.

- Preparatory works to establish a temporary working corridor approximately 20 – 30m wide, with appropriate fencing to ensure safety. Vehicular access arrangements to the route would be established, which may require the installation of temporary access tracks and bridges.
- Excavation of the trench and joint bays including provision of any necessary shoring of trench sides where ground is unstable (to prevent trench collapse or falls of rock or other material from the side of the ground adjacent to the trench) or extension of excavation to provide appropriate angle/batter. Excavated material would be stored appropriately with vegetation, topsoil and other material stored separately. Any material unsuitable for backfill would be removed. If excavating in concrete, surfaces would need to be cut through the concrete as per the HAUC Specification for the Reinstatement of Openings in Highways.
- A layer of native backfill, sand or Cement Bound Sand (CBS) would be laid in the base of the trench, the concrete floor of joint bays formed and the bays protected to create the necessary clean and dry environment. Water may need to be pumped out of trenches depending on drainage and weather conditions prevailing with appropriate measures adopted to deal with the water, to avoid effects on the wider water environment.
- Cable would be winched off the drums into the trench. Native backfill, sand or CBS would be placed around and above the cables with the remainder of the trench backfilled with previously removed topsoil. Any vegetation would be replaced or reseeding undertaken with a seed mixture appropriate to the locality.
- Cable markers would be installed at regular intervals throughout the length of the cable to ensure third parties are aware of the presence of the cables.
- Reinstatement of the temporary working corridor and removal of all temporary equipment.

Where conditions allow, it is possible that a wheel or chain trencher could be utilised to speed up the installation process. If this opportunity arises, after surface vegetation removal, this specialised machinery would cut the trench and lay the cable complete with sand or CBS surround. Excavated material would then be used as backfill with any surplus removed for appropriate disposal.

Restoration work would be undertaken following the completion of construction and installation activities. This would include the completion of restoration groundworks such as: slope stabilisation; bunding /earthworks, rediversion of drainage to permanent; seeding/planting and the erection of permanent fencing and signage. Restoration work would be progressed as soon as work in a particular area of the substation site or cable route was completed.

Although the main advantage in the use of underground cables is that, once buried, they are not visible there are a number of generic constraints concerning the installation and operation of underground cables, including:

- Disturbance to flora and fauna, land use, hydrology and archaeological sites
- The presence of well established tree roots

- The on-going land use above the cable route has to be restricted, particularly in relation to tree planting, some deep agricultural operations (such as field drains and peat cutting) and building restrictions
- There may be a need to export and import large volumes of material throughout the length of the cable route during construction. Suitable access roads, if not already established, would need to be constructed
- Minimal maintenance is required for these cables, though faults do occur which require the use of test equipment to locate the fault and potentially a substantial excavation to cut out and replace the faulted section with new joint bays being required to be installed for the joints. Such work could cause disruption for residents, businesses and visitors.

2.3 HVDC MARINE CABLE INSTALLATION

2.3.1 Water depth – cable engineering implications

From the perspective of water depth (bathymetry), the three key issues behind cable routing and engineering, are:

- extents of the intertidal area;
- lengths of routes in <10 m water depth; and
- avoidance of areas with greater than 200 m water depth.

The intertidal area is the interface between land and vessel based operations and, therefore, is often the most difficult aspect of a cable installation. Both land and marine operations need to be co-ordinated with the flood and ebb of the tide. The landing of the cable from the vessel on which it is being stored to the beach manhole is a challenging operation because of the tides and is also highly weather dependant.

With the tidal regime of the area, the time available for operations may be restricted, with some operations limited to particular tidal states, e.g. slack water (either side of the high or low tide).

A water depth of 10 - 15 is used as the nominal cut-off point for cable installation using large self-propelled Cable Laying Vessels (CLVs). Such vessels when fully loaded may typically draw 7 m or 8 m and vessel operators are reluctant to risk grounding. If a route contains substantial sections of shallow water a CLV may not be able to safely operate and so an alternative vessel will be deployed, often a Cable Laying Barge (CLB) manoeuvred using anchors. If the CLB is limited in its cable storage capacity more sections will be required and hence more joints, increasing the complexity of installation.

From a financial perspective, having to mobilise two installation spreads, with the associated issues of cable jointing and longer working times, can lead to an increase in overall project cost. Therefore, a longer route avoiding shallow water, which does not require separate installation spreads, may be a more cost effective solution.

Seabed slopes greater than 10 degrees can be an obstacle to cable installation. Depending on the orientation of the slope to the route towed or tracked cable burial equipment may not be able to effectively operate on surfaces with slopes in excess of 10 degrees. For example, a towed plough running obliquely across a slope, rather than perpendicular to slope direction may have the

potential to slide/skid down the slope face.

Large mobile features, like sandwaves, can have steep slopes developed at the wave crest and therefore present difficulties for installation equipment. Localised high slope values may also occur due to the presence of submerged cliff lines from former sea level stands, see Section 5.1.1.2 Geology.

2.3.2 Cable Lay and Burial

Up to two HVDC circuits are required, each comprising a pair of HVDC cables and a fibre-optic SCADA (Supervisory Control and Data Acquisition) cable. Such a bipolar configuration involves one cable that is positively charged and the other negative. Each pair of HVDC cables and fibre can either be bundled together and laid and buried in the same trench, or the HVDC cables are separated by a minimum of 1 times water depth with the preference for 2-3 times water depth The SCADA cable would be installed with one of the HVDC cables. The spacing given is to allow future access to the installed cables for repairs and maintenance. From an environmental perspective, bundling is the preferred solution as the magnetic field is minimised as the two opposing fields cancel each other out. However, there can also be technical disadvantages to bundling the cable, such as increasing the heating effect within the cables (thus reducing transmission capacity). There is also currently no proven solution for the simultaneous lay and burial of bundled cables using a plough, which limits the options available for cable installation of a bundled cable, based on existing technology.

If two HVDC cables and SCADA are bundled together the cables would be installed in the same trench, the two pairs of bundled cables would be laid with a minimum separation of 2-3 times water depth. As stated before, this horizontal separation would be to allow future access to both bundled cables for repairs and maintenance. For the majority of the possible Moray Firth export cable routes water depths are up to about 100 m (giving up to a 300 m separation), but the routes which pass adjacent to the Southern Trench do pass through areas up to 170 m deep which would require a wider separation (up to 510 m). If all the cables are laid in separate trenches, a possible arrangement is for the cables in a HVDC pair to be separated by 1 x water depth, with 2-3 x water depth separating each pair. This would give a cable installation width of up to 500 m for most of the potential routes; although in the deep water areas it could increase to as much as 850 m.

The installation may be accomplished by a single vessel simultaneously laying and burying the cable bundle or by a spread containing two vessels, one surface laying the cables and the following vessel carrying out the burial. Other small ancillary vessels, such as those carrying out guard vessel (exposed cable protection) or survey, may be present on the route alignment at various stages of the installation.

The cable will normally be buried whenever technically possible. Burial is not possible at crossings with existing cables, and certain seabed conditions such as hard seabed, or boulders on the surface may mean that the burial tool is unable to achieve burial. The burial depth at any given location will depend on the hazard profile but it is likely that the cables will be buried to 2 m in non-cohesive sediments, less in areas of more cohesive, solid sediments. The variation in sediment across the region may require a range of burial techniques.

Depending on the method of burial (see Table 2-1) the sediment over the cable can be reinstated mechanically or naturally by normal sedimentary processes. Where cable burial is not possible, for example at crossings with other cables or pipelines, mechanical protection will be required using concrete mattresses or placed rock.

Table 2-1: Cable burial methods

Burial method	Description
Ploughing	Ploughing is suitable for most types of seabed material, with the exception of rock and some glacial material. The cable is fed from the vessel, through the plough share into the seabed. The plough share cuts and lifts the seabed and opens a trench in which the cable is able to be laid into. To ensure the cable maintains its placement at the bottom of the trench a depressor arm holds the cable down. Dependant on the seabed type, the seabed falls back in to the trench behind the plough and covers the cable.
Jetting	Jetting is most effective in sandy sediment, and may not be capable of burying cable in more cohesive sediment. The cable is laid on the seabed, where either a towed jetting sledge or ROV using jetting swords and nozzles to direct water either side of the cable fluidising the sand. The cable sinks by its own weight or assisted by a depressor arm, to the depth set by the ROV/Sledge operator. *Jetting and ploughing may be used in combination.*
Rock cutting / trenching	A trench is excavated, displacing the sediment to alongside the trench. The cable is subsequently laid in the trench and the sediment is either returned to the trench or left for natural sedimentary cover to infill. This can provide an option for burial in the harder substrates where plough and jet burial may not be effective. However, the progress of these machines can be slow and expensive

As a very brief overview the impacts of installing marine power cables essentially comprise the following key impact sources:

1) Direct disturbance to benthic intertidal and benthic habitats and species in the path of the installation tool, during installation.

2) Increased turbidity impacts on sensitive species due to temporary re-suspension of seabed sediments during installation.

3) Physical disturbance to mobile species such as birds or mammals which may be displaced from the installation area, due to the presence of vessels, and noise generated.

4) Physical disturbance to other sea users during installation due to presence of vessels and noise.

All installation methods will cause these impacts to a greater or lesser degree. Plough installation is generally considered the most benign, as it causes minimal seabed disturbance, as the seabed is replaced following passage of the plough. Jet installation is fairly comparable with plough installation in terms of environmental impact, although it will cause a greater, albeit temporary, impact on sediment re-suspension.

Rock cutting or trenching would cause the greatest impacts of those installation methods described above. It would generate greater levels of noise, and can result in longer seabed recovery times if excavated sediment is not backfilled.

2.3.3 Shallow Water Installation

Shallow water cable operations can prove to be the most complex and time consuming aspect of the overall cable installation. Initially, consideration must be given to what water depth will be required to allow the installation vessel to safely hold its position inshore during shore end operations. A flat bottomed barge could be used to install either the complete system cable or specific sections of the route in shallow waters, e.g. the shore end from the landing point to a suitable water depth for use of a cable ship, usually >10m. At this point the cable ship can safely hold its position and undertake cable jointing operations, before continuing with the installation.

Figure 2-1: Cable lay barge aground

Flat bottomed barges are able to ground, given adequate survey and suitable conditions. However, they are generally not self propelled and rely on support vessels to provide towage and assistance. They also tend to operate with an anchor spread, typically requiring a working corridor in excess of 200-300m either side of the cable route. This has implications for environmental impacts in terms of seabed disturbance and restriction of other users. From a financial perspective, having to mobilise two installation spreads, with the associated issues of cable jointing and longer working times, can lead to an increase in overall project cost. Therefore, a longer route avoiding shallow water, which does not require separate installation spreads, is generally a more cost

effective solution. However, it should also be borne in mind that, dependent on route length, multiple loads may be required in any case.

2.3.4 Deep Water Installation

A large, self propelled cable lay vessel, usually a cable ship, able to accommodate a long length of cable on a high payload carousel is considered to be most appropriate for installation of the export cable. Such a vessel could typically install 60 km of bundled cable during a single campaign. The 10 m depth contour is the nominal cut-off point for cable installation using a vessel of this type as it may draw 7 m or 8 m, when laden. The export cable may need to be installed in sections with cable joints.

The placement of the subsea joints will need to be planned with care. At the installation planning stage, consideration will need to be given to whether to select a low payload carousel, inducing an additional cable load and joint, or a high payload vessel with fewer joints. Production rates of cable manufacture may also be a key factor in the installation timetable, which may reduce the flexibility in the project programme to factor in such issues.

2.3.5 Landfall installation

The transition joint pit (TJP) houses and provides protection to the marine/land cable joint. It is usually a rectangular area with a concrete base. Typical dimensions are approximately 6m x 2m x 3m. The optimum position for the TJP is likely to be on the beach above the high water mark, where the exit for the cable is positioned at cable target depth. There are a number of factors which could cause the relocation of the TJP away from an optimum location, for example if the project needs to use Horizontal Directional Drilling (HDD) techniques to avoid environmentally sensitive areas or the need to preserve beach defences.

The cable must be protected along the whole length of its route from the beach, through the intertidal zone and seawards along the seabed. There are a number of methods of affording cable protection such as the fitting a protective sleeve. However, the protection method of choice is burial. This provides adequate protection from the elements and removes any danger to the public.

In the intertidal area, excavators are generally employed to dig a trench for cable burial between the TJP and a position where marine burial tools will become effective. It should be noted that burial tools such as ploughs can often be pulled up the beach at high water, closer to the joint pit, reducing the area where excavators are needed. Trenches can either be pre-dug, or the trench is excavated and backfilled after the cable has been pulled ashore. Trench widths are likely to be approximately 1m and depths are dependent on the contractual requirements for burial.

The depth of burial within the intertidal and nearshore areas will be dependent on both the cable design, which may limit depth due to thermal dissipation requirements and the areas mobility. The thermal rating of the cable if too deeply buried will risk overheating and subsequent power limitations or a beach may have the risk of either storm surge removal of the top cover or indicative sediment movement from historical data. A route design will therefore factor both points into determining what depth of burial will be required in this zone. The potential is that burial may be required to be 2m below a forecasted

seabed level to ensure continual protection and no exposure.

A commonly applied approach to avoid impacts on sea defences, or protected features or beneath sand dunes is the use of HDD techniques beneath the sensitive areas.

If HDD is required, heavy plant access must be available to both the entrance and exit points of the bore for the HDD rig. The HDD exit point can be designed to be either above or below the low water mark but diver intervention will be required in assisting the boring and cable landing works, should the bore exit below the low water mark. It should be noted that HDD distances are generally limited to approximately 1500m and that a prefabricated duct, of length greater than the bore length, is preferred to pull through the bore preventing collapse. This duct could be supplied in sections and welded during the operation. However, in the case of the proposed export cable, the feasible duct distance is expected to be much less than this given the expected weight of the cable and the maximum pull force as stipulated by the cable manufacture. Considering these restrictions, a maximum distance of 450m is likely to be applicable.

To provide the cable pull force, a cable hauler or winch is normally placed behind the jointing pit. This has to be secured in place, e.g. with the use of a mechanical digger providing the hold-back. Rope is fed from the hauler to the installation vessel. This is attached to the cable and the cable is pulled up the beach through the TJP. It is common practice to secure the cable and apply a continuous test before the installation vessel departs the beach area to continue installing the cable seawards.

3 CONSENT REQUIREMENTS

For the purposes of this report, the consents likely to be required are discussed under the headings onshore and offshore consents.

3.1 ONSHORE CONSENTS

3.1.1 Planning Permission

Planning permission for both the underground electric cable and the substations would need to be obtained through the Planning etc. (Scotland) Act 2006 (which came into force in 2008 and replaced the arrangements in the Town and Country Planning (Scotland) Act 1997).

There may be a requirement for other licences or consents to be obtained in respect of any works that may affect protected species (e.g. bats or badgers) or that may affect designated habitats (e.g. Special Protection Areas (SPAs), Special Areas of Conservation (SACs) or Sites of Special Scientific Interest (SSSIs)).

3.1.2 Environmental Impact Assessment / Appropriate Assessment

In order to determine whether an Environmental Impact Assessment (EIA) is required under the provisions of the Environmental Impact Assessment (Scotland) Regulations 1999 (as amended), a screening opinion request would need to be submitted to the LPA. Alternatively, a decision on whether any significant effects could occur as a result of the substations, thus triggering the requirement for an EIA, could be made by the project team.

Should it be determined that there would be a likely significant effect (direct or indirect) on site(s) designated under The Conservation of Habitats and Species Regulations 2010 (which implement the *EC Council Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora 92/43/EEC* (hereinafter referred to as the Habitats Directive) and the *EC Council Directive on the Conservation of Wild Birds 79/409/EEC* (hereinafter referred to as the Birds Directive), the determining authority can request a Habitat Regulations Assessment to be undertaken. The Habitat Regulations Assessment is undertaken by the relevant competent authority, to determine whether the development would have a significant adverse impact on the qualifying features of the site in question, but the onus is on the applicant to provide enough information to allow the assessment to be undertaken.

Under EU and also UK law, the project would need to prove that development would not have a likely significant effect on the designating features or conservation objectives of any relevant SAC and/or SPA. The project Environmental Report will need to contain sufficient information for an Appropriate Assessment of the impacts on the SAC and SPA to be undertaken by the regulator, and surveys are likely to be required as a part of the process.

3.1.3 Land Rights

MORL is not a Statutory Undertaker. The implications of this are that a) the

necessary wayleaves to place and maintain the connection in private land will have to be negotiated, b) appropriate permissions to place and maintain the connection in roads will have to be obtained from the road works authorities, and c) appropriate permissions to trench under railway bridges would need to be obtained from Railtrack.

The need to negotiate wayleaves could provide an additional constraint on route choice as a landowner may not wish – for personal, financial, political or corporate reasons - to enter into a wayleave for the connection. Similarly, a road works authority could refuse permission if the road is designated as a protected road, a road of special engineering difficulty or a traffic sensitive road. Furthermore, the size and nature of the connection, together with the working width needed to maintain it, might result in a road authority refusing permission because of the narrowness of the road and the impact the connection would have on statutory undertaker's infrastructure.

Progression of the onshore connection through the planning procedures required by the Planning (etc) Scotland Act 2006 is likely to be difficult without a) an assessment of land ownership and occupation and initial negotiations to ascertain landowners would grant wayleaves, and b) discussions with the appropriate road / rail authorities regarding the practicality of permissions.

It is understood an application for planning consent may need to be accompanied by certification that landowners, lessees, tenants and occupiers have been advised of the proposals, and that road / rail authorities would be consulted by the planning authority about the application. In certain circumstances a road authority may have powers to direct refusal of a planning application.

3.2 MARINE CONSENTS

Consenting for marine projects in the UK is currently in a state of transition.

Under the Marine (Scotland) Act 2010 the requirement to obtain separate consents under Section 34 of the Coast Protection Act 1949 (CPA) and Part II of the Food and Environmental Protection Act 1985 (FEPA) will be removed. Instead there will be a requirement for a single Marine Licence, administered by Marine Scotland. Table 3-1 provides a summary of the consents required for the installation of a subsea export cable under the Marine (Scotland) Act.

European Protected Species (EPS) listed on Annex IV of the Habitats Directive are provided protection in Scotland under the Habitats Regulations 1994 (as amended).

In Scotland (both within and outside of territorial waters) the Scottish Government is the authority currently responsible for issuing a licence, with JNCC and SNH as advisors. However, the regime is in a period of transition and responsibility will shortly be transferred to Marine Scotland as part of the wider changes to marine licensing.

The Scottish Government can issue a licence for actions which would normally be considered offences, including the disturbance of cetaceans, disturbing an animal while it is migrating or hibernating, and obstructing access to a breeding site or resting place.

EPS common to the Moray Firth region are cetaceans and otter (*Lutra lutra*).

The potential requirement for EPS licences will need to be investigated during consultation with nature conservation organizations and environmental assessment.

Table 3-1: Outline of possible marine consents

Legislation	Details	Consenting Body
Marine Licence under the Marine (Scotland) Act 2010	Consent for works below Mean High Water Consent for the deposit of materials at sea. For example, the deposit of rock armour or mattresses or disposal of dredged material	Marine Scotland
Lease for use of the foreshore and seabed under the Crown Estates Act 1961	Use of seabed from MHWS to limit of territorial waters (12nm offshore),and the Renewable Energy Zone.	The Crown Estate Commissioners
Ports and Harbour Works Licenses	Works within the jurisdiction of a ports/harbour authority	Relevant Port/Harbour Authorities
Flood defence consent under Section 34 of the Land Drainage Act 1991	Works in the vicinity of a sea defence	Scottish Environment Protection Agency
Crossing Agreements	Any cables crossed by the cable below MHWS.	Cable owners

4 METHODOLOGY

As discussed, the proposed route corridor and substation options have been developed based on the following criteria:

Marine cable route corridors: Criteria developed by Intertek-Metoc based SHETL guidelines, best practice and UKCPC recommendations (see Appendix B.1).

Land cable route corridors: Criteria adapted from the Holford rules to make them suitable for routing underground cables (see Appendix A.2).

Substation sites: Approach based on the Holford Rules (Supplementary Notes on the Siting of Substations), and informed by MORL preference for sites within 1 km of Peterhead Power Station (see Appendix A.2).

The following methodology has been used to quantify potential feasibility of the various elements of the transmission infrastructure, and to allow them to be ranked in terms of environmental and technical risks.

4.1 SUBSTATION SITE RISK ASSESSMENT

An initial assumption was that feasible sites for the two onshore substations could be found within the defined 2 km corridors. MORL suggested that the preference would be to have to the two substations situated in close proximity to each other and no further than 1 km away from the existing substation at Peterhead Power Station. Therefore, the area within which the substations could be located was quite restricted.

More detailed assessment then followed to establish feasible locations for the two substations within the 2 km corridors against the following criteria:

Site Location / Topography: The site would preferably be generally flat.

Site Footprint: The site needs to be large enough to accommodate two separate substations.

Planning Considerations: The site needs to be appropriate in terms of planning viability

Infrastructure Considerations: The site needs to be close to existing road infrastructure that could accommodate the transport of large and / or heavy plant items.

Environmental Considerations: The site needs to be away from / outwith any environmental constraints to avoid any direct physical impact, and at a suitable distance from residential areas.

No formal risk assessment has been applied to the siting of the substations. The approach taken is based on the parameters outlined in Appendix A.2.

4.2 OFFSHORE CABLE CORRIDOR AND LANDFALL RISK ASSESSMENT

To assess the feasibility of the offshore routes and landfalls, they have been scored, based on:

- Technical feasibility
- Environmental / consenting feasibility

The technical/engineering feasibility of each option is calculated on a scale of 1-4 (where 1 is very low and 4 is high) based on the risk of encountering any areas where cable burial may be difficult to achieve and/or maintain, such as mobile seabed or areas of bedrock. The criteria used to rank the engineering aspects are as set out in Table 4-1.

The environmental score is also calculated on a scale of 1-4 based on assessment of issues of concern along the route which could impact on achievability and timescales for project consent, such as impacts on protected sites or third party concerns. For example, fishing activity is a third party concern which can present a possible risk both for permitting and ongoing risk of cable damage from invasive fishing techniques, and the cable itself can present a risk to fishermen if not sufficiently buried. In this case, fishing issues are represented in both categories (engineering and environmental/consents). The criteria used to rank the engineering aspects are as set out in Table 4-1.

The scores were combined at the end to provide an overall rank for each route, as described in Table 6-1.

Indicative costs have not been factored into the environmental and engineering risk assessment as it was not possible to accurately calculate estimated indicative costs for the onshore elements, as described in Section 4.4. However, indicative costs for the offshore and landfall transmission infrastructure are given in Appendix B5. The engineering and environmental risk factors are, however, relevant to the economic considerations of each option, as increased technical complexity and potential consenting requirements and delays will have a direct influence on the overall cost of developing and installing the transmission infrastructure.

Table 4-1: Offshore risk matrix

As described in Section 4.2, the technical/engineering and environmental/permitting feasibility of each option is calculated on a scale of 1-4 based on the risk and consequences of encountering any areas where cable burial may be difficult to achieve and/or maintain, such as mobile seabed or areas of bedrock, or implications of routing through environmentally protected and/or sensitive areas, as per the criteria below.

Permitting constraints	Technical Feasibility			
	Resolution of the issue (meeting acceptable safety standards) has potential for cost or schedule impacts as identified below, or no contingency measures identified which give an acceptable outcome if a risk materialises:			
	Definition	Cost to resolve (£m)	Schedule delay (months)	
Localised or short term environmental impact causing severe local ecosystem damage or significantly affecting a regional ecosystem. May be acceptable but likely to cause significant consenting delay.	Severe – potential showstopper (could be managed outside normal organizational framework. Would require substantial vessel/spread modifications of enhancements – severely restricts choice. Would require re-routeing.	≥ 25 - 75	12 to 24	High [4]
Limited impact with localised effect on ecosystems and insufficient to threaten their long term recovery. May be acceptable with appropriate mitigation	Moderate – potential showstopper (can be managed with normal resources) e.g. major restriction to choice of vessel / plant or may require re-routeing.	≥ 10 - 25	6 to 12	Medium [3]

Permitting constraints	Technical Feasibility			
Impact with measurable, but no lasting effect. Likely to be acceptable	Material Impact – readily manageable e.g. slight restriction to choice of vessel / plant	1 - 10	3 to 6	Low [2]
Impact with no measurable effect. No consenting risk.	No issues e.g. no restriction on choice of vessel/spread	≤ 1	<3	Very Low [1]

4.3 ONSHORE RISK ASSESSMENT METHODOLOGY

4.3.1 Environmental Risk Assessment

4.3.1.1 Valuation of Features

The rationale for valuing features follows a well established environmental capital approach and has been broadly developed upon published guidance, some key examples of which are listed below.

- Institute of Ecology and Environmental Management (2006) *'Guidelines for Ecological Impact Assessment in the United Kingdom'* (version 7 July 2006). http://www.ieem.org.uk/ecia/index.html
- *'Guidance for Landscape and Visual Impact Assessment'*. Second Edition. Landscape Institute / Institute of Environmental Management, 2002.
- *'Landscape Character Assessment: Guidance for England and Scotland'*. Countryside Agency, 2002.
- *'Design Manual for Roads and Bridges, Volume 11, Part 3. Environmental Assessment Techniques'*. Highways Agency, May 2008
- Transport Analysis Guidance. www.webtag.org.uk

The purpose of valuing is to enable the features that are present within the 500m corridors to be given a weighting, which allows those of the highest value/importance to be avoided in the routing exercise, if possible, over those of lower value/importance.

The approach to assessing the value/importance of each feature within the 500 m corridors is considered against the following criteria outlined in Table 4-2.

Table 4-2: Criteria for Determining the Value of Features

Value / Importance	Value / Importance Score	Criteria
High	4	High importance and rarity, national scale, and limited potential for substitution.
Medium	3	Medium importance and rarity, regional scale, limited potential for substitution.
Low	2	Low importance and rarity, local scale.
Negligible	1	Very low importance and rarity, local scale.

4.3.1.2 Likelihood of Impacts on Attributes

The attributes have been assessed as to the likelihood that they would be impacted. Only direct physical impacts have been considered at this stage. This takes into account the potential that attributes are avoidable (through micro-siting of the preferred route corridor). The criteria applied are presented in Table 4-3.

Table 4-3: Criteria for Determining the Likelihood of an Impact

Likelihood	Description
4	>80% certainty of impact i.e. unavoidable
3	51-79% Potentially avoidable
2	20-50% Probably avoidable
1	1-19% Avoidable or of limited consequence

4.3.1.3 Risk Rating

The value score for each attribute is multiplied by the likelihood of impact in order to determine the constraint posed by the feature. The resulting outcome is a risk rating, as outlined in Table 4-4.

Table 4-4: Definition of the Environmental Risk Assessment Risk Rating

Risk Rating	Description
>12	Significant impact. May prevent project. Extensive consultation will be required prior to acceptance. Mitigation measures may not be adequate to reduce impact.
5-11	Potentially significant impact. Likely to require consultation prior to acceptance. Unlikely to prevent project. Mitigation measures may be bespoke or based on standard methodologies.
<4	Impact not significant. No barrier to the project.

Where there are no attributes of a specific type within a route corridor these are assigned zero scores for value, likelihood and risk rating. The risk rating assigned to each attribute identifies the relevant significance that should be assigned to it in the decision making process. The corridor options are then ranked with regard to their relative preference for each attribute.

The ERA approach outlined above has been applied to each of the three preferred 500 m corridors.

Although Listed Buildings have not been categorised into Grades A, B and C(S) on Figures 5.6, 6.3 or 6.4, they have been within the ERA. Therefore, the valuation has been based on the individual grade of the buildings.

In terms of assessing the likelihood of impact on a particular feature, a maximum working width of 30 m has been assumed as a likely worst case working width, based on current information. This was confirmed in discussion with MORL at the project meeting held on 19 November 2010.

Where there is more than one of a particular feature within a particular corridor, a worst case ERA score has been assigned to the feature in question (for

example, Listed Buildings).

4.3.2 Engineering Risk Assessment methodology

The onshore engineering assessment is based on the number of constraints encountered, such as major roads and rivers. Each type of constraint has been allocated a weighting factor, as set out in Table 4-5. The number of each type of constraint has been totalled and multiplied by the appropriate weighting factor and the resulting values summed to provide an overall assessment score.

Table 4-5: Criteria for Determining the Value of Features

Constraint	Weighting Factor
River	4
'A-roads'	3
Other named watercourses	2
'B-roads'	1

4.4 INDICATIVE COSTS

The indicative costs of marine cable installation have been calculated primarily based on route length, the number of pipeline and/or cable crossings along the route, and the HDD requirement at the landfall. It should be noted that the financial assessment of the marine route options is only indicative at this stage and is based on a number of assumptions, which are stated in Appendix B5. Whilst this information is useful in enabling a comparison between individual marine route options, it is not appropriate for establishing budget estimates for cable installation due to the large number of uncertainties involved.

In terms of the onshore cost-benefit analysis, a number of potential data sources for unit costs of installed cable were sought and some general consideration has been given to the civil installation works and costs associated with undergrounding HVDC cables. These cables are recognised as specialised alternatives to typical installation methods and installation applications to date are limited. Technical and commercial information regarding the installation requirements are not directly available in the public domain.

For comparative purposes, Hyder Consulting (UK) Limited has undertaken a review of technical and commercial information available from a report produced in 2007, for the comparative costs associated with an underground and overhead cable route for the Beauly to Denny 400kVAC circuit (PB Power in association with MTLA and CCI, 2007). Additional information has been provided from a knowledgeable third party (confidential correspondence), in respect of considered costs associated with the installation of a HVDC cable but the source data has not been able to be verified.

From an evaluation of the information available in PB Power report (2007), the typical civil cost for installing approximately 25 km of cross linked polyethylene high voltage AC cable is in the cost range of millions £/km. No further

comparable information for installing a HVDC cable was available.

Given the lack or reliable installation cost data, it is advised that this information is not on its own sufficiently verifiable and as such should be disregarded until a substantiated detailed technical and commercial evaluation is undertaken.

In order that the onshore and offshore aspects of the transmission infrastructure are assessed and compared on the same basis, the indicative marine costs have not been included in the final feasibility ranking of each option. However, the indicative costs of the various marine route options are provided in Appendix B5, for reference.

5 STAGE 2 – DESCRIPTION OF THE STUDY AREA

5.1 OFFSHORE AND COASTAL ENVIRONMENT

5.1.1 Physical Environmental Constraints

5.1.1.1 Bathymetry

Water depths in the Moray Firth on average range between 60 m to 70 m, although there are some significantly deeper areas, as described in the paragraph below. The Moray Firth is a sheltered marine environment on the whole, given the proximity to land in the north, west and south of the region. Seabed topography is representative of a low energy, estuarine environment (BGS, 2004).

Water depths in the study area are generally between 50 m and 100 m, however, there is a deep water feature within the study area known as the "Southern Trench" (see Section 5.1.1.2). Water depths here are significantly greater, at approximately 200 m. The deep water area within the Southern Trench is associated with steep slopes which could present difficulties for cable installation works. Outside of the Southern Trench, the surrounding seabed topography is consistent with the wider study area, however. The study area is located next to land; water depths shallow southward toward the coastline and range between 10 m to 20 m within 15 km of land. The topography of the area on the whole is gently undulating with gradients gradually building toward land.

5.1.1.2 Geology

A summary of the geological environment can be divided according to main groupings of material, based on age and geological processes:

- Solid geology - these are rocks older than 1.8 million years old, formed before the last ice age.
- Drift (Quaternary) geology - these are rocks deposited since the start of the last ice age and are from 1.8 million to 10,000 years old.
- Seabed Sediments - these represent the youngest materials formed from reworking of the solid and Quaternary material, river inputs of sediments or the creation of new material such as biogenic shells.

Solid Geology

The Moray Firth basin is bound by a series of faults: the Helmsdale and Great Glen faults to the west, the Wick fault system to the north, and the Banff fault and Scottish Highlands to the south (Zeus Petroleum, 2009). The east to west trending Banff fault is located within the study area (see Figure 5-1). This fault separates the Palaeozoic (>250 Ma) formations from the younger Mesozoic formations (250-67 Ma) in the north (BGS, 2004). The Banff fault trends through the study area.

The Southern Trench, an elongate (approximate east to west trending) steep-sided trench lays directly over part of the Banff fault and is also located within the study area. At approximately 120km in length, 2-6km wide and with a seabed surface area of approximately 550km^2, the trench is the longest

enclosed basin in the Moray Firth. Within the trench there are sub-trenches, these are considered to have formed as the result of two separate erosion events. Trench slopes range from common gradients between 6 degrees and 22 degrees, up to 50 degrees in parts. Greater dips still can be noted in areas of slumping and uppermost areas of slopes have been characterised as loosely jointed, exposed bedrock. The instability of the slope is considered to be related bedrock failure (BGS, 2004).

Quaternary Geology

Sediment moraines deposited at the end of glaciations during the Quaternary period are distributed across the wider outer Moray Firth toward the North Sea. Moraines can commonly form sediment banks, hard and immobile sediment deposits. An example of this is the West Bank moraine complex located approximately 5km north east of the study area (BGS, 2004).

Seabed Sediments

Seabed sediment in the North Sea derives from the latter epoch of the Quaternary period, the Holocene (the past approx. 10,000 years through to the present). These sediments are distributed relative to historical and present hydrodynamic processes of the North Sea (DTI, 2004a).

Sediment within the study area includes gravel grading to sandy gravel, sand and muddy sediment. Seabed sediment thickens toward the basins of the Moray Firth and outward in the central North Sea basins (BGS, 2004). Sediment thickness of the seabed of the North Sea range between 15 to 80m, however there is no location specific data available for sediment thickness in the study area. The study area is considered in three divisions; inner shelf, mid shelf and outer shelf for the purpose of sediment classification.

Inner shelf sediment comprises mostly of sandy gravel with gravelly areas located towards the edges of the study area, concentrated along the coastline. Sediment grades to sandy gravel, fine sand and mud across the mid shelf, and continue to grade to very fine, well sorted sand and an increase in muddy sediment in the outer shelf. Occasional areas of slightly gravelly sand grading to gravelly sand have also been identified in the outer shelf. Such an area has been identified in the most northerly region of the study area (see Figure 5-1). There is a general trend across the study area of a decrease in grain size with increase in water depth (BGS, 2004).

Gravelly seabed sediment in this study area is considered to be sourced from the underlying moraine basins. Mud and fine sandy sediment distributed in the outer shelf of the study area is typical of estuarine areas such as the Moray Firth, sheltered from tidal and wave currents. Studies of surface sediment around the Southern Trench area have identified boulders ranging from 5-10cm up to 2-25cm in size. DTI 2003 survey photographs indicate that while cobbles and boulders litter the plateau of the Southern Trench, bed rock outcropping is exposed on the trench slopes. Within the enclosed trench sediments are fine grained and well to moderately sorted (see Section 1.1.1.2; BGS, 2004).

Admiralty charts also indicate that rocky outcrops are present in the nearshore approach to Fraserburgh.

Mobile Bedforms

The Moray Firth, as an estuarine environment, is a relatively low energy area.

Seabed topography across the estuary is gently dipping with subtle undulations. There are few examples of mobile bedforms identified throughout the region.

Sand waves are the sole mobile bedforms recorded within the study area (see Figure 5-1). Low, gently undulating sand waves have been indentified near land at both the northern and southern areas of the estuary mouth. An area of 23km^2 of sand waves has been identified in the study area, and is shown on Figure 5-1. Sand waves are representative of an increase in current velocity within this area (DTI, 2004a); Talisman Energy (UK) Limited, 2005).

Summary

The main area that represents difficulty for the project is the Southern Trench (Figure 6-1), where seabed topography range from horizontal to up to 22 degree to 50 degree slopes forming the sides of the enclosed trench and gravels, boulders and bedrock are exposed at surface. Also of concern is the sandwave field towards the south-west of the study area (Figure 5-1), which, if the sandwaves are mobile, could present issues for maintenance of cable burial depths.

Although mean seabed sediment thickness ranges from 15 to 80 m in the North Sea, location specific data is unavailable. Seabed sediments overlay moraines that cover approximately 40% of the study area; there may be some difficulty in achieving cable burial of up to 2m depending on actual sediment thickness in the area. This should be taken into consideration during project design.

5.1.2 Human and Biological Constraints

5.1.2.1 Nature Conservation Designations

There are 2 SACs, 3 SPAs/Ramsar sites and 7 SSSIs with marine features in the study area. These sites are shown in Figure 5-2 and listed in Appendix B.3. In addition, four habitat types listed in Annex I of the EC Habitats Directive have been identified as known to occur in UK offshore waters, for which selection of SAC will be considered. These Potential Annex I Habitats (pAIHs) are listed below:

- Sandbanks that are slightly covered by seawater all the time
- Reefs (stony, bedrock or biogenic)
- Submarine structures made by leaking gases
- Submerged or partially submerged sea caves

PAIH sites have been identified as having the potential to contain these habitats, but for most such areas no survey data currently exists to prove or disprove that protected habitats exist within them. The Joint Nature Conservation Committee (JNCC) and Scottish Natural Heritage (SNH) take the approach that all pAIH sites are treated as designated until the developer has survey data that can demonstrate otherwise. Furthermore, habitats may occur outside these areas, which qualify for designation. Sites identified as pAIH have also been mapped in Figure 5-2.

There are a number of sites designated for mobile species such as marine mammals within the overall study area. These include the Moray Firth SAC, which contains the northernmost population of bottlenose dolphin in the UK, and is about 6.5 km west of the study area. Dornoch and Morrich More SAC

contains common seals and is located 43 km to the west. Mammals from both these sites may therefore be present in the study area.

The Whale and Dolphin Conservation Society (WDCS) have, in a recent study, identified areas of critical habitat for cetaceans in UK waters and assessed the potential of Marine Protected Areas (MPAs) as a conservation tool (WDCS, 2010). The study made the recommendations that the south coast of the Outer Moray Firth and the Aberdeenshire coast should be considered as future MPAs for the protection of harbour porpoise and white-beaked dolphins respectively. The response of the authorities to these proposals and further work by WDCS in relation to the Moray region should be closely followed to assess any potential implications for the project. The areas of critical habitat in the Moray Firth identified by WDCS are discussed in Section 5.1.2.2 below.

There are a number of sites of international importance along the east highland coast of Scotland. The River Spey SAC is located within the study area. The River supports one of the largest populations of Atlantic salmon in Scotland. The sites SAC designation is also in part for the presence of sea lamprey, where the species is at its northern limit in the UK.

Three Special Protection Areas (SPAs) are located within the study area. The sites are; Moray and Nairn Coast, which is also a Ramsar site and includes part of the RSPB Culbin Sands nature reserve; Troup, Pennan and Lion Heads, of which Troup Head is also an RSPB reserve; and Loch of Strathbeg, a Ramsar and RSPB reserve site. These sites support both breeding and overwintering seabird and waterbird populations of European importance.

There are seven Sites of Special Scientific Interest along the coastline of the study area. Each of these sites is either partially or fully designated for geological importance, which may present an issue for cable landing in these areas.

5.1.2.2 Sensitive Species

Fish

The study area is within a migratory route for salmonids, namely Atlantic salmon (*Salmo salar*) and sea trout (*Salmo trutta*). Salmon and sea trout are anadromous fish species, migrating upstream from the sea to breed. A number of known salmon rivers discharge into the Moray Firth, including the River Spey and River Deveron, which flow into the study area. Salmon and sea trout migrating to and from their freshwater breeding sites therefore may pass over cable routes in the region.

Atlantic salmon are of particular significance given that they are protected under the EC Habitats Directive and are a qualifying feature of the River Spey SAC, along with the sea lamprey (*Petromyzon marinus*). The Spey is an important salmon river and the annual salmon catch on the river in recent years has been close to 10,000 fish (Trout and Salmon Fishing website). The Deveron is also an important salmon and sea trout river with annual catches of around 2,000 salmon and 1,500 sea trout.

Potential impacts of the project could include sediment re-suspension during installation and the effect of electromagnetic field (EMF) on navigation/migration of potentially sensitive fish species in the vicinity of the cable during operation. Species sensitive to EMF includes elasmobranchs, agnathans (sea and river

lampreys) and some teleosts (e.g. flatfish, European eel, mackerel and salmonids) which use the geomagnetic field in navigation.

The environmental impact of EMF on population or ecosystem level is uncertain (OSPAR, 2009); however there is sufficient evidence that significant effects cannot be excluded (Gill and Taylor, 2001; Poleo *et al*., 2001; Gill et al., 2005; Klaustrup, 2006).

There are differences between the electric and magnetic fields produced by AC and DC systems (Britned, 2004). The key difference between AC and DC magnetic fields is that the magnitude and direction of a DC magnetic field at any point is fixed and does not vary with time. The magnetic field from a DC cable will cause a local modulation of the Earth's magnetic field, increasing or diminishing it, depending on their relative orientations. Conversely the magnetic field around an AC cable is constantly changing at the same frequency as the alternating current that is producing it, which means that the modulation it produces in the Earth's field will also be constantly variable. In the case of both AC and DC cables, the magnitude of the field decreases with distance away from the cables.

The main electric field induced in the seawater by a DC cable is similar to that produced by seawater passing through the Earth's geo-magnetic field and would appear to receptors as a static modulation of the Earth's field at the cable's location. The electric field induced by an AC cable in the surrounding water will be more complex in that induction will occur both by virtue of the water moving through the field and also, more significantly by the fluctuation of the magnetic field at the frequency of the alternating current on the cable.

Any potential impact of EMF will be determined by the specific configuration of the cable and will need to be assessed in the EIA accompanying the project's consents. If the cable pairs are bundled together, impacts will be minimized, and this applies regardless of the separation between bundled pairs, as the fields from the two cables in the bundle cancel each other out. A scientifically robust approach to EMF impacts would need to be taken in the EIA, as there are a number of salmon migratory rivers that are also SAC designated in the coast adjacent to the Moray Firth. This is also an issue that has had some attention recently, and it has been reported in the media that the Atlantic Salmon Trust, the Association of Salmon Fishery Boards, the Salmon and Trout Association and Sea Trout Group have sent a joint submission to the UK Government, asking for a ban on any future large-scale offshore renewable energy projects until further work has been undertaken on EMF impacts on commercially important migratory fish species, such as salmon.

The Centre for Environment, Fisheries and Aquaculture Sciences (CEFAS) has produced maps showing fairly low resolution information on fish spawning and nursery areas around the UK (Coull *et al.* 1998). Most commercially important UK fish species are pelagic spawners, i.e. they release their eggs within the water column. An important exception is the herring, which lays its eggs on the seabed, in specific gravelly substrate types. Herring are, for this reason, particularly sensitive to seabed developments, and the consenting authorities may require certain mitigation measures such as undertaking cable installation activities outside of the key spawning period, or routing the cable outside of the spawning area.

The seabed around Peterhead is a known herring spawning area, shown in Figure 5-3. Routes landing at Fraserburgh Beach, Fraserburgh Golf Carpark,

Philorth, Inverallochy, Rattray and St Fergus pass through this spawning area. The available information indicates that spawning occurs in the Moray area between August and September.

Sand eel also lay eggs on the seabed, throughout the Moray Firth region. The available information indicates that sandeel spawn in this area between November and February. Sandeels spawning is not as sensitive to seabed disturbing activities as this species spawns over much more extensive areas of sandy sediment. All route options pass through this spawning area.

The spawning areas identified in the CEFAS data are very crude and it is likely that herring will spawn in more discrete areas within these wider areas. Consultation with CEFAS and/or survey information will be required to confirm the location of spawning areas. Seasonal restrictions may be required to minimise impacts on this species. Possible impacts on marine fish and their spawning/nursery areas would need to be addressed in the project EIA.

Shellfish

Freshwater pearl mussels (*Margaritifera margaritifera*) are a qualifying feature for the River Spey SAC. The species is globally threatened and Scotland is a stronghold for the species, supporting many of the world's most important populations (SNH, 2009a). Pearl mussels are vulnerable to disturbance from engineering work in rivers and water pollution. SEPA and SNH have stated that engineering work must not affect the species and recommend that those planning works which may have an impact on the species contact them for advice (SNH, 2009a).

Marine mammals

The seas around Scotland are among the richest in Europe for marine mammals. Scotland holds about 70% of Europe's population of grey seals and about 35% of the EC population of common seals, emphasising the important role that these mammals have in Scottish waters. In addition, over twenty species of whales, dolphins and porpoise can be seen around the Scottish coastline, including common dolphins, minke whales and killer whales.

The Moray Firth supports the only known resident population of bottlenose dolphin, *Tursiops truncatus* in the North Sea, and is designated as a SAC for this reason. The population is estimated to be around 130 individuals (Wilson *et al*., 1999). Bottlenose dolphins are present in the Inner Moray Firth all year round and the population has, over recent years, expanded its range to include the south coast of the Outer Moray Firth and the north east Aberdeenshire coast (WDCS, 2010). Within the study area Lossiemouth and Spey Bay have been identified as important foraging areas for the species (WDCS, 2010).

A recent review has also identified the south coast of the Outer Moray Firth as critical habitat for harbour porpoise and minke whale (WDCS, 2010).

Possible impacts on marine mammals would take the form of disturbance during installation and EMF impacts during operation. The Environmental Report would need to fully assess these possible impacts.

Birds

Three Special Protection Areas (SPAs) are located within the study area. These are listed in Appendix B.3 and shown in Figure 5-2. These sites support

both breeding and overwintering seabird and waterbird populations of European importance.

It is likely that the timing of cable installation in these regions would be restricted by the consenting authorities. However, the marine route options identified later in the study avoid these SPA sites. For sites designated for both breeding and wintering birds (Moray and Nairn Coast SPA and Loch of Strathbeg SPA) there may only be a narrow window for installation in late summer. Exact timings would be determined closer to the time of installation as they will depend on the breeding and wintering periods for that particular year. In addition it is likely that bird surveys would need to be undertaken to inform the project ER, and post installation monitoring may also be required.

5.1.2.3 Shipping and Navigation

A number of major ports and smaller harbours are located within the study area. To the west are the ports of Cromarty Firth and Inverness and to the east Fraserburgh and Peterhead. In 2002, Peterhead handled 1.34 million tonnes of foreign and domestic traffic (DTI 2004b).

Nearshore areas experience predominantly low (<1,000 vessels per annum) to moderate (1,000-5,000 vessels) shipping densities (DTI, 2004b). Coastal areas around Peterhead experience relatively high shipping densities (5,000-20,000) primarily associated with the movement of support vessels for the North Sea oil industry (DTI, 2004b). Offshore areas experience moderate to low shipping density (DETR, 1999).

The Fraserburgh Beach, Fraserburgh Golf Carpark and Philorth routes all pass through the Fraserburgh harbour authority administrative area. The harbour authority is likely to have concerns with the operational issues surrounding the cable lay within the harbour area.

The Portgordon route passes within 0.5 km of the Buckie harbour authority administrative area. The Inverboyndie route passes 2.5 km to the west of the Macduff harbour administrative area.

There are six designated anchorage areas within the study area. The routes which pass closest to anchorage areas are; Cullen (0.49 km), Fraserburgh Beach (0.36 km) and Fraserburgh Carpark (0.46 km).

5.1.2.4 Commercial Aggregate Extraction

Aggregate is the collective term for sand, gravel and crushed rock. There are currently no licensed aggregate extraction areas within the study area. In future applications may be submitted to The Crown Estate and licensing should be closely tracked during project development.

5.1.2.5 Disposal Sites

During the 1990s, the disposal of most types of waste (e.g. sewage sludge, radioactive waste, industrial waste) at sea was prohibited and therefore active sites are used only for the disposal of dredged material from ports, navigation channels and coastal engineering projects.

There are three current disposal sites in the vicinity of the proposed route corridors (shown in Figure 5-4). Both route corridor options landing at

Inverallochy pass across the edge of a spoil dumping ground. There are no closed disposal sites within the vicinity of the route corridors.

A number of sites lie just outside the study area. To the west is a current disposal site for dredged material. To the south of Peterhead there are two sites, one current and one closed.

There are no known munitions disposal sites within the vicinity of the proposed route corridors or within the wider Moray Firth area.

5.1.2.6 Oil and Gas

The study area contains twelve individual wells but no platforms. Oil and gas infrastructure is shown in Figure 5-4. The Beatrice hydrocarbon field, to the north west of the study area, contains several platforms. In addition, there are a number of pipelines exporting gas, mixed hydrocarbons and chemicals through the study area back to terminals on the coast. Pipelines are discussed below in Section 5.1.2.7.

Two operators, Caithness Petroleum Limited and PA Resources UK Limited have applied to Department of Energy and Climate Change (DECC) to undertake 2D seismic surveying the Moray Firth as part of exploration work.

The closest survey blocks to the cable route options are; 12/21 which overlaps with the Beatrice windfarm zone, and is at the closest point 8.9 km north west of the cable connection point to the Moray Firth Round 3 zone and; 17/4b which is approximately 5.8 km west of the western boundary of the study area.

If consent is granted surveying may take place in September 2011, however, the proposals have already been subject to consenting delays. The EIA should consider the potential for the impacts of seismic survey to act in combination with the impacts of cable installation and/or operation on sensitive species.

5.1.2.7 Cables and Pipelines

The cables and pipelines which run through the study area are shown in Figure 5-4 and those crossed by the proposed routes are listed in Table 5-1. The SHEFA-2 telecommunications cable runs from the Faroe Islands via Shetland and Orkney through the centre of the study area, landing at Banff on the Scottish mainland. The route option landing at Rattray and one of the two routes landing at Inverallochy cross the SHEFA-2 cable approximately 12km to the south east of the windfarm DC converter station. The route options landing at Fraserburgh Beach, Fraserburgh Golf Carpark and Philorth, and the second route landing at Inverallochy cross the SHEFA-2 cable further south, 18km north of the coastline.

A Shetland High Voltage Direct Current (HVDC) connection is planned and consented by Scottish Hydro Electric Transmission Limited (SHETL) to provide connection between the GB Transmission System and renewable energy projects on Shetland. The consented route runs from converter stations at Upper Kergord, Shetland south into the Moray Firth, through the study area to Blackhillock, near Leith on the Scottish mainland (Scottish and Southern Energy website).

Eleven pipelines land within the study area at St. Fergus, to the north of Peterhead. The route option landing at St Fergus crosses these pipelines,

which transport gas from North Sea locations, mixed hydrocarbons and chemicals.

To the northwest of the study area two pipelines run southwest from the Beatrice field to the mainland.

Table 5-1: Summary of Marine Cable and Pipeline Crossings

Route	Service / Fluid	Name/Location	Operator	Cable Route
Faroe Islands – Banff (Aberdeenshire)	Telecoms	SHEFA-2	Faroese Telecom	Fraserburgh Beach, Fraserburgh Golf Carpark, Philorth, Inverallochy, Rattray
Beryl A to St Fergus Sage	Gas	PL762	Exxon Mobil	St Fergus
Atlantic field to St Fergus	Chemical	PL2031 (WAGES MEG)	BG	St Fergus
Atlantic field to St Fergus	Mixed hydrocarbons	PL2029 (WAGES EXPORT)	BG	St Fergus
Britannia to St Fergus Gas	Gas	PL1270	Britannia Operator Ltd	St Fergus
Brent A to St Fergus	Gas	PL2	Shell UK	St Fergus
Goldeneye to St Fergus	unknown	PL1978	Shell UK	St Fergus
St Fergus to Goldeneye	unknown	PL1979	Shell UK	St Fergus
Frigg to St Fergus 1 South	Gas	PL65	Total	St Fergus
Frigg to St Fergus 2 South	Gas	PL75	Total	St Fergus
Miller to St Fergus	Gas	PL720	BP Exploration	St Fergus
Fulmar A to St Fergus	Gas	PL208	Shell UK	St Fergus

5.1.2.8 Wrecks and Archaeology

Areas containing aggregations of charted wrecks, as shown in Figure 5-5, have been avoided during cable routing. However, it is not feasible at this stage of the project to design a cable route that avoids all wrecks, particularly as the location of charted wrecks may not be accurate. In addition, navigationally insignificant wrecks may not be charted and presently unknown wrecks and obstructions are likely to exist on the seabed. Therefore, the position of charted and uncharted wrecks within the cable corridors will need to be identified during cable route survey.

Whilst none of the routes overlap with the exclusion zone of any protected wrecks the view of Historic Scotland will need to be obtained as a consultee for a Marine Licence. It is anticipated that an archaeological assessment would be carried out on the survey data collected during the cable route survey. A protocol for dealing with unexpected archaeological finds during installation will need to be put in place with Historic Scotland.

5.1.2.9 Fishing Activities

There are fisheries for pelagic, demersal, and anadromous fish (salmon and trout) within the region. There are also important shellfisheries for *Nephrops,* crab and scallops.

Nephrops is the most important shellfish species exploited in the SEA 5 area (Chapman, 2004), which covers the sea area from the southeast of the Scottish mainland north to Orkney and Shetland. The Moray Firth holds one of the main exploited stocks, where the species is fished mainly by trawling.

Other commercially exploited shellfish in the Firth include lobster, whelks, razor fish, cockles and mussels (Moray Firth Partnership Fisheries Topic Group paper). There are no current Regulating or Several Orders in place to control fisheries in the study area (Susan Ewart, Marine Scotland, pers comm.). There are no active fish farms in the Moray Firth (SNH, 2009b).

In autumn, herring spawning off Shetland, Orkney and the north east coast are targeted primarily by purse seine and pelagic trawl fisheries.

A recent meeting has been held with the fishing industry to discuss the project. They have indicated that a prawn fishery operates during the summer to the north of the Southern Trench and squid fishing occurs along the coast within the study area from June to September. It has been noted that the squid stock is mobile and a more precise location cannot be specified. Fishing areas in the study area are shown on Figure 5-4.

Trawling activity is an important consideration in assessing cable risks and determining optimal burial depths. Early consultation with the fishing industry is essential to ensure both cable protection and that their concerns are understood and addressed during project development.

5.1.2.10 Military Activities and Exercise Areas

The majority of the study area is used by the Ministry of Defence (MOD) as Practice and Exercise Areas (PEXA). These areas fall within the Northern MDA RAF Air Combat Training Area. Details of the PEXA areas are given in Table 5-2 and firing areas are shown in Figure 5-4.

Table 5-2: MoD Marine Practise and Exercise Areas

Name	Code	Activity	Department
Northern MDA	D712D	Air combat training	RAF
Moray Firth	D807	Live firing, bombing and sonobuoy training from the surface to 1,500ft altitude (MORL, 2010)	RAF
Moray Firth (South)	D809 (South)	Air flying, gunnery and subsurface exercises at altitudes up to 55,000ft (MORL, 2010)	RAF

The MOD will need to be consulted regarding a route through their practice areas. Providing the cable installation operation does not conflict with MOD use of the area they are likely to have no objections to cable installation, provided they are kept informed of the works during the installation phase. However, depending on the specific use of a given exercise area they may have objections and the nature of any such objections would need to be determined through consultation with the MOD.

5.2 ONSHORE ENVIRONMENT

5.2.1 Physical Environmental Constraints

5.2.1.1 General Overview

The land study area covers an area of approximately 217,744 hectares and lies within the jurisdiction of both Moray and Aberdeenshire Council. The settlement of Rothes is located to the most western extent, Peterhead to the east, the North Sea to the north and part of the settlement of Huntly to the south. Other larger settlements within the study area include Fraserburgh, Keith and Buckie.

The land study area is well served by a number of main roads including the A96, A98, A97, A90, A950, A947, A981, and the A948. Several smaller 'B' roads also connect many of the smaller villages within the study area.

The topography of the land study area is mainly flat and largely comprises small settlements and agricultural land with scattered pockets of forest.

International, national and regional environmental constraints within the study area are presented on Figure 5-6 and described in the following sections.

5.2.1.2 Natural Resources

In terms of statutory sites designated for their geological / geomorphological interest (either in full or in part) within the land study area, there are two Special Areas of Conservation (SACs) and 17 Sites of Special Scientific Interest

(SSSIs). These are listed in Appendix A3 along with their category and reason for designation, and are presented on Figure 5-6.

Those sites marked with a * are not only designated for their geological / geomorphological interest, but also for their ecological interest. Therefore, these sites are also included in Appendix A3.

Where possible, the cable route should avoid any direct or indirect impacts to these statutory designated sites. Direct impacts (e.g. trenching the cables through a statutory designated site) may be considered temporary, as the excavation would be reinstated once the cables have been laid in the ground. Indirect impacts (e.g. vibration affecting habitats for which any given statutory site is designated) may occur during the construction phase, although it is assumed that these impacts would also be temporary in duration.

For those sites designated at the European level (Special Areas of Conservation), avoidance is preferred to satisfy the determining authority that there would be no likely adverse impact to a European site (therefore avoiding the need for a Habitat Regulations Assessment under the Conservation of Habitats and Species Regulations 2010).

Within the land study area there are three rivers, the River Deveron, the River Isla and the Spey. In addition, there are several lochs including the Loch of Strathbeg and Red Loch.

A network of burns cover the study area including the Burn of Tyner, Burn of Buckie, Burn of Deskford, Burn of Fordyce, Burn of Boyne, Burn of Boyndie, Tore Burn and Conar Burn. There are also several field boundaries within the study area bounded by ditches, many of which contain small ponds.

Other watercourses within the land study area include North Urgie Water, South Urgie Water, Idoch Water, Little Water, the Bog of Minnonie and Water of Tyrie.

It is assumed that if the cable route crosses a water feature, then it would be directionally drilled under the specific feature in question, therefore, limiting impacts on such features.

5.2.2 Biological / human constraints

5.2.2.1 Nature Conservation

In terms of statutory sites designated for their ecological interest within the land study area, there are six Special Protection Areas (SPAs) (three of which are also Ramsar sites), five Special Areas of Conservation (SACs) and 20 Sites of Special Scientific Interest (SSSIs). These are listed in Appendix A.4 along with their category and reason for designation, and are presented on Figure 5-6.

Those sites marked with a * are not only designated for their ecological interest, but also for their geological / geomorphological interest. Therefore, these sites are also included in Appendix A4.

There are no National Nature Reserves within the land study area.

Where possible, the cable route should avoid any direct or indirect impacts to these statutory designated sites. Direct impacts (e.g. trenching the cables through a statutory designated site) may be considered temporary, as the excavation would be reinstated once the cables have been laid in the ground.

Indirect impacts (e.g. increased noise levels affecting species for which any given statutory site is designated) may occur during the construction phase, although it is assumed that these impacts would also be temporary in duration.

For those sites designated at the European level (Special Areas of Conservation and Special Protection Areas), avoidance is preferred to satisfy the determining authority that there would be no likely adverse impact to a European site (therefore avoiding the need for a Habitat Regulations Assessment under the Conservation of Habitats and Species Regulations 2010).

5.2.2.2 Historic Environment

This area of the Scottish coast has been occupied since the Pre-historic period and this is reflected in the range of designated heritage features present with the land study area.

The Pre-historic features reflect the settlement and agricultural exploitation of the area throughout the period. They include cairns, stone circles and standing stones (as evidence of rituals and ceremonies) as well as hillforts and enclosures.

There is evidence of the Roman campaigns in northern Scotland while castles testify to the Medieval and later rule of the area. The historic towns stand to powerfully illustrate the social and economic development of the area.

The military archaeology of the Second World War is well represented, particularly by the Rattray Line on the coast to the north of Peterhead.

Where possible, the cable route should avoid any direct or indirect impact to individually designated features. This should be possible by micro-siting the cable within any given corridor (the smaller bending radius of the HVDC Light cables would facilitate this if required). Settlements should also be avoided where possible. As Conservation Areas are generally designated in and around settlements, avoiding settlements should, in turn, avoid Conservation Areas.

Scheduled Monuments

There are 148 Scheduled Monuments scattered throughout the land study area. These are listed in Appendix A5, and are presented on Figure 5-6.

Listed Buildings

There are 2,986 Listed Buildings within the land study area which are mainly situated within the various settlements, of which 135 are Category A, 1,189 are Category B and 1,662 Category C(S). These are listed in Appendix A6, and are presented on Figure 5-6.

Conservation Areas

There are 30 Conservation Areas scattered throughout the land study area. These are listed in Appendix A7, and are presented on Figure 5-6.

Registered Battlefields

There are no Registered Battlefields in Scotland. Historic Scotland is currently undertaking a consultation exercise with interested parties to designate such

sites.

Historic Gardens and Designed Landscapes

There are six Historic Gardens and Designed Landscapes within the land study area of which three are located within Moray and three are located within Aberdeenshire. These are listed in Appendix A8, and are presented on Figure 5-6.

5.2.2.3 Landscape

Scotland's landscapes have been mapped by Scottish Natural Heritage (SNH) in partnership with local authorities and other agencies under their programme of Landscape Character Assessment. The work so far undertaken by SNH provides a national overview of Scotland's landscapes and a series of specific landscape character studies undertaken at the county level. The landscape of the land study area is covered by the following SNH documents:

- National Heritage Zones: A National Assessment of Scotland's Landscapes 2002
- No 37 Banff and Buchan Landscape Character Assessment 1997
- No 101 Moray and Nairn Landscape Character Assessment 1998
- No 102 South and Central Aberdeenshire Landscape Character Assessment 1998

With reference to the National Heritage Zone, the land study area comprises the political areas of Moray and Aberdeenshire. For the purposes of the landscape description, the land study area has been divided into west and east with the former area covered by a combination of two National Character Zones (Zone 12: North East Glens and Zone 9: North East Coast Plain) and the latter by just Zone 9: North East Coast Plain.

Western Study Area – East Moray

A narrow strip at the north edge of this area is covered by National Heritage Zone 9: North East Coast Plain and comprises coastal landscape types with the strath, valley and upland landscape types of the hinterland to the south, covered by National Heritage Zone 12: North East Glens. The Moray and Nairn Landscape Character Assessment further divides this area into eight Landscape Character Areas (LCAs). The coastal landform along the Moray Firth coast is covered by the Soft Coastal Shore LCA between Portgordon and Lossiemouth in the west and the Hard Coastal Shore LCA east of Portgordon. The former is characterised by the large open Spey Bay and the mouth of the River Spey with saltmarsh, dunes and beaches forming the main features. This is in contrast to the latter area which is characterised by rocky cliffs, coves and promontories. The coastal hinterland east of Lossiemouth is covered by the Coastal Forest LCA with the Coastal Farmland LCA beyond it and extending to the east. The former is characterised by dense, dark belts of coniferous plantations which form a barrier to views. The latter is characterised by a gently undulating plain and is the main area for communication routes and the development of settlements. The Coastal Farmland LCA forms the transition between the coast in the north and the lower foothills to the south within National Heritage Zone 12: North East Glens.

The lower foothills are covered by the Rolling Farmland and Forest and the Upland Moorland and Forestry LCAs to the west of the River Spey and the Upland Farming LCA to the east. The River Spey valley is covered by the Broad Farmed Valley LCA. The areas to the west of the River Spey are characterised by an intimate gently rolling landform with a balanced mix of predominantly open pasture fields and mixed woodland which give way to a relatively remote, open large scale area of broad, rounded hills and upland plateau. The Upland Farming LCA to the east of the River Spey extends into LCA 8: Knock Hill and Arberchirder, within the eastern part of the study area of North Aberdeenshire. The Upland Farming LCA is characterised by gently undulating slopes comprising open semi-improved pasture and moorland interspersed with blocks of coniferous plantations. The Broad Farmed Valley LCA is characterised by the sinuous River Spey dominating the broad floodplain and is contained by the rolling hills of the adjacent LCAs to the west and east. Linear development along the valley floor is very much in evidence comprising planned villages, distilleries and large estates.

Western Study Area – Central Aberdeenshire

This area forms the transition landscape within National Heritage Zone 12: North East Glens similar to that previously described for East Moray. The South and Central Aberdeenshire Landscape Character Assessment divides this area into three landscape character types (LCTs) / areas; Farmed Moorland Edge LCT / LCA 14: Daugh of Cainburrow; Straths and Valleys LCT / LCA 21: Deveron and Bogie Straths; Agricultural Heartlands LCT / LCA 4: Northern Rolling Lowlands. The character of LCA 14 is typical of the landscape character found within the bordering Upland Farming LCA of East Moray and the latter two similar to LCA 12: Deveron and Upper Ythan Valleys and LCA 9: Upland Ridges South of the Deveron respectively of North Aberdeenshire, described below.

In East Moray, much of the Broad Farmed Valley LCA of the River Spey is locally designated as an Area of Great Landscape Value. In Central Aberdeenshire, LCA 21: Deveron and Bogie Straths is locally designated as an Area of Landscape Significance.

Eastern Study Area – North Aberdeenshire

This part of the study area is covered by National Heritage Zone 9: East Coast Plain and comprises predominantly agricultural landscape types with coast and river landscape types. The Banff and Buchan Landscape Character Assessment further divides the landscape into 12 LCAs. The coastal landforms along the North Sea edge comprises a mix of rocky promontories with dramatic sandy bays and dunes between Peterhead and Fraserburgh and rocky cliffs, coves and promontories which occur along the Moray Firth Coast between Fraserburgh and Cullen. The coastline is covered by LCA 1: Cliffs of the North and South East Coasts and LCA 2: Dunes and Beaches from Peterhead to Fraserburgh.

The farmed hinterland is divided into the Coastal Farmland and the Agricultural Heartland. The former comprises LCA 3: Western Coastal Farmland; LCA 4: Coastal Farmland East of McDuff; LCA 5: Sandstone Valleys and Ridges of Troup; LCA 6: North-eastern Coastal Farmland and LCA 7: Eastern coastal Agricultural Plain. The latter comprises LCA 8: Knock Hill and Arberchirder; LCA 9: Upland Ridges South of the Deveron; LCA 10: Agricultural Heartland; LCA 11: Wooded estates around Old Deer and LCA 12: Deveron and Upper

Ythan Valleys. The hinterland is gently undulating and punctuated by the River Deveron valley (LCA 12) which flows north across the area from higher ground inland to the south. In parts this river valley is steep sided and almost gorge like. The Tore of Troup near Pennan (LCA 5) on the north coast is a distinctive steep sided valley.

The landform has more or less a horizontal profile with more than two thirds the area being lower than 100m, although locally the coastal cliffs (LCA 1) provide a dramatic vertical contrast. There is little high ground within the area so that even relatively low hills can be locally prominent features such as Mormond Hill (LCA 7) south of Fraserburgh (234m Above Ordnance Datum). There is a relative lack of woodland in the area and where it does occur is in the form of shelterbelts, policy planting or plantations. Visibility across the area is relatively extensive because of the gentle rolling topography, low relief and lack of woodland. However, some inland areas can feel contained particularly so within the steep-sided river valleys (LCA 5 and LCA 12). There is one loch in this area of any notable size and that is Loch of Strathbeg (LCA 2) between Peterhead and Fraserburgh. Settlement is frequent within this area and comprises a range of types with the largest settlements located on the coast. Settlement inland tends to be nucleated and located predominantly on the junction of transport routes e.g. Turiff (LCA 12).

Much of the undeveloped coastline of LCA 1, LCA 2, the adjacent farmed hinterland of LCA 3 and the River Deveron Valley (LCA 12) are locally designated as Areas of Landscape Significance.

There are no National Parks or National Scenic Areas within the land study area.

The routing of the underground cables should, where practically possible avoid the River Spey, River Deveron and the Tore of Troup valleys. However, where this is not practical, the routing should avoid the steeper, deeper sections of these valleys, and the associated blocks of deciduous woodland, particularly where the rivers flow through gorges. Other important characteristic features of these areas which should be avoided include riverside trees and coniferous woodland tops or knolls and individual trees or blocks of woodland within the coastal forest of Moray and within the more diverse pockets of the land study area coastal hinterland associated with the old estates, policy woods (shelter belts, roundels and woods) and small villages.

Within the land study area, it is recognised that the landscape associated with the River Spey, the River Deveron and the coastline of North Aberdeenshire and its hinterland are considered to be particularly valued at the local level and as such every opportunity should be made to not have any permanent above ground features within these areas. This should also apply to the soft and hard coastline areas within Moray. Where permanent above ground features are located, their siting would need to be carefully considered to ensure potential visual effects are minimised, not only on views from settlements and communication routes but also on the setting of historic features and the visual interrelationship between character areas, particularly that between the coastline and its hinterland.

5.2.2.4 Other Features

The Speyside Way runs through the land study area from Spey Bay to Craigellachie. The Speyside Way is one of four official Long Distance Routes

in Scotland. It was first opened in 1981, to run from Spey Bay to Ballindalloch, with a spur to Tomintoul being added in 1990. A northern extension from Spey Bay to Buckie followed in 1999, with the route being further extended from Ballindalloch to Aviemore in April 2000. The route now links the Moray coast with the edge of the Grampian Mountains, generally following the valley of the River Spey.

Any disruption to the users of the Speyside Way should be avoided. If unavoidable, discussions with Moray Council, the Highland Council and the Cairngorms National Park Authority would need to be held in terms of the requirement for temporary diversions.

6 STAGE 3: IDENTIFICATION AND ASSESSMENT OF TRANSMISSION INFRASTRUCTURE OPTIONS

6.1 INTRODUCTION

Based on the information collated and described in Stage 2, 13 potential offshore transmission infrastructure route corridors were initially identified, connecting, via 11 potential landfall sites, with 2 potential substation site end points. The onshore routes comprise 3 primary onshore route corridors which diverge to connect with the potential landfall sites. The 2 km strategic corridors connect into all 11 landfall points, and the more detailed 500 m corridors connect into the eight landfall points that were taken forward to the more detailed assessment, as discussed and agreed at the workshop on 19th November 2010. The potential transmission infrastructure route corridors are shown on Figure 6-3.

The route options have been assessed as 13 individual offshore route corridors, and 3 onshore corridors which branch off to connect into the relevant landfall points.

6.2 LANDFALL SITES

Defining potential landfall sites is critical in the early stages of route feasibility to establish a common point of connection for the marine and land cable routes. Eleven potential landfall sites were identified within the study area,

The key criteria for selection of possible landfall sites are set out in Section 4 (methodology). The key criteria used in the desk based selection of possible landfall sites were a flat sandy beach, and avoidance of rocky areas and cliffs. Sufficient space for the installation infrastructure and good access. Avoidance of the key environmental and engineering concerns that have been applied throughout the route selection were also particularly critical in the selection of landfall sites.

A summary of landfall feasibility is given here, although reference should be made to Table 6.1 for a summary of each landfall, and onward marine and land routes. The landfall site visit accounts are included in Appendix B4.

In summary the most feasible landfall sites were identified as Sandend and Inverallochy which are both fairly straightforward landfall sites which are sandy bays which do not require routing into existing protected sites, and either only require a short HDD, or can be installed in an open cut trench.

Portgordon, Cullen, Inverboyndie, Fraserburgh Golf carpark and Rattray were also considered feasible as landfall sites, although in each case there are concerns with the nearshore approach to the landfall, in the form of an anchorage area (Cullen and Fraserburgh Golf Carpark), rocky seabed and a harbour area (Fraserburgh Golf Carpark), numerous pipeline crossings in (St Fergus), rocky reef pAIH (Portgordon). Cullen, Inverboyndie and Fraserburgh Golf Carpark also require consent from the landowners of a golf course or caravan park, which is a potential project risk.

The least preferred landfall sites were Lossiemouth Forest, Fraserburgh Beach, Philorth and Rattray. The key concerns with these were longer HDD requirements in each case, with the required HDD length at Philorth and Rattray potential discounting the technical feasibility of these landfalls. There were potential access difficulties at Lossiemouth Forest, and limited land use availability for HDD set up at Fraserburgh Beach, as well as the same concerns with the nearshore approach to the other landfalls in Fraserburgh Bay.

Site visits to each of these were undertaken in November 2010. The purpose of the site visit was to assess landfall feasibility from a technical perspective. A full description of each site from the site visit, including photographs, is given in Appendix B4. A summary of the key conclusions from the site visit is given in Table 6-1. The table also identifies which onshore and offshore options connect at each landfall point.

During a project workshop held on 19 November 2010, eight potential landfall sites were taken forward to detailed onshore route development. The three westernmost landfall sites (Lossiemouth Forest, Cullen and Portgordon) were initially discounted as they would entail an indirect route for the overall transmission infrastructure. It was considered unnecessary to consider these landfalls further given that feasible landfalls and route options had been identified on a more direct route. The overall route length to the Peterhead substation via these landfalls were significantly longer than the alternative infrastructure routes, and offered no obvious environmental or technical advantages compared to the landfalls further to the east, which were also considered feasible. Portgordon was brought back into the assessment to allow for potential collaboration with SHETL to be considered.. The landfall at St Fergus was also discounted, on the basis that the marine route option to this site would have very significant technical and environmental constraints due to the need to cross the numerous pipelines connecting into St Fergus. Further details are given in Section 6.3 and Table 6.1.

6.3 KEY OFFSHORE CONSTRAINTS

As stated previously, the key routing criteria in Appendix B.1 has been used to identify possible route options to the identified landfalls. The routing criteria can also form the basis for assessing route feasibility, as they describe, in general terms the generic implications, should it not be possible to avoid certain constraints in the initial route development. Further to this, the project specific issues that influenced route selection and feasibility in the study area have are described below. The feasibility of each marine route option is assessed and ranked in Table 6-1.

1) Fishing activity: fishermen have indicated a preference for cable routes to parallel existing cables in the area, if practicable, in order to minimise the area of seabed taken up by marine cables. The fishermen have also provided data of key fishing areas (Figure 5.4) which have been taken into account in cable route identification.

2) Existing cables: As stated above, routes parallel to existing cables have been identified, if practicable. If cables need to be crossed, a crossing angle as close as possible to 90 degrees has been established, this is highly important when power cables are crossed. A minimum distance from existing cables is likely to be required to allow access for future maintenance and repairs to either the MORL export cable, or the existing

cable. Distances of at least 1km have been maintained between the boundaries of the likely cable installation corridor (500m), also taking into account a 250m survey swathe either side of this within which cables may be laid. Cable route centre-lines have therefore been identified at 1.5km from the existing cable route. However, for both cable routes identified adjacent to existing cable, there are no known constraints which would preclude routing closer to these cables, should this be identified as acceptable following discussion with the cable owners.

3) Existing pipelines. Numerous pipelines come ashore to connect into the terminal at St Fergus. A marine cable crossing these pipelines would have significant engineering, cost and environmental implications. A route which crosses the pipelines has been identified and described, but the issues with crossing these pipelines make this route unfavourable.

4) Seabed bathymetry: A key constraint within the study area is the "Southern Trench" located to the south of the Moray Firth. This is a particularly deep area which is characterised by steep slopes. Slopes above about 6-8 degrees can create issues for deployment of the cable installation tool and maintenance of cable burial depths. C-map soundings data was interpolated to give a better indication of slope profiles compared to the available Seazone data for the area, and routes avoiding the areas of greatest slopes as identified in the data were identified. The interpolated seabed slope data is shown on Figure 6-1.

5) Sandwave fields: Publicly available data indicates that there is a sandwave field to the south-east of the study area. Sandwave fields are likely to be associated with mobile seabed, and steep slopes both of which raise concerns regarding installation and maintenance of burial depths. This area has therefore been avoided by the relevant marine route.

6) Protected sites: Routes and landfalls have been identified as much as possible which avoid the existing protected sites (SSSI, SPA, SAC) in the coastal region. Potential Annex I Habitat (pAIH) has also been avoided where possible.

Route options, which avoid as far as practical the constraints discussed above, have been identified which connect into each of the identified landfalls. A separate route has been identified between the offshore converter site (provided by MORL), and each of the feasible landfalls. Each of these routes is described below, and shown in Figures 5-1 – 5-5. The key constraints that have influenced marine route selection are shown in Figure 6-2.

6.4 KEY ONSHORE CONSTRAINTS

6.4.1 Substations

Both of the site options identified could accommodate two substations, and both are within 1km of the existing substation at Peterhead Power Station. Therefore, both sites are situated in an area that has experienced similar development over recent years, which could benefit the planning application process. Furthermore, the proximity of Peterhead Power Station suggests that the surrounding road infrastructure that already exists would be able to accommodate large and / or heavy plant items (i.e. the equipment required for the substations).

Both site options are also located away from / outwith any environmental constraints (the nearest statutory designated site being Buchan Ness to Collieston Coast Special Protection Area, approximately 450 m to the east at the nearest point), therefore ensuring there would be no direct physical impacts on the environmental constraints identified to date. However, there are two listed buildings and a SPA within 1 km of both site options, so further assessment would be required to determine the extent of any visual impacts on these features (refer to Section 8).

For Option 1, both substation sites are located within close proximity to the existing substation at Peterhead Power Station within an adjoining agricultural area (the southern boundary of the southern site is approximately 170 m to the north). The construction of the existing substation has resulted in the agricultural area being partitioned previously to accommodate this development and the remaining footprint of the adjoining fields provides a suitable accommodation area for the proposed substations.

It is a reasonable assumption that the planning requirements for the existing substation at Peterhead Power Station would be similar to that required for the proposed substations as the projected substation footprint and visual impact of the building would probably be similar.

The proximity of local residential accommodation has been considered also and the locations of the proposed substations could be integrated into the environment whilst maintaining a reasonable distance from residential housing. There is an individual dwelling located between the Option 1 sites, and there is another individual dwelling located adjacent to the northern boundary of the northern site. However, both sites are large enough to ensure that the substations would be located away from these properties. (approximately 100 m at the nearest point).

The close proximity of the proposed substations to the existing substation at Peterhead Power Station also presents the shortest overhead cable route should they be necessary to interface the proposed substations with the existing substation, whilst minimising the local impact of this requirement.

For Option 2, both sites are located adjacent to the Upperton Industrial Estate within an adjoining agricultural area with a level topography, and are at a reasonable distance from local residential accommodation, the nearest property being approximately 50 m from the southern boundary of the northern site. However, both sites are large enough to ensure that the substations would be located away from this property (approximately 300 m at the nearest point).

The potential for planning consent approval to extend the existing Upperton Industrial Estate into this agricultural area to accommodate the proposed substations would appear to be a reasonable extension of use to the industrial estate.

An existing high voltage overhead pylon cable route runs in close proximity to the selected area and extends onto the existing substation at Peterhead Power Station. The close proximity of this high voltage overhead pylon cable route to the proposed substations presents the opportunity of minimising the impact of this development locally by shadowing this route with new overhead cables.

6.4.2 Underground Cables

The primary aim was to establish the feasibility of routing the cables within 500m corridors from the existing substation at Peterhead Power Station to the possible landfall sites along the coastline. The onshore cable corridors were determined based on the minimum possible (direct) route length whilst taking into account key routing constraints. The key issues that have influenced onshore corridor routing include:

1) Avoidance of sites protected at the International / National / Regional level. Where impact was deemed to be unavoidable, the shortest exit point from such a designated site was considered.

2) Avoidance of sites protected at the District / Local level and undesignated features. Areas such as woodland can harbour protected species, as well as fulfilling significant role in characterising the landscape and amenity. Such areas have been avoided wherever practical to minimise associated impacts.

3) Adverse gradients: Steep gradients can be unstable and present challenges during construction and have been avoided where feasible. However, the study area is considered to be generally flat.

4) Transport infrastructure: Constructing a cable across transportation routes requires road works and can cause disruption to users. Crossings of transport infrastructure have therefore been minimised. Alignments following linear features such as roads allow ready access to construction areas and have good access to the wider road network. Additionally, linear features tend to be in areas of already disrupted habitats, ecology and hydrology.

5) Watercourses: Crossing of a watercourse can cause environmental disturbance and involves relatively complex and slow construction. Access for maintenance and repair is also relatively complex.

6) Urban environments: Urban areas are highly constrained with existing buried and overhead services and other infrastructure.

7) Land use: Avoid residential property and associated land premium.

8) Property boundaries: Following property boundaries such as the edge of fields helps to minimise the disruption to landowners during construction, maintenance and decommissioning.

Potential route corridor options (up to 2 km width) around a nominal centre line were initially defined, connecting the 11 initial landfall sites to the existing substation at Peterhead Power Station. The corridors were widened or narrowed in response to environmental constraints on the ground. These corridors, together with the potential substation sites, are presented on Figure 6-3.

Through more detailed environmental investigation, the potential 2km onshore corridors were then refined around a nominal centreline, and 0.5km corridors were defined within them, connecting the eight preferred landfall sites to the existing substation at Peterhead Power Station. The potential substation sites were also assessed in relation to the 0.5km corridors. These refined (preferred) corridors, and the refined (preferred) substation sites, are presented on Figure 6-4.

6.4.3 Overhead Lines

When designing routes for overhead power lines, a principle objective is the minimisation of visual impact. Based on the criteria outlined in the Holford Rules, overhead lines should:

- Avoid altogether, if possible, the major areas of highest amenity value, by so planning the general route of the line in the first place, even if the total mileage is somewhat increased in consequence.
- Avoid smaller areas of high amenity value, or scientific interest by deviation: provided that this can be done without using too many angle towers, i.e. the more massive structures which are used when lines change direction.
- Other things being equal, choose the most direct line, with no sharp changes of direction and thus with few angle towers.
- Choose tree and hill backgrounds in preference to sky backgrounds, wherever possible; and where the line has to cross a ridge, secure this opaque background as long as possible and cross obliquely when a dip in the ridge provides an opportunity. Where it does not, cross directly, preferably between belts of trees.
- Prefer moderately open valleys with woods where the apparent height of towers will be reduced, and views of the line will be broken by trees.
- In country which is flat and sparsely planted, keep the high voltage lines as far as possible independent of smaller lines, converging routes, distribution poles and other masts, wires and cables, so as to avoid a concatenation or 'wirescape'.
- Approach urban areas through industrial zones, where they exist; and when pleasant residential and recreational land intervenes between the approach line and the substation, go carefully into the comparative costs of undergrounding, for lines other than those of the highest voltage.

In light of the above guidance, one of the main issues with installing an overhead line within any of the three defined 500m corridors would be the impact on the Areas of Landscape Significance. For example, Corridor 3: Peterhead to Portgordon, Sandend and Inverboyndie crosses through a significant Area of Landscape Significance which is effectively unavoidable. However, installing an overhead line within this corridor would have less of an impact upon watercourses and the extensive drainage network as overhead lines would avoid the need to work in an around such features. Construction of overhead cables would also minimise the number and extent of service diversions and any associated potential impacts and disruption.

6.5 Transmission Infrastructure Routes

The criteria for ranking the offshore technical and environmental/permitting risk is as described in Table 4.2 in the methodology section. The transmission scheme options that have been identified and assessed are described in Table 6.1 below, which describes the key criteria influencing route feasibility in terms of environmental / permitting issue and technical issues, and ranks the routes on these criteria based on the risk assessment criteria in the methodology

section.

The onshore cable route corridors have been assessed using the Risk Assessment approach described in Section 4, which assigns a value to each 500 m corridor based on the number of environmental constraints and features within the corridor.

The onshore cable route corridors have been assessed using the ERA approach described in Section 4, which assigns a value to each 500 m corridor based on the number of environmental constraints and features within the corridor. Further detail on the results of the ERA is presented in Appendix A.9. This approach has not been applied to the land route options connecting with Lossiemouth Forest, Cullen (on the basis of excessive overall scheme route lengths) and St Fergus (on the basis of the extremely challenging marine route to this landfall causing this option to be discounted). These scheme options are shown in grey in Table 6.1.

Table 6-1: Risk assessment of potential infrastructure options

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
Option A	Marine Route 1	pAIH (sandy sediment <20 m) at landfall approach. Likely to only have a minimal impact on consent risk, as this habitat type is likely to recover quickly from cable installation disturbance.	2	Crossing with SHETL cable	2
	Landfall: Lossiemouth Forest	Landfall within SSSI for (biological and geological). Large vegetated shingle complex which supports a rich flora. The site includes the finest active shingle ridges in Scotland.	2	The site is potentially technically viable. However, it was difficult to confirm viability as full access to the beach was not possible during the site visit, due to a lack of public vehicular tracks. Access is also, therefore, likely to be a concern during installation. HDD (200 m) likely to be required underneath the SSSI at this site.	3
	Onshore cable corridor: N/A	ERA approach not undertaken for this land route option, due to excessive route length of the combined land and marine options.	N/A	ERA approach not undertaken for this land route option, due to excessive route length of the combined land and marine options.	N/A
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 9 Onshore route corridor: N/A			

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
Option B	Marine Route: 2	pAIH rocky reef) area at approach to landfall – cable installation impact on protected species, and cumulative impact with SHETL cable. Possible consenting delay or risk of not achieving consent. Spoil ground close to route in landfall approach, potential for interaction with use of this area.	3	Rocky seabed in nearshore approach will cause difficulties for cable burial Increasing proximity to SHETL cable in approach to landfall, reduced separation will limit future potential for access for maintenance and repairs. No cable or pipeline crossings	3
	Landfall: Portgordon	Sea defence structure at beach – HDD is likely to be required beneath this. No protected sites at the landfall	1	HDD (100 m) likely to be required under sea defences Landing would be shared with the SHETL cable will restrict working and maintenance areas; the routing of cables off the beach area may have difficulties.	3
	Land Cable Corridor 3	Watercourses to be crossed, including the River Deveron; Stirling Hill-Dudwick Longhaven Coast SESA site; Buchan Ness to Collieston Coast Special Protection Area; 2 Scheduled Monuments; 59 listed buildings (15 Grade B, 44 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Speyside Way long distance route; Tree Preservation Orders; Draft core paths; Areas of ancient and semi-natural woodland; Areas at risk from river flooding	99	Watercourses to be crossed, including the River Deveron, and approximately 29 other named watercourses; 7 'A-roads'; 9 'B-Roads'	92
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large	N/A

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
				mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	
	Overall risk rating	Offshore and landfall: 10 Onshore route corridor: 191			
Option C	Marine Route: 3	Direct route through bottom towed gear and Nephrops trawling area likely to be have a smaller impact on fisheries compared to the longer routes through their grounds.	1	Very direct marine route which parallels SHETL cable.. Direct route through bottom towed gear and Nephrops trawling area likely to be preferable to fishermen, compared with longer routes through their grounds. Anchorage area close to landfall site – potential increased risk of cable damage, depending on sizes of vessels using this area, and cable burial depths. No cable or pipeline crossings	2
	Landfall: Cullen	Known beauty spot and close to ancient woodland. Golf course crossing required – discussion with golf club required to determine consent implications. Landfall site close (300 m) to existing SSSI (geological). No anticipated implications provided installation works do not enter the SSSI.	2	The storage area for equipment may not be easily located and require additional daily movements of equipment to site to carry out the works.	2
	Land Cable Corridor: N/A	ERA approach not undertaken for this land route option, due to excessive route length of the combined land and	N/A	ERA approach not undertaken for this land route option, due to excessive route length of the combined land and marine options.	N/A

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		marine options.			
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 7 Onshore route corridor: N/A			
Option D	Marine Route: 4a (SHETL)	Direct route through bottom towed gear and Nephrops trawling area likely to be have a smaller impact on fisheries compared to the longer routes through their grounds.	1	Prominent rock in the bay suggests rocky substrate may be present in approach to landfall, although bedrock at surface is not indicated on BGS data or admiralty charts. Would need to be confirmed by survey. No cable or pipeline crossings Direct route through bottom towed gear and Nephrops trawling area .	1
	Landfall: Sandend	Landfall site close (300 m) to existing SSSI (geological). No anticipated implications provided installation works do not enter the SSSI.	1	Short HDD (100 m) likely to be required beneath sand dunes. Small bay – restricted space; otherwise a good landfall option Good access Although the bay is small with rock outcrops on the east and west faces, the cable will lead directly to the sandy beach with the landing perpendicular to the beach line.	2
	Land Cable Corridor 3	Watercourses to be crossed, including the River Deveron;	88	Watercourses to be crossed, including the River Deveron, and	67

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		Stirling Hill-Dudwick Longhaven Coast SESA site; Buchan Ness to Collieston Coast Special Protection Area; 3 Scheduled Monuments; 54 listed buildings (1 Grade A, 12 Grade B, 41 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Tree Preservation Orders; Draft core paths; Areas of ancient and semi-natural woodland; Areas at risk from river flooding		approximately 18 other named watercourses; 7 'A-roads'; 6 'B-Roads'	
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 5 Onshore route corridor: 155			
Option E	Marine Route: 4b: (SHEFA)	Direct route through bottom towed gear and Nephrops trawling area likely to be have a smaller impact on fisheries compared to the longer routes through their grounds.	1	Prominent rock in the bay suggests rocky substrate may be present in approach to landfall, although bedrock at surface is not indicated on BGS data or admiralty charts. Would need to be confirmed by survey. No cable or pipeline crossings Direct route through bottom towed gear and Nephrops trawling area likely to be have a smaller impact on fisheries compared to the longer routes through their grounds.	1

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
	Landfall: Sandend	Landfall site close (300 m) to existing SSSI (geological). No anticipated implications provided installation works do not enter the SSSI.	1	Short HDD (100 m) likely to be required beneath sand dunes. Small bay – restricted space; otherwise a good landfall option Good access	2
	Land Cable Corridor 3	Watercourses to be crossed, including the River Deveron; Stirling Hill-Dudwick Longhaven Coast SESA site; Buchan Ness to Collieston Coast Special Protection Area; 3 Scheduled Monuments; 54 listed buildings (1 Grade A, 12 Grade B, 41 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Tree Preservation Orders; Draft core paths; Areas of ancient and semi-natural woodland; Areas at risk from river flooding	88	Watercourses to be crossed, including the River Deveron, and approximately 18 other named watercourses; 7 'A-roads'; 6 'B-Roads'	67
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 5 Onshore route corridor: 155			
Option F	Marine Route: 5	Direct route through bottom towed gear and Nephrops trawling area, paralleling SHEFA cable l likely to be have a	1	Increasing proximity to SHEFA cable in approach to landfall. At landfall a minimum separation of 160 m is anticipated. Due to the proximity of	1

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		smaller impact on fisheries compared to the longer routes through their grounds.		SHEFA the landing of the cables may not be perpendicular to the beach and at approximately 60 degrees. Direct route through bottom towed gear and Nephrops trawling area, paralleling SHEFA cable.	
	Landfall: Inverboyndie	Landowner consent required for HDD beneath caravan park Landfall immediately adjacent to SSSI (geological) No anticipated implications provided installation works do not enter the SSSI.	2	Fairly restricted available area between SHEFA cable and sub-cropping rock to the west of the bay (SSSI designated). 100 m HDD may be required beneath stream and caravan park.	2
	Land Cable Corridor 3	Watercourses to be crossed, including the River Deveron; Stirling Hill-Dudwick Longhaven Coast SESA site; Buchan Ness to Collieston Coast Special Protection Area; 3 Scheduled Monuments; 58 listed buildings (14 Grade B, 44 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Tree Preservation Orders; Draft core paths; Areas of ancient and semi-natural woodland; Areas at risk from river flooding	84	Watercourses to be crossed, including the River Deveron, and approximately 14 other named watercourses; 5 'A-roads'; 6 'B-Roads'	53
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties	N/A

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
				(approximately 100 m at the nearest point).	
	Overall risk rating	Offshore and landfall: 6 Onshore route corridor: 137			
Option G	Marine Route: 6	Longest route of the options considered which goes through the fishing area for potting and shrimp trawling, fishermen have indicated that they would not favour such a route. Nearshore landing approach within harbour authority area – potential interactions with shipping activity, consent of harbour authority required. Consent may be difficult to obtain for route in close proximity to anchorage area.	3	1 cable crossing; Rocky outcrops; possible in nearshore approach and in Fraserburgh Bay may restrict burial potential. Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey; key fishing area for shrimp trawling Landfall perpendicular to the beach will not be possible – landfall approach at approximately 60 degrees. Close proximity to anchorage area in approach to landfall – potential risk to cable integrity depending on burial depth and anchor sizes.	3
	Landfall: Fraserburgh Beach	Sand dunes at landfall	2	To obtain a suitable landing through the sand dunes a HDD 220-250m (shortest HDD of Fraserburgh options). Limited land availability for HDD set up.	3
	Land Cable Corridor 2	Minor watercourses to be crossed; West Haven to Inzie Head SESA site; Buchan Ness to Collieston Coast Special Protection Area; Fraserburgh Bay Local Nature Conservation Site; 1 Scheduled Monument; 45 listed buildings (5 Grade B, 40 Grade C); Boddam Conservation	77	Watercourses to be crossed, including 8 named watercourses; 4 'A-roads'; 1 'B-Road'	29

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		Area; Areas of Landscape Significance; Draft core paths; Areas at risk from river flooding			
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 11 Onshore route corridor: 106			
Option H	Marine Route: 7	Longest route of the options considered through the fishing area for potting and shrimp trawling, fishermen have indicated that they would not favour such a route. Nearshore landing approach within harbour authority area – potential interactions with shipping activity, consent of harbour authority required. Consent may be difficult to obtain for route in close proximity to anchorage area.	3	1 cable crossing; Rocky outcrops; possible in nearshore approach and in Fraserburgh Bay may restrict burial potential. Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey; key fishing area for shrimp trawling Landfall perpendicular to the beach will not be possible – landfall approach at approximately 60 degrees. Close proximity to anchorage area in approach to landfall – potential risk to cable integrity depending on burial depth and anchor sizes.	3
	Landfall: Fraserburgh Golf	Golf course crossing required (HDD beneath course) –	2	360 m HDD beneath road, golf course greens and sand dunes.	2

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
	Carpark	discussion with golf club required to determine consent implications. 220 long sand dunes behind the beach.			
	Land Cable Corridor 3	Minor watercourses to be crossed; West Haven to Inzie Head SESA site; Buchan Ness to Collieston Coast Special Protection Area; Fraserburgh Bay Local Nature Conservation Site; 1 Scheduled Monument; 45 listed buildings (5 Grade B, 40 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Draft core paths; Areas at risk from river flooding	77	Watercourses to be crossed, including 8 named watercourses; 4 'A-roads'; 1 'B-Road'	29
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 10 Onshore route corridor: 106			
Option I	Marine Route: 8	Longest route of the options considered through the fishing area for potting and shrimp trawling, fishermen have indicated that they would not favour such a route. Nearshore landing approach within harbour authority area	3	1 cable crossing; Rocky outcrops; possible in nearshore approach and in Fraserburgh Bay may restrict burial potential – although Phillorth may have less rock than the other Fraserburgh options.	3

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		– potential interactions with shipping activity, consent of harbour authority required. Consent may be difficult to obtain for route in close proximity to anchorage area.		Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey; key fishing area for shrimp trawling Landfall perpendicular to the beach will not be possible – landfall approach at approximately 60 degrees. Close proximity to anchorage area in approach to landfall – potential risk to cable integrity depending on burial depth and anchor sizes.	
	Landfall: Philorth	The sand dunes behind the beach are significant in both depth (250m) and height (8-10m).	2	500 - 550m HDD required beneath sand dunes and stream. This is unlikely to be technically feasible.	4
	Land Cable Corridor 3	Minor watercourses to be crossed; West Haven to Inzie Head SESA site; Buchan Ness to Collieston Coast Special Protection Area; Fraserburgh Bay Local Nature Conservation Site; Waters of Philorth Local Nature Reserve; 41 listed buildings (3 Grade B, 38 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Draft core paths; Areas at risk from river flooding	81	Watercourses to be crossed, including 6 named watercourses; 2 'A-roads'; 1 'B-Road'	19
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties	N/A

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
				(approximately 100 m at the nearest point).	
	Overall risk rating	Offshore and landfall: 12 Onshore route corridor: 100			
Option J	Marine Route: 9a (southern approach)	Longest route of the options considered through the fishing area for potting and shrimp trawling, fishermen have indicated that they would not favour such a route.	2	1 cable crossing; Rocky outcrops; possible in nearshore approach and at the landfall Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey. Greater risk of encountering steep slopes compared to northern route route (9b, 10 and 11), and less flexibility to avoid any problematic areas. Key fishing area for shrimp trawling	3
	Landfall: Inverallochy	The bay area has a good sand cover.. A low profile to the rear onto a short distance of golf course provides a straight forward cable handling operation. Golf course crossing required – discussion with golf club required to determine consent implications.	2	May be possible as an open cut option (i.e. no HDD). However, this would need to be confirmed through consultation with the Golf club.	2
	Land Cable Corridor 2	Minor watercourses to be crossed; West Haven to Inzie Head and Stirling Hill-Dudwick Longhaven Coast SESA sites; Buchan Ness to Collieston Coast Special Protection Area; 41 listed buildings (3 Grade B, 38 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Draft core paths; Areas at risk from river	75	Watercourses to be crossed, including 6 named watercourses; 2 'A-roads'; 1 'B-Road'	19

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		flooding			
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 9 Onshore route corridor: 94			
Option K	Marine Route: 9b (northern approach)	Key fishing area for shrimp trawling, although the route is likely to be less contentious than the southern route.	1	1 cable crossing; Rocky outcrops; possible in nearshore approach and at the landfall Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey. Less risk of encountering steep slopes compared to southern routes ((6, 7, 8 and 9a), no known constraints to the north where it passes the southern trench, and if survey encountered more severe slopes than anticipated there is flexibility to avoid any problematic areas. Key fishing area for bottom towed gear and creeling. Proximity to sandwave field, extent to be confirmed by survey	2
	Landfall: Inverallochy	The bay area has a good sand cover.. A low profile to the rear onto a short distance of golf course provides a	2	May be possible as an open cut option (i.e. no HDD). However, this would need to be confirmed through consultation with the Golf club.	1

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		straight forward cable handling operation. Golf course crossing required – discussion with golf club required to determine consent implications.			
	Land Cable Corridor 2	Minor watercourses to be crossed; West Haven to Inzie Head and Stirling Hill-Dudwick Longhaven Coast SESA sites; Buchan Ness to Collieston Coast Special Protection Area; 41 listed buildings (3 Grade B, 38 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Draft core paths; Areas at risk from river flooding	75	Watercourses to be crossed, including 6 named watercourses; 2 'A-roads'; 1 'B-Road'	19
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 6 Onshore route corridor: 94			
Option L	Marine Route: 10	pAIH (sandy sediment <20 m) at landfall approach. Likely to only have a minimal impact on consent risk, as this habitat type is likely to recover quickly from cable installation disturbance.	2	1 cable crossing; Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey. Less risk of encountering steep slopes compared to southern routes ((6, 7, 8	2

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
				and 9b), and greater flexibility to avoid any problematic areas.	
	Landfall: Rattray	Sand dunes behind the beach Due to the oil and gas infrastructure investigation of land ownership and if future pipelines are planned may restrict the ability to use this landing. The strategic use by oil and gas may diminish the ability for its use by a power cable.	2	500 m HDD requirement. this is unlikely to be feasible. Landing area constrained by existing pipelines.	4
	Land Cable Corridor 1	Minor watercourses to be crossed; 6 SESA sites (2 Geological/Geomorphological, 4 Ecological); Buchan Ness to Collieston Coast Special Protection Area; Loch of Strathbeg Site of Special Scientific Interest; 3 Scheduled Monuments; 41 listed buildings (3 Grade B, 38 Grade C); Boddam Conservation Area; Areas of Landscape Significance; Draft core paths; Areas at risk from river flooding	83	Watercourses to be crossed, including the River Ugie, and 2 named watercourses; 2 'A-roads'	14
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Overall risk rating	Offshore and landfall: 10			

Scheme option	Route	Environmental / permitting issues		Engineering Issues	
		Onshore route corridor: 97			
Option M	Marine Route: 11	pAIH (sandy sediment <20 m) at landfall approach. Likely to only have a minimal impact on consent risk, as this habitat type is likely to recover quickly from cable installation disturbance. Potential significant environmental impact associated with rock placement or mattresses over a very extensive area where the pipelines are crossed. This may have permitting implications if the project cannot demonstrate feasible alternatives.	3	1 cable crossing; 11 pipeline crossings. Anticipated severe technical challenge to engineer these multiple crossings at this location. Proximity to southern trench – most severe slopes have been avoided, but risk of steep slopes would need to be confirmed by survey. Less risk of encountering steep slopes compared to southern routes ((6, 7, 8 and 9b), and greater flexibility to avoid any problematic areas.	4
	Landfall: St Fergus	Large sand dunes behind the beach	2	The sand dunes likely to require 350 m HDD. Lack of easy access to the beach will reduce the favourability in comparison to other site.	2
	Substation Option 1	Avoids direct (physical) impact to known International / National / Regional / District / Local environmental constraints.	N/A	This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant. Both sites are large enough to ensure that the substations would be located away from nearby properties (approximately 100 m at the nearest point).	N/A
	Substation Option 1	ERA approach not undertaken for this land route option, due to excessive route length of the combined land and marine options.		ERA approach not undertaken for this land route option, due to excessive route length of the combined land and marine options.	

Scheme option	Route	Environmental / permitting issues	Engineering Issues
	Overall risk rating	Offshore and landfall: 11 Onshore route corridor: N/A	

Note: The ERA approach has not been applied to the land route options connecting with Lossiemouth Forest, Cullen (on the basis of excessive overall scheme route lengths) and St Fergus (on the basis of the extremely challenging marine route to this landfall causing this option to be discounted). These scheme options are shown in grey.

7 TRANSMISSION INFRASTRUCTURE RECOMMENDATIONS

Based on the assessment in Stage 3 (Section 6), we propose the following route options represent the most appropriate options based on environmental and consenting, engineering and economic issues.

7.1 PREFERRED SUBSTATION OPTION

The preferred site option for the location of the substations would be Option 1. This location favours the underground cable route(s) running parallel to the main road and provides close proximity of the proposed substations, which would ensure good vehicle access for the installation of large mechanical and electrical plant.

The close proximity of the proposed substations to the existing substation at Peterhead Power Station also presents the shortest overhead cable route should they be necessary, to interface the proposed substations with the existing substation.

Although locating the substations at Site Option 1 would mean that they would be closer to existing residential properties than they would be if Site Option 2 were chosen, the constraints highlighted below with Site Option 2 would outweigh this potential benefit.

Site Option 2, located adjacent to the Upperton Industrial Estate, would require the underground cable approaching this substation location to traverse a populated area, with associated disruption and potentially onerous planning objections and constraints.

Additionally, any feeder cables from the substations located at Upperton Industrial Estate to the existing substation at Peterhead Power Station would require a dedicated high volt overhead pylon cable route of at least 1 km. These new pylons and overhead cables running in parallel to additional pylons and cables already in-situ, could result in a wirescape landscape, with significant environmental impact.

Both of the above issues are contrary to the guidelines outlined in Appendix A.2, and therefore Site Option 2 would be the least favourable.

7.2 PREFERRED ROUTE OPTION

The overall onshore and offshore infrastructure ratings are summarised in order of preference in Table 7.1 below.

Based on the scorings given to the various transmission infrastructure options, the preferred options overall, given in order of preference are:

- Option K (marine corridor 9b; Inverallochy; Land corridor 2)
- Option D (marine corridor 4a; Sandend; Land corridor 3)
- Option E (marine corridor 4b; Sandend; Land corridor 3)

- Option F (marine corridor 5; Inverboyndie; Land corridor 3)

Option K is a longer marine route connecting via the landfall at Inverallochy with a more direct land route to substation option 1 at Peterhead. Options D, E and F essentially equate to a long land route connecting, via the landfalls at either Sandend or Inverallochy, to a direct marine route.

All these infrastructure options are considered to be feasible, based on the desk study and landfall site visits undertaken. The overall scorings for each of these options is very similar, with option K (Inverallochy) preferred from an onshore perspective and D and E (Sandend) preferred from an offshore perspective.

The majority of the lower ranked options are also considered to be feasible but with increasing environmental and engineering risk attached to them, based on this high level desk study.

This study has been primarily desk based and has only included limited consultation and site visits to the landfall sites only. Further more detailed studies, site visits and consultation are recommended to improve confidence in route option feasibility have been identified in Section 8. Subject to information obtained through the studies and consultation identified in Section 8, the risk rating attached to the options considered here can be refined, and may result in a change of option preference.

Table 7-1: Results of risk assessment

Scheme option	Route	Overall risk rating
Option K	Marine Route: 9b (northern approach) Landfall: Inverallochy Land Cable Corridor 2 Substation Option 1	Offshore and landfall: 6 Onshore route corridor: 94
Option D	Marine Route: 4a (SHETL) Landfall: Sandend Land Cable Corridor 3 Substation Option 1	Offshore and landfall: 5 Onshore route corridor: 155
Option E	Marine Route: 4b: (SHEFA) Landfall: Sandend Land Cable Corridor 3 Substation Option 1	Offshore and landfall: 5 Onshore route corridor: 155
Option F	Marine Route: 5 Landfall: Inverboyndie Land Cable Corridor 3 Substation Option 1	Offshore and landfall: 6 Onshore route corridor: 137

Scheme option	Route	Overall risk rating
Option C	Marine Route: 3 Landfall: Cullen Land Cable Corridor: N/A Substation Option 1	Offshore and landfall: 7 Onshore route corridor: N/A
Option J	Marine Route: 9a (southern approach) Landfall: Inverallochy Land Cable Corridor 2 Substation Option 1	Offshore and landfall: 9 Onshore route corridor: 94
Option A	Marine Route 1 Landfall: Lossiemouth Forest Onshore cable corriodr: N/A Substation option: N/A	Offshore and landfall: 9 Onshore route corridor: N/A
Option L	Marine Route: 10 Landfall: Rattray Land Cable Corridor 1 Substation Option 1	Offshore and landfall: 10 Onshore route corridor: 97
Option B	Marine Route: 2 Landfall: Portgordon Land Cable Corridor 3 Substation Option 1	Offshore and landfall: 10 Onshore route corridor: 191
Option H	Marine Route: 7 Landfall: Fraserburgh Golf Carpark Land Cable Corridor 3 Substation Option 1	Offshore and landfall: 10 Onshore route corridor: 106
Option G	Marine Route: 6 Landfall: Fraserburgh Beach Land Cable Corridor 2 Substation Option 1	Offshore and landfall: 11 Onshore route corridor: 106
Option M	Marine Route: 11 Landfall: St Fergus Land Cable Corridor 1	Offshore and landfall: 11 Onshore route corridor: N/A

Scheme option	Route	Overall risk rating
	Substation Option 1	
Option I	Marine Route: 8	Offshore and landfall: 12 Onshore route corridor: 100
	Landfall: Philorth	
	Land Cable Corridor 3	
	Substation Option 1	

8 NEXT STEPS

8.1 FURTHER STUDIES

A number or studies/surveys are recommended to inform further, more detailed, cable routeing and environmental assessment:

Marine cable route survey: A cable route survey is needed to confirm the route feasibility/alignment, cable burial conditions, protection requirements and to feed into the Environmental Assessment. The survey should also identify areas of mobile sediment, which would have implications for maintaining cable protection. In general, a survey width of 250m either side of the cable installation corridor is recommended, although in order to optimise the marine survey a narrower swathe can be considered in the shallow water landfall approaches, where acquisition of wide swathes of data becomes time consuming and expensive, and there is reduced flexibility for re-routeing. Depending on the route option taken forward, and water depth, a cable installation corridor of 500 – 850m could be required. This would give a total width of 1000 – 1350m. Consideration should be given to allowing flexibility in terms of survey swathe in areas close to the southern trench and the sandwave field, where a greater risk of encountering difficult seabed conditions has been identified. Survey representatives should be aware of the potential seabed conditions in this area, and be prepared to increase survey width should the survey identify problematic areas. Possible options to address this include the running of reconnaissance survey lines in this area prior to undertaking full geophysical and geotechnical survey, and/or identification of contingency survey routes in advance that can be implemented if required.

Land site investigations: Detailed assessment by project engineers and preliminary site and route assessments to refine cable routes and assess substation sites. Assessments to address the following key subjects will need to be undertaken:

- Landscape and views
- Ecology
- Archaeology
- Land use
- Geophysical and geotechnical survey
- Water
- Flooding
- Noise
- Transport during construction
- Safety and constructability survey (conceptual design phase)

Land cable route and substation site visits: Site visits have not yet been taken to the proposed land corridors or substation sites. Preferred routes will need to be walked by suitably qualified personnel to confirm their viability. Site visits to the proposed substation sites are also required to confirm feasibility and to determine the extent of any visual impacts associated with these structures.

Marine cable risk assessment: A desk based study based on the cable route survey data. This identifies hazards and compares risk of damage to the cable with seabed sediments/shallow geology and makes protection

recommendations, including optimum burial depths.

Benthic ecological survey: This could be undertaken in conjunction with the cable route survey and would need to characterise the seabed in respect of protected habitat types such as biogenic reef.

Desk based marine ordnance assessment: Due to significant historical military activity in the study area, and the current use of the area as a live firing and bombing area it would be advisable to carry out an ordnance assessment prior to undertaking the cable route survey for both safety reasons and in order to inform the environmental assessment. This should include discussions with the MOD on their use of this area.

Marine archaeology desk based assessment: An archaeological assessment of the survey data collected during the cable route survey is required to inform the archaeology section of the Environmental Report. This would almost certainly be a requirement of Historic Scotland (statutory consultee for both FEPA and CPA consent).

Bird count surveys at the proposed landfall: These may be required as SPA sites protected for breeding and wintering birds occur within the study area. The surveys would need to be timed to coincide with the key seasons for these birds, and so could take up to a year to obtain a full set of survey data.

The level of detail and specialist survey and study required to support the consent application for each route considered would need to be determined through consultation with key stakeholders.

EMF study: Given the level of concern amongst certain NGOs, and the proximity of the project to a number of salmon migratory rivers with SAC status it would be advisable to undertake a study of the possible magnetic and electrical fields (both direct and induced) that the export cable would generate, and its possible impact on sensitive species in the study area. Possible magnetic field impacts on the bottlenose dolphin using the Moray Firth SAC is also relevant. This information will be required to input into the EIA, but can also inform the decision as to whether the cable pairs should be bundled or unbundled.

HDD feasibility Given that the feasible HDD length for the MORL export cable is a key factor in the decision of feasible landfalls, it is recommended that a technical review of possible HDD lengths is undertaken to confirm landfall feasibility where HDD is expected to be the preferred solution.

It is also recommended that the data presented in Table 8-1 be obtained to inform more detailed investigation of land routeing options.

Table 8-1: Recommendations for further desk study

Organisation	Area of Interest
Scottish Environmental Protection Agency (SEPA)	Areas of contaminated land
	Groundwater / aquifer classifications
	Discharge points
	Abstraction licences

Organisation	Area of Interest
The Macaulay Land Use Research Institute	Land Capability for Agriculture
Aberdeenshire County Council	Sites and Monuments Record (undesignated archaeological assets) Designated Coast – Undeveloped, Designated Coast – Developed
Moray County Council	Coastal Protection Zones
Royal Society for the Protection of Birds (RSPB)	RSPB Reserves
Scottish RIGS Coordinator	Local Geodiversity Sites
National Trust	National Trust owned land
Sustrans	Cycle networks
British Geological Survey	Underlying solid and superficial geology
Scottish and Southern Energy	Electricity Infrastructure
Scotia Gas Networks	Gas Infrastructure
Scottish Water	Water Infrastructure
National Grid	Electricity and Gas Infrastructure

8.2 CONSULTATION

Consultation with all interested parties will be required to further inform route corridor viability. Early consultation is essential to ensure that the concerns of stakeholders are understood and addressed during project development.

A list of all recommended consultees can be found below in Table 8-2. This list contains consultees relevant to confirming route feasibility. It does not form a comprehensive list of consultees for Scoping and Environmental Impact Assessment.

Table 8-2: Suggested consultees

Organisation	Area of Interest
Association of Salmon Fishery Boards, the Salmon and Trout Association and Sea Trout Group	EMF impacts on salmon and trout. A discussion may be useful once the project has more information on expected EMF impacts.
Centre for Environment, Fisheries and Aquaculture Sciences	Disposal sites / Fisheries
Faroese Telecom (SHEFA)	Potential for data sharing and to determine optimum cable crossing location

Organisation	Area of Interest
Fraserburgh Harbour Commissioners	Shipping and navigation
Fraserburgh Golf Club	Landowner consent to cross the golf course
Historic Scotland	Archaeology / heritage
Inverallochy Golf Club	Landowner consent to cross the golf course
Joint Nature Conservation Committee	Marine conservation
Local Planning Authorities	Planning permission
Marine Scotland	Consents
Marine Scotland Science	Fisheries
Maritime and Coastguard Agency	Navigation
Ministry of Defence	Military practise and exercise areas
Moray Firth Inshore Fisheries Group	Fisheries
Moray Firth Partnership	Integrated management
Northern Lighthouse Board	Navigation
Oil and gas industry	Possible future oil and gas development in the study area.
Royal Yachting Association Scotland	Recreational sailing
Scottish Environment Protection Agency	Watercourses / Sea defences
Scottish Fishermen's Federation	Fisheries
Scottish Natural Heritage	Ecology and Conservation / landscape issues
Scottish Hydro Electric Transmission Ltd (SHETL)	Potential for data sharing and to determine optimum cable crossing location
The Crown Estate	Consents
Aberdeenshire County Council	General matters
Moray County Council	General matters
Scottish Environmental Protection Agency (SEPA)	Hydrology, hydrogeology, flood risk
Scottish and Southern Energy	Electricity Infrastructure
Scotia Gas Networks	Gas Infrastructure
Scottish Water	Water Infrastructure
National Grid	Electricity and Gas Infrastructure
Scottish Transport (North East Unit)	Trunk Roads

Organisation	Area of Interest
Owners of other major private infrastructure yet to be identified	Various

FIGURES

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MORAY OFFSHORE RENEWABLES LTD

Moray Firth Export Cable
Feasibility Study

Figure 1.1: Study area with route options and corridors

Legend

Background

- Study area
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

Offshore routes

- Offshore route options
- Offshore route corridors

Onshore route corridors

Peterhead to Rattray

- 2km
- 500m

Peterhead to Fraserburgh

- 2km
- 500m

Peterhead to Lossiemouth Forest, Portgordon and Cullen

- 2km
- 500m

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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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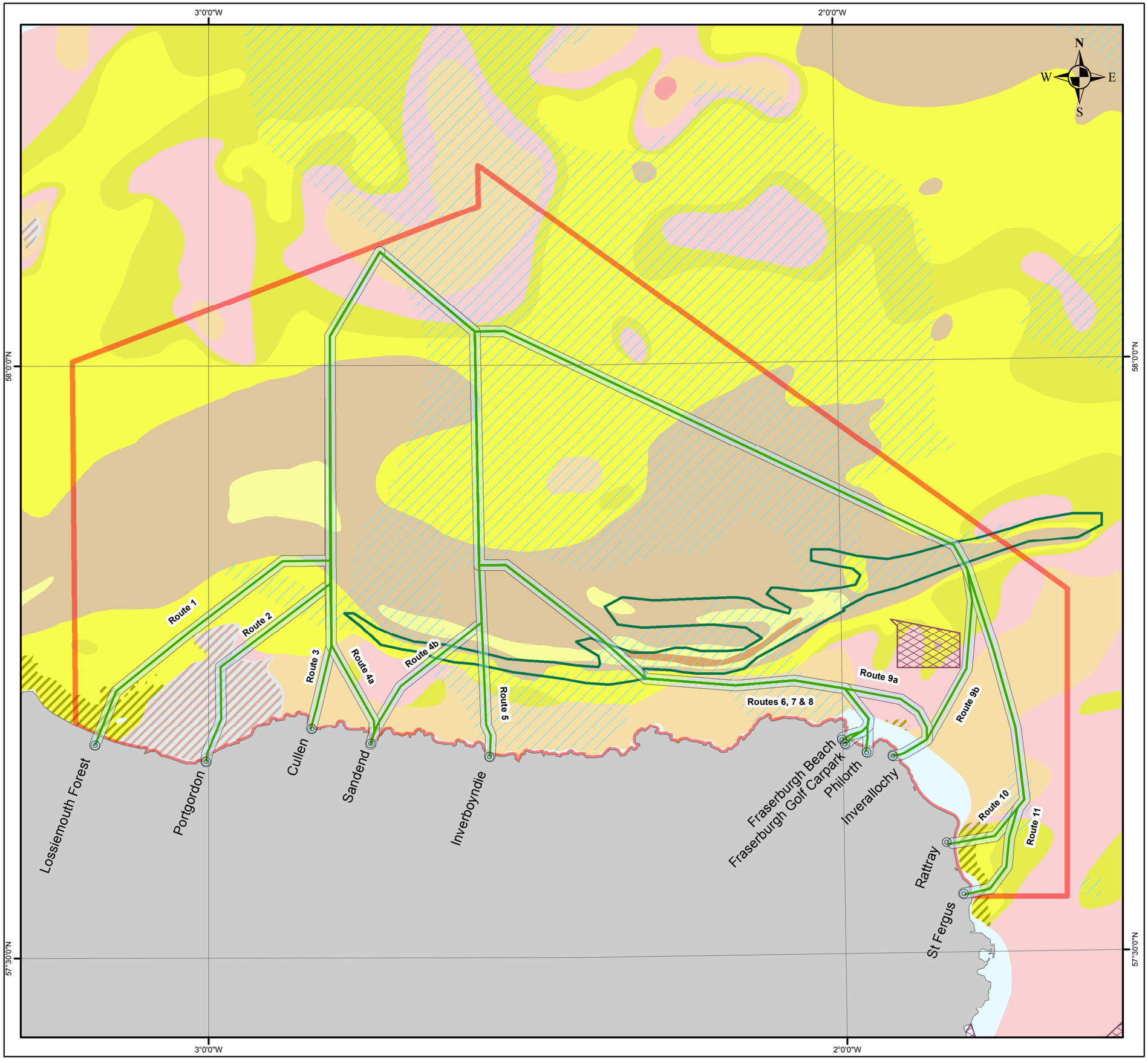
0 2.5 5 10 15 20 25 km

MORAY OFFSHORE RENEWABLES LTD

Moray Firth Export Cable
Feasibility Study

Figure 5.1: Physical overview of study area



Legend

Potential Annex I Habitats

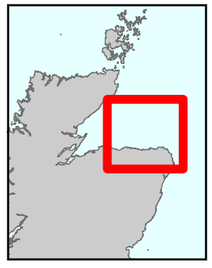
- Sandy Sediments <20m
- Stoney Reef
- Bedrock Reef
- Moraine
- Sediment Wave Field
- Southern Trench

Seabed Sediment

- Gravel
- Gravelly Sand
- Muddy Sandy Gravel
- Mud
- Muddy Sand
- Sandy Gravel
- Sandy Mud
- Slightly Gravelly Sand
- Sand

Background

- Study area
- Site visit locations
- Route options
- Route corridors
- Land



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Checked	Produced By	Patricia Adams
	Reviewed By	Sally Holroyd

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0 1.5 3 6 9 12 15 km

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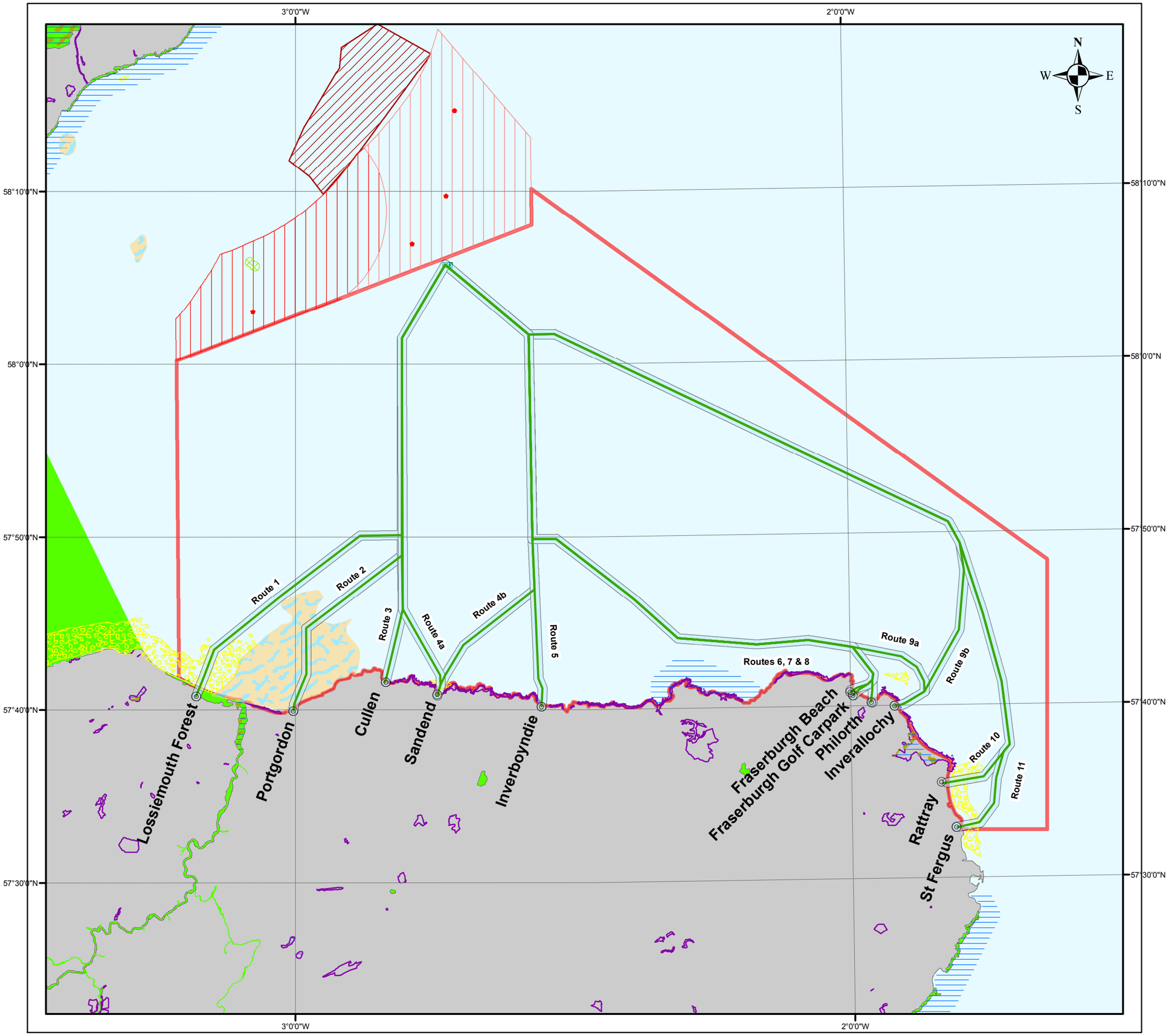
Moray Firth Export Cable
Feasibility Study

Figure 5.2: Nature designations



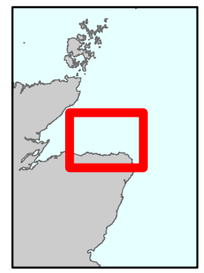
Legend

Background
- Study area
- Site visit locations
- Route options
- Route corridors
- Land

Protected Areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Windfarm infrastructure
- DC Platform
- Substation
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension
- Beatrice Demonstrator 500m Buffer

Potential Annex I Habitats
- Reef
- Sandy sediment <20m



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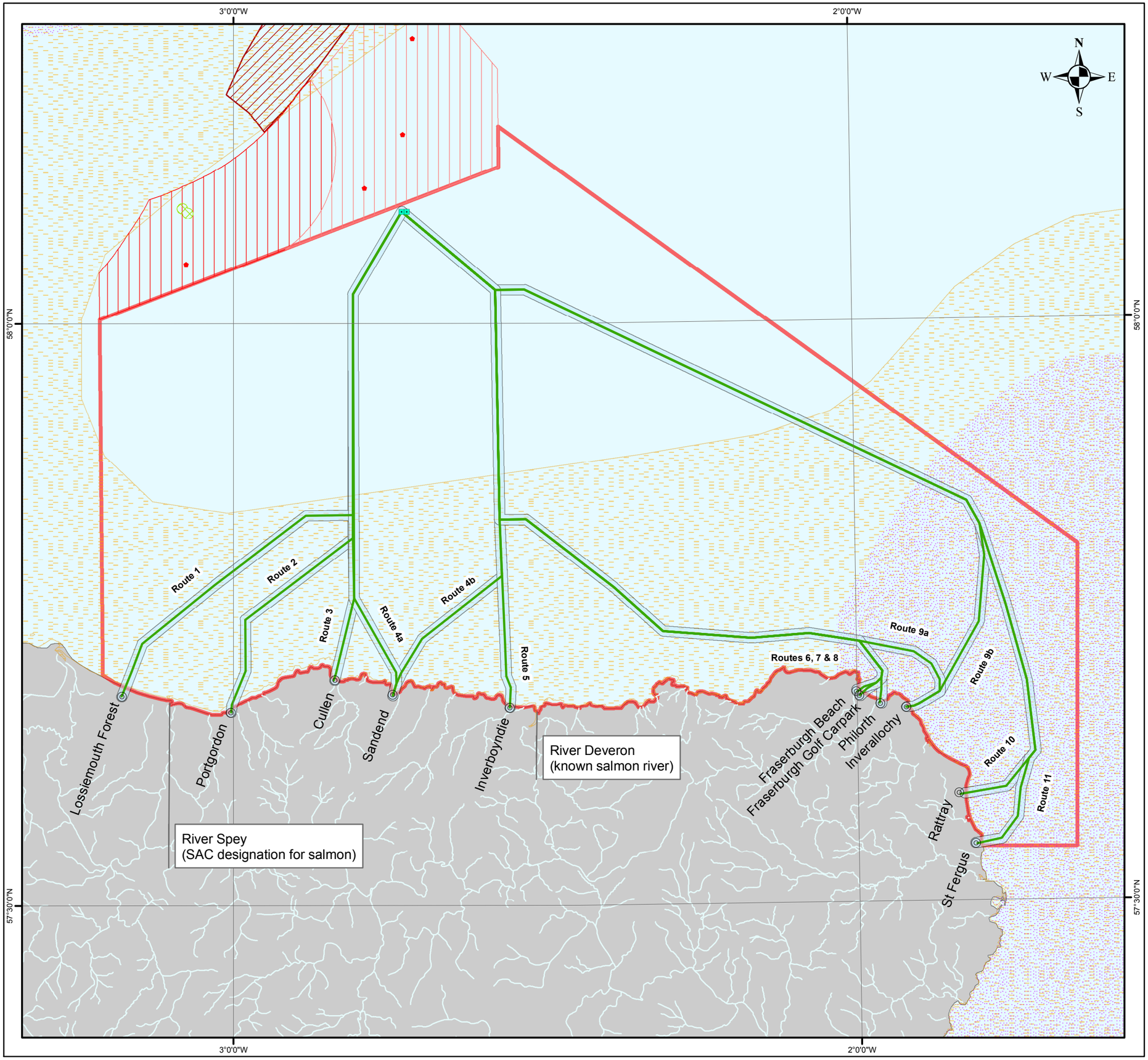
0 2.5 5 10 15 20 25 km



MORAY OFFSHORE RENEWABLES LTD

Moray Firth Export Cable
Feasibility Study

Figure 5.3: Sensitive species

Legend

Sensitive species

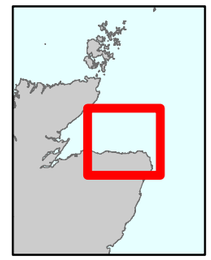
- Herring spawning area
- Sandeel spawning area

Windfarm infrastructure

- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Beatrice windfarm extension
- Western Moray Firth R3 zone
- Eastern Moray Firth R3 zone

Background

- Study area
- Site visit locations
- Route options
- Route corridors
- Land



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Checked	Produced By	David Cook
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0 2 4 8 12 16 20 km

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Moray Firth Export Cable Feasibility Study

Figure 5.4: Human use

3°0'0"W
2°0'0"W
58°0'0"N
57°30'0"N
N
W
E
S
Route 1
Route 2
Route 3
Route 4a
Route 4b
Route 5
Routes 6, 7 & 8
Route 9a
Route 9b
Route 10
Route 11
Lossiemouth Forest
Portgordon
Cullen
Sandend
Inverboyndie
Fraserburgh Beach
Fraserburgh Golf Carpark
Philorth
Inverallochy
Rattray
St Fergus

Legend

Background
- Study area
- Site visit locations
- Route options
- Route corridors
- Land

Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- FPSO
- PLATFORM
- TERMINAL

Cables and pipelines
- Pipeline
- Telecom cable
- Proposed power cable

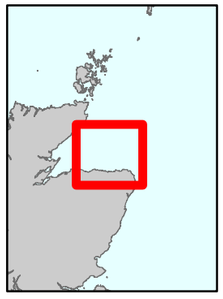
Waste disposal
- Spoil ground

Military activity
- MOD firing danger area

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

Shipping and navigation
- Anchorage area
- Harbour authority area



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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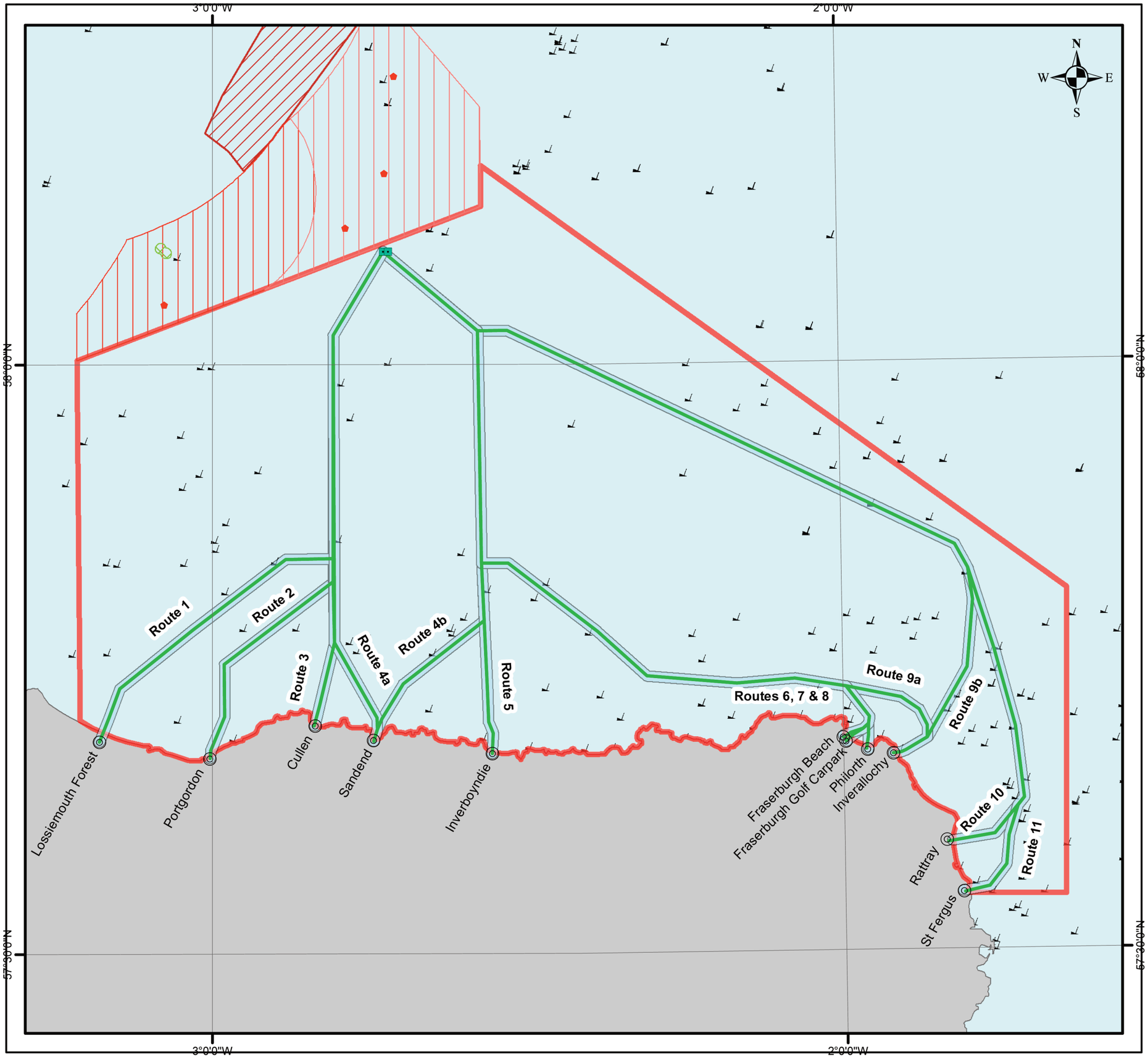
0 2 4 8 12 16 20 km



MORAY OFFSHORE RENEWABLES LTD

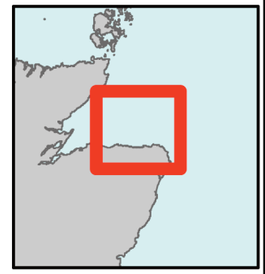
Moray Firth Export Cable
Feasibility Study
Figure 5.5: Charted wrecks

Legend

- Charted wrecks

Background

- Study area
- Site visit locations
- Route options
- Route corridors
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Western Moray Firth R3 zone
- Eastern Moray Firth R3 zone
- Land



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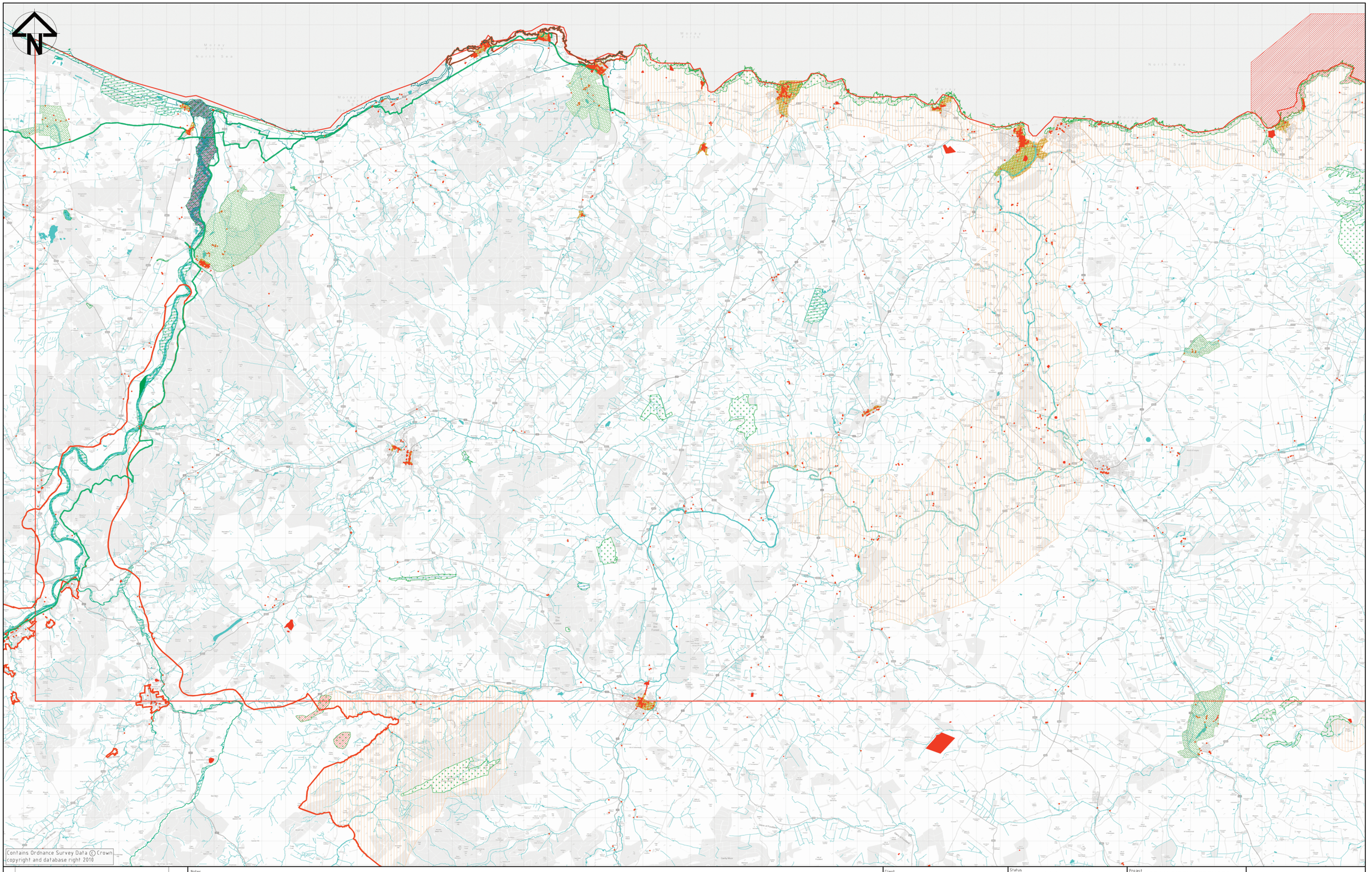
0 2 4 8 12 16 20 km



Issue	Description	Date
02	SECOND ISSUE	22 DEC 10
01	FIRST ISSUE	08 DEC 10

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Notes
- LAND STUDY AREA
- WATERCOURSES

NATURE CONSERVATION
- SPECIAL PROTECTION AREAS
- SPECIAL AREAS OF CONSERVATION
- SITES OF SPECIAL SCIENTIFIC INTEREST
- RAMSAR SITES

HISTORIC ENVIRONMENT
- SCHEDULED MONUMENTS
- HISTORIC GARDENS AND DESIGNED LANDSCAPES
- LISTED BUILDINGS
- CONSERVATION AREAS

LANDSCAPE
- AREAS OF LANDSCAPE SIGNIFICANCE
- AREAS OF GREAT LANDSCAPE VALUE
- HISTORIC GARDENS AND DESIGNED LANDSCAPES

OTHER
- LONG DISTANCE ROUTE

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Filename: FIGS.6-UA002710-NHD-02- INITIAL-ENV-BASELINE-DATA.DWG

Project: MORAY FIRTH OFFSHORE WINDFARM - EXPORT CABLE ROUTE FEASIBILTY STUDY

Title: INITIAL ENVIRONMENTAL BASELINE DATA SHEET 1 OF 2

Hyder Consulting (UK) Limited
330 Firecrest Court
Centre Park
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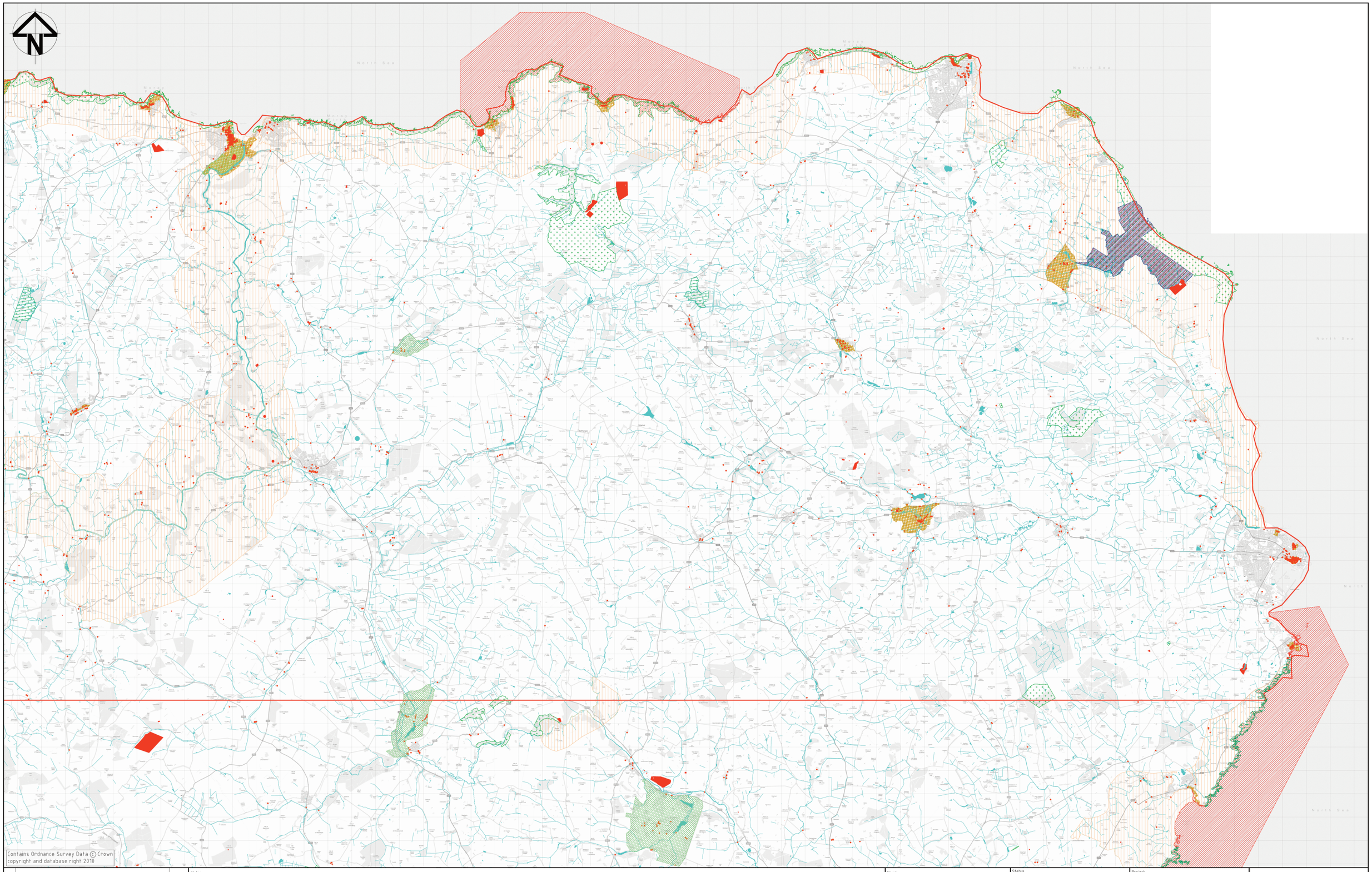
WA1 1RG
Tel: +44 (0)1925 800700
Fax: +44 (0)1925 572462

Drawing No.	Project No.	Issue
FIG 5.6	UA002710	02

Plot Date: 22/Dec/2010 12:03:49 PM File Location: K:\PROJECTS\UA002710-MORAY-FIRTH\E-OUR-DRAWINGS\FIGS.6-UA002710-NHD-02- INITIAL-ENV-BASELINE-DATA.DWG V1



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Notes

- LAND STUDY AREA
- WATERCOURSES

NATURE CONSERVATION
- SPECIAL PROTECTION AREAS
- SPECIAL AREAS OF CONSERVATION
- SITES OF SPECIAL SCIENTIFIC INTEREST
- RAMSAR SITES

HISTORIC ENVIRONMENT
- SCHEDULED MONUMENTS
- HISTORIC GARDENS AND DESIGNED LANDSCAPES
- LISTED BUILDINGS
- CONSERVATION AREAS

LANDSCAPE
- AREAS OF LANDSCAPE SIGNIFICANCE
- AREAS OF GREAT LANDSCAPE VALUE
- HISTORIC GARDENS AND DESIGNED LANDSCAPES

OTHER
- LONG DISTANCE ROUTE

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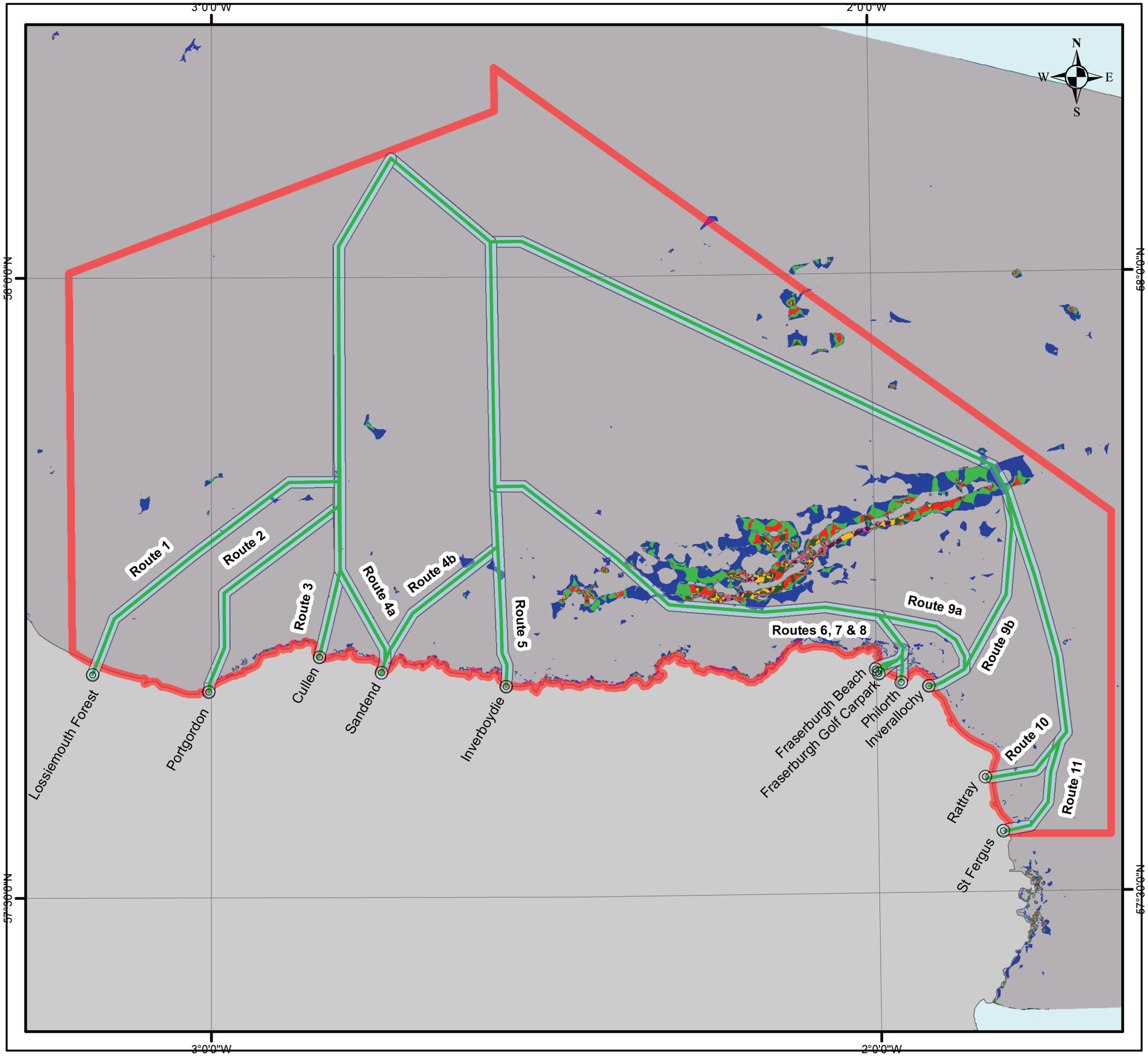
Feasibility Study

Figure 6.1: Southern trench seabed slope



Legend

Background

- Study area
- Site visit locations
- Initial route options
- Route corridors
- Land

Seabed slope (degrees)

- 0-2
- 2-4
- 4-6
- 6-8
- 8-10
- 10-12
- 12-15
- 15-19
- 19-25
- 25-30

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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 2 4 8 12 16 20 km

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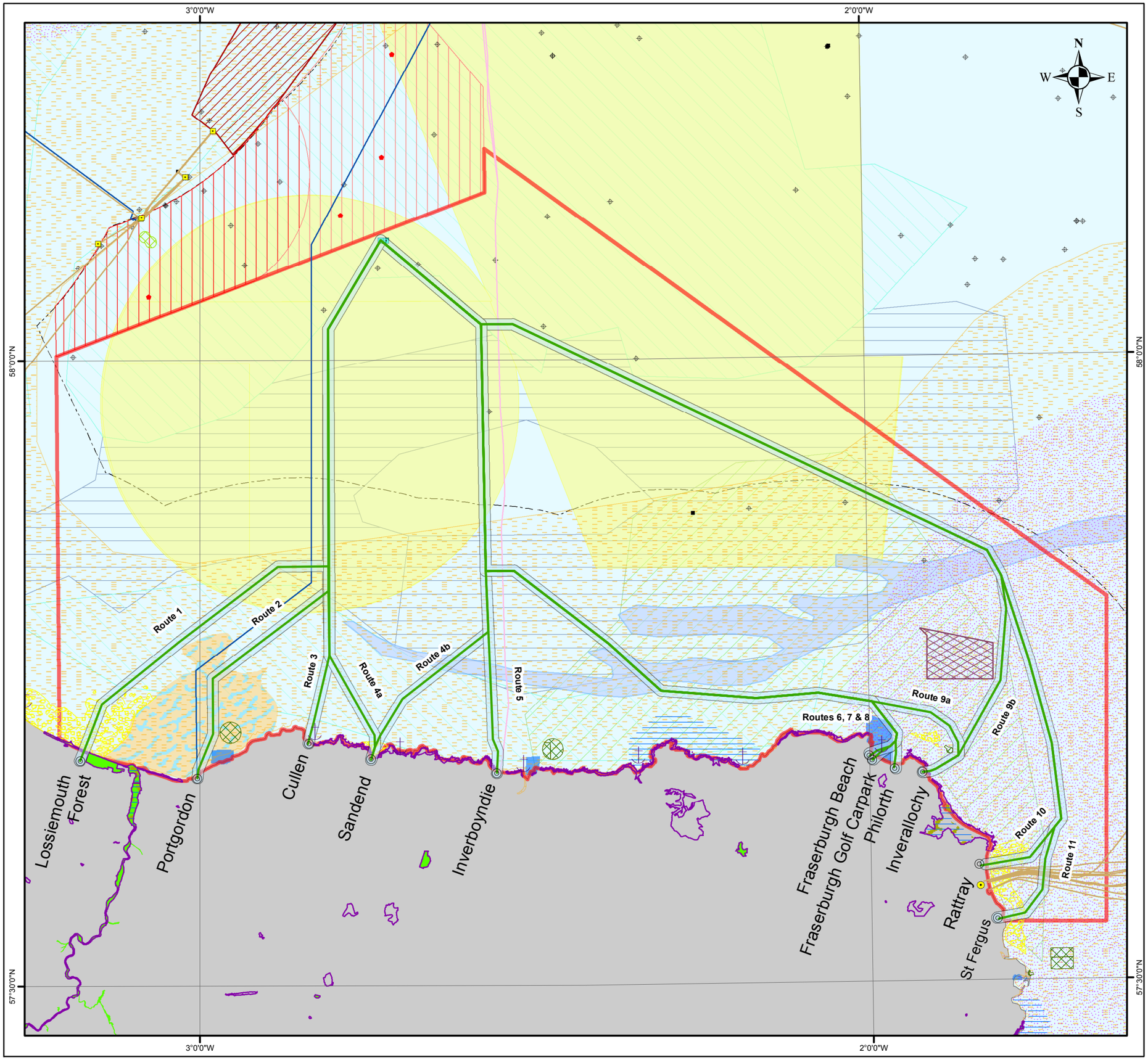
Moray Firth Export Cable
Feasibility Study

Figure 6.2: Offshore key constraints



Legend

- Study area
- 12nm limit
- Site visit locations
- Initial route options
- Route corridors
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Herring spawning area
- Sandeel spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

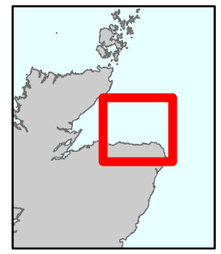
Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling

Waste disposal
- Spoil ground



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Checked	Produced By	David Cook
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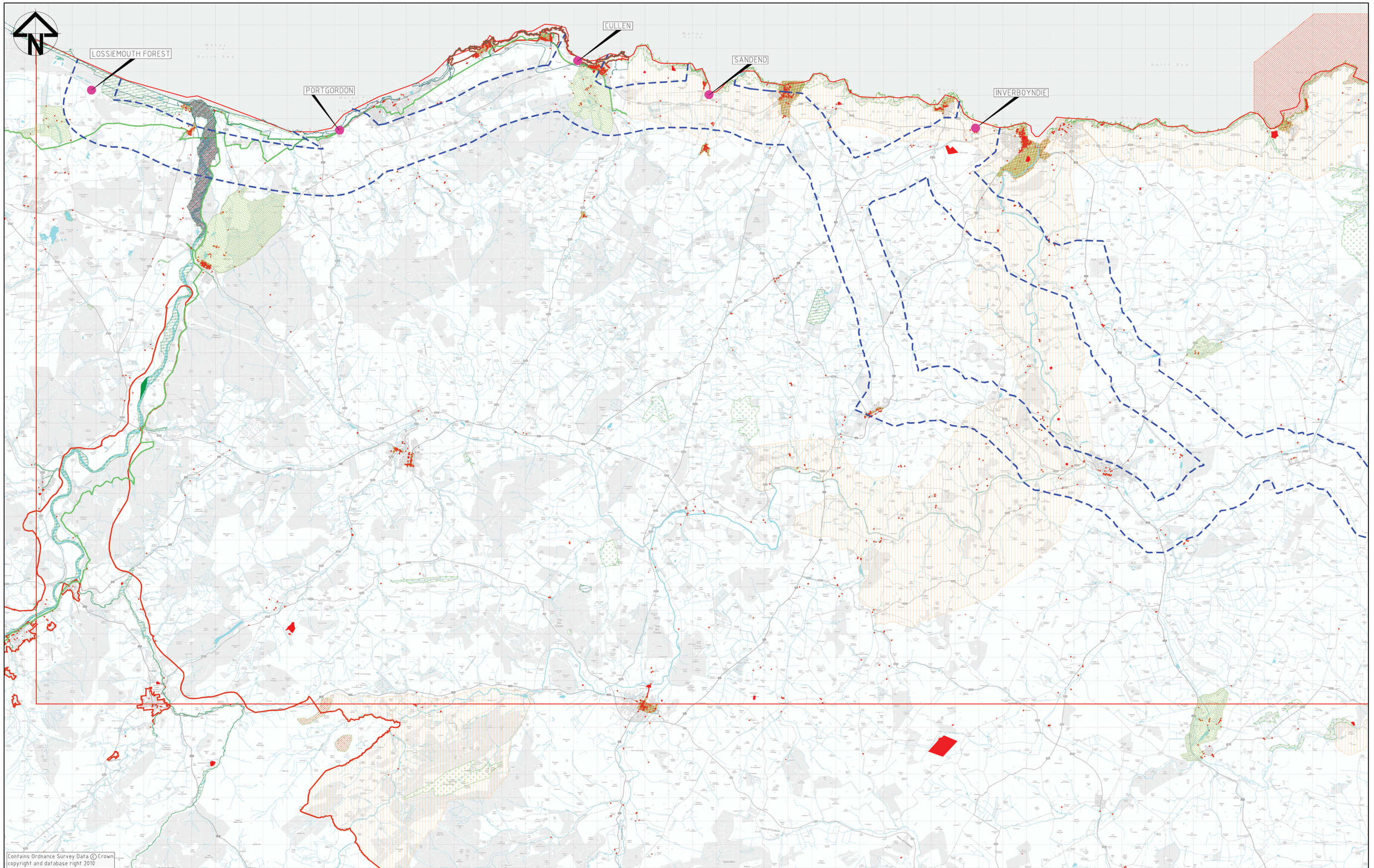
0 1 2 4 6 8 10 km



Issue	Description	Date
02	SECOND ISSUE	22 DEC 10
01	FIRST ISSUE	08 DEC 10

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Notes

- LAND STUDY AREA
- WATERCOURSES
- POTENTIAL 2km CABLE CORRIDOR
- EXISTING SUBSTATION
- POTENTIAL LANDFALL SITES
- POTENTIAL SUBSTATION SITE OPTION 1
- POTENTIAL SUBSTATION SITE OPTION 2

NATURE CONSERVATION
- SPECIAL PROTECTION AREAS
- SPECIAL AREAS OF CONSERVATION
- SITES OF SPECIAL SCIENTIFIC INTEREST
- RAMSAR SITES

HISTORIC ENVIRONMENT
- SCHEDULED MONUMENTS
- HISTORIC GARDENS AND DESIGNED LANDSCAPES
- LISTED BUILDINGS
- CONSERVATION AREAS

LANDSCAPE
- AREAS OF LANDSCAPE SIGNIFICANCE
- AREAS OF GREAT LANDSCAPE VALUE
- HISTORIC GARDENS AND DESIGNED LANDSCAPES

OTHER
- LONG DISTANCE ROUTE

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Scales	1: 50 000	Current Issue Signatures
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Title: POTENTIAL LANDFALL SITES, CABLE CORRIDORS AND SUBSTATION SITES SHEET 1 OF 2

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Centre Park
Warrington
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FIG 6.3—	UA002710	— 02

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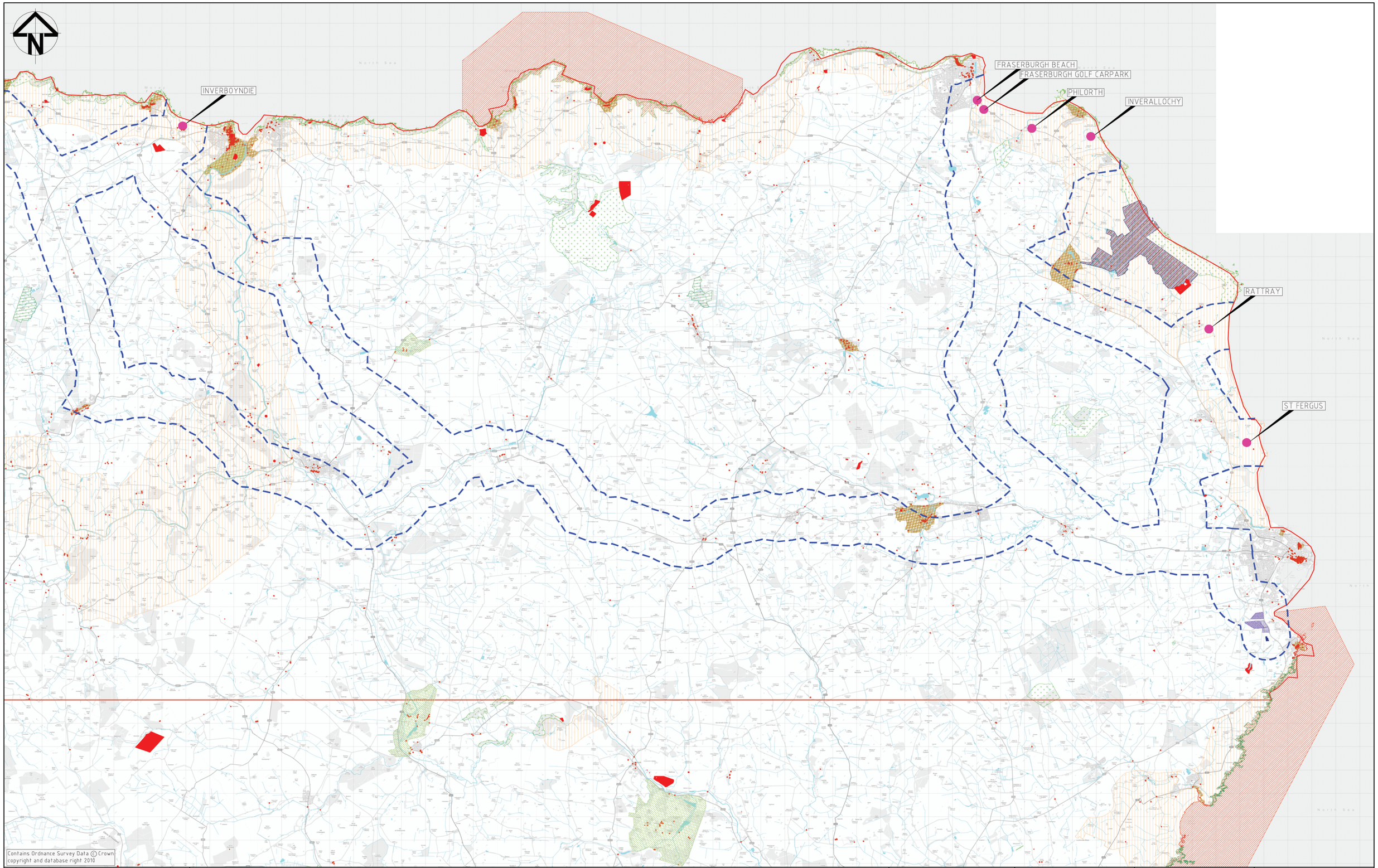

Issue	Description	Date
02	SECOND ISSUE	22 DEC 10
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Notes

- LAND STUDY AREA
- WATERCOURSES
- POTENTIAL 2km CABLE CORRIDOR
- EXISTING SUBSTATION
- POTENTIAL LANDFALL SITES
- POTENTIAL SUBSTATION SITE OPTION 1
- POTENTIAL SUBSTATION SITE OPTION 2

NATURE CONSERVATION
- SPECIAL PROTECTION AREAS
- SPECIAL AREAS OF CONSERVATION
- SITES OF SPECIAL SCIENTIFIC INTEREST
- RAMSAR SITES

HISTORIC ENVIRONMENT
- SCHEDULED MONUMENTS
- HISTORIC GARDENS AND DESIGNED LANDSCAPES
- LISTED BUILDINGS
- CONSERVATION AREAS

LANDSCAPE
- AREAS OF LANDSCAPE SIGNIFICANCE
- AREAS OF GREAT LANDSCAPE VALUE
- HISTORIC GARDENS AND DESIGNED LANDSCAPES

OTHER
- LONG DISTANCE ROUTE

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Filename:	FIG6.3-UA002710-NHD-02-POTENTIAL-LFSITES.DWG	

Project: MORAY FIRTH OFFSHORE WINDFARM – EXPORT CABLE ROUTE FEASIBILTY STUDY

Title: POTENTIAL LANDFALL SITES, CABLE CORRIDORS AND SUBSTATION SITES SHEET 2 OF 2

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Fax: +44 (0)1925 572462

Drawing No.	Project No.	Issue
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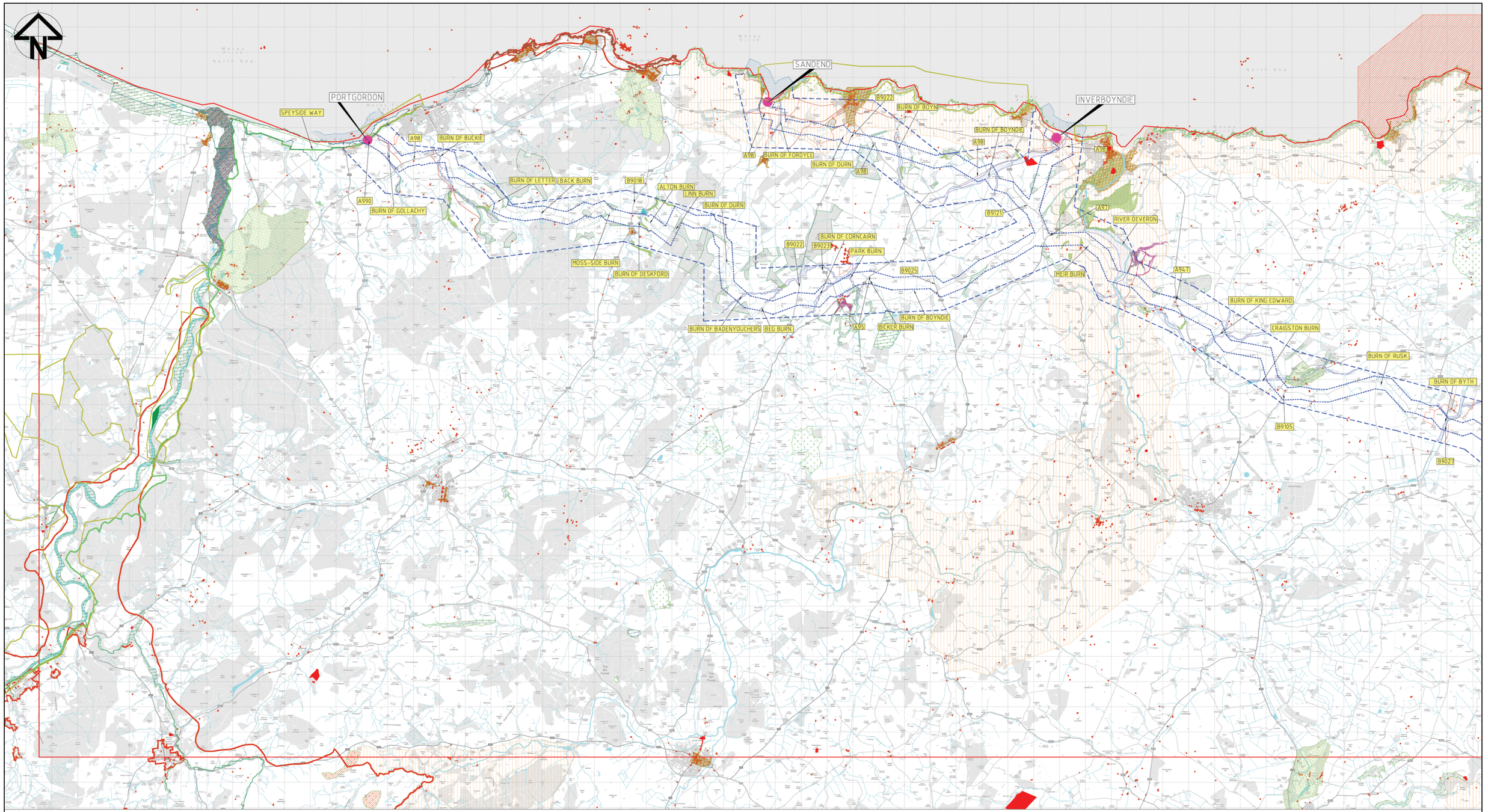


LEGEND:

- LAND STUDY AREA
- WATERCOURSES
- EXISTING SUBSTATION
- PREFERRED LANDFALL SITES
- PREFERRED SUBSTATION SITE OPTION 1
- PREFERRED SUBSTATION SITE OPTION 2
- PREFERRED 2km CABLE CORRIDOR 1 - PETERHEAD TO RATTRAY
- PREFERRED 500m CABLE CORRIDOR 1 - PETERHEAD TO RATTRAY
- PREFERRED 2km CABLE CORRIDOR 2 - PETERHEAD TO FRASERBURGH
- PREFERRED 500m CABLE CORRIDOR 2 - PETERHEAD TO FRASERBURGH
- PREFERRED 2km CABLE CORRIDOR 3 - PETERHEAD TO PORTGORDON, SANDEND AND INVERBOYNDIE
- PREFERRED 500m CABLE CORRIDOR 3 - PETERHEAD TO PORTGORDON, SANDEND AND INVERBOYNDIE

NATURE CONSERVATION
- SPECIAL PROTECTION AREAS
- SPECIAL AREAS OF CONSERVATION
- SITES OF SPECIAL SCIENTIFIC INTEREST
- RAMSAR SITES
- STUDY OF ENVIRONMENTALLY SENSITIVE AREAS SITES
- SCOTTISH WILDLIFE TRUST RESERVE
- LOCAL NATURE RESERVE
- ANCIENT WOODLAND
- SEMI-NATURAL WOODLAND
- LOCAL NATURE CONSERVATION SITES

HISTORIC ENVIRONMENT
- SCHEDULED MONUMENTS
- HISTORIC GARDENS AND DESIGNED LANDSCAPES
- LISTED BUILDINGS
- CONSERVATION AREAS
- PROPERTIES IN CARE

LANDSCAPE
- AREAS OF LANDSCAPE SIGNIFICANCE
- AREAS OF GREAT LANDSCAPE VALUE
- HISTORIC GARDENS AND DESIGNED LANDSCAPES

OTHER
- LONG DISTANCE ROUTE
- DRAFT CORE PATHS
- TREE PRESERVATION ORDER
- INDICATIVE AREAS AT RISK OF FLOODING FROM RIVERS
- INDICATIVE AREAS AT RISK OF FLOODING FROM THE SEA
- INDICATIVE AREAS AT RISK OF FLOODING FROM BOTH RIVERS AND THE SEA

Issue	Description	Date
03	THIRD ISSUE	13 JAN 11
02	SECOND ISSUE	22 DEC 10
01	FIRST ISSUE	07 DEC 10

100mm on Original

Intertek METOC

Client: SeaEnergy PLC / edp renewables

Status: PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

Scales	1: 50 000	Current Issue Signatures
Original Size	A0	Author J.NORMAN
Datum	O.S.	Checker D.HOARE
Grid	O.S.	Approver D.HOARE
Filename	FIG 6.4-UA002710-NHD-03-PREFERRED-LFSITES.DWG	© Copyright reserved

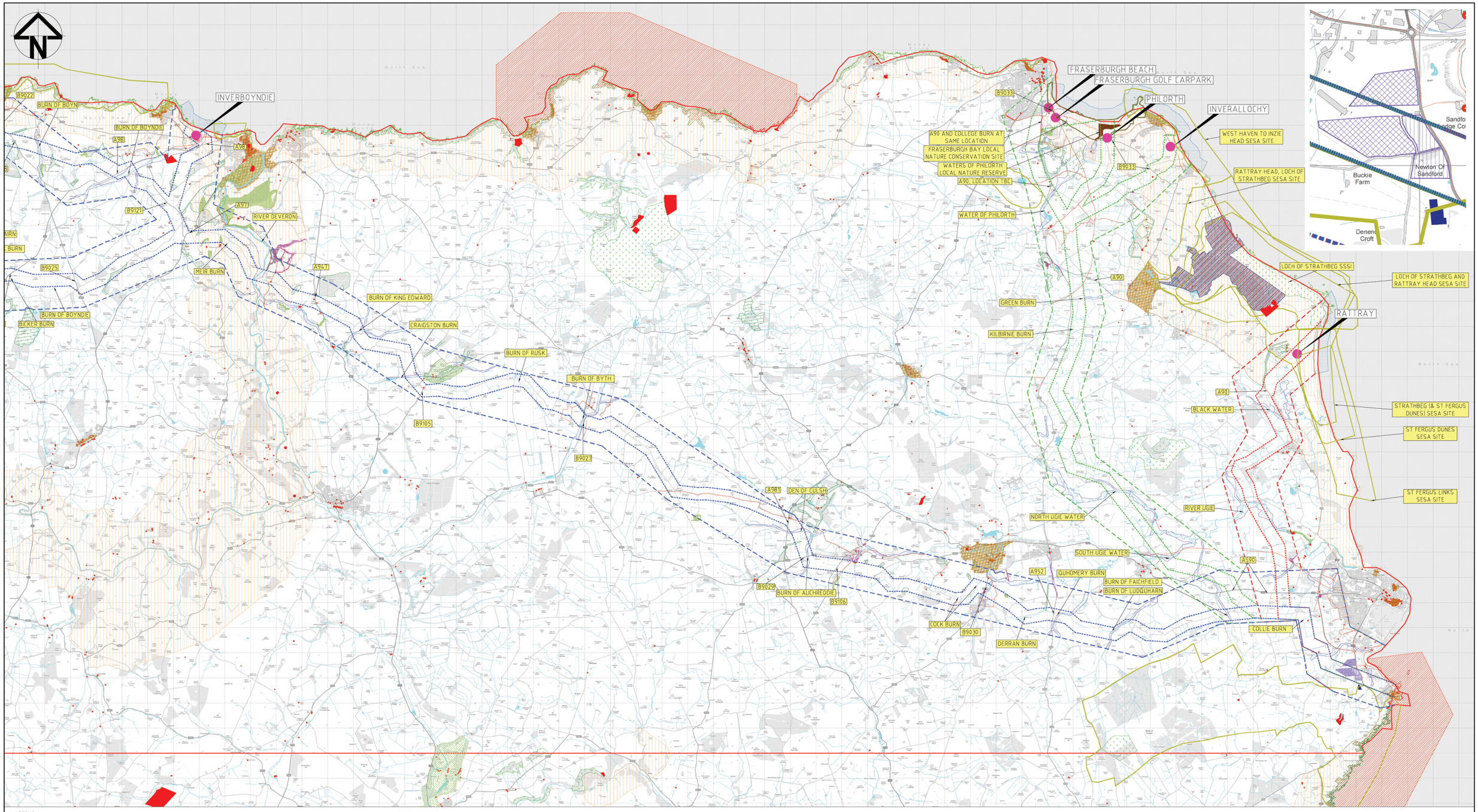
Project: MORAY FIRTH OFFSHORE WINDFARM - EXPORT CABLE ROUTE FEASIBILTY STUDY

Title: PREFERRED LANDFALL SITES, CABLE CORRIDORS AND SUBSTATION SITES SHEET 1 OF 2

Hyder Consulting (UK) Limited
330 Firecrest Court
Centre Park
Warrington
WA1 1RG
Tel: +44 (0)1925 800700
Fax: +44 (0)1925 572462

Drawing No.	Project No.	Issue
FIG 6.4	UA002710	03

Plot Date: 13/Jan/2011 2:23:05 PM File Location: K:\PROJECTS\UA002710-MORAY-FIRTH\E-OUR-DRAWINGS\FIG6.4-UA002710-NHD-03-PREFERRED-LFSITES.DWG V1



LEGEND:

- LAND STUDY AREA
- WATERCOURSES
- EXISTING SUBSTATION
- PREFERRED LANDFALL SITES
- PREFERRED SUBSTATION SITE OPTION 1
- PREFERRED SUBSTATION SITE OPTION 2
- PREFERRED 2km CABLE CORRIDOR 1 - PETERHEAD TO RATTRAY
- PREFERRED 500m CABLE CORRIDOR 1 - PETERHEAD TO RATTRAY
- PREFERRED 2km CABLE CORRIDOR 2 - PETERHEAD TO FRASERBURGH
- PREFERRED 500m CABLE CORRIDOR 2 - PETERHEAD TO FRASERBURGH
- PREFERRED 2km CABLE CORRIDOR 3 - PETERHEAD TO PORTGORDON, SANDEND AND INVERBOYNDIE
- PREFERRED 500m CABLE CORRIDOR 3 - PETERHEAD TO PORTGORDON, SANDEND AND INVERBOYNDIE

NATURE CONSERVATION
- SPECIAL PROTECTION AREAS
- SPECIAL AREAS OF CONSERVATION
- SITES OF SPECIAL SCIENTIFIC INTEREST
- RAMSAR SITES
- STUDY OF ENVIRONMENTALLY SENSITIVE AREAS SITES
- SCOTTISH WILDLIFE TRUST RESERVE
- LOCAL NATURE RESERVE
- ANCIENT WOODLAND
- SEMI-NATURAL WOODLAND
- LOCAL NATURE CONSERVATION SITES

HISTORIC ENVIRONMENT
- SCHEDULED MONUMENTS
- HISTORIC GARDENS AND DESIGNED LANDSCAPES
- LISTED BUILDINGS
- CONSERVATION AREAS
- PROPERTIES IN CARE

LANDSCAPE
- AREAS OF LANDSCAPE SIGNIFICANCE
- AREAS OF GREAT LANDSCAPE VALUE
- HISTORIC GARDENS AND DESIGNED LANDSCAPES

OTHER
- LONG DISTANCE ROUTE
- DRAFT CORE PATHS
- TREE PRESERVATION ORDER
- INDICATIVE AREAS AT RISK OF FLOODING FROM RIVERS
- INDICATIVE AREAS AT RISK OF FLOODING FROM THE SEA
- INDICATIVE AREAS AT RISK OF FLOODING FROM BOTH RIVERS AND THE SEA

Issue	Description	Date
03	THIRD ISSUE	13 JAN 11
02	SECOND ISSUE	22 DEC 10
01	FIRST ISSUE	07 DEC 10

184mm on Original

Client: SeaEnergy PLC / edp renewables

Intertek METOC

Status: PRELIMINARY
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Scales	1: 50 000	Current Issue Signatures
Original Size	A0	Author J.NORMAN / Checker D.HOARE / Approver D.HOARE
Datum	O.S	
Grid	O.S	© Copyright reserved

Filename: FIG6.4-UA002710-NHD-03-PREFERRED-LFSITES_RECOVER.DWG

Project: MORAY FIRTH OFFSHORE WINDFARM - EXPORT CABLE ROUTE FEASIBILTY STUDY

Title: PREFERRED LANDFALL SITES, CABLE CORRIDORS AND SUBSTATION SITES SHEET 2 OF 2

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Drawing No. FIG 6.4 | Project No. UA002710 | Issue 03

Plot Date: 19/Jan/2011 12:47:25 PM File Location: K:\PROJECTS\UA002710-MORAY-FIRTHYE-OUR-DRAWINGS\FIG6.4-UA002710-NHD-03-PREFERRED-LFSITES_RECOVER.DWG V1

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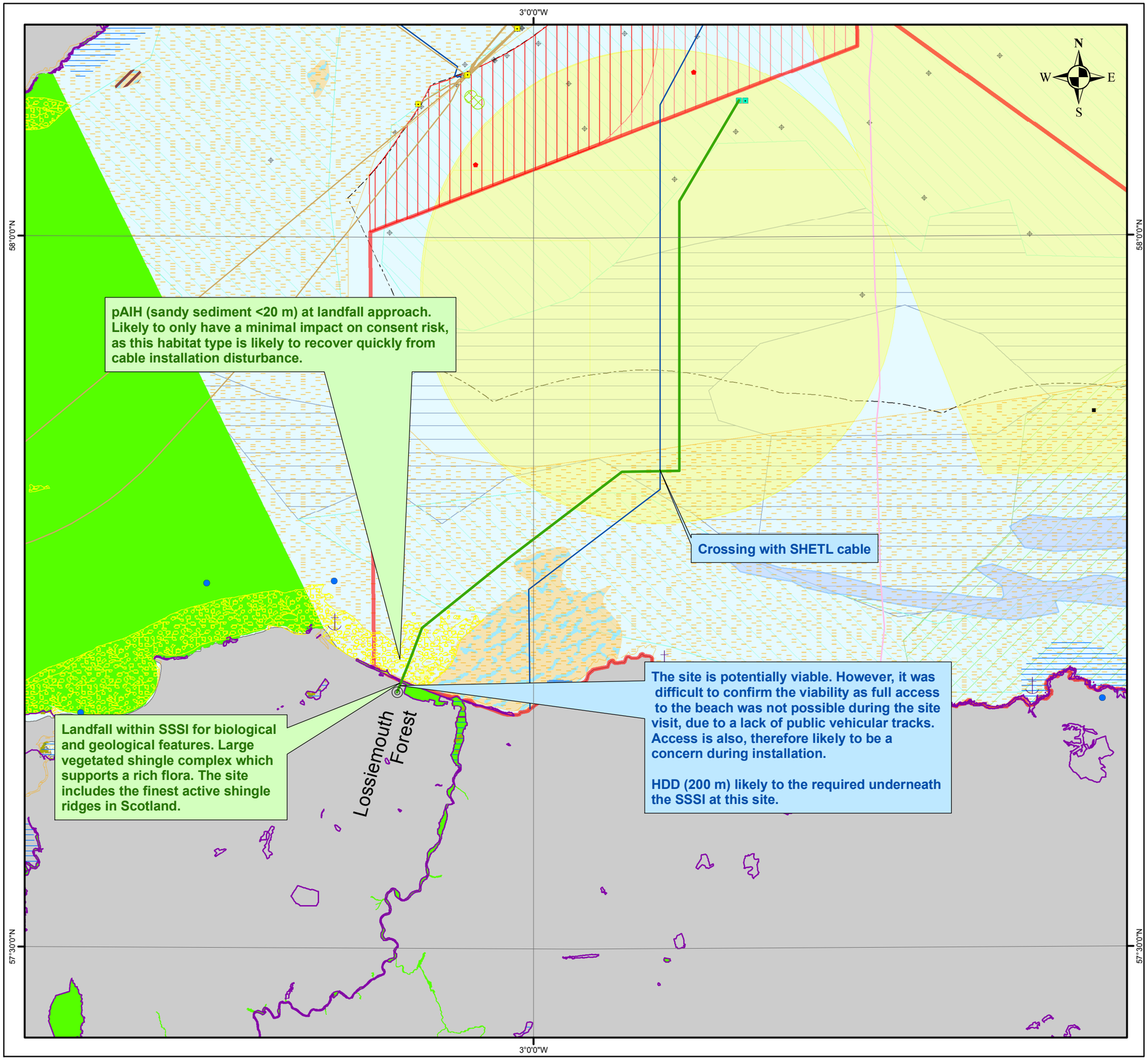
Figure 6.5. Route 1 - Key constraints



Legend

- Study area
- 12nm limit
- Lossiemouth Forest
- Route 1
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Herring spawning area
- Sandeel spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

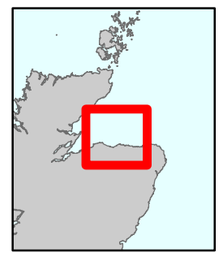
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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File Reference	J:\P1461\Mxd\Feasibility study\.mxd Fig_6.5_Route_1	
Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

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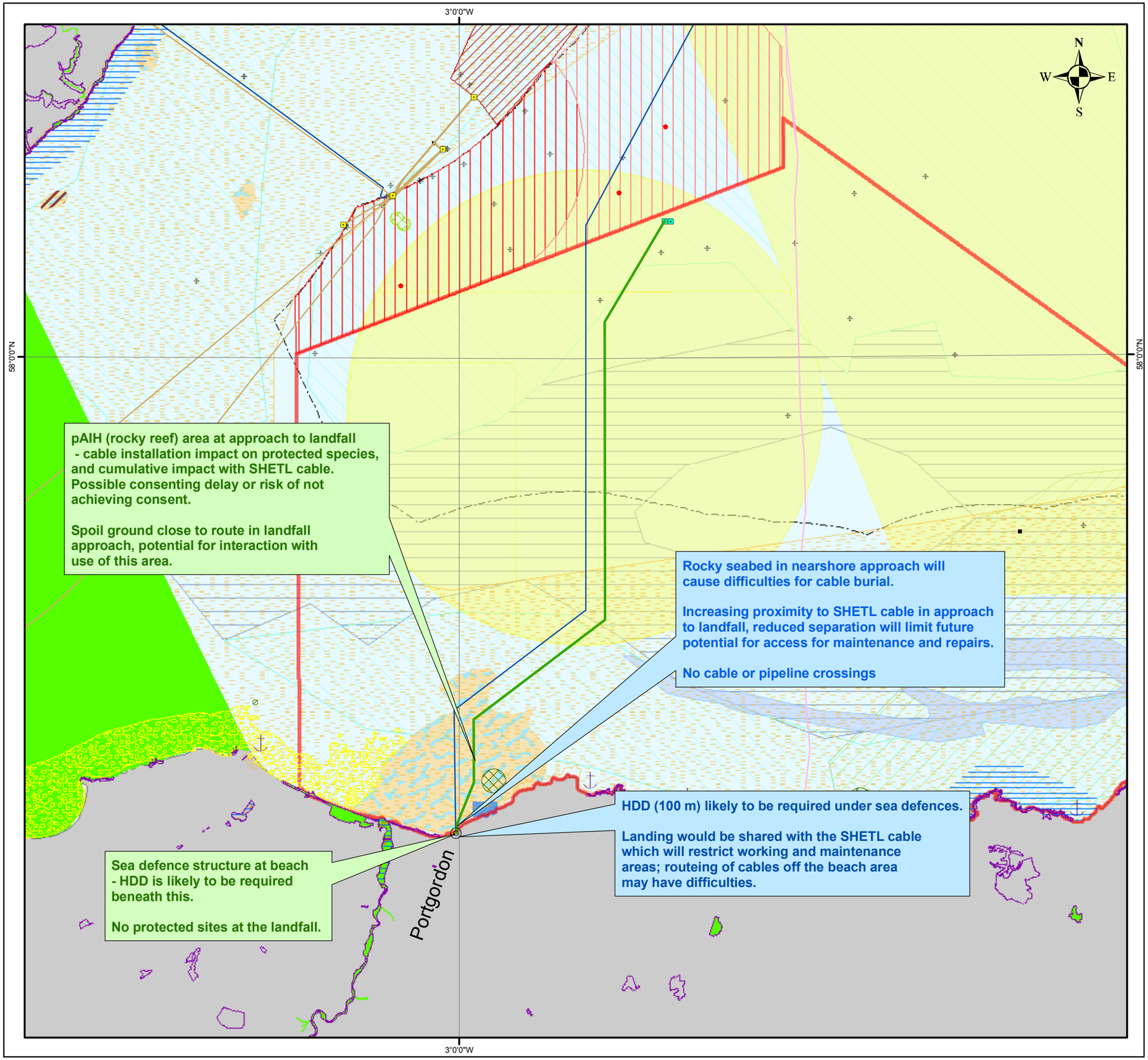
Figure 6.6: Route 2 - Key constraints



Legend

- Study area
- 12nm limit
- Portgordon
- Route 2
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

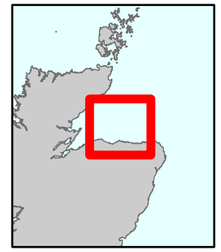
Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling

Waste disposal
- Spoil ground



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File Reference	J:\P1461\Mxd\Feasibility study\.mxd Fig_6.6_Route_2	
Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

3°0'0"W

2°0'0"W

58°0'0"N

57°30'0"N

N

W

E

S

Direct route through bottom towed gear and Nephrops trawling area likely to have a smaller impact on fishermen compared to the longer routes through their grounds.

Very direct marine route which parallels SHETL cable.

Direct route through bottom towed gear and Nephrops trawling area likely to be preferable to fishermen, compared with longer routes through their gorunds.

No cable or pipeline crossings.

Known beauty spot and close to ancient woodland.

Golf course crossing required - discussion with golf club required to determine consent implications.

Landfall site close (300 m) to existing SSSI (geological). No anticipated implications provided installation works do not enter the SSSI.

Anchorage area close to landfall site - potential increased risk of cable damage, depending on sizes of vessels using this area, and cable burial depths.

Cullen

The storage area for equipment may not easily be located and additional daily movements of equipment to site to carry out the works may be required.

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Figure 6.7: Route 3 - Key constraints

Legend

- Study area
- 12nm limit
- Cullen
- Route 3
- Land

Protected areas

- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats

- Reef
- Sandy sediment <20m

Sensitive species

- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure

- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

Oil and Gas

- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity

- MOD firing danger area

Shipping and navigation

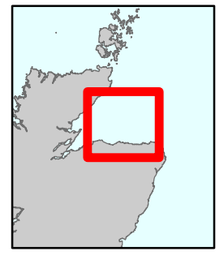
- Anchorage area
- Harbour authority area

Physical features

- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds

- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 0.5 1 2 3 4 5 km

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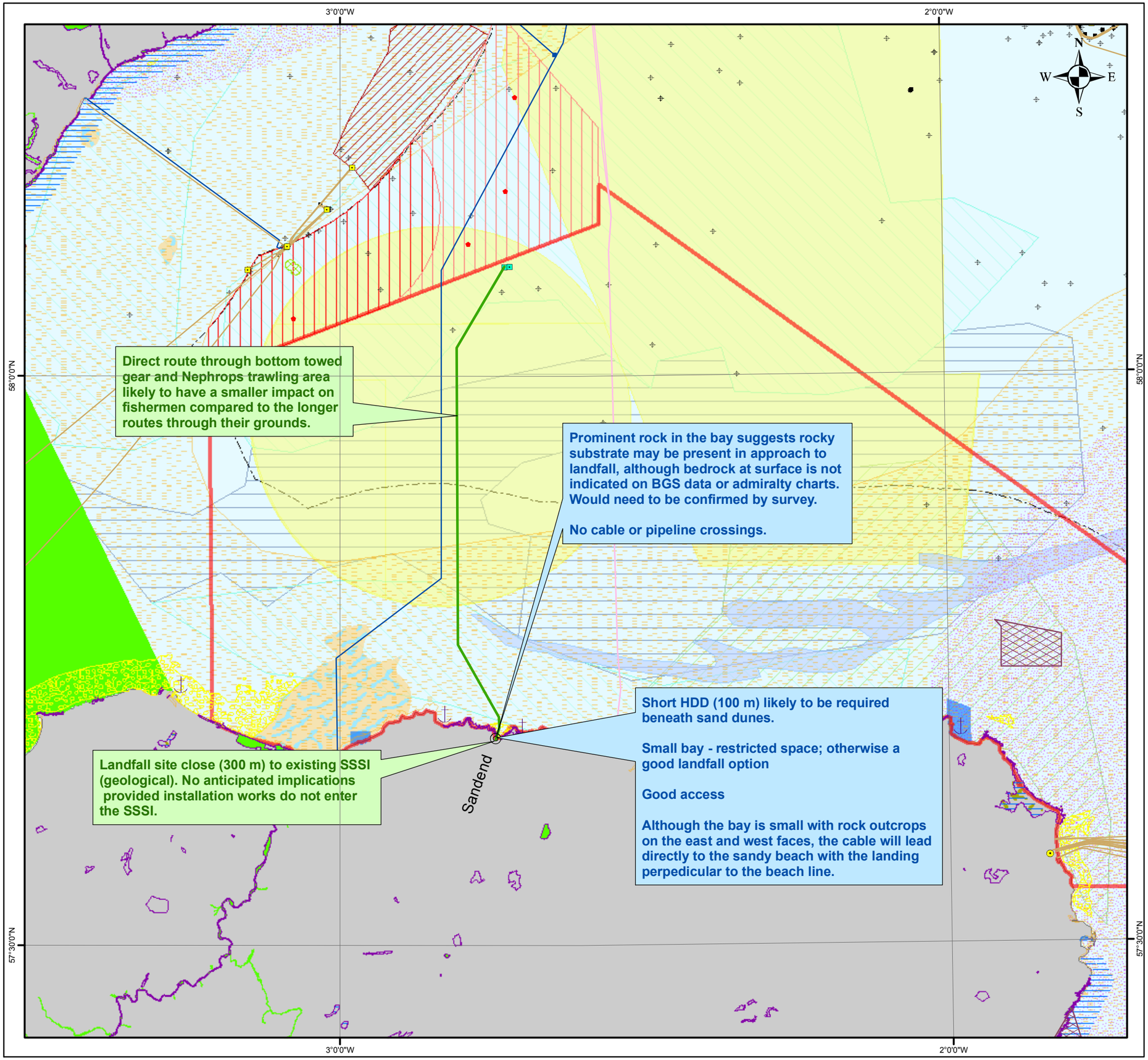
Figure 6.8: Route 4a - Key constraints



Legend

- Study area
- 12nm limit
- Sandend
- Route 4a
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

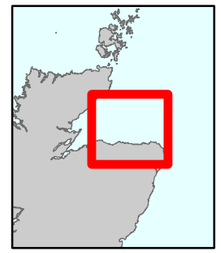
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

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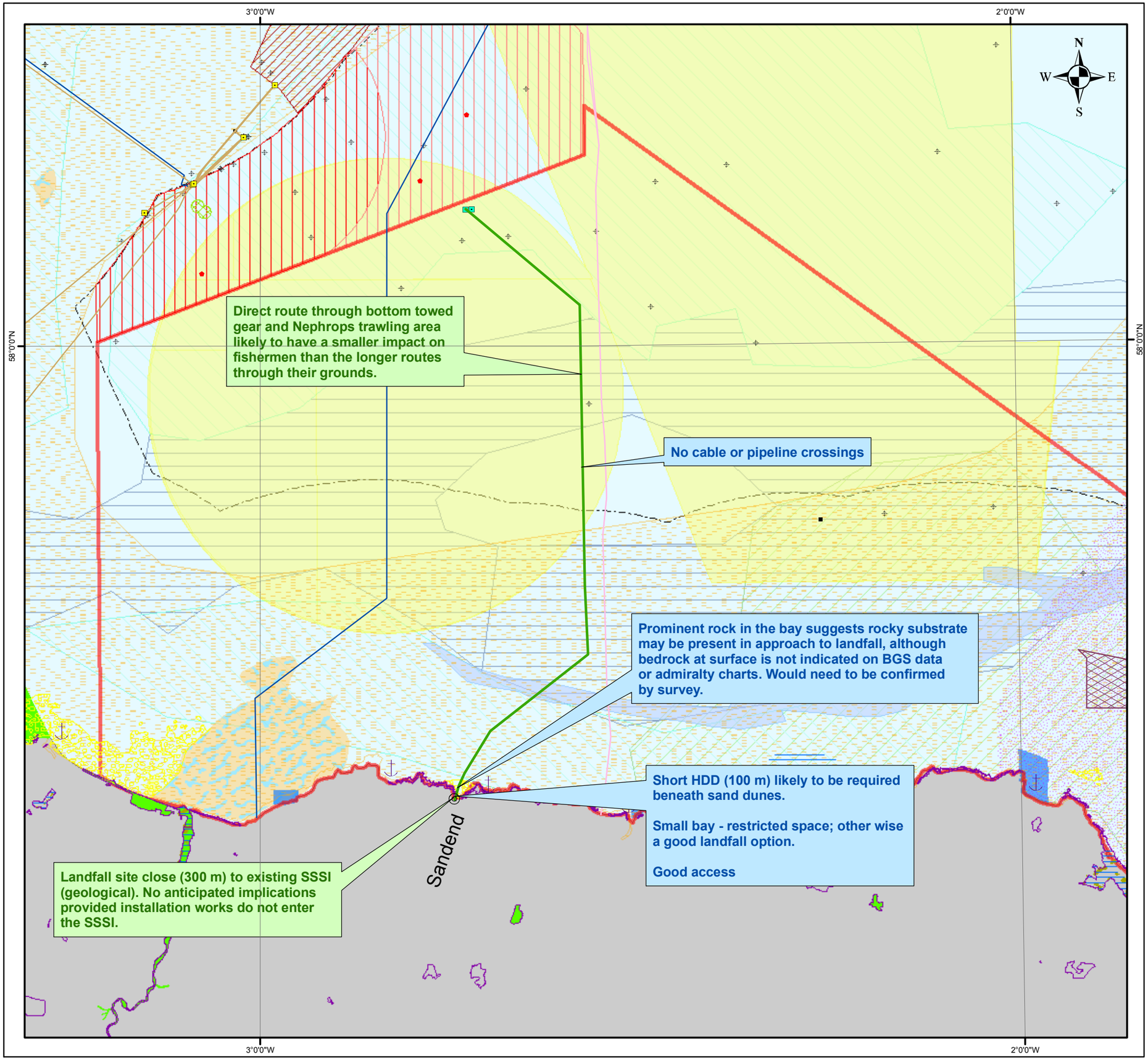
Figure 6.9: Route 4b - Key constraints



Legend

- Study area
- 12nm limit
- Sandend
- Route 4b
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

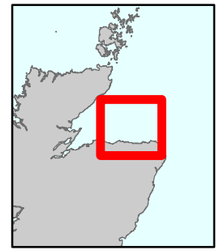
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

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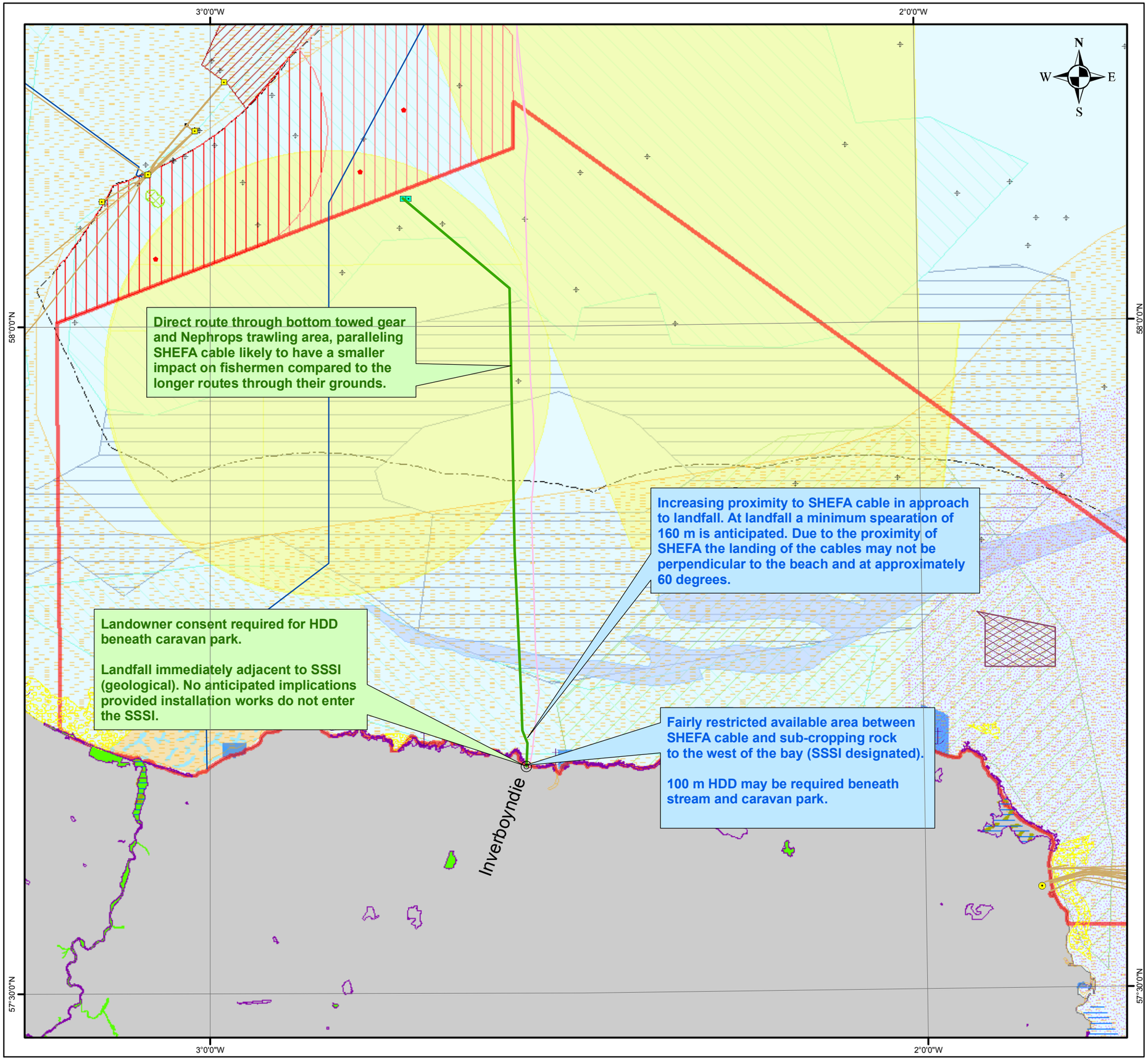
Figure 6.10: Route 5 - Key constraints



Legend

- Study area
- 12nm limit
- Inverboydie
- Route 5
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

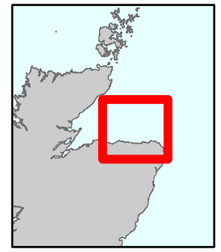
Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench



Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling

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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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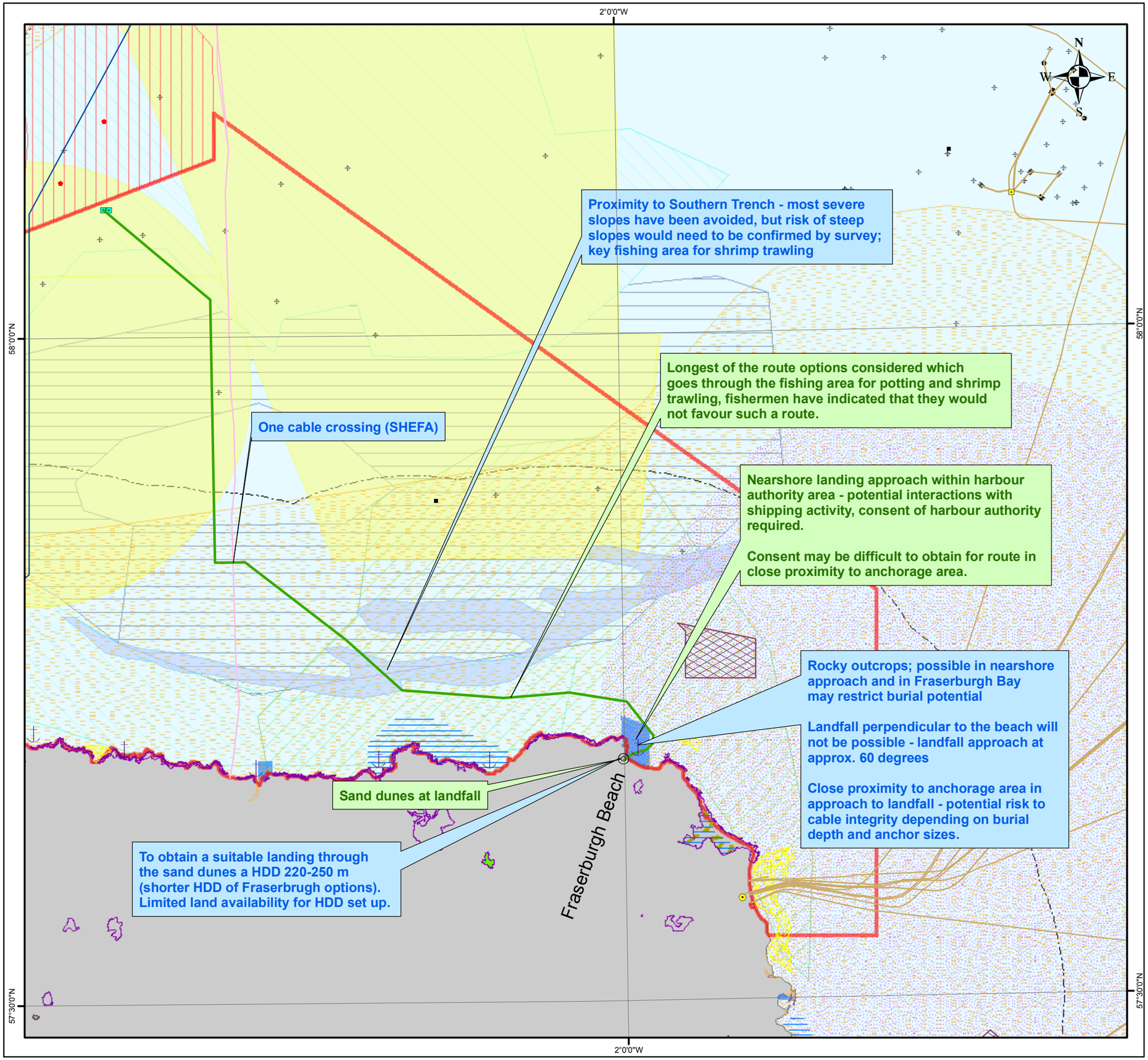
0 1.252.5 5 7.5 10 12.5 km



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Moray Firth Export Cable
Feasibility Study

Figure 6.11: Route 6 - Key constraints

Legend

- Study area
- 12nm limit
- Fraserburgh Beach
- Route 6
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

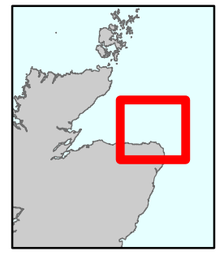
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

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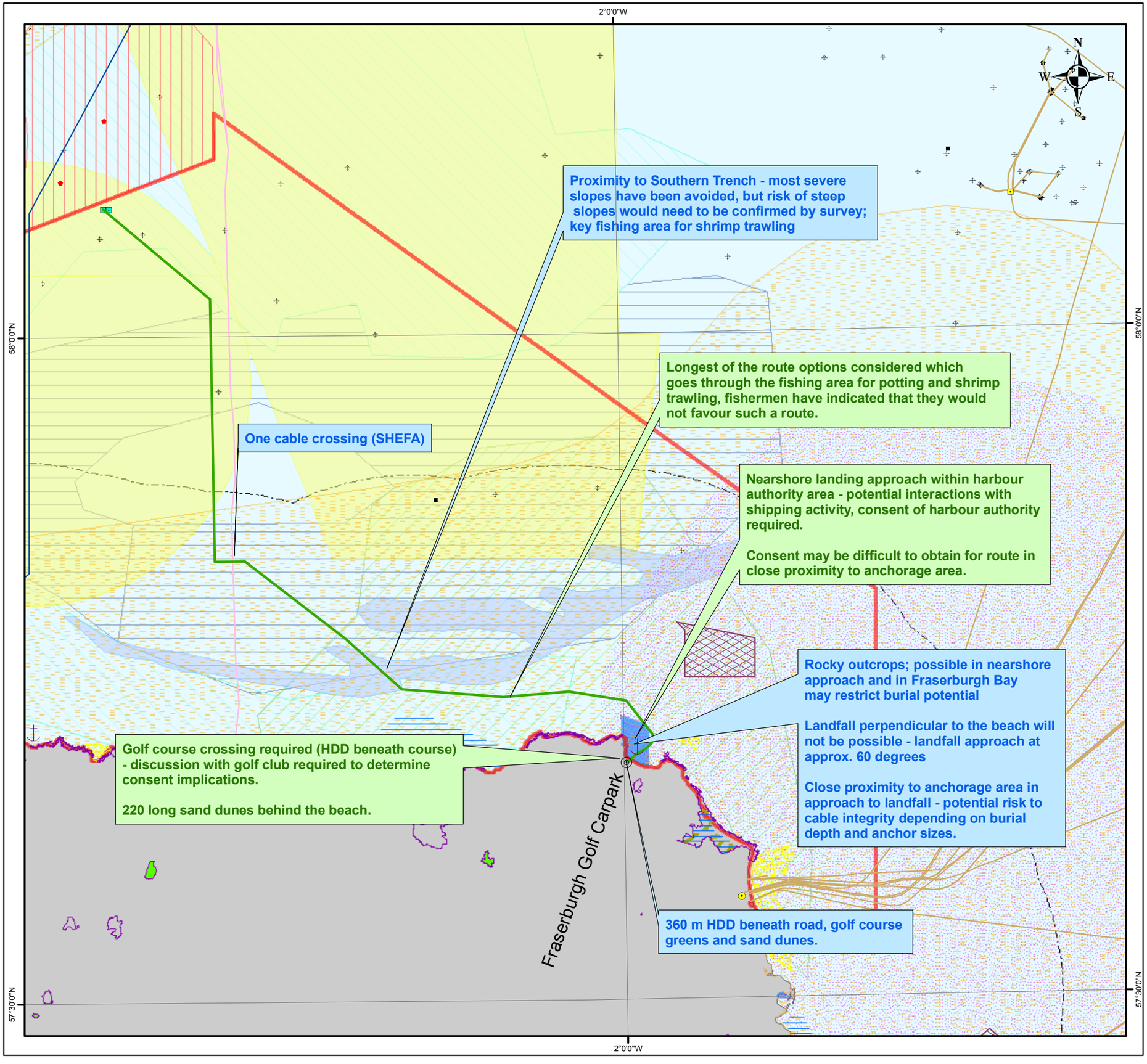
Figure 6.12: Route 7 - Key constraints



Legend

- Study area
- 12nm limit
- Fraserburgh Golf Carpark
- Route 7
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

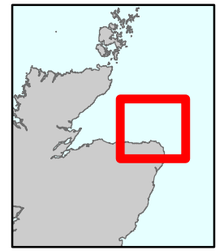
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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File Reference	J:\P1461\Mxd\Feasibility study\.mxd Fig_6.12_Route_7	
Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

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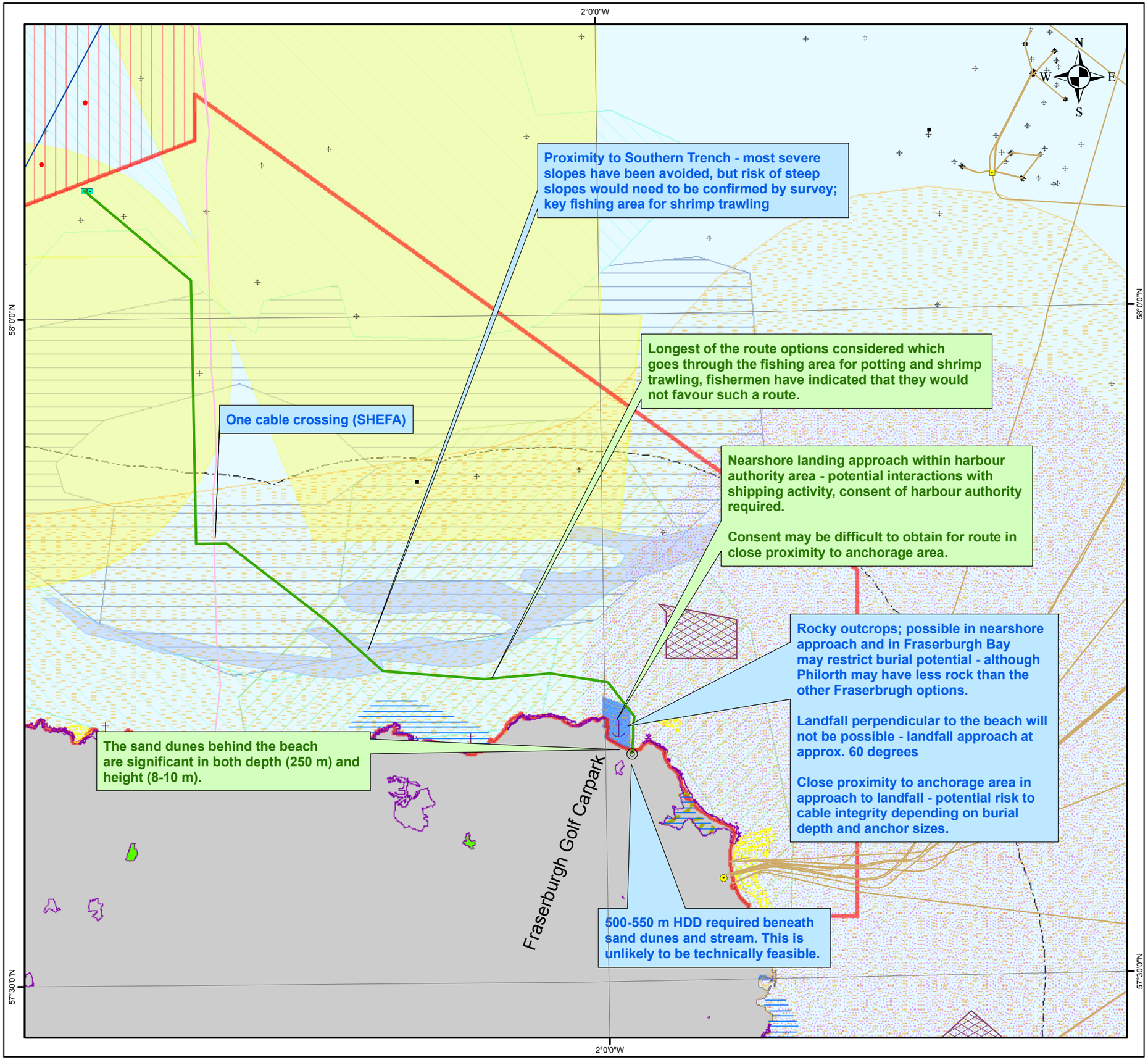
Moray Firth Export Cable
Feasibility Study

Figure 6.13: Route 8 - Key constraints



Legend

- Study area
- 12nm limit
- Philorth
- Route 8
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

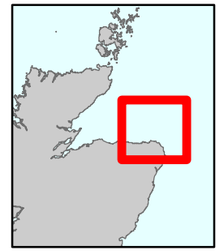
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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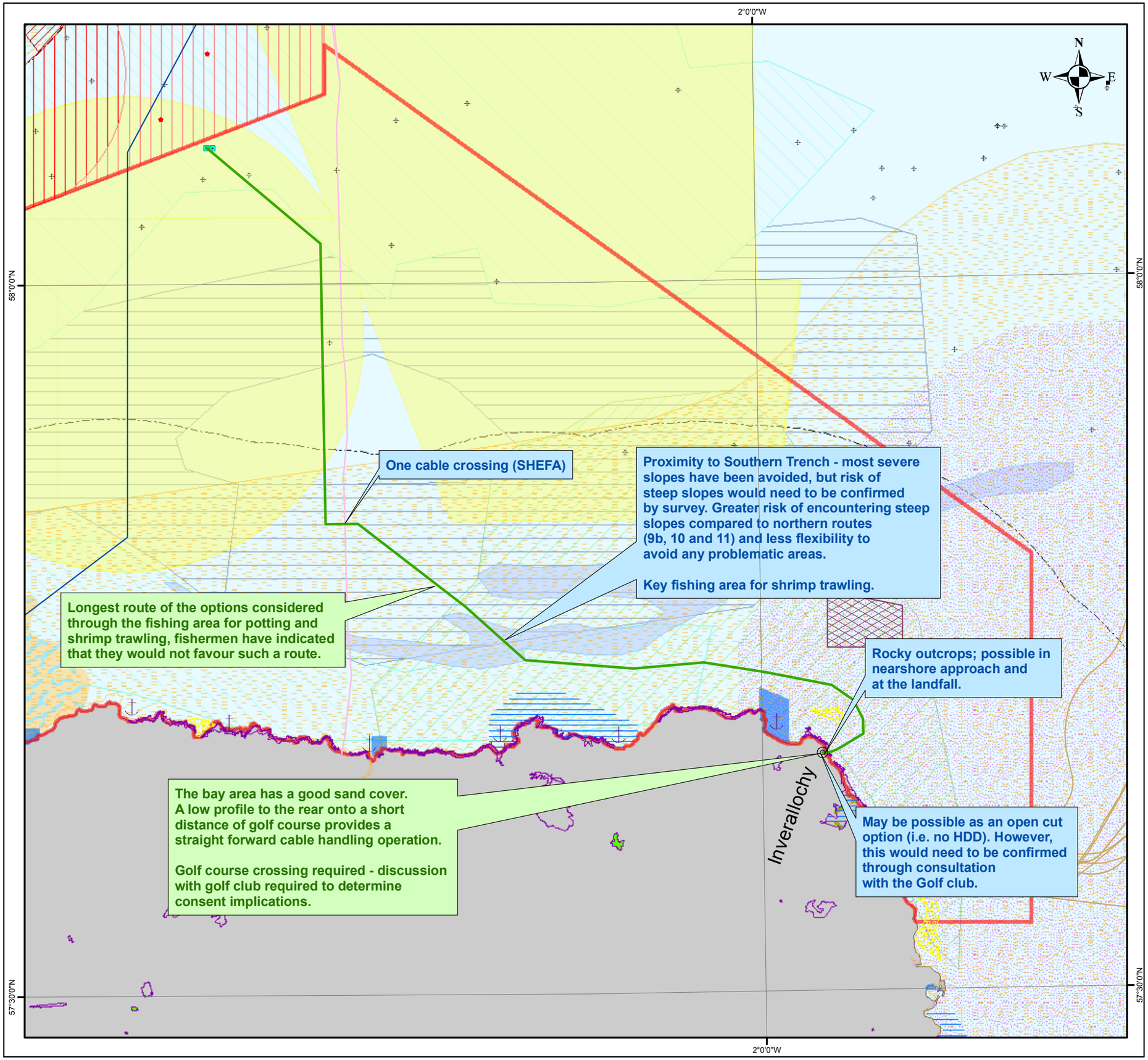
Figure 6.14: Route 9a - Key constraints



Legend

- Study area
- 12nm limit
- Inverallochy
- Route 9a
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

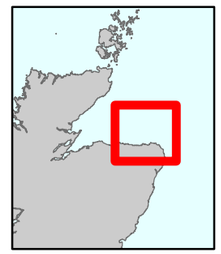
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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Checked	Produced By	David Cook
	Reviewed By	Sally Holroyd

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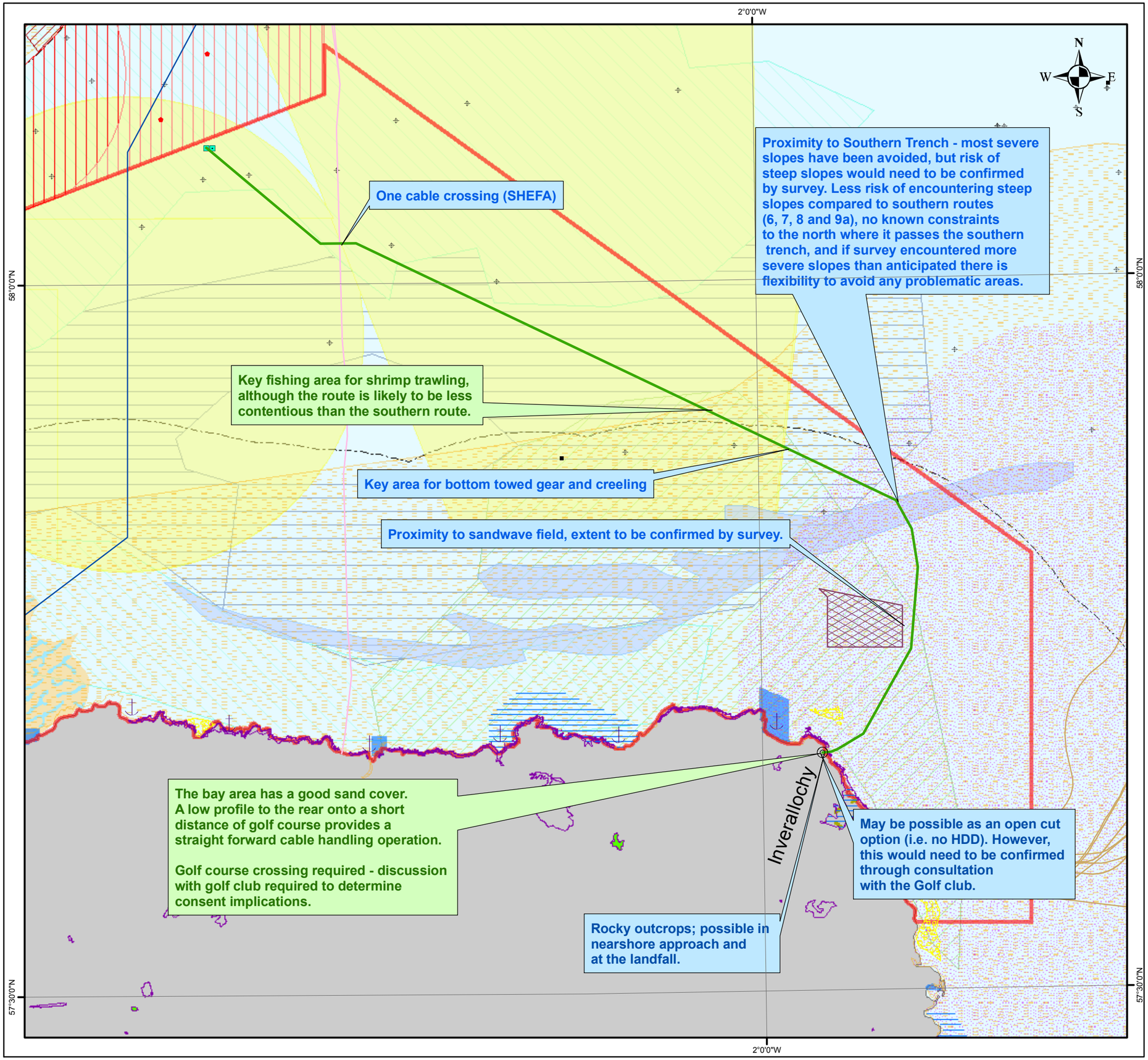
Feasibility Study

Figure 6.15: Route 9b - Key constraints



Legend

- Study area
- 12nm limit
- Inverallochy
- Route 9b
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

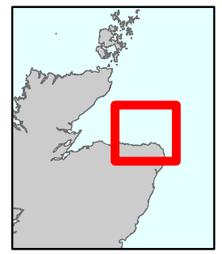
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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	Reviewed By	Sally Holroyd

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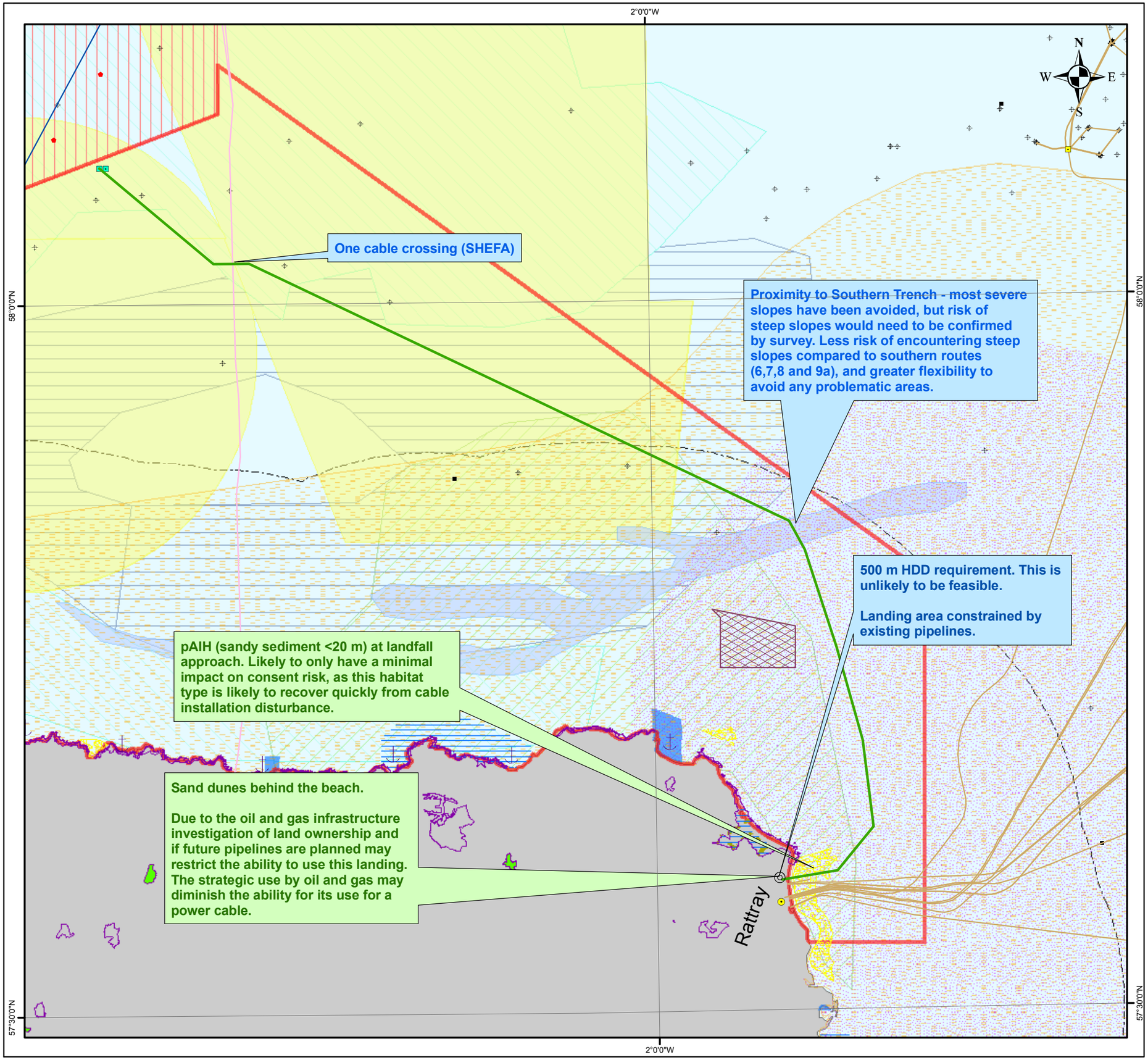

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Figure 6.16: Route 10 - Key constraints

Legend

- Study area
- 12nm limit
- Rattray
- Route 10
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

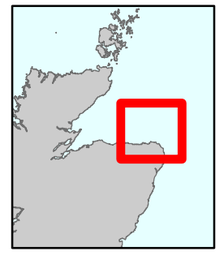
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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	Reviewed By	Sally Holroyd

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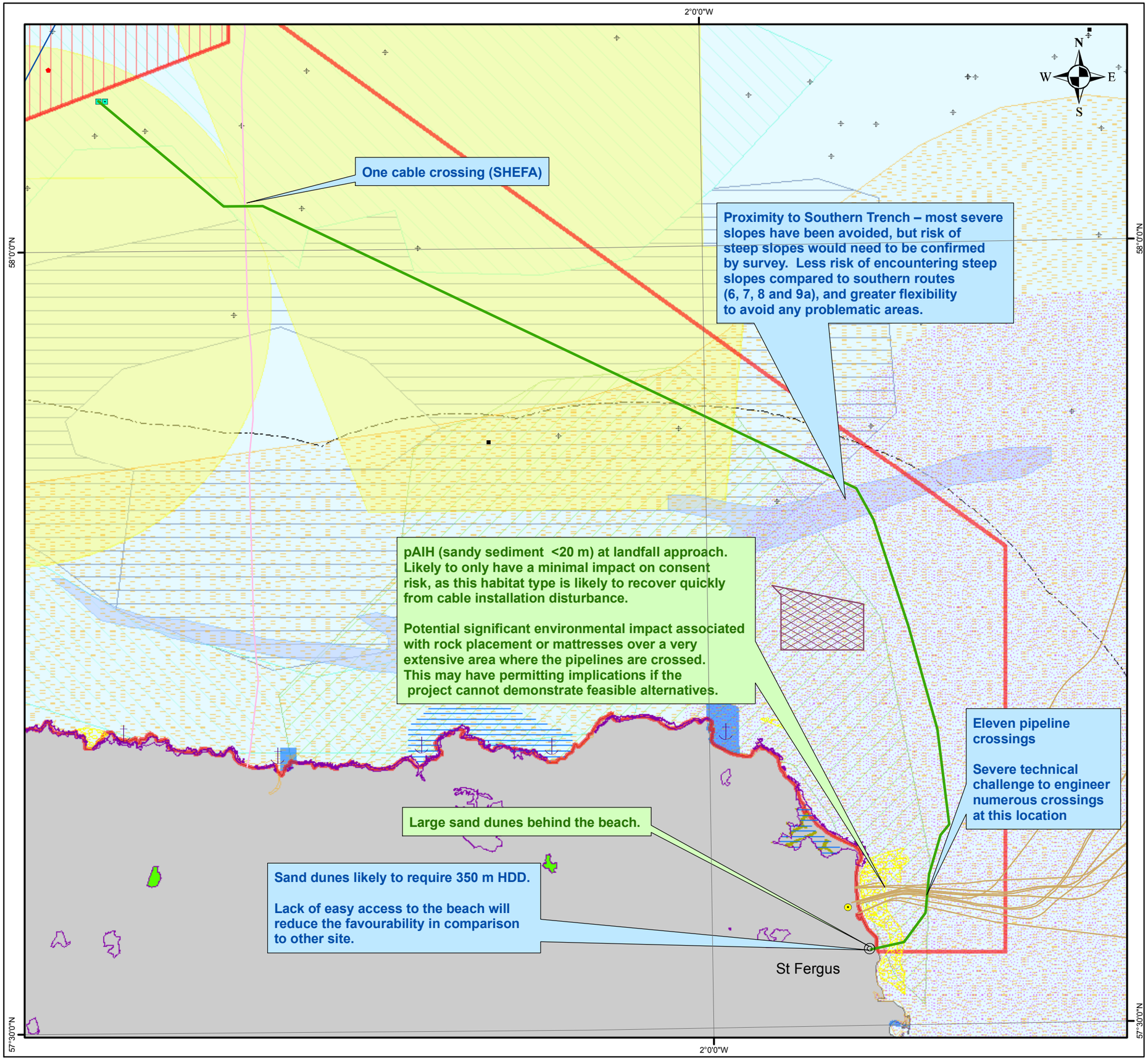

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Moray Firth Export Cable
Feasibility Study

Figure 6.17: Route 11 - Key constraints

Legend

- Study area
- 12nm limit
- St Fergus
- Route 11
- Land

Protected areas
- SPA
- SAC
- Ramsar site
- SSSI
- NNR

Potential Annex I Habitats
- Reef
- Sandy sediment <20m

Sensitive species
- Sandeel spawning area
- Herring spawning area

Windfarm infrastructure
- DC Platform
- Substation
- Beatrice Demonstrator 500m Buffer
- Eastern Moray Firth R3 zone
- Western Moray Firth R3 zone
- Beatrice windfarm extension

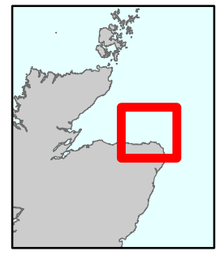
Oil and Gas
- Well
- Subsurface infrastructure
- Moray Firth HVDC hub
- Platform
- Terminal
- Pipeline
- Telecom cable
- Power cable

Military activity
- MOD firing danger area

Shipping and navigation
- Anchorage area
- Harbour authority area

Physical features
- Sediment Wave Field
- Bedrock Reef
- Southern Trench

Fishing grounds
- Bottom Towed Gear
- Creeling
- Nephrops Trawling



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	Reviewed By	Sally Holroyd

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0 1 2 4 6 8 10 km

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Appendix A Onshore component supporting material

A.1 Glossary

AC

Alternating current: Electricity distribution and transmission systems normally operate with Alternating Current (AC) at 50 Hertz (i.e. 50 sinusoidal waves per second).

Ancient Woodland

Ancient woodland is designated as being land which has been continuously wooded since AD1750 in Scotland. Scottish Planning Policy recognises the high value of ancient woods and semi-natural woodlands for nature conservation.

Appropriate Assessment

The Habitats Regulations require competent authorities to undertake Appropriate Assessments in certain circumstances where a plan or project affects a Natura (European) site. **Habitats Regulations Appraisal** (HRA) refers to the whole process, including the **Appropriate Assessment** step. Appropriate assessment is required when a plan or project affecting a Natura site:

- Is not connected with management of the site for nature conservation, and
- Is likely to have a significant effect on the site (either alone or in combination with other plans or projects)

This applies to any plan or project which has the potential to affect a Natura site, no matter how far away from that site. An Appropriate Assessment should focus exclusively on the **qualifying interests** of the Natura site affected and must consider any impacts on the **conservation objectives** of the site.

Area of Great Landscape Value

These areas have been designated at the county level and are considered to be strategically important in Moray because of their traditional landscape character, and therefore require protection from inappropriate development. Development proposals which significantly adversely affect these areas will be refused.

Area of Landscape Significance

These areas have been designated at the county level and are considered to be the best landscapes in Aberdeenshire because of their landscape quality and character and as such require protection from insensitive development or in some areas from any development at all. They are areas not only important for their physical landforms and their flora and fauna, but also for the environmental asset it represents.

Areas at Risk of Flooding from Rivers, Areas at Risk of Flooding from the Sea and Areas at Risk of Flooding from both Rivers and the Sea

Areas estimated to have a 0.5% or greater chance of flooding each year.

Coastal Protection Zone

The Moray coast is considered to be important at the county level for its landscape, nature conservation, recreation and tourism benefits. These are zones which refer specifically to the undeveloped coastline and where the ecological, geomorphological or landscape importance of the area is safeguarded from development. Development would be refused unless it meets four main planning objectives.

Conservation Areas

Conservation Areas *"are areas of special architectural or historic interest, the character or appearance of which it is desirable to preserve or enhance"* (S.61 Planning (Listed Buildings and Conservation Areas) (Scotland) Act 1997).

Conservation areas are crucial to the conservation of our environment. There are over 600 conservation areas in Scotland. Many were designated in the early 1970s, but some have since been redesignated, merged, renamed, given smaller or larger boundaries and new ones have been added. They can cover historic land, battlefields, public parks, designed landscapes or railways but most contain groups of buildings extending over areas of a village, town or city. To safeguard them for the enjoyment and benefit of future generations, any new development should preserve or enhance their varied character.

Core Paths

Core Paths are largely determined by the results of the consultations. However, Core Paths could:

- Provide opportunities for walking, cycling, horse riding and access to water
- Be multi-use paths, or may be more suitable for a particular activity
- Provide functional paths in and around communities e.g. to shops and schools as well as recreational routes for leisure
- Be an existing path or a completely new route
- A Right of Way may become a Core Path but not necessarily all will; it depends on the outcome of the consultation process
- Provide short routes in and around communities or may provide links to other path networks

But Core Paths will:

- Provide the basic framework of paths to meet communities' needs
- Minimise any potential conflict with land management
- Be well sign posted, well maintained and welcoming

Country Parks

Country Parks are areas of land close to towns and cities, managed by local authorities to give people convenient opportunities to enjoy the countryside and for open-air recreation. Country Park is a statutory designation.

Designated Coast – Undeveloped and Designated Coast – Developed

The Aberdeenshire coast is considered at the county level to be a very valuable environmental, social and economic asset which provides countryside recreation, contributes to economic growth and encompasses important natural habitats. These are areas where it is considered important to protect and enhance its special nature.

Developed Coasts are defined as the coast within the vicinity of settlements over 2,000 populations. In principle there is a presumption for development within areas of Developed Coast to be approved if it meets three planning objectives, but there is a presumption for development within Undeveloped Coast to be refused unless it can meet eight planning objectives.

Historic Gardens and Designed Landscapes

An Inventory garden and designed landscape (this is the terminology of Historic Scotland that is adopted for this report, though it is to be noted that Scottish Natural Heritage refer only to Gardens and Designed Landscapes) is a nationally important site that has been included in the Inventory of Gardens and Designed Landscapes in Scotland (the 'Inventory'). Historic Scotland undertakes compilation and management of the Inventory on behalf of Scottish Ministers. Inclusion of a site means that it receives recognition and a degree of protection through the planning system. These are grounds that are consciously laid out for artistic effect and most often contain architectural features, trees, shrubs, flowers, water features, lawns, woodland and parkland. These gardens are valuable assets which can be threatened by inappropriate development.

Holford Rules

Broad principles for overhead transmission line routeing were formulated by the late Lord Holford, in 1959. These rules, known as the 'Holford Rules', have become accepted within the electricity transmission industry as the basis for overhead transmission line routeing. The basic principle of the Holford Rules is that the routeing of overhead transmission lines should avoid altogether, if possible, the major areas of high amenity value on the basis of their nature conservation interest or landscape importance.

HVDC

High Voltage Direct Current is an alternative means of transmitting electricity to the more commonly used AC systems. There is a practical limit to the length of AC subsea cables of around 80 km because of the cable charging current to continually charge and discharge the cable as the AC current alternates. With DC the current does not alternate so reducing a limitation to circuit length, but converter stations are required at each end to convert from AC to DC and vice versa.

Listed Building

Listed buildings are structures of special architectural or historic interest. The criteria by which the Scottish Ministers define the necessary quality and character under the Planning (Listed Buildings and Conservation Areas) (Scotland) Act 1997 are broadly:

- Age and Rarity
- Architectural Interest

- Close Historical Association

The criteria provide a framework within which professional judgment is exercised in reaching individual decisions. It is rarely one factor alone which qualifies a subject for designation, but rather a combination of many.

The listing applies to the whole building or structure at the address named on the list and always covers both the interior and exterior, regardless of category. The local planning authority is responsible for determining what is covered by the listing and whether or not other structures at the address may also be considered to be covered by the listing.

Buildings are assigned to one of three categories (A, B and C(S)) according to their relative importance. All listed buildings receive equal legal protection, and protection applies equally to the interior and exterior of all listed buildings regardless of category.

Local Nature Conservation Sites (LNCS)

Local Nature Conservation Sites is a non-statutory designation given by local authorities to areas of locally important nature and landscapes. Scottish Natural Heritage has recommended that all local authorities in Scotland should adopt the LNCS name in place of the many different local names (for example, non-statutory local designated sites within Aberdeen are presently called Sites of Interest to Natural Science (SINS) and District Wildlife Sites (DWS)).

Local Nature Reserve (LNR)

A Local Nature Reserve is designated by a local authority because it is locally important for wildlife, and because it offers opportunities for local people to learn about and enjoy the natural heritage. Most LNRs are situated near centres of population and may or may not be designated as Sites of Special Scientific Interest (SSSIs).

Long Distance Routes

These are long distance routes for walking, cycling and horse riding through the finest landscapes in Scotland. They have been created by linking existing local footpaths, bridleways and minor roads and by developing new ones where there were gaps. There are four long distance routes in Scotland.

National Nature Reserves (NNR)

National Nature Reserves are special places for nature, where many of the best examples of Scotland’s wildlife and landscapes are protected. NNRs are of national importance and their management aims to put nature first. There are more than 50 National Nature Reserves in Scotland. These special places, showcasing the very best of Scotland's nature, cover less than 1.5% of Scotland.

National Parks

National Parks of Scotland are managed areas of outstanding landscape where habitation and commercial activities are restricted. At present, Scotland has two National Parks: Loch Lomond and the Trossachs National Park, created in 2002, and the Cairngorms National Park, created in 2003. These were designated as such under the National Parks (Scotland) Act 2000 which

was an early piece of legislation passed by the Scottish Parliament not long after its creation in 1999.

National Scenic Areas

These areas were designated by Scottish Natural Heritage's predecessor the Countryside Commission for Scotland (1981) and are defined by legislation as areas of *"outstanding scenic value in national context"* and considered to be equivalent to the Areas of Outstanding Natural Beauty in England. The special qualities of the National Scenic Area are safeguarded through the local authority planning system. There are 40 National Scenic Areas in Scotland.

Natura Site

Natura sites represent the very best of Scotland's nature. Natura is the term given to Special Areas of Conservation (SACs) and Special Protection Areas (SPAs). These internationally important sites are designated under two of the most influential pieces of European legislation relating to nature conservation, the Habitats Directive and the Birds Directive.

Natural Burial Grounds

Natural burial grounds (also known as woodland or green burial grounds) are plots of land that are designated for natural burials. There are over 200 sites around the UK.

Non-Statutory Local Designated Sites

Non-statutory local designated sites are sites of local importance for nature conservation. These include Study of Environmentally Sensitive Areas Sites (SESAs), Scottish Wildlife Trust Reserves, Sites of Interest to Natural Science (SINS) and District Wildlife Sites (DWS). These Local Designated Sites are currently under review. Those that sites that meet new criteria will be known as Local Nature Conservation Sites (LNCS).

Properties in Care

Properties in Care are properties and sites managed by Historic Scotland on behalf of others, including Scottish Ministers. There are 345 buildings and monuments, and most, but not all, are scheduled and/or listed. Of these, 74 are staffed and charge admission.

Ramsar

The Ramsar Convention is an international treaty for the conservation and sustainable utilisation of wetlands. It aims to prevent the progressive encroachment on and loss of wetlands, recognising the fundamental ecological functions of wetlands and their economic, cultural, scientific, and recreational value. Criteria for designation were agreed at the Ramsar Convention in Iran 1971. There are currently 51 Ramsar sites designated as internationally important wetlands in Scotland, covering a total area of about 313,500 hectares.

Scheduled Monument

A scheduled monument is a monument of national importance that Scottish Ministers have given protection under the Ancient Monuments and Archaeological Areas Act 1979. Although the majority are on land, a small number lie under the sea. Historic Scotland, an executive agency of the Scottish

Government, recommends monuments for scheduling, actively encourages positive management of scheduled monuments and controls works to them through the legal consent process.

Scottish Environmental Protection Agency (SEPA)

SEPA is Scotland's environmental regulator and adviser and is responsible to the Scottish Parliament through Ministers. SEPA's aims include achieving good water, air and land quality, minimising and managing waste, and promoting economic wellbeing whilst engaging communities.

Scottish Natural Heritage (SNH)

SNH is the guardian of Scotland's natural heritage including land, water, coastal and marine areas, woodlands, hills and open spaces.

Scottish Wildlife Trust Reserves

Scottish Wildlife Trust has over 120 wildlife reserves totalling 20,000 hectares. The network is broadly representative of Scottish wildlife habitats, including urban greenspaces. Reserves are managed to conserve and re-build biodiversity, improve public access to Scotland's natural heritage and for education and demonstration use.

Semi-natural Woodland

Semi-natural woodlands are composed of locally native trees and shrubs which derive from natural regeneration or coppicing rather than planting. Because of their natural features and appearance, semi-natural woodlands are valuable for nature conservation and in the landscape, and many are important for recreation and for historical and cultural interest.

Site of Special Scientific Interest (SSSI)

Sites of national importance for their flora, fauna, geological or physiographical features. SSSIs are designated under the Nature Conservation (Scotland) Act, 2004. There are just over 1,450 SSSIs in Scotland.

Special Area of Conservation (SAC)

A Special Area of Conservation (SAC) is a site designated under the Habitats Directive. SACs form part of Natura 2000 and are designated for a number of habitats and species, both terrestrial and marine, which are listed in the Habitats Directive.

Special Protection Area (SPA)

A Special Protection Area (SPA) is a site designated under the Birds Directive. SPAs form part of Natura 2000, and are designated for a number of rare, threatened or vulnerable bird species listed in Annex I of the Birds Directive, and also for regularly occurring migratory species.

Study of Environmentally Sensitive Areas Sites (SESA)

The Study of Environmentally Sensitive Areas is an Aberdeenshire Council/Aberdeen City Council inventory and recognises areas that are locally important for a particular scientific interest.

Substation

An electricity substation is a node where circuits come together and are switched for onward transmission of power, and/or where power is transformed to a lower voltage and distributed through a distribution network to customers.

The substations for this study will include converter station equipment. This equipment converts the AC current (generated by the proposed wind farm) to DC (Direct Current) for transmission in the sub-sea cable and *vice versa* at the other end of the cable for interfacing with the AC grid.

The Birds Directive

The *EC Council Directive on the Conservation of Wild Birds 79/409/EEC* is commonly known as the Birds Directive. It protects all wild birds, their nests, eggs and habitats within the European Community. It gives member states of the European Union the power and responsibility to classify Special Protection Areas (SPAs) to protect birds which are rare or vulnerable in Europe, as well as all migratory birds which are regular visitors. In Scotland, the requirements of the Birds Directive are translated into specific legal obligations by the Habitats Regulations.

The Habitats Directive

The *EC Council Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora 92/43/EEC* is commonly known as the Habitats Directive. It complements and amends the Birds Directive. The Habitats Directive is a major contribution by the European Community to implementing the Biodiversity Convention agreed by more than 150 countries at the 1992 Rio Earth Summit. As well as establishing Natura sites and setting out how they should be protected, the Directive has a number of wider implications, such as those relating to European Protected Species. In Scotland, the requirements of the Habitats Directive are translated into specific legal obligations by the Habitats Regulations.

The Habitats Regulations

The Conservation of Habitats and Species Regulations 2010 implement the *EC Council Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora 92/43/EEC* (the Habitats Directive) and the *EC Council Directive on the Conservation of Wild Birds 79/409/EEC* (the Birds Directive).

Tree Preservation Order

A Tree Preservation Order (TPO) is a legal procedure used by the local authority to protect individual trees, groups of trees or woodland areas which are considered to have significant ecological, recreational, historical, shelter or landscape value.

Undesignated Heritage Assets

Those heritage assets without statutory designation, but considered worthy of recording.

A.2 Defining potential and preferred corridors and substation sites

A.2.1 Defining Potential and Preferred Corridors

Criteria Adapted from the Holford Rules

Unlike the Holford Rules for overhead transmission lines, there is little established practice for defining the routeing of underground cables. However, a recent document reviewing the use of underground cables as an alternative to overhead lines[1] provided a set of practical considerations which enable underground cable routes to be identified that, on balance, cause the least disturbance to the environment and the people who live, work and use it for recreation.

The routeing considerations are not a set of hierarchical rules or guidelines such as the Holford Rules for the routeing of high voltage overhead transmission lines. They are a set of practical considerations at three different levels of detail which enable a route to be identified, whilst balancing these factors, during construction, operation and decommissioning, to the environment and the people who live, work and use it for recreation. Construction activities are taken to include reinstatement after construction.

The Strategic Routeing Considerations are set out in the form of considerations, the Detailed Routeing Considerations are set out in terms of a preference to avoid and the Deviation Considerations are set out in terms of avoid if possible. It is considered that this is the best way of guiding the balance between technical, environmental and financial considerations that must be struck at each level of routeing considerations.

It should be noted that Strategic Routeing Considerations may carry forward to become or to inform Detailed Routeing Considerations and similarly Detailed Routeing Considerations may carry forward to become or to inform Deviation Considerations.

The considerations are presented below.

Strategic Routeing Considerations

- Consider avoiding areas of environmental designation in which underground cable construction, operation or decommissioning might affect the purpose of designation
- Consider the ground and slope conditions along the route into which the cable system must be installed. Consider whether the ground is stable and can it reasonably, be expected to remain stable and suitable for the service life of the cable system. Consider if the ground is suitable for use in reinstatement to avoid the need for imported backfill
- Consider the practicality of moving any obstructions which would constrain the cable route
- Consider whether the cable route will have an adverse impact on the local and surrounding environment. Consider whether this impact be

1 PB Power in association with MTLA and CCI. Ibid

mitigated by route selection

- Consider whether the cable route can be viewed from above, and if so, what length will be seen, at what distance, over what type of ground cover with what probability of successful long term reinstatement
- Consider whether the cable route is one within which it is safe to construct a cable system. Consider if constructed will the cable system provide the required service life? Will the system be economic and maintainable? Will the installation be safe and have an acceptable level of reliability when in operation for owners, operators and third parties?
- Consider the disruption the construction, operation and decommissioning of a cable route would cause to third parties, is it possible to mitigate and is it possible to do this by route selection?
- Consider avoiding wet areas and habitats that are sensitive to the construction, operation and decommissioning of underground cables, particularly habitats that are difficult to reinstate successfully
- Consider avoiding areas known to be occupied by protected species and/or their habitats
- Consider following existing linear features particularly those that have already created habitat disturbance such as existing overhead lines or habitat and hydrological disturbance such as roads or railways
- Consider access for construction and operation. Consider use of existing roads and tracks and consider the existing road network in terms of the effects of road closure and disruption. Consider the use of existing crossings / structures at roads and railways. For river crossings consider height and steepness of banks, substrate and width of river and use of existing structures

Detailed Routeing Considerations

- Preferable to avoid areas of flooding for joint bays
- Preferable to avoid steep side slopes (cross slopes) and gradients
- Preferable to follow existing linear features particularly those that have already created disturbance such as roads or existing overhead line wayleaves
- Preferable to make as much use of existing access as possible but preferable to avoid reliance on rural roads that would require alteration
- Preferable to avoid loss of landscape features such as individual trees, hedges, semi-natural and other woodlands and commercial forestry preferable to utilise existing gaps
- Preferable to cross water courses and other infra-structure at the most accessible points
- Preferable to avoid known archaeology
- Preferable to avoid water supplies
- Preferable to avoid areas where excavation or ground levels may change in the future
- Preferable to avoid areas with unstable, contaminated or high thermal resistivity ground

- Preferable to avoid settlements, particularly those with a concentrated pattern of development

Deviation Considerations

- Avoid if possible unknown archaeology when it is identified
- Avoid if possible the root zones of semi-mature and mature trees
- Avoid if possible cable route obstructions such as large boulders
- Avoid if possible ground with high thermal resistivity
- Avoid if possible unsafe, unstable or contaminated ground
- Avoid if possible protected species and/or their habitats particularly during the breeding season
- Avoid if possible close proximity to existing overhead lines, cables and other system equipment which may require system outages
- Avoid if possible close proximity to other utilities and services

A.2.2 Defining Potential and Preferred Substation Sites

The approach adopted was based on the Holford Rules (Supplementary Notes on the Siting of Substations). These are as follows:

a) Respect areas of high amenity value and take advantage of the containment of natural features such as woodland, fitting in with the landscape character of the area.

b) Take advantage of ground form with the appropriate use of site layout and levels to avoid intrusion into surrounding areas.

c) Use space effectively to limit the area required for development, minimising the effects on existing land use and rights of way.

d) Alternative designs of substations may also be considered, e.g. ‘enclosed’, rather than ‘open’, where additional cost can be justified.

e) Consider the relationship of towers and substation structures with background and foreground features, to reduce the prominence of structures from main viewpoints.

f) When siting substations take account of the effects of line connections that will need to be made.

A.3 Geological / Geomorphological Statutory Designated Sites within the Land Study Area

Designation	Name	Category	Feature
Sites of International Importance			
SAC	Lower River Spey - Spey Bay*	Broad-leaved, mixed and yew woodland	Alder woodland on floodplains
		Supralittoral sediment (Coast)	Coastal shingle vegetation outside the reach of waves
SAC	Buchan Ness to Collieston	Supralittoral rock (Coast)	Vegetated sea cliffs
Sites of National Importance			
SSSI	Spey Bay*	Geomorphology	Coastal Geomorphology of Scotland
		Fen, marsh and swamp (Wetland)	Hydromorphological mire range
		Littoral sediment (Coast)	Saltmarsh
		Broad-leaved, mixed and yew woodland	Scrub
		Supralittoral sediment (Coast)	Shingle
SSSI	Dipple Brae	Palaeontology	Silurian - Devonian Chordata
SSSI	Tynet Burn	Palaeontology	Silurian - Devonian Chordata
SSSI	Cullen to Stakeness Coast*	Structural and metamorphic geology	Dalradian
		Neutral grassland	Lowland neutral grassland
		Supralittoral rock (Coast)	Maritime cliff
		Quaternary geology and geomorphology	Quaternary of Scotland
		Supralittoral sediment (Coast)	Sand dune
		Supralittoral sediment (Coast)	Shingle
		Fen, marsh and swamp (Wetland)	Transition saltmarsh
SSSI	Bin Quarry	Igneous petrology	Caledonian Igneous
		Mineralogy	Mineralogy of Scotland
SSSI	Cullen to Stakeness Coast*	Structural and metamorphic geology	Dalradian
		Neutral grassland	Lowland neutral grassland
		Supralittoral rock (Coast)	Maritime cliff
		Quaternary geology and geomorphology	Quaternary of Scotland
		Supralittoral sediment (Coast)	Sand dune
		Supralittoral sediment (Coast)	Shingle
		Fen, marsh and swamp (Wetland)	Transition saltmarsh
SSSI	Whitehills to Melrose Coast	Structural and metamorphic geology	Dalradian
SSSI	Gamrie and Pennan Coast*	Structural and metamorphic geology	Dalradian
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding
		Supralittoral rock (Coast)	Maritime cliff
		Birds - aggregations of breeding birds	Razorbill (*Alca torda*), breeding
		Birds - aggregations of breeding birds	Seabird colony, breeding
SSSI	Rosehearty to Fraserburgh Coast*	Birds - aggregations of non-breeding birds	Curlew (*Numenius arquata*), non-breeding
		Structural and metamorphic geology	Dalradian
		Birds - aggregations of non-breeding birds	Eider (*Somateria mollissima*), non-breeding
		Littoral sediment (Marine)	Mudflat
		Birds - aggregations of non-breeding birds	Purple sandpiper (*Calidris maritima*), non-breeding
		Birds - aggregations of non-breeding birds	Turnstone (*Arenaria interpres*), non-breeding

Designation	Name	Category	Feature
SSSI	Windy Hills	Quaternary geology and geomorphology	Quaternary of Scotland
SSSI	Philworth Valley	Quaternary geology and geomorphology	Quaternary of Scotland
SSSI	Cairnbulg to St Combs Coast	Structural and metamorphic geology	Dalradian
SSSI	Loch of Strathberg*	Birds - assemblages of breeding birds	Breeding bird assemblage
		Geomorphology	Coastal Geomorphology of Scotland
		Standing open water and canals	Eutrophic loch
		Fen, marsh and swamp (Grassland)	Fen meadow
		Birds - aggregations of non-breeding birds	Goldeneye (*Bucephala clangula*), non-breeding
		Birds - aggregations of non-breeding birds	Goosander (*Mergus merganser*), non-breeding
		Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Birds - aggregations of non-breeding birds	Mute swan (*Cygnus olor*), non-breeding
		Fen, marsh and swamp (Wetland)	Open water transition fen
		Birds - aggregations of non-breeding birds	Pink-footed goose (*Anser brachyrhynchus*), non-breeding
SSSI	Kirkhill	Quaternary geology and geomorphology	Quaternary of Scotland
SSSI	Hill of Longhaven	Quaternary geology and geomorphology	Quaternary of Scotland
SSSI	Moss of Cruden	Quaternary geology and geomorphology	Quaternary of Scotland
SSSI	Bullers of Buchan Coast*	Geomorphology	Coastal Geomorphology of Scotland
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding
		Supralittoral rock (Coast)	Maritime cliff
		Birds - aggregations of breeding birds	Seabird colony, breeding
		Birds - aggregations of breeding birds	Shag (*Phalacrocorax aristotelis*), breeding

A.4 Statutory Designated Ecological Sites within the Land Study Area

Designation	Name	Category	Feature
Sites of International Importance			
Ramsar	Loch Spynie	Standing open water and canals	Eutrophic loch
		Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Fen, marsh and swamp (Wetland)	Open water transition fen
Ramsar	Moray and Nairn Coast	Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Littoral sediment (Marine)	Mudflat
		Littoral sediment (Coast)	Saltmarsh
		Supralittoral sediment (Coast)	Sand dune
		Supralittoral sediment (Coast)	Shingle
		Broad-leaved, mixed and yew woodland	Wet woodland
Ramsar	Loch of Strathberg	Standing open water and canals	Eutrophic loch
		Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Birds - aggregations of non-breeding birds	Pink-footed goose (*Anser brachyrhynchus*), non-breeding
		Birds - aggregations of non-breeding birds	Waterfowl assemblage, non-breeding
		Birds - aggregations of non-breeding birds	Whooper swan (*Cygnus cygnus*), non-breeding
SPA	Loch Spynie	Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
SPA	Moray and Nairn Coast	Birds - aggregations of non-breeding birds	Bar-tailed godwit (*Limosa lapponica*), non-breeding etc.....
SPA	Troup, Pennan and Lion's Heads	Birds - aggregations of breeding birds	Fulmar (*Fulmarus glacialis*), breeding
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Herring gull (*Larus argentatus*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding
		Birds - aggregations of breeding birds	Razorbill (*Alca torda*), breeding
		Birds - aggregations of breeding birds	Seabird assemblage, breeding
SPA	Troup, Pennan and Lion's Heads	Birds - aggregations of breeding birds	Fulmar (*Fulmarus glacialis*), breeding
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Herring gull (*Larus argentatus*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding
		Birds - aggregations of breeding birds	Razorbill (*Alca torda*), breeding
		Birds - aggregations of breeding birds	Seabird assemblage, breeding
SPA	Loch of Strathberg	Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Birds - aggregations of non-breeding birds	Pink-footed goose (*Anser brachyrhynchus*), non-breeding
		Birds - aggregations of breeding birds	Sandwich tern (*Sterna sandvicensis*), breeding
		Birds - aggregations of non-breeding birds	Svalbard Barnacle goose (*Branta leucopsis*), non-breeding
		Birds - aggregations of non-breeding birds	Teal (*Anas crecca*), non-breeding
		Birds - aggregations of non-breeding birds	Waterfowl assemblage, non-breeding
		Birds - aggregations of non-breeding birds	Whooper swan (*Cygnus cygnus*), non-breeding
SPA	Buchan Ness to Collieston Coast	Birds - aggregations of breeding birds	Fulmar (*Fulmarus glacialis*), breeding
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Herring gull (*Larus argentatus*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding

Designation	Name	Category	Feature
		Birds - aggregations of breeding birds	Seabird assemblage, breeding
		Birds - aggregations of breeding birds	Shag (*Phalacrocorax aristotelis*), breeding
SAC	Lower River Spey - Spey Bay*	Broad-leaved, mixed and yew woodland	Alder woodland on floodplains
		Supralittoral sediment (Coast)	Coastal shingle vegetation outside the reach of waves
SAC	Reidside Moss	Bogs (Wetland)	Active raised bog
		Bogs (Wetland)	Degraded raised bog
SAC	Mortlach Moss	Fen, marsh and swamp (Upland)	Base-rich fens
SAC	Turclossie Moss	Bogs (Wetland)	Active raised bog
		Bogs (Wetland)	Degraded raised bog
SAC/SSSI	River Spey	Fish	Atlantic salmon (*Salmo salar*)
		Other invertebrates	Freshwater pearl mussel (*Margaritifera margaritifera*)
		Mammals	Otter (*Lutra lutra*)
		Fish	Sea lamprey (*Petromyzon marinus*)
Sites of National Importance			
SSSI	Loch Spynie	Fen, marsh and swamp (Wetland)	Basin fen
		Birds - assemblages of breeding birds	Breeding bird assemblage
		Standing open water and canals	Eutrophic loch
		Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Fen, marsh and swamp (Wetland)	Open water transition fen
		Fen, marsh and swamp (Wetland)	Open water transition fen
SSSI	Spey Bay*	Geomorphology	Coastal Geomorphology of Scotland
		Fen, marsh and swamp (Wetland)	Hydromorphological mire range
		Littoral sediment (Coast)	Saltmarsh
		Broad-leaved, mixed and yew woodland	Scrub
		Supralittoral sediment (Coast)	Shingle
SSSI	Lower River Spey	Birds - aggregations of breeding birds (and features for SAC above...	Common tern (*Sterna hirundo*), breeding
SSSI	Loch Oire	Standing open water and canals	Mesotrophic loch
SSSI	Den of Pitlurg	Fen, marsh and swamp (Wetland)	Flood-plain fen
		Broad-leaved, mixed and yew woodland	Upland birch woodland
SSSI	Cullen to Stakeness Coast*	Structural and metamorphic geology	Dalradian
		Neutral grassland	Lowland neutral grassland
		Supralittoral rock (Coast)	Maritime cliff
		Quaternary geology and geomorphology	Quaternary of Scotland
		Supralittoral sediment (Coast)	Sand dune
		Supralittoral sediment (Coast)	Shingle
		Fen, marsh and swamp (Wetland)	Transition saltmarsh
SSSI	Reidside Moss	Bogs (Wetland)	Raised bog
		Broad-leaved, mixed and yew woodland	Wet woodland
SSSI	Mill Wood	Broad-leaved, mixed and yew woodland	Upland birch woodland
SSSI	Shiel Wood Pastures	Fen, marsh and swamp (Grassland)	Fen meadow
		Acid grassland	Lowland acid grassland
		Calcareous grassland	Lowland calcareous grassland
		Fen, marsh and swamp (Wetland)	Springs (including flushes)
SSSI	Moss of Crombie	Bogs (Upland)	Intermediate bog (blanket)
SSSI	Whitehill	Fen, marsh and swamp (Grassland)	Fen meadow
		Acid grassland	Lowland acid grassland
		Calcareous grassland	Lowland calcareous grassland
		Dwarf shrub heath	Lowland dry heath
		Neutral grassland	Lowland neutral grassland
		Fen, marsh and swamp (Wetland)	Valley fen
SSSI	Mortlach Moss	Fen, marsh and swamp (Wetland)	Basin fen

Designation	Name	Category	Feature
SSSI	Cullen to Stakeness Coast*	Structural and metamorphic geology	Dalradian
		Neutral grassland	Lowland neutral grassland
		Supralittoral rock (Coast)	Maritime cliff
		Quaternary geology and geomorphology	Quaternary of Scotland
		Supralittoral sediment (Coast)	Sand dune
		Supralittoral sediment (Coast)	Shingle
		Fen, marsh and swamp (Wetland)	Transition saltmarsh
SSSI	Gamrie and Pennan Coast*	Structural and metamorphic geology	Dalradian
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding
		Supralittoral rock (Coast)	Maritime cliff
		Birds - aggregations of breeding birds	Razorbill (*Alca torda*), breeding
		Birds - aggregations of breeding birds	Seabird colony, breeding
SSSI	Tore of Troup	Broad-leaved, mixed and yew woodland	Lowland mixed broadleaved woodland
		Mosaic	Upland assemblage
SSSI	Rosehearty to Fraserburgh Coast*	Birds - aggregations of non-breeding birds	Curlew (*Numenius arquata*), non-breeding
		Structural and metamorphic geology	Dalradian
		Birds - aggregations of non-breeding birds	Eider (*Somateria mollissima*), non-breeding
		Littoral sediment (Marine)	Mudflat
		Birds - aggregations of non-breeding birds	Purple sandpiper (*Calidris maritima*), non-breeding
		Birds - aggregations of non-breeding birds	Turnstone (*Arenaria interpres*), non-breeding
SSSI	Turclossie Moss	Bogs (Wetland)	Intermediate bog (raised)
SSSI	Loch of Strathberg*	Birds - assemblages of breeding birds	Breeding bird assemblage
		Geomorphology	Coastal Geomorphology of Scotland
		Standing open water and canals	Eutrophic loch
		Fen, marsh and swamp (Grassland)	Fen meadow
		Birds - aggregations of non-breeding birds	Goldeneye (*Bucephala clangula*), non-breeding
		Birds - aggregations of non-breeding birds	Goosander (*Mergus merganser*), non-breeding
		Birds - aggregations of non-breeding birds	Greylag goose (*Anser anser*), non-breeding
		Birds - aggregations of non-breeding birds	Mute swan (*Cygnus olor*), non-breeding
		Fen, marsh and swamp (Wetland)	Open water transition fen
		Birds - aggregations of non-breeding birds	Pink-footed goose (*Anser brachyrhynchus*), non-breeding
SSSI	Rora Moss	Bogs (Wetland)	Raised bog
SSSI	Bullers of Buchan Coast*	Geomorphology	Coastal Geomorphology of Scotland
		Birds - aggregations of breeding birds	Guillemot (*Uria aalge*), breeding
		Birds - aggregations of breeding birds	Kittiwake (*Rissa tridactyla*), breeding
		Supralittoral rock (Coast)	Maritime cliff
		Birds - aggregations of breeding birds	Seabird colony, breeding
		Birds - aggregations of breeding birds	Shag (*Phalacrocorax aristotelis*), breeding

A.5 Scheduled Monuments within the Land Study Area

Name	X	Y
Corskellie,cup & ring-marked stone 90m SSE of	355851.3	847508.7
Litterty Hill,cairn	384096.1	863832.6
Cummerton,cairn 600m NNW of	384471.7	863882.1
Eden Castle	369798.0	858781.2
St Peter's Church,old parish church,Peterhead	412639.0	846054.0
St John's Church,old parish church and burial ground,Gamrie	379107.0	864467.2
Hills of Boyndie,barrows & enclosures 700m SW of Mill of Boyndie	365849.3	863654.5
Boghead,souterrain & settlement 400m SSE of	370035.8	854357.4
St Ethernan's,Rathen old parish church	400114.3	860960.8
Conzie Castle and Doocot	359576.6	844976.0
Glenhouses,hut circles 1100m S of	383983.1	860831.8
Fedderate Castle	389683.9	849846.6
Strath Howe,fort	384051.0	861205.6
Boddam Den,flint mining complex,Sandfordhill	411371.9	841337.2
Pitsligo Castle	393706.1	866942.7
Rattray Line, pill box 80m E of Annachie Bridge	410566.5	853088.4
Castle of Findon,fort & castle	379407.2	864328.0
Banff Castle	368926.7	864191.1
Duff House,mausoleum 300m SW of the Orchard	368040.5	862829.5
Corbie Knap,cairn	408562.6	840436.0
Castle Hill,motte SW of Hallmoss Farm	410221.0	848652.7
Cairn Catto,long cairn	407425.3	842125.6
Burgh of Rattray, St Mary's Chapel and Castle Hill, Old Rattray	408630.4	857694.2
Wood of Furlhead, settlement and field systems	338195.6	843250.9
Mount Pleasant,enclosure	410014.4	847852.2
Sandend Windmill,Fordyce	356008.7	865713.5
Gerrieswells,long barrow and round cairn 400m ESE of	357600.6	840270.6
Auchmachar Clump,settlement,farmstead and field systems	395107.3	850051.7
St Fergus's Church,old parish church	411573.4	850751.2
Church of Dundurcas,old parish church	330238.3	851046.7
Milton Tower,Keith	342863.5	851194.1
Castle of Findochty	345568.9	867383.8
Dunbennan Old Church,church and burial ground	350406.4	840804.4
Kinnoir Old Church,church 550m WSW of Corse of Kinnoir	354426.3	843205.3
Rothiemay,St Drostan's Church	355472.2	848242.4
Craig of Boyne,castle	361627.8	866156.3
Boyndie Old Kirk,church 200m NW of Boyndie Bridge	366655.3	864512.3
Boat of Muiresk,circular enclosure 200m N of	370700.8	850248.0
Haughs of Ashogle,circular enclosure 300m WNW of	370352.6	852168.8
King Edward Old Parish Church,church 220m SW of Den Bridge	370928.1	857763.2
Clackriach Castle	393263.8	847063.8
Pittulie Castle	394519.0	867025.3
Cauddwell Castle	331093.0	845144.8
Rothes Castle	327651.2	848973.0
Findlater Castle	354207.0	867137.5
Castle of King Edward	372192.5	856194.6
Macduff,market cross	370131.8	864390.2
Knapperty Hill,long cairn	394598.4	850314.4
Boddam Castle	413231.8	841809.8
Banff, St Mary's parish church and burial ground	369053.7	864046.6
Old Deer, Old Parish Church	397912.4	847686.2
Fetterangus Church	398150.6	850560.6
Fraserburgh Cemetery, pill box 280m ENE of Kirkton Cottages	400028.6	865647.1

Name	X	Y
Scotsmill, enclosure 150m WNW of	360883.9	865478.7
Hill of Alvah, cairns 1350m WSW of Mill of Alvah	366521.6	860176.3
Law of Balgreen, cairn	374809.6	858875.3
Mormond Hill, cairn 410m NNE of Mormond Farm	396900.8	856611.4
Balvenie Castle	332598.2	840894.0
Huntly Castle	353168.2	840662.7
Deskford, church and sacrament house and Tower of Deskford	350892.0	861661.7
Deer Abbey	396863.4	848128.4
North Mains of Auchmaliddie, stone circle 500m SW of	388154.6	844858.9
Stirling Cairn, cairn 750m SW of Mill of Alvah	367286.8	860162.5
Duff House	369072.3	863274.4
Cairn of Memsie	397665.1	862059.0
Kinnaird Head Castle and Lighthouse	399881.6	867573.4
Meikle Dramlach,bridge	337307.1	856959.9
Rattray Line, pill box 960m NNW of Annachie Bridge	410190.0	853993.2
Rattray Line, pill box 855m SE of Rattray House	409940.8	855574.7
Rattray Line, pill box 1550m SSE of Home Farm	410035.4	854604.3
Rattray Line, pill box 1150m SSE of Home Farm	409976.1	855036.4
Rebel Hill, burial site	390377.3	862494.8
Law of Melrose, cairn	375662.8	864266.6
Cullykhan, Castle Point, promontory fort, castle and battery	383779.9	866189.4
Law Cairn, 300m NE of West Craigmaud	388210.6	859110.2
Windyheads Hill, Gee station and camp	385328.1	861885.5
Castle Hills, burial sites	390532.5	862594.7
Cleaved Head, promontory fort	372184.4	864752.1
Inaltry, castle 30m NNW of	351774.3	863060.0
Arndilly House, symbol stone	329053.0	847078.9
Whitestones House, three symbol stones SW of (Tillytarmont 2, 3 & 4)	352976.8	847053.6
Arn Hill,stone circle,Rothiemay Station	353168.0	845642.1
Rothiemay Castle,stone circle,400m NNW of	355077.6	848738.2
Yonder Bognie,stone circle 220m S of	360059.2	845777.9
Raich,stone circle 380m W of	361877.9	843647.7
Hare Stone,stone circle 480m NW of Feith-Hill	366453.6	843828.6
Bellman's Wood,stone circle	360468.4	850430.4
St Brandan's Stanes,stone circle	360749.8	861055.4
Boyne,castle	361168.8	865648.7
Corrydown, stone circle 150m NE of	370680.1	844467.4
Parkhouse Hill stone circle (Aikey Brae)	395873.5	847089.8
Loudon Wood,stone circle	396100.1	849739.2
Auchmachar,stone circle	394848.1	850265.0
White Cow Wood,stone circle	394720.7	851929.1
Netherton,standing stones & stone circle	404332.8	857220.3
Knight's Hillock,motte,Innes	328273.5	865126.6
White Stone,medieval land boundary,Whitemuir Farm	360109.4	851100.8
Cairnton,stone circle 400m NE of	358580.0	844674.4
Mains of Hatton, stone circle 575m NNW of	369936.7	842542.0
North Pitglassie, stone circle 1320m SW of	368627.7	843478.2
Fetterangus Kirkyard,symbol stone	398137.6	850560.2
Gaval, standing stone 250m SW of	398056.5	851504.5
Inverugie Castle	410214.2	848313.2
Backhill of Drachlaw, stone circle	367295.2	846333.5
Carlin Stone, or Cairn Riv, stone circle, Backhill of Drachlaw	367440.2	846587.7
Longman Cairn, long barrow, Longman Hill	373779.2	862012.0
North Burreldales,stone circle	367590.4	854915.6
Thorax,stone circle 280m W of	358221.4	854953.4
Castle Hill,motte	350877.5	867022.7

Name	X	Y
Cowiemuir, cairn and stone circle 400m ENE of	337092.1	863108.3
Standing Stones of Urquhart, stone circle 550m NE of Innesmill	328943.0	864079.3
Ravenscraig Castle	409558.0	848764.
Crimond old parish church, 240m NW of Kirkton Croft	405226.7	857573.2
St Combs, St Columba's Church	405648.8	863166.6
Old Pitsligo Church and burial ground	393392.6	866237.9
Rattray Line, pill box 675m NE of Old Rattray	409251.8	858326.4
Rattray Line, pill box 875m ENE of Old Rattray	409570.3	858261.6
Rattray Line, pill box 460m WNW of Seatown	409720.6	858219.1
Rattray Line, pill box at Seatown	410118.3	857987.1
Rattray Line, pill box 55m SE of Rattray Head Shore Station	410324.9	857647.2
Rattray Line, pill box 780m ENE of Middleton of Rattray	410048.8	857255.0
Rattray Line, pill box 650m E of Rattray House	409930.0	856271.4
Rattray Line, pill box 585m SE of Rattray House	409817.2	855872.7
Rattray Line, pill box 640m SE of Rattray House	409796.8	855736.5
Fordyce, old church and burial ground	355571.5	863849.8
Berrybrae, stone circle 470m NNE of	402759.2	857162.1
Inverallochy Castle	404091.1	862958.4
Marnoch Church, standing stones	359707.6	850229.7
Dundarg Castle, fort and castle	389462.8	864851.7
Tarrieclerack, long cairn	344587.1	864733.3
Loch of Strathbeg, windmill W of	405629.9	858594.0
St Drostan's, Old Aberdour Kirk and burial ground	388432.8	864403.1
Ha' Hillock, motte	350958.1	862781.8
Blackhillocks, hut circle 710m SE of	383165.8	863642.1
Quarryhead, icehouses 210m NE of	390774.5	865663.3
Gallows Hill, The Hanging Stone, standing stone	392114.1	865538.8
Woodside, cairn 215m ESE of	394191.9	865978.1
Green Castle, promontory fort, Portknockie	348874.3	868776.2
Foulford Bridge, cairns 400m W of	349074.4	865362.1
Davie's Castle, fort	349814.9	864357.1
Tronach Castle, Tronach Head, Portknockie	347800.6	868691.6
Crannoch Hill, radar station 400m ESE of Logie House	352999.7	866992.7
Castle Point, promontory fort 250m NNE of Westerwards Croft	358136.9	866459.2
Foulford Bridge, cairn 310m NW of	349274.7	865627.0
Foulford Bridge, cairn 160m WnW of	349315.7	865412.9
Knockmonean Cairn	401800.5	862154.6
Trefor Hill, motte	400023.6	861524.0
West Cockmuir, enclosure 100m N of	398805.2	855931.0

A.6 Listed Buildings within the Land Study Area

HB Number	Parish Borough	Address	Category	X	Y
40262	PORTSOY	23, 25 AND 27 NORTH HIGH STREET AND REAR GARDEN WALLS	A	358872	866229
22720	BUCKIE	BUCKIE, ST ANDREWS SQUARE, ST PETER'S ROMAN CATHOLIC CHURCH, PRESBYTERY AND ENCLOSING WALLS	A	341902	865287
19597	ORDIQUHILL	PARK	A	358903	857142
19610	MARNOCH	MARNOCH GRAVEYARD WITH WATCHHOUSE, BURIAL ENCLOSURES AND GRAVESTONES	A	359491	849928
16421	TURRIFF	DELGATIE CASTLE	A	375445	850532
15803	ST ANDREWS-LHANBRYD	PITTENSAIR	A	328226	860686
15610	ROTHIEMAY	MAINS OF MAYEN	A	357465	847769
15517	RATHVEN	CAIRNFIELD HOUSE	A	341463	862449
15540	RATHVEN	LEITCHESTON DOVECOT	A	339936	862495
10585	GAMRIE	TROUP HOME FARM, KILN BARN AND CART SHED	A	383211	865686
9270	LONMAY	CRIMONMOGATE HOUSE	A	403992	858699
6761	FORDYCE	GLASSAUGH WINDMILL	A	356016	865713
6662	BANFF	SOUTH COLLEONARD WITH URNS, GATES AND GATEPIERS	A	366635	862668
2314	BOHARM	ARNDILLY HOUSE	A	329047	847105
2209	DESKFORD	KIRKTON OF DESKFORD, OLD CHURCH OF ST JOHN AND BURIAL GROUND	A	350885	861660
2227	CULLEN	CULLEN HOUSE, MAIN ENTRANCE, GATES AND GATE LODGES	A	350924	865987
1595	BELLIE	GORDON CASTLE, MANSION HOUSE, GATEPIERS AND CONSERVATORY/ORANGERY	A	335069	859570
22098	BANFF	1 ST CATHERINE STREET, ST CATHERINE'S	A	368842	864326
21985	BANFF	DUFF HOUSE	A	369063	863317
21988	BANFF	DUFF HOUSE MAUSOLEUM	A	368043	862826
22004	BANFF	1 HIGH SHORE	A	369011	864008
22056	BANFF	8-16 (EVEN NOS) LOW STREET, (FORMER FIFE ARMS), FIFE HOUSE	A	368995	863845
22063	BANFF	34 LOW STREET, TOWNHOUSE	A	368988	863963
19606	MARNOCH	KINNAIRDY CASTLE WITH OUTBUILDINGS	A	360892	849812
16405	TURRIFF	TOWIE BARCLAY CASTLE	A	374434	843936
15912	PITSLIGO	PEATHILL, OLD CHURCH OF SCOTLAND	A	393392	866241
15914	PITSLIGO	PITTENDRUM, MAINS OF PITTENDRUM HOUSE	A	396445	867007
15862	MORTLACH	KININVIE HOUSE	A	331882	844048
15541	RATHVEN	LETTERFOURIE HOUSE AND FOUNTAINS	A	344625	862275
13603	FORGLEN	FORGLEN HOUSE	A	369887	851856
10586	FORDYCE	BIRKENBOG HOUSE, REAR WALLED GARDEN AND FLANKING RANGE	A	353663	865117
9263	LONMAY	CAIRNESS HOUSE	A	403831	860917
3049	BANFF	INCHDREWER CASTLE	A	365598	860714
2349	ABERLOUR	ABERLOUR HOUSE AND TERRACE (ABERLOUR HOUSE PREPARATORY SCHOOL)	A	327939	843614
2352	ABERLOUR	ABERLOUR HOUSE, EAST LODGE, GATEPIERS AND GATES	A	328189	843973
2219	CULLEN	CULLEN HOUSE	A	350657	866316
1584	BELLIE	FOCHABERS, 2 CASTLE STREET, EAST LODGE AND GARDEN WALL	A	334822	858744
40262	PORTSOY	23, 25 AND 27 NORTH HIGH STREET AND REAR GARDEN WALLS	A	358872	866218
40268	PORTSOY	16, 18, 20 NORTH HIGH STREET 'OLD STAR INN'	A	358885	866231
40268	PORTSOY	16, 18, 20 NORTH HIGH STREET 'OLD STAR INN'	A	358894	866232
34945	HUNTLY	ST. MARGARET'S R.C. CHURCH, WESTPARK STREET AND CHAPEL STREET	A	352838	840172
23743	CULLEN	15, 17, 19 SEAFIELD STREET AND THE SQUARE, SEAFIELD ARMS HOTEL AND TOWN HALL	A	351289	867092
22003	BANFF	HIGH SHORE, OLD ST MARY'S BURIAL GROUND AND RAILINGS	A	369048	864056

HB Number	Parish Borough	Address	Category	X	Y
16431	TURRIFF	HATTON CASTLE	A	375713	846976
15645	SPEYMOUTH	(OLD) SPEY BRIDGE	A	333998	859457
15524	RATHVEN	PRESHOME, ST GREGORY'S ROMAN CATHOLIC CHURCH	A	341001	861454
15541	RATHVEN	LETTERFOURIE HOUSE AND FOUNTAINS	A	344634	862300
10650	FORDYCE	GLASSAUGH HOUSE DOVECOT	A	355902	864787
9392	KING EDWARD	CRAIGSTON CASTLE	A	376221	855021
9410	LONGSIDE	OLD PARISH CHURCH OF LONGSIDE	A	403744	847226
6759	FORDYCE	FINDLATER CASTLE, DOVECOTE	A	353993	866742
1628	BELLIE	GORDON CASTLE GARDENS, LAKESIDE HOUSE	A	334711	859197
1560	BELLIE	FOCHABERS, HIGH STREET, MILNE'S HIGH SCHOOL AND ENCLOSING WALLS WITH GATEPIERS	A	334874	858467
1605	BELLIE	TUGNET, ICE HOUSE	A	334935	865365
1609	BELLIE	TYNET, ROMAN CATHOLIC CHAPEL OF ST NINIAN	A	337886	861252
1616	BELLIE	FOCHABERS, THE SQUARE, BELLIE KIRK (CHURCH OF SCOTLAND)	A	334505	858743
40292	PORTSOY	10 SHOREHEAD	A	358848	866309
40293	PORTSOY	SHOREHEAD, CORF WAREHOUSE (PORTSOY MARBLE)	A	358855	866331
40262	PORTSOY	23, 25 AND 27 NORTH HIGH STREET AND REAR GARDEN WALLS	A	358874	866233
35661	KEITH	OLD KEITH, BRIDGE OVER RIVER ISLA	A	342762	850796
35629	KEITH	CHURCH ROAD, ST RUFUS CHURCH (CHURCH OF SCOTLAND), ENCLOSING WALLS AND GATEPIERS	A	342987	850802
22111	BANFF	2 WATER PATH, INGLENEUK HOUSE GARDEN WALLS AND GARDEN SUMMER HOUSE	A	368981	864066
22056	BANFF	8-16 (EVEN NOS) LOW STREET, (FORMER FIFE ARMS), FIFE HOUSE	A	368996	863813
22077	BANFF	QUAYSIDE, BANFF HARBOUR AND PILLBOX	A	368883	864581
21941	BANFF	31, 33, 35 CASTLE STREET AND 2 SEAFIELD STREET, TOWN HALL	A	368838	864205
16367	PETERHEAD	BUCHANNESS LIGHTHOUSE	A	413624	842263
16146	RATHEN	HOUSE OF MEMSIE	A	397304	861247
15915	PITSLIGO	PITTULIE CASTLE	A	394519	867027
9264	LONMAY	CAIRNESS HOUSE, SOUTH LODGES, GATES AND RAILINGS	A	403684	860073
2768	ABERDOUR	ABERDOUR HOUSE	A	390981	863935
2218	CULLEN	CULLEN OLD CHURCH (PARISH CHURCH OF SCOTLAND) AND BURIAL GROUND	A	350732	866358
50788	GAMRIE	TARLAIR SWIMMING POOL INCLUDING BOATING POOL, PADDLING POOL, TEA PAVILION, CHANGING ROOMS, KIOSKS AND FENCE	A	371999	864646
40296	PORTSOY	SHOREHEAD, OLD HARBOUR	A	358894	866347
35679	KEITH	SEAFIELD AVENUE, STRATHISLA DISTILLERY	A	342942	851129
35623	KEITH	CHAPEL STREET, ROMAN CATHOLIC CHURCH OF ST THOMAS AND PRESBYTERY	A	342962	850239
31867	FRASERBURGH	MARKET CROSS SALTOUN SQUARE	A	399791	867095
22056	BANFF	8-16 (EVEN NOS) LOW STREET, (FORMER FIFE ARMS), FIFE HOUSE	A	368992	863864
21957	BANFF	CASTLE STREET, BANFF CASTLE, WITH FLANKING PAVILIONS, WELL AND OLD CASTLE WALLS	A	368936	864201
15909	PITSLIGO	MOUNTHOOLEY DOVECOT	A	392470	865945
15520	RATHVEN	CULLEN HOUSE, TEMPLE OF POMONA	A	350444	867231
13884	PITSLIGO	PITSLIGO CASTLE	A	393732	866942
10694	FORDYCE	GLASSAUGH HOUSE	A	355829	864773
9080	HUNTLY	HUNTLY CASTLE.	A	353196	840749
3016	CAIRNIE	AUCHANACHIE CASTLE	A	349857	846917
3028	CRIMOND	PARISH CHURCH OF CRIMOND INCLUDING ENCLOSING WALLS RAILINGS AND GATES	A	405389	856766
3034	CRIMOND	HADDO HOUSE MAINS OF HADDO	A	407750	857166
2324	BOHARM	BOAT OF BRIG TOLLHOUSE	A	331876	851706
1604	BELLIE	TUGNET, SALMON FISHING STATION, COURTYARD SQUARE WITH DWELLINGS AND ADJOINING FISH HOUSE	A	334935	865365
40268	PORTSOY	16, 18, 20 NORTH HIGH STREET 'OLD STAR INN'	A	358883	866217

HB Number	Parish Borough	Address	Category	X	Y
35623	KEITH	CHAPEL STREET, ROMAN CATHOLIC CHURCH OF ST THOMAS AND PRESBYTERY	A	342981	850237
31889	FRASERBURGH	WINE TOWER	A	399937	867510
22720	BUCKIE	BUCKIE, ST ANDREWS SQUARE, ST PETER'S ROMAN CATHOLIC CHURCH, PRESBYTERY AND ENCLOSING WALLS	A	341904	865304
22111	BANFF	2 WATER PATH, INGLENEUK HOUSE GARDEN WALLS AND GARDEN SUMMER HOUSE	A	368988	864055
22035	BANFF	INSTITUTION TERRACE, BANFF PRIMARY SCHOOL (FORMER BANFF ACADEMY) WITH LAMP STANDARDS	A	368814	863761
22056	BANFF	8-16 (EVEN NOS) LOW STREET, (FORMER FIFE ARMS), FIFE HOUSE	A	368996	863834
21885	BANFF	11 BOYNDIE STREET, BANFF TOWN AND COUNTRY CLUB AND ENCLOSING WALLS	A	368832	864023
19602	MARNOCH	CROMBIE CASTLE	A	359102	852250
16551	STRICHEN	TOWN HOUSE HIGH STREET AND BRIDGE STREET	A	394668	855163
15911	PITSLIGO	PEATHILL, HILL KIRK (PITSLIGO PARISH CHURCH OF SCOTLAND)	A	393438	866285
15542	RATHVEN	LETTERFOURIE, CRAIGMIN BRIDGE OVER BURN OF LETTERFOURIE	A	344103	862126
15618	ROTHIEMAY	ROTHIEMAY HOUSE, KILN BARN	A	355122	848430
12603	FORDYCE	FORDYCE VILLAGE, OLD PARISH CHURCH OF ST TALORGAN AND WALLED BURIAL GROUND	A	355574	863858
2357	ABERLOUR	CRAIGELLACHIE, OLD BRIDGE OVER RIVER SPEY (TELFORD BRIDGE)	A	328532	845194
2220	CULLEN	CULLEN HOUSE BRIDGE OVER THE BURN OF CULLEN	A	350592	866236
1621	BELLIE	GORDON CASTLE, WEST LODGE, MAIN ENTRANCE WITH 2 DWELLINGS	A	334295	859081
1539	BELLIE	BELLIE BURIAL GROUND, GORDON TOMB	A	335329	860988
1549	BELLIE	FOCHABERS, CASTLE STREET, GORDON CHAPEL (EPISCOPAL CHURCH) AND GORDON CHAPEL HOUSE (PARSONAGE)	A	334595	858887
42163	TURRIFF	OLD PARISH CHURCH OF ST. CONGAN (COAV) CASTLE STREET AND PUTACHIE PATH	A	372231	849831
39668	PETERHEAD	OLD ST. PETER'S CHURCH	A	412647	846055
39671	PETERHEAD	PETERHEAD OLD PARISH CHURCH	A	413120	846103
34943	HUNTLY	GORDON'S SCHOOLS ORIGINAL BUILDING ONLY.	A	353089	840302
31873	FRASERBURGH	CUSTOM HOUSE, (FORMERLY OCCUPIED BY BANK OF SCOTLAND) BROAD STREET AND FRITHSIDE STREET	A	399791	866932
31888	FRASERBURGH	KINNAIRD'S HEAD CASTLE LIGHTHOUSE	A	399864	867528
16440	TYRIE	EPISCOPAL CHURCH OF ST. JOHN THE EVANGELIST, HIGH STREET INCLUDING WALL AND RAILINGS TO HIGH STREET.	A	388296	855913
16096	OLD DEER	ADEN COUNTRY PARK, ABERDEENSHIRE FARMING MUSEUM FORMERLY ADEN HOUSE STABLES	A	398131	847956
16143	RATHEN	CAIRNBULG CASTLE	A	401686	863964
10623	FORDYCE	FORDYCE VILLAGE, FORDYCE CASTLE	A	355579	863797
9412	LONGSIDE	CHURCHYARD GATEWAY, LONGSIDE PARISH CHURCH	A	403736	847258
9449	FORGUE	FRENDRAUGHT HOUSE	A	362088	841887
2888	ALVAH	DUNLUGAS HOUSE	A	369560	855491
2303	BOTRIPHNIE	MILL OF TOWIE	A	340739	847241
1596	BELLIE	GORDON CASTLE TOWER	A	334986	859555
34945	HUNTLY	ST. MARGARET'S R.C. CHURCH, WESTPARK STREET AND CHAPEL STREET	A	352828	840159
23743	CULLEN	15, 17, 19 SEAFIELD STREET AND THE SQUARE, SEAFIELD ARMS HOTEL AND TOWN HALL	A	351274	867105
23743	CULLEN	15, 17, 19 SEAFIELD STREET AND THE SQUARE, SEAFIELD ARMS HOTEL AND TOWN HALL	A	351227	867146
22062	BANFF	LOW STREET, TOLBOOTH STEEPLE	A	368989	863949
21893	BANFF	BRIDGE OF BANFF OVER RIVER DEVERON	A	369473	863779
15525	RATHVEN	PRESHOME, CHAPEL HOUSE, GARDEN STORE AND WALL ENCLOSING HOUSE, GARDEN AND CHURCH	A	341085	861443
15541	RATHVEN	LETTERFOURIE HOUSE AND FOUNTAINS	A	344617	862254

HB Number	Parish Borough	Address	Category	X	Y
14862	URQUHART	INNES HOUSE	A	327930	865007
2883	ALVAH	BRIDGE OF ALVAH	A	368020	861067
2885	ALVAH	DUFF HOUSE, FISHING TEMPLE	A	369065	862848
2296	BOTRIPHNIE	DRUMMUIR CASTLE	A	337150	844110
1623	BELLIE	GORDON CASTLE FARM, STEADING WITH DWELLINGS	A	335401	859167
1635	BELLIE	SWISS COTTAGE	A	336969	859536
42171	TURRIFF	57, 59 HIGH STREET	B	372346	849819
40435	ROSEHEARTY	49 UNION STREET	B	393215	867633
40439	ROTHES	GLEBE HOUSE (FORMER FREE CHURCH MANSE) AND GARDEN WALLS	B	327615	848345
40285	PORTSOY	13 SEAFIELD TERRACE, NILE COTTAGE	B	358675	865825
40166	PORTKNOCKIE	3 SEAFIELD STREET	B	349040	868369
40183	PORTKNOCKIE	4 SEAFIELD STREET	B	349055	868371
40203	PORTKNOCKIE	10 STATION ROAD	B	348559	868376
40220	PORTSOY	15, 17, 19 CHURCH STREET	B	359053	865989
40261	PORTSOY	5, 7 NORTH HIGH STREET AND REAR GARDEN WALLS	B	358863	866181
40267	PORTSOY	12 NORTH HIGH STREET	B	358888	866214
40128	PORTKNOCKIE	5 HIGH STREET	B	348931	868342
40132	PORTKNOCKIE	25 HIGH STREET, ROSE VILLA	B	348754	868371
39772	PETERHEAD	15 JAMAICA STREET	B	413527	845936
39774	PETERHEAD	23 JAMAICA STREET	B	413528	845907
39786	PETERHEAD	11, 13 MERCHANT STREET AND 22 ST. ANDREW STREET	B	413427	846033
39802	PETERHEAD	WAVERLEY HOTEL 10 MERCHANT STREET	B	413409	846030
39803	PETERHEAD	12, 14 MERCHANT STREET	B	413407	846010
39804	PETERHEAD	16, 18 MERCHANT STREET	B	413410	845999
39675	PETERHEAD	STATUE OF FIELD MARSHALL KEITH.	B	413430	846098
39687	PETERHEAD	10-16 BROAD STREET AND 1, 3 MERCHANT STREET.	B	413423	846072
39693	PETERHEAD	60 BROAD STREET.	B	413596	846058
39708	PETERHEAD	8-14 ST. ANDREW STREET	B	413466	846034
39715	PETERHEAD	5 MAIDEN STREET	B	413331	846018
37635	MACDUFF	18, 19 SHORE STREET, CLYDESDALE BANK, WALLED GARDEN AND REAR OUTBUILDING	B	370391	864531
35653	KEITH	104, 106, 108 MID STREET	B	343186	850397
35660	KEITH	OLD KEITH, BURIAL GROUND AND SITE OF FORMER PARISH CHURCH	B	342729	850686
35665	KEITH	13 REGENT STREET, ST RONANS	B	342745	850847
35666	KEITH	15 REGENT STREET, APPIN HOUSE AND GARDEN WALL ABUTTING REGENT STREET AND WELLINGTON TERRACE	B	342723	850855
35678	KEITH	SEAFIELD AVENUE, HOLY TRINITY EPISCOPAL CHURCH AND ENCLOSING WALLS	B	343066	850930
35636	KEITH	54, 56 LAND STREET AND GARDEN WALLS AT SOUTH	B	343059	850213
34940	HUNTLY	20, 22 CASTLE STREET	B	352957	840079
34944	HUNTLY	BALVENIE HOUSE 3 WEST PARK STREET	B	352922	840135
31868	FRASERBURGH	TOWN HOUSE AND POLICE OFFICE 3 SALTOUN SQUARE AND 1-5 KIRK BRAE.	B	399817	867105
31901	FRASERBURGH	COASTGUARD STATION HOUSES, 60-70 SALTOUN PLACE	B	399752	866447
31908	FRASERBURGH	WINDMILL TOWER WITHIN GRAY'S TIMBER YARD ALBERT STREET, MID STREET AND CHARLOTTE STREET	B	399389	866876
31397	FINDOCHTY	11, 13 MID STREET	B	345984	867689
31404	FINDOCHTY	12, 14 MID STREET	B	345971	867676
31407	FINDOCHTY	4 NETHERTON TERRACE	B	345925	867768
31409	FINDOCHTY	10 NETHERTON TERRACE	B	345952	867772
31426	FINDOCHTY	6 NEW STREET	B	346481	868206
31429	FINDOCHTY	12 NEW STREET	B	346496	868163
31477	FINDOCHTY	COMMERCIAL STREET, K6 TELEPHONE KIOSK	B	346358	867898
31366	FINDOCHTY	2 BURNSIDE STREET	B	346003	867743
31384	FINDOCHTY	16 CASTLE STREET, DAISYBANK	B	345805	867665

HB Number	Parish Borough	Address	Category	X	Y
31385	FINDOCHTY	4 CHAPEL STREET	B	346156	867838
23924	CULLEN	198 SEATOWN	B	350722	867238
23947	CULLEN	230 SEATOWN	B	350942	867217
23777	CULLEN	26 SOUTH DESKFORD STREET, LAWTIE'S MORTIFICATION	B	351161	866931
23782	CULLEN	2, 4 THE SQUARE, CLYDESDALE BANK	B	351211	867087
23784	CULLEN	22, 24 THE SQUARE	B	351258	867162
23803	CULLEN	SEATOWN, CULLEN HARBOUR AND HARBOUR LIGHT	B	350987	867459
23819	CULLEN	36, 37 SEATOWN	B	350937	867144
23834	CULLEN	69 SEATOWN	B	350763	867198
23881	CULLEN	129 SEATOWN	B	350992	867224
23716	CULLEN	2, 4 GRANT STREET	B	351107	866968
23734	CULLEN	3 SEAFIELD PLACE, CHURCH OF SCOTLAND MANSE AND GARDEN WALLS	B	351311	866952
23753	CULLEN	55 SEAFIELD STREET	B	351105	867252
22723	BUCKIE	BUCKIE HARBOUR, 17 LOW STREET, FORMER LIFEBOAT STATION	B	342698	865814
22733	BUCKIE	40 YARDIE	B	342083	865764
22110	BANFF	WATER PATH, PATH HOUSE GARDEN WALLS	B	368931	864087
22112	BANFF	3 WATER PATH	B	369000	864061
21975	BANFF	19 CLUNIE STREET, FORMER FREE SCHOOL	B	368764	864425
21983	BANFF	11 DEVERONSIDE	B	369029	864218
21989	BANFF	DUFF HOUSE WALLED GARDEN	B	369054	863729
21996	BANFF	1 GEORGE STREET AND GARDEN WALLS	B	368868	864332
22034	BANFF	40 HIGH STREET, ROYAL BANK OF SCOTLAND	B	368890	864009
22039	BANFF	LOW STREET, COURT HOUSE	B	368955	863814
22047	BANFF	43, 45, 47 LOW STREET AND REAR GARDEN WALLS	B	368945	863958
22048	BANFF	49, 51 LOW STREET, CLYDESDALE BANK	B	368947	863969
22072	BANFF	OLD MARKET PLACE, FORMER SMITHY	B	369206	863952
21878	BANFF	6 BACK PATH AND GARDEN WALLS	B	368908	863833
21887	BANFF	4, 6 BOYNDIE STREET	B	368849	864007
21940	BANFF	29 CASTLE STREET AND REAR GARDEN WALLS	B	368842	864189
21942	BANFF	37 CASTLE STREET, SEAFIELD HOUSE	B	368835	864241
19913	ABERCHIRDER	MAIN STREET, BANK HOUSE AND CLYDESDALE BANK	B	362393	852384
19934	ABERCHIRDER	18 AND 19 THE SQUARE	B	362458	852438
19773	OLD DEER	NORTH-EAST BRIDGE THE LAKE, PITFOUR (CAPTAIN CURZON)	B	398020	848853
19620	MARNOCH	NETHERDALE WALLED GARDEN, SUMMERHOUSE SUNDIAL AND GATEPIERS	B	365171	848885
19603	MARNOCH	CULVIE WITH STEADING AND WALLED GARDEN	B	359164	853640
19086	NEW DEER	BANK ROAD, MAUD HOSPITAL, INCLUDING, LODGE, GATEPIERS, RAILINGS AND RETAINING WALL	B	392495	847593
19086	NEW DEER	BANK ROAD, MAUD HOSPITAL, INCLUDING, LODGE, GATEPIERS, RAILINGS AND RETAINING WALL	B	392539	847597
18187	URQUHART	INNES HOUSE, HOME FARM	B	328002	864661
16457	TYRIE	79 HIGH STREET	B	388353	855688
16539	STRICHEN	BOGENSOURIE COTTAGE	B	394361	856940
16565	STRICHEN	NORTHCOTE, NORTH STREET	B	394700	855100
16569	STRICHEN	ORIGINAL PARISH CHURCH OF STRICHEN, SOUTH AISLE	B	394720	854749
16337	PETERHEAD	5-9 ROCKSLEY DRIVE MASONIC LODGE NO. 1087	B	413351	842264
16393	PETERHEAD	MOUNT PLEASANT HOUSE, DOVECOT	B	409974	847779
16394	PETERHEAD	BERRYHILL HOUSE	B	409564	846606
16417	TURRIFF	OLD TOLLHOUSE, TURRIFF ANGLING ASSOCIATION SHELTER (KNOCKIEMILL LODGE)	B	371435	850387
16433	TYRIE	OLD MANSE, HIGH STREET	B	388149	856508
16443	TYRIE	PARISH CHURCH OF ST. ANDREW, TYRIE	B	393009	863110
16061	OLD DEER	SAPLINBRAE	B	397281	848381
16063	OLD DEER	SOUTH LODGE GATES, PITFOUR	B	397820	848316

HB Number	Parish Borough	Address	Category	X	Y
16105	OLD DEER	DEER ABBEY, ENCLOSING WALL AND ADJOINING WALLED GARDEN	B	397007	848133
16116	OLD DEER	ST. DRESTAN'S EPISCOPAL CHURCH, OLD DEER	B	397820	847654
16119	RATHEN	HOUSE OF AUCHIRIES	B	397737	860681
16159	NEW DEER	MAINS OF FEDDERATE, FARMHOUSE (2 HOUSES).	B	389576	850087
16159	NEW DEER	MAINS OF FEDDERATE, FARMHOUSE (2 HOUSES).	B	389574	850094
15913	PITSLIGO	PEATHILL, BURIAL GROUND	B	393379	866230
15829	ROTHES	ORTON HOUSE, DOVECOT	B	331549	853290
15849	ROTHES	BOAT O' BRIG RAILWAY VIADUCT OVER RIVER SPEY	B	331865	851791
15861	MORTLACH	HAZELWOOD	B	331788	844486
15867	ROTHES	ORTON, MAUSOLEUM, ENCLOSING BURIAL GROUND WALLS AND ST MARY'S WELL	B	332367	855184
15614	ROTHIEMAY	MILLTOWN OF ROTHIEMAY, FORBES ARMS	B	354788	848146
15643	SPEYMOUTH	NEWTON FARMHOUSE	B	333965	862424
15521	RATHVEN	CULLEN HOUSE WALLED GARDEN, GARDENERS' COTTAGES, REAR WALLED GARDEN AND GARDEN HOUSE	B	350349	865605
15537	RATHVEN	FINDOCHTY CASTLE	B	345552	867375
14858	URQUHART	GARMOUTH, SPEY STREET, EASTFIELD	B	334115	864606
14832	URQUHART	GARMOUTH HIGH STREET, THE MOORINGS AND REAR GIGHOUSE	B	333918	864445
13718	LONMAY	CRIMONMOGATE HOUSE SUNDIAL	B	403992	858672
13593	INVERKEITHNY	INVERKEITHNY PARISH CHURCH AND GRAVEYARD WALLS	B	362931	847080
13600	FORGLEN	FORGLEN, EASTSIDE LODGE WITH GATEPIERS AND GATES	B	370921	850166
13606	FORGLEN	FORGLEN MAUSOLEUM, WITH BOUNDARY RETAINING WALLS, RAILINGS, GATES AND GATEPIERS	B	369851	851085
12875	FORGLEN	OLD CHURCH, FORGLEN, WITH WALLED GRAVEYARD, GATEPIERS AND GATES	B	369700	849920
10582	GAMRIE	NORTHFIELD FARM, WINDMILL STUMP	B	382265	866105
10589	FORDYCE	DURN BRIDGE OVER THE BURN OF DURN	B	358910	865099
10596	FORDYCE	FORDYCE VILLAGE, CASTLE LANE, COTTAGES AT WEST SIDE OF LANE	B	355578	863765
10600	FORDYCE	FORDYCE VILLAGE, 34, 35 CHURCH STREET	B	355533	863781
10609	GAMRIE	61, 62 CROVIE	B	380729	865771
10618	FORDYCE	FORDYCE VILLAGE, SCHOOL ROAD, EASTER VILLA (FORMER FREE CHURCH MANSE)	B	355654	863731
10620	FORDYCE	FORDYCE VILLAGE, ST TARQUINS PLACE, OLD SCHOOLHOUSE	B	355514	863669
10625	FORDYCE	FORDYCE VILLAGE, FORDYCE HOUSE (FORMER CHURCH OF SCOTLAND MANSE) STEADING, AND GARDEN WALLS	B	355588	863906
10643	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, CULFOICH	B	355587	863781
10667	FORDYCE	10 SANDEND	B	355472	866515
10674	FORDYCE	36 SANDEND	B	355518	866446
10677	FORDYCE	39 SANDEND, THE MUCKLE HOOSE	B	355544	866469
10693	FORDYCE	FORDYCE VILLAGE, 1, 2, 3, 4, ST TARQUINS PLACE	B	355606	863601
10536	GAMRIE	CROVIE PIER AND PROMENADE	B	380721	865534
10542	GAMRIE	49 CROVIE	B	380758	865665
10556	GAMRIE	24 CROVIE	B	380774	865515
10559	GAMRIE	TELEPHONE KIOSK BY 27 CROVIE	B	380782	865542
10562	GAMRIE	34 CROVIE	B	380762	865587
10566	GAMRIE	40 CROVIE	B	380771	865622
9589	FRASERBURGH	BRIDGE OF PHILORTH OVER WATER OF PHILORTH.	B	401875	864406
9591	FRASERBURGH	PHILORTH DOVECOT ON KINBOG FARM.	B	400085	862756
9391	KING EDWARD	KING EDWARD, OLD PARISH CHURCH, WALLED BURIAL GROUND AND GATEWAY	B	370922	857771
9395	KING EDWARD	CRAIGSTON CASTLE, BRIDGE OVER CRAIGSTON BURN	B	376077	854968
9399	KING EDWARD	EDEN CASTLE	B	369792	858778
9402	KING EDWARD	EDEN HOUSE, WALLED GARDEN AND GLASSHOUSES	B	369962	859731
9446	FORGUE	TEMPLELAND FARM HOUSE	B	363255	841626
9454	FORGUE	CONZIE CASTLE	B	359496	845003

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9456	FORGUE	FORGUE, FORMER PARISH CHURCH, ST MARGARET'S	B	361084	845102
9458	FORGUE	MANSE OF FORGUE	B	360986	845369
9464	FORGUE	PLACEMILL, MILL	B	362627	843054
9467	FORGUE	DRUMBLAIR LODGE (FORMERLY DRUMBLAIR COTTAGE	B	363351	842725
9255	LONMAY	LOGIE LODGES	B	403815	857602
9049	HUNTLY	HUNTLY CASTLE HOTEL, ICEHOUSE.	B	353344	841395
9142	GLASS	OLD MANSE INN FARM, FARMHOUSE.	B	343441	840490
6765	FORDYCE	1C AND 1D SANDEND WITH FISH SMOKING KILN ABUTTING NO 1C	B	355476	866583
6649	ALVAH	MONTCOFFER HOUSE WITH GARDEN WALLS AND GATEPIERS	B	368499	861269
6653	ALVAH	MOUNTBLAIRY MAUSOLEUM WITH MEMORIAL, BOUNDARY WALLS AND RAILINGS	B	369066	855257
4283	BOTRIPHNIE	DRUMMUIR, BOTRIPHNIE PARISH CHURCH (C OF S) AND BURIAL GROUND WITH REMAINS OF FORMER CHURCH AND MURAL MONUMENTS.	B	337539	844114
3236	BOYNDIE	INVERBOYNDIE BRIDGE OVER THE BURN OF BOYNDIE	B	366829	864424
3237	BOYNDIE	INVERBOYNDIE ST BRANDON'S CHURCH (OLD PARISH CHURCH OF SCOTLAND) AND BURIAL GROUND	B	366656	864520
2896	ALVAH	MONTCOFFER DOVECOT	B	368726	861266
2718	ABERDOUR	28 PENNAN	B	384567	865476
2747	ABERDOUR	OLD ABERDOUR, MILL FARMHOUSE	B	388379	864291
2772	ABERDOUR	NEW ABERDOUR, (ELPHIN STREET) ABERDOUR PARISH CHURCH (CHURCH OF SCOTLAND) AND BURIAL GROUND	B	388481	863398
2304	BOTRIPHNIE	MILL OF TOWIE, GRANARY (RESTAURANT)	B	340770	847245
2228	CULLEN	CULLEN HOUSE, OLD LAUNDRY	B	350584	866312
1624	BELLIE	GORDON CASTLE FARM, FARM COTTAGES	B	335360	859180
1626	BELLIE	GORDON CASTLE GARDENS, LARGE AND SMALL WALLED GARDENS	B	334812	859105
1544	BELLIE	CHAPELFORD, ST NINIAN'S BURIAL GROUND, CHAPEL AND DAWSON MAUSOLEUM	B	339136	860009
1546	BELLIE	FOCHABERS, 79 HIGH STREET, BANK OF SCOTLAND	B	334453	858815
1555	BELLIE	FOCHABERS, 13, 15 EAST STREET	B	334753	858598
1555	BELLIE	FOCHABERS, 13, 15 EAST STREET	B	334758	858592
1581	BELLIE	FOCHABERS, SOUTH STREET, ROMAN CATHOLIC CHURCH AND PRESBYTERY	B	334659	858630
1586	BELLIE	FOCHABERS, 8, 10 THE SQUARE	B	334579	858807
1593	BELLIE	FOCHABERS, WEST STREET GARDEN WALL FRONTING BEN ALISKAY, BUT NOT INCLUDING HOUSE	B	334444	858939
43681	HUNTLY	CORSE CROFT, LOANEND, KINNOIR	B	355702	843275
42167	TURRIFF	TOWN CROSS OF TURRIFF, CASTLE STREET	B	372302	849802
40443	ROTHES	8, 10, 12, 14, 16, HIGH STREET	B	327772	849149
40286	PORTSOY	18, 20 SHILLINGHILL	B	359009	866035
40286	PORTSOY	18, 20 SHILLINGHILL	B	359017	866040
40287	PORTSOY	22 SHILLINGHILL AND FRONT GARDEN	B	359012	866025
40289	PORTSOY	6, 7 SHOREHEAD	B	358871	866284
40290	PORTSOY	9 SHOREHEAD	B	358865	866293
40295	PORTSOY	SHOREHEAD, OLD CO-OPERATIVE GRAIN STORE	B	358863	866358
40184	PORTKNOCKIE	6 SEAFIELD STREET	B	349055	868386
40205	PORTKNOCKIE	5 ADMIRALTY STREET	B	349088	868368
40251	PORTSOY	31, 33 LOW STREET	B	358912	866268
40265	PORTSOY	4 NORTH HIGH STREET	B	358886	866183
40269	PORTSOY	22, 24 NORTH HIGH STREET	B	358902	866254
40092	PORTKNOCKIE	9 ADMIRALTY STREET	B	349087	868403
40093	PORTKNOCKIE	11 ADMIRALTY STREET	B	349088	868419
40099	PORTKNOCKIE	8 ADMIRALTY STREET	B	349103	868372
40139	PORTKNOCKIE	20 HIGH STREET	B	348808	868376
39739	PETERHEAD	1 HARBOUR STREET AND HARBOUR GARAGE JAMAICA STREET.	B	413538	845879

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39750	PETERHEAD	CALEDONIAN SHIP CHANDLING WAREHOUSE, SHORE CAFE 26-32 HARBOUR STREET, 2-8 JAMES STREET, AND 12 UNION STREET.	B	413654	846031
39782	PETERHEAD	18-20 JAMAICA STREET	B	413507	845951
39788	PETERHEAD	23 MERCHANT STREET	B	413429	845993
39813	PETERHEAD	2, 4 THREADNEEDLE STREET	B	413363	846047
39819	PETERHEAD	WEST ASSOCIATE CHURCH ST. PETER STREET	B	413180	846284
39672	PETERHEAD	16-20, 24, 26 MARISCHALL STREET.	B	413349	846149
39683	PETERHEAD	65, 67, 71 BROAD STREET AND PEND TO 73	B	413576	846108
39683	PETERHEAD	65, 67, 71 BROAD STREET AND PEND TO 73	B	413570	846117
39687	PETERHEAD	10-16 BROAD STREET AND 1, 3 MERCHANT STREET.	B	413435	846079
39723	PETERHEAD	39-41 MAIDEN STREET.	B	413208	846047
37635	MACDUFF	18, 19 SHORE STREET, CLYDESDALE BANK, WALLED GARDEN AND REAR OUTBUILDING	B	370401	864526
37640	MACDUFF	7, 9, 11 UNION ROAD AND REAR YARD WITH OUTBUILDINGS	B	370087	864422
37623	MACDUFF	DOUNE, FAIRS COTTAGE	B	369583	863448
37625	MACDUFF	31 DUFF STREET	B	370501	864563
35640	KEITH	134, 136 LAND STREET, (FORMER NORTH OF SCOTLAND BANK)	B	343092	850556
35647	KEITH	115, 117, MID STREET	B	343241	850422
35674	KEITH	2 REIDHAVEN SQUARE AND GARDEN WALLS	B	343267	850174
35681	KEITH	STATION ROAD, MILTON TOWER	B	342864	851199
35634	KEITH	LAND STREET, WAR MEMORIAL	B	343139	850745
31865	FRASERBURGH	OLD PARISH CHURCH SALTOUN SQUARE	B	399829	867076
31869	FRASERBURGH	REGISTRAR'S OFFICE, 14, 16 SALTOUN SQUARE	B	399782	867137
31896	FRASERBURGH	24-32 SALTOUN PLACE	B	399720	866743
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399377	867184
31431	FINDOCHTY	18 NEW STREET	B	346508	868131
31459	FINDOCHTY	8 SEAFIELD STREET	B	345928	867656
31473	FINDOCHTY	10 SOUTH BLANTYRE STREET	B	346425	868012
31474	FINDOCHTY	12, 14 SOUTH BLANTYRE STREET	B	346436	868029
31383	FINDOCHTY	14 CASTLE STREET, HAZELHURST	B	345825	867673
31386	FINDOCHTY	5 CHAPEL STREET	B	346168	867840
31387	FINDOCHTY	6 CHAPEL STREET	B	346178	867844
31391	FINDOCHTY	5 CHURCH STREET	B	346403	868136
31393	FINDOCHTY	7 CHURCH STREET	B	346422	868119
23914	CULLEN	178 SEATOWN	B	350848	867222
23945	CULLEN	228 SEATOWN	B	350935	867227
23761	CULLEN	28, 30 SEAFIELD STREET	B	351278	867063
23802	CULLEN	SEATOWN, VIADUCT OVER BURN OF CULLEN	B	350623	867213
23803	CULLEN	SEATOWN, CULLEN HARBOUR AND HARBOUR LIGHT	B	351001	867408
23820	CULLEN	38, 39 SEATOWN	B	350982	867156
23835	CULLEN	70 SEATOWN	B	350776	867196
23724	CULLEN	12 NORTH CASTLE STREET	B	351120	867050
23727	CULLEN	18, 20 NORTH CASTLE STREET	B	351096	867063
23747	CULLEN	37 SEAFIELD STREET	B	351172	867203
23756	CULLEN	2, 4, 6 SEAFIELD STREET	B	351348	867002
22717	BUCKIE	BUCKIE, 7 BARON STREET, CLUNY LODGE AND GARDEN WALL	B	342436	865692
22721	BUCKIE	BUCKIE, WEST CHURCH STREET, ALL SAINTS EPISCOPAL CHURCH HALL AND PARSONAGE	B	342469	865561
22728	BUCKIE	BUCKPOOL, 35 HARBOUR HEAD	B	341662	865528
22113	BANFF	4 WATER PATH	B	369006	864059
21978	BANFF	CLUNIE STREET, CHALMERS HOSPITAL (ORIGINAL BUILDING ONLY)	B	368818	864465
21993	BANFF	11 FIFE STREET AND REAR GARDEN WALLS	B	368727	864374
21994	BANFF	13 FIFE STREET AND REAR GARDEN WALLS	B	368725	864389
22009	BANFF	HIGH SHORE, BANFF POLICE STATION AND GARDEN WALL	B	369006	864109
22018	BANFF	29, 31 HIGH STREET	B	368867	863869

HB Number	Parish Borough	Address	Category	X	Y
22030	BANFF	HIGH STREET, EPISCOPAL RECTORY AND FRONT RAILINGS	B	368897	863920
22032	BANFF	30, 32 HIGH STREET	B	368895	863943
22036	BANFF	1 INSTITUTION TERRACE	B	368842	863790
22042	BANFF	15, 17 LOW STREET	B	368970	863870
21877	BANFF	3, 4, 5 BACK PATH AND GARDEN WALLS	B	368943	863839
21880	BANFF	8 BACK PATH AND 18 HIGH STREET	B	368894	863833
21929	BANFF	9 CARMELITE STREET	B	369004	864007
21952	BANFF	83 CASTLE STREET OLD BREWERY	B	368835	864532
21954	BANFF	6 CASTLE STREET	B	368840	864282
19611	MARNOCH	MARNOCH, OLD CHURCH WITH RETAINING WALL, STANDING STONES AND MOUNTING BLOCK	B	359709	850199
16454	TYRIE	PITSLIGO ARMS HOTEL. GATEPIERS TO REAR COURT	B	388180	856080
16558	STRICHEN	ANDERSON AND WOODMAN INSTITUTE, WATER STREET.	B	394443	855367
16346	PETERHEAD	1 QUEEN'S ROAD	B	413451	842375
16363	PETERHEAD	WINDMILL TOWER, GLENUGIE DISTILLERY INVERNETTIE.	B	412356	844196
16364	PETERHEAD	SANDFORD LODGE	B	412397	843401
16422	TURRIFF	DELGATIE DOVECOT NEAR DELGATIE CASTLE	B	375473	850654
16428	TURRIFF	GREENGATE LODGE AND GATES DELGATIE	B	373272	850397
16435	TYRIE	24 HIGH STREET	B	388139	856344
16070	OLD DEER	THE STABLES, PITFOUR (MR. WATSON)	B	397981	849218
16103	OLD DEER	WINDHILL FARM	B	395279	846521
16113	OLD DEER	PARISH CHURCH	B	397880	847679
16027	MARNOCH	CLUNIE HOME FARM	B	363732	850187
16028	MARNOCH	ARDMEALLIE HOUSE WITH STEADING RANGE, COACHHOUSE, BOUNDARY WALLS AND GATEPIERS	B	359104	850621
15863	MORTLACH	KININVIE HOUSE DOVECOT	B	331971	844042
15866	MORTLACH	TULLICH HOUSE	B	332495	842702
15870	ROTHES	ORTON, ROO EMAH AND MARWIN (FORMER RAILWAY HOUSES AND STATION	B	331197	852960
15613	ROTHIEMAY	MILLTOWN OF ROTHIEMAY, BRIDGE OVER RIVER DEVERON	B	354783	848070
15642	SPEYMOUTH	MOSSTODLOCH, COSY CORNER	B	332861	859918
15644	SPEYMOUTH	ORBLISTON STATION HOUSE	B	330427	858243
15649	SPEYMOUTH	STYNIE FARMHOUSE AND GARDEN WALLS	B	333552	860696
15518	RATHVEN	CULLEN HOUSE HOME FARM	B	350007	866094
15526	RATHVEN	RANNAS E AND W BLOCKS, AND WALLED GARDEN	B	346179	864736
14865	URQUHART	INNES HOUSE, NORTH LODGE	B	327918	865540
14873	URQUHART	SPEYMOUTH RAILWAY VIADUCT	B	334590	864184
14875	URQUHART	URQUHART MANSE, DOVECOT	B	328286	862691
14841	URQUHART	INNES HOUSE, CROSS (AT LOCHHILL)	B	328908	864964
13888	PETERHEAD	BODDAM CASTLE	B	413209	841800
13595	INVERKEITHNY	INVERKEITHNY SCHOOLHOUSE	B	362903	846980
13596	INVERKEITHNY	MIDTOWN OF HADDO	B	362308	846981
13597	FORGLEN	FORGLEN, COACHHOUSE AND STABLES	B	370011	851610
13599	FORGLEN	FORGLEN, DOVECOT	B	369642	851695
13608	FORGLEN	FORGLEN, NORTH LODGE, GATEPIERS AND QUADRANT WALLS	B	369904	852503
13612	KING EDWARD	KING EDWARD PARISH CHURCH, WALLS AND WAR MEMORIAL	B	371566	857935
13617	KING EDWARD	STROCHERIE FARMHOUSE	B	373103	855972
10584	GAMRIE	TROUP HOUSE	B	382933	865806
10608	GAMRIE	58 CROVIE AND STORE	B	380741	865763
10611	GAMRIE	64 CROVIE	B	380723	865796
10621	FORDYCE	DURN HOUSE STABLES	B	358836	865139
10693	FORDYCE	FORDYCE VILLAGE, 1, 2, 3, 4, ST TARQUINS PLACE	B	355579	863612
10560	GAMRIE	31 CROVIE	B	380776	865574
10574	GAMRIE	GAMRIE PARISH CHURCH (CHURCH OF SCOTLAND) AND BURIAL GROUND	B	379302	862706

HB Number	Parish Borough	Address	Category	X	Y
9600	FORGLEN	CARNOUSIE, AULDTOWN OF CARNOUSIE	B	365853	850048
9640	INVERKEITHNY	HADDO, WALLED GARDEN	B	362065	846222
9422	LONGSIDE	BRIDGE OF RORA	B	404192	849292
9425	LONGSIDE	INVERQUHOMERY STEADING	B	402095	846478
9427	LONGSIDE	BALUSS BRIDGE OVER SOUTH UGIE WATER	B	400204	846956
9453	FORGUE	COBAIRDY HOUSE	B	357565	843689
9255	LONMAY	LOGIE LODGES	B	403801	857611
9257	LONMAY	LUMBS FARMHOUSE	B	402902	857637
9083	HUNTLY	HUNTLY CASTLE HOTEL. (HUNTLY LODGE)	B	353282	841360
8701	KEITH	CROOKS MILL	B	340960	851569
8706	GRANGE	EDINGIGHT HOUSE AND SCREEN WALL	B	351765	856072
8709	GRANGE	BRIDGE OF GRANGE OVER RIVER ISLA	B	347589	851615
6760	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, FAIRHOLM	B	355511	863783
3209	BOYNDIE	WHITEHILLS, 4 LOW SHORE	B	365251	865407
3223	BOYNDIE	WHITEHILLS, CHAPEL STREET, METHODIST CHAPEL, ENCLOSING WALLS AND GATEPIERS	B	365446	865413
3242	BOYNDIE	MILL OF BOYNDIE FARMHOUSE	B	366482	864094
3165	BOYNDIE	WHITEHILLS, SEAFIELD STREET, TRINITY CHURCH (CHURCH OF SCOTLAND)	B	365500	865234
3185	BOYNDIE	WHITEHILLS, 25 LOW SHORE	B	365368	865448
3029	CRIMOND	OLD SCHOOL AND SCHOOLHOUSE, CRIMOND	B	405269	856819
3039	CRIMOND	RATTRAY HOUSE, OUTBUILDINGS WALLED GARDENS, AND 3 SETS OF GATEPIERS ATTACHED THERETO.	B	409315	856150
3051	BANFF	LOWER INCHDREWER	B	365833	861116
2302	BOTRIPHNIE	DRUMMUIR TOLLHOUSE	B	336412	843365
2318	BOHARM	CRAIGELLACHIE, BRIDGE OF FIDDICH OVER RIVER FIDDICH	B	329325	845154
2319	BOHARM	MULBEN MILL	B	335159	851223
2350	ABERLOUR	ABERLOUR HOUSE, STABLES	B	327978	843578
2351	ABERLOUR	ABERLOUR HOUSE, COLUMN	B	327843	843734
2354	ABERLOUR	ABERLOUR HOUSE, WALLED GARDEN	B	328106	843370
2211	DESKFORD	KIRKTON OF DESKFORD, DOMINIE	B	350832	861612
2221	CULLEN	CULLEN HOUSE, IRON BRIDGE OVER THE BURN OF CULLEN (NEAR SAWMILL)	B	350950	865724
1619	BELLIE	FOCHABERS, 15 AND 15A THE SQUARE AND GARDENS WALLS FACING THE SQUARE, GEORGE STREET AND SPEY STREET	B	334484	858789
1553	BELLIE	FOCHABERS, 3, 5 DUKE STREET AND GARDEN WALLS	B	334562	858857
1566	BELLIE	FOCHABERS, 69 HIGH STREET	B	334569	858747
1575	BELLIE	FOCHABERS, 78 HIGH STREET GORDON ARMS HOTEL INCLUDING WEST STREET AND GORDON STREET ELEVATIONS	B	334433	858869
1582	BELLIE	FOCHABERS, 42 SOUTH STREET, SOUTH VIEW	B	334547	858663
49230	URQUHART	THREAPLAND WOOD, AA SENTRY BOX (NO 714)	B	329034	861098
49836	BOYNDIE	BOYNDIE AIRFIELD, OPERATIONS BLOCK	B	362365	863360
42164	TURRIFF	ST. CONGAN'S CHURCHYARD AND GATEWAY	B	372230	849820
40431	ROSEHEARTY	CAIRNHILL, WAR MEMORIAL	B	393194	866879
40433	ROSEHEARTY	ROSEHEARTY HARBOUR	B	393124	867774
40440	ROTHES	HIGH STREET/SEAFIELD SQUARE, ROTHES PARISH CHURCH (CHURCH OF SCOTLAND)	B	327786	849170
40444	ROTHES	67 NEW STREET	B	327760	849482
40270	PORTSOY	26 NORTH HIGH STREET	B	358898	866278
40283	PORTSOY	4 SEAFIELD TERRACE, CHURCH OF SCOTLAND MANSE	B	358681	865894
40298	PORTSOY	SHORE STREET, NEW HARBOUR	B	359033	866455
40309	PORTSOY	ST COMB'S ROAD, OLD LIFEBOAT HOUSE	B	359243	866057
40171	PORTKNOCKIE	13 SEAFIELD STREET	B	349041	868446
40220	PORTSOY	15, 17, 19 CHURCH STREET	B	359052	865982
40243	PORTSOY	6 HILL STREET, WITH GARDEN WALLS AND FORMER GIG-HOUSE	B	358770	866011

HB Number	Parish Borough	Address	Category	X	Y
40250	PORTSOY	29 LOW STREET	B	358915	866257
40261	PORTSOY	5, 7 NORTH HIGH STREET AND REAR GARDEN WALLS	B	358866	866190
40095	PORTKNOCKIE	15 ADMIRALTY STREET	B	349089	868454
39723	PETERHEAD	39-41 MAIDEN STREET.	B	413202	846050
39744	PETERHEAD	BRAE COTTAGE, HARBOUR STREET.	B	413577	845910
39747	PETERHEAD	18, 19 HARBOUR STREET	B	413621	845959
39756	PETERHEAD	10 CHARLOTTE STREET	B	413198	846026
39776	PETERHEAD	27 JAMAICA STREET	B	413533	845892
39783	PETERHEAD	22 JAMAICA STREET	B	413506	845940
39787	PETERHEAD	17-21 MERCHANT STREET AND 17, 19 ST. ANDREW STREET	B	413428	846008
39827	PETERHEAD	27 PRINCE STREET	B	413026	846362
39685	PETERHEAD	77 BROAD STREET	B	413597	846102
39689	PETERHEAD	BANK OF SCOTLAND BUILDING BROAD STREET.	B	413506	846081
39694	PETERHEAD	MUNICIPAL CHAMBERS, ARBUTHNOT HOUSE.	B	413616	846065
37635	MACDUFF	18, 19 SHORE STREET, CLYDESDALE BANK, WALLED GARDEN AND REAR OUTBUILDING	B	370374	864539
37631	MACDUFF	THE KNOWES, WAR MEMORIAL	B	370464	864314
35645	KEITH	49, 51 MID STREET	B	343206	850162
35655	KEITH	138, 140 MID STREET, THE INSTITUTE	B	343216	850502
35656	KEITH	176, 178, 180 MID STREET	B	343229	850644
34936	HUNTLY	19 CASTLE STREET	B	352995	840100
34942	HUNTLY	HUNTLY WAR MEMORIAL	B	353000	840136
34947	HUNTLY	29 DEVERON STREET	B	352816	840025
34949	HUNTLY	DISTRICT SANITARY INSPECTOR'S OFFICE, 3, 5 DEVERON ROAD	B	352682	840112
31866	FRASERBURGH	SALTOUN MAUSOLEUM E. OF OLD PARISH CHURCH	B	399831	867065
31874	FRASERBURGH	BRITTANIC ASSURANCE COMPANY BUILDING, BROAD STREET AND COMMERCE STREET	B	399827	866846
31891	FRASERBURGH	64, 68 FRITHSIDE STREET. (SALVATION ARMY)	B	399634	866870
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399455	867180
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399418	867184
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399401	867183
31397	FINDOCHTY	11, 13 MID STREET	B	345987	867674
31411	FINDOCHTY	14 NETHERTON TERRACE	B	345987	867775
31461	FINDOCHTY	12 SEAFIELD STREET	B	345930	867622
31471	FINDOCHTY	6 SOUTH BLANTYRE STREET	B	346405	867987
31372	FINDOCHTY	5 CASTLE STREET	B	345866	867680
31382	FINDOCHTY	12 CASTLE STREET, ROSEMOUNT	B	345837	867679
23781	CULLEN	1, 3 THE SQUARE	B	351233	867065
23849	CULLEN	88 SEATOWN	B	350916	867159
23715	CULLEN	33 GRANT STREET, BANK OF SCOTLAND	B	351222	867069
23735	CULLEN	5 SEAFIELD PLACE (FORMER FREE CHURCH MANSE)	B	351332	866974
23755	CULLEN	SEAFIELD STREET, MEETING HOUSE (FORMER STORE)	B	351087	867305
23756	CULLEN	2, 4, 6 SEAFIELD STREET	B	351354	866991
23756	CULLEN	2, 4, 6 SEAFIELD STREET	B	351343	867009
22101	BANFF	7 ST CATHERINE STREET	B	368790	864326
21974	BANFF	5 CLUNIE STREET, ROYSTON	B	368810	864428
21986	BANFF	DUFF HOUSE, FIFE GATES	B	368734	863178
21990	BANFF	1 FIFE STREET	B	368728	864341
22020	BANFF	39 HIGH STREET	B	368862	863892
22025	BANFF	HIGH STREET, ST BRANDON'S CLOSE	B	368902	863861
22038	BANFF	LOW STREET, COLLIE LODGE WITH LAMP STANDARDS	B	368929	863785
22054	BANFF	4, 4A LOW STREET	B	368995	863804
22064	BANFF	36, 38 LOW STREET AND 2 CARMELITE STREET	B	368985	863973
22070	BANFF	8 OLD CASTLEGATE, ST NINIANS AND GARDEN WALLS	B	368912	864048
21884	BANFF	9 BOYNDIE STREET, BOYNDIE HOUSE	B	368839	864021

HB Number	Parish Borough	Address	Category	X	Y
21886	BANFF	13 BOYNDIE STREET	B	368813	864018
21901	BANFF	49, 51, 53 BRIDGE STREET	B	369002	863896
21901	BANFF	49, 51, 53 BRIDGE STREET	B	368996	863897
21932	BANFF	16, 18 CARMELITE STREET	B	369031	863982
19914	ABERCHIRDER	MAIN STREET, NEW MARNOCH CHURCH (CHURCH OF SCOTLAND) WITH BOUNDARY WALL	B	362876	852624
19922	ABERCHIRDER	ST MARNAN'S EPISCOPAL CHAPEL WITH SCHOOL, RETAINING WALL AND GATEPIERS	B	362245	852235
19928	ABERCHIRDER	23 SOUTH STREET	B	362536	852323
19778	RATHEN	MORMOND (CORTES) HOUSE	B	399987	859489
19619	MARNOCH	NETHERDALE HOUSE, COACHHOUSE STABLE AND COACHMAN'S HOUSE, AND GARAGE	B	365218	848477
19605	MARNOCH	JANEFIELD	B	361331	851174
19607	MARNOCH	KINNAIRDY CASTLE, DOVECOT AND WALLED GARDEN	B	360875	849760
19613	MARNOCH	MARNOCH, OLD SCHOOLHOUSE	B	359771	850033
18788	ORDIQUHILL	CORNHILL, MID STREET, HAY MEMORIAL HALL AND WARDEN'S COTTAGE	B	358534	858167
16568	STRICHEN	OLD BRIDGE OVER UGIE WATER AT MILL OF STRICHEN	B	394360	855416
16362	PETERHEAD	REFORM TOWER MEETHILL	B	412155	844661
16390	PETERHEAD	RICHMOND COTTAGE, OUTHOUSES AND GARDEN WALL NOW RICHMONDHILL	B	410572	845453
16395	PETERHEAD	BLACKHILL HOUSE, INCLUDING SOUTH GARDEN WALLS AND GATES.	B	408542	843312
16396	PETERHEAD	WELLINGTON PLACE, FARMHOUSE	B	410546	844025
16425	TURRIFF	DELGATIE CASTLE, BRIDGE OVER BURN OF BURNSIDE AT HEAD OF FISH POND	B	375542	850602
16063	OLD DEER	SOUTH LODGE GATES, PITFOUR	B	397812	848314
16078	OLD DEER	NORTH AUCHMACHAR, FARMHOUSE	B	395497	850554
16111	MONQUHITTER	AUCHRY HOUSE, LODGE.	B	379702	850781
16115	OLD DEER	1 ABBEY STREET AND 2 KIRKGATE OLD DEER	B	397852	847663
16152	NEW DEER	NEW DEER PARISH CHURCH (ST KANE)	B	388605	846931
16156	NEW DEER	HILL OF CULSH (DINGWALL FORDYCE) MONUMENT.	B	388109	848299
15827	ROTHES	DUNDURCAS OLD CHURCH AND BURIAL GROUND	B	330238	851045
15828	ROTHES	ORTON HOUSE	B	331420	853941
15870	ROTHES	ORTON, ROO EMAH AND MARWIN (FORMER RAILWAY HOUSES AND STATION	B	331198	852969
15885	PITSLIGO	SANDHAVEN, MAIN STREET, SANDHAVEN MILL	B	396651	867246
15612	ROTHIEMAY	MAYEN HOUSE, STABLES/STEADING	B	358059	847751
15616	ROTHIEMAY	MILLTOWN OF ROTHIEMAY, PARISH CHURCH (CHURCH OF SCOTLAND) AND BURIAL GROUND	B	354735	848363
14825	URQUHART	GARMOUTH, CHURCH STREET, DANABER (FORMER FREE CHURCH MANSE)	B	333987	864313
14832	URQUHART	GARMOUTH HIGH STREET, THE MOORINGS AND REAR GIGHOUSE	B	333935	864445
14844	URQUHART	KINGSTON, BURNSIDE ROAD, 'BURNSIDE'	B	333779	865365
13893	ST FERGUS	INVERUGIE CASTLE	B	410216	848302
13471	KING EDWARD	BALCHERS FARMHOUSE	B	371465	858073
13354	GAMRIE	21 CROVIE	B	380764	865491
10596	FORDYCE	FORDYCE VILLAGE, CASTLE LANE, COTTAGES AT WEST SIDE OF LANE	B	355580	863755
10615	FORDYCE	FORDYCE VILLAGE, SCHOOL ROAD, ACADEMY HOUSE AND GARDEN WALLS	B	355606	863679
10630	FORDYCE	FORDYCE VILLAGE, BRIDGE STREET, CLIFTON COTTAGE	B	355530	863848
10669	FORDYCE	12 SANDEND	B	355485	866509
10676	FORDYCE	38 SANDEND	B	355528	866458
10710	FORDYCE	21 SANDEND	B	355512	866492
10543	GAMRIE	50 CROVIE	B	380754	865673
10545	GAMRIE	52 CROVIE	B	380756	865695
10548	GAMRIE	12 CROVIE	B	380747	865437

HB Number	Parish Borough	Address	Category	X	Y
10549	GAMRIE	13 CROVIE	B	380748	865451
10553	GAMRIE	18 CROVIE	B	380765	865464
10558	GAMRIE	27 CROVIE	B	380775	865544
10561	GAMRIE	33 CROVIE	B	380777	865589
10564	GAMRIE	36 CROVIE	B	380763	865602
10571	GAMRIE	47 CROVIE	B	380757	865653
10577	GAMRIE	GREENSKARES, COTTAGE FARM	B	378649	863390
9593	FRASERBURGH	SOUTH MIDDLEBURGH TOLLHOUSE.	B	398951	865495
9417	LONGSIDE	ROWANLEA, MAIN STREET	B	403552	847550
9426	LONGSIDE	INVERQUHOMERY, GROUP OF 3 DOVECOTS	B	402058	846426
9452	FORGUE	CORSE HOUSE, GATE-PIERS AT CROSS ROADS.	B	360466	840054
9241	LONMAY	CRIMONMOGATE HOUSE MONUMENT	B	404187	858709
9252	LONMAY	CRIMONMOGATE HOUSE S.E. LODGE NEAR MILL OF CRIMONMOGATE	B	404189	858420
8501	KNOCKANDO	MACALLAN OLD BURIAL GROUND AND ELCHIES MAUSOLEUM	B	327893	844269
6762	FORDYCE	1 AND A HALF SANDEND	B	355467	866560
3241	BOYNDIE	MAINS OF BALDAVIE HOUSE	B	362112	861202
3199	BOYNDIE	WHITEHILLS 10 AND 10A KNOCK STREET, KNOCK HOUSE AND GARDEN WALLS	B	365610	865514
3205	BOYNDIE	WHITEHILLS, LOW SHORE/ SEAFIELD STREET, SEAFIELD ESTATE GIRNAL/WAREHOUSE	B	365523	865578
2893	ALVAH	MAINS OF AUCHINBADIE	B	368876	858503
2894	ALVAH	MILL OF AUCHINBADIE	B	368965	858298
2721	ABERDOUR	33 PENNAN	B	384554	865472
2723	ABERDOUR	36 PENNAN	B	384534	865476
2745	ABERDOUR	OLD ABERDOUR, FORMER CHURCH (CHURCH OF SCOTLAND) MANSE (BEACH HOUSE HOTEL), STEADING AND GARDEN WALLS	B	388430	864366
2750	ABERDOUR	PENNAN HARBOUR, EAST AND WEST PIERS	B	384671	865584
2774	ABERDOUR	NEW ABERDOUR, LOW STREET, CULAG AND GARDEN WALLS	B	388338	862815
2297	BOTRIPHNIE	DRUMMUIR CASTLE, GATE LODGE	B	337611	844386
2300	BOTRIPHNIE	DRUMMUIR, BOTRIPHNIE PRIMARY SCHOOL	B	337922	844162
2316	BOHARM	ARNDILLY, MACDOWALL BRIDGE OVER MACDOWALL BURN	B	329627	845786
2325	BOHARM	BOHARM BURIAL GROUND AND RUIN OF FORMER CHURCH OF SCOTLAND	B	332126	846439
2361	ABERLOUR	ABERLOUR HOUSE, CHEF'S HOUSE (ABERLOUR HOUSE PREPARATORY SCHOOL)	B	328086	843399
2224	CULLEN	CULLEN HOUSE, IVY BRIDGE OVER BURN OF CULLEN	B	350692	866080
1620	BELLIE	GORDON CASTLE, HOME FARM STEADING (FORMER STABLES/CARRIAGE HOUSE)	B	334928	859569
1630	BELLIE	GORDON CASTLE, QUARRY GARDENS LODGE	B	335545	860253
1631	BELLIE	GORDON CASTLE, WHITEGATE LODGE AND OUTBUILDINGS	B	335825	858678
1559	BELLIE	FOCHABERS, 10 GORDON STREET AND GARDEN WALLS	B	334483	858873
1580	BELLIE	FOCHABERS, THE OLD MANSE	B	334496	858425
1592	BELLIE	FOCHABERS, WAR MEMORIAL	B	334266	858979
1606	BELLIE	TUGNET, TUGNET COTTAGE AND STEADING	B	334971	865344
1613	BELLIE	FOCHABERS, 1, 3 THE SQUARE	B	334562	858752
47	CAIRNIE	AUCHANACHIE CASTLE, DOVECOTE	B	349858	846865
49992	NEW DEER	BRUCKLAY CASTLE, WALLED GARDEN INCLUDING GATES AND RAILINGS	B	391080	849773
42176	TURRIFF	THE LODGING AND ADJOINING SHOP (HUTCHEON) HIGH STREET	B	372328	849777
42178	TURRIFF	3 MANSE TERRACE	B	372298	849957
40436	ROSEHEARTY	16 UNION STREET, THE JAM AND 2 THE SQUARE, OLD NETTING FACTORY	B	393403	867462
40277	PORTSOY	2, 4 SEAFIELD STREET	B	358837	865923
40150	PORTKNOCKIE	12 HILL STREET	B	348831	868357
40156	PORTKNOCKIE	13 PULTENEY STREET	B	348758	868444
40186	PORTKNOCKIE	10 SEAFIELD STREET	B	349055	868419
40235	PORTSOY	5, 7, 9 CULBERT STREET	B	358911	866184

HB Number	Parish Borough	Address	Category	X	Y
40238	PORTSOY	18, 20, 22 CULBERT STREET	B	358937	866165
40266	PORTSOY	10 NORTH HIGH STREET	B	358883	866202
40138	PORTKNOCKIE	18 HIGH STREET	B	348825	868374
39732	PETERHEAD	42-46 MAIDEN STREET AND 4-12 LOVE LANE	B	413184	846091
39745	PETERHEAD	CUSTOM HOUSE, 12-14 HARBOUR STREET	B	413606	845936
39760	PETERHEAD	18 CHARLOTTE STREET AND 15 MAIDEN STREET	B	413284	846000
39769	PETERHEAD	S.A.I. WAREHOUSE 1, 3 JAMAICA STREET	B	413526	845991
39773	PETERHEAD	17-21 JAMAICA STREET	B	413528	845926
39780	PETERHEAD	14 JAMAICA STREET	B	413504	845979
39781	PETERHEAD	16, 16A JAMAICA STREET	B	413506	845960
39813	PETERHEAD	2, 4 THREADNEEDLE STREET	B	413368	846036
39670	PETERHEAD	KIRKBURN HOUSE (FORMER MANSE) AND OFFICES.	B	412598	846107
39714	PETERHEAD	3 MAIDEN STREET	B	413343	846016
37616	MACDUFF	CHURCH STREET, DOUNE CHURCH OF SCOTLAND, CHURCH COTTAGE AND BURIAL GROUND	B	370141	864358
37626	MACDUFF	41 DUFF STREET, CRAIGDHU AND GARDEN WALLS	B	370531	864551
37627	MACDUFF	61 DUFF STREET, GARDNER CHURCH OF SCOTLAND (FORMER FREE CHURCH)	B	370610	864490
37632	MACDUFF	MANNER STREET MILL	B	370889	864676
35643	KEITH	166 LAND STREET AND 16 UNION STREET	B	343118	850677
35637	KEITH	86 LAND STREET, CUTHILL LEA	B	343081	850360
34937	HUNTLY	8-12 CASTLE STREET	B	352936	840053
34940	HUNTLY	20, 22 CASTLE STREET	B	352950	840070
31875	FRASERBURGH	7, 9 COMMERCE STREET	B	399835	866844
31880	FRASERBURGH	THE WORLD'S END 11 DALRYMPLE STREET	B	399857	866788
31901	FRASERBURGH	COASTGUARD STATION HOUSES, 60-70 SALTOUN PLACE	B	399755	866423
31902	FRASERBURGH	WAR MEMORIAL SALTOUN PLACE AND ST. MODAN'S GATE	B	399730	866353
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399409	867180
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399386	867184
31425	FINDOCHTY	4 NEW STREET	B	346468	868223
31430	FINDOCHTY	16 NEW STREET	B	346505	868139
31470	FINDOCHTY	4 SOUTH BLANTYRE STREET	B	346398	867978
31476	FINDOCHTY	33 STERLOCHY STREET	B	346318	868177
31374	FINDOCHTY	9 CASTLE STREET	B	345834	867660
23776	CULLEN	22, 24 SOUTH DESKFORD STREET, LAWTIE'S MORTIFICATION	B	351171	866922
23819	CULLEN	36, 37 SEATOWN	B	350954	867150
23716	CULLEN	2, 4 GRANT STREET	B	351096	866968
23726	CULLEN	16 NORTH CASTLE STREET	B	351105	867062
23746	CULLEN	SEAFIELD STREET, RAILWAY VIADUCT	B	351164	867181
22110	BANFF	WATER PATH, PATH HOUSE GARDEN WALLS	B	368923	864097
21967	BANFF	86 CASTLE STREET	B	368860	864467
22017	BANFF	5 HIGH STREET	B	368856	863809
22019	BANFF	33, 35 HIGH STREET	B	368864	863885
22021	BANFF	41, 43, 45, 47 HIGH STREET AND REAR GARDEN WALLS	B	368865	863907
22027	BANFF	HIGH STREET, ST BRANDON'S AND GARDEN WALLS	B	368901	863873
22043	BANFF	23, 25, 27 LOW STREET	B	368962	863884
22050	BANFF	55, 57, 59 LOW STREET	B	368966	863998
22051	BANFF	LOW STREET, BIGGAR FOUNTAIN	B	368962	863981
22071	BANFF	14 OLD CASTLEGATE AND GARDEN WALLS	B	368915	864065
22073	BANFF	1 OLD MARKET PLACE, FRONT WALL AND GATEPIERS	B	369138	863976
22075	BANFF	9 OLD MARKET PLACE	B	369174	864008
21877	BANFF	3, 4, 5 BACK PATH AND GARDEN WALLS	B	368953	863839
21950	BANFF	77 CASTLE STREET	B	368841	864420
19619	MARNOCH	NETHERDALE HOUSE, COACHHOUSE STABLE AND COACHMAN'S HOUSE, AND GARAGE	B	365218	848465

HB Number	Parish Borough	Address	Category	X	Y
19603	MARNOCH	CULVIE WITH STEADING AND WALLED GARDEN	B	359140	853704
19603	MARNOCH	CULVIE WITH STEADING AND WALLED GARDEN	B	359081	853701
19603	MARNOCH	CULVIE WITH STEADING AND WALLED GARDEN	B	359163	853623
19604	MARNOCH	HOUSE OF GLENNIE WITH GARDEN WALLS AND GATES AND GATEPIERS	B	358243	849402
19611	MARNOCH	MARNOCH, OLD CHURCH WITH RETAINING WALL, STANDING STONES AND MOUNTING BLOCK	B	359706	850222
16455	TYRIE	53 HIGH STREET	B	388203	856059
16540	STRICHEN	TECHMUIRY HOUSE AND OFFICES	B	395779	860111
16548	STRICHEN	STRICHEN HOUSE, DOOCOT.	B	393708	854434
16416	TURRIFF	DEVERON (OR EASTSIDE) BRIDGE OVER RIVER DEVERON BETWEEN KNOCKIEMILL AND EASTSIDE.	B	371412	850344
16419	TURRIFF	KNOCKIEMILL FARMHOUSE	B	371270	850986
16423	TURRIFF	DELGATIE CASTLE LAUNDRY (NOW FORESTER'S COTTAGE)	B	375494	850621
16438	TYRIE	48 HIGH STREET	B	388211	856128
16445	TYRIE	TYRIE MANSE	B	392826	863040
16064	OLD DEER	BRUXIE LODGE, PITFOUR	B	396004	848786
16068	OLD DEER	TEMPLE OF THESEUS, THE LAKE, PITFOUR (CAPTAIN CURZON)	B	397472	848693
16074	OLD DEER	THE OBSERVATORY, DRINNIE'S WOOD, PITFOUR (FORESTRY COMMISSION)	B	397349	849873
16087	OLD DEER	BRIDGE OF DEER OVER SOUTH UGIE WATER	B	397881	847746
16098	OLD DEER	BIFFIE FARMHOUSE	B	397160	847261
16100	OLD DEER	MILLADEN, MILL	B	398378	846963
16107	MONQUHITTER	MANSE OF MONQUHITTER, CUMINESTOWN INCLUDING GARDEN WALLS.	B	380112	850465
16108	MONQUHITTER	MILLFIELD HOUSE.	B	381246	852162
15910	PITSLIGO	PEATHILL, GLEBE HOUSE (FORMER CHURCH OF SCOTLAND MANSE), WALLED GARDEN AND STEADING	B	393418	866147
16025	MARNOCH	CLUNIE	B	363645	850145
16031	MARNOCH	AUCHINTOUL, MAINS OF AUCHINTOUL, FARMHOUSE WITH GARDEN WALLS	B	361403	852275
15545	RATHVEN	LETTERFOURIE, WALLED GARDEN AND COTTAGE	B	344835	861917
15646	SPEYMOUTH	SPEY BRIDGE, OLD TOLL HOUSE	B	333984	859499
15527	RATHVEN	RANNAS, BARN WITH MILL WHEEL AND IMPLEMENT SHED	B	346076	864859
15530	RATHVEN	RATHVEN, OLD SCHOOL	B	344473	865700
15533	RATHVEN	WALKERDALES	B	342636	862758
14863	URQUHART	INNES HOUSE, WALLED GARDEN, SUNDIAL AND MARK'S GARDEN	B	328359	864927
14876	URQUHART	PARRANDIER, FORMER URQUHART PARISH CHURCH	B	328494	863271
14840	URQUHART	INNES HOUSE, EAST LODGE, GATEPIERS AND GATES (AT LOCHHILL)	B	328790	864925
13881	RATHEN	INVERALLOCHY CASTLE	B	404082	862947
10613	GAMRIE	64 CROVIE, CROVIE HALL	B	380716	865824
10636	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, FORDYCE PARISH CHURCH (CHURCH OF SCOTLAND) AND ENCLOSING WALLS	B	355406	863646
10637	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, OLD LIME KILNS	B	355351	863552
10648	FORDYCE	GLASSAUGH HOUSE BRIDGE OVER THE BURN OF FORDYCE	B	355879	864715
10664	FORDYCE	7 SANDEND	B	355484	866529
10539	GAMRIE	5 CROVIE	B	380736	865395
10569	GAMRIE	44 CROVIE	B	380752	865644
10573	GAMRIE	GAMRIE LODGE (FORMER CHURCH OF SCOTLAND MANSE), WALLED GARDEN AND STEADING	B	379177	862465
10576	GAMRIE	GARDENSTOWN, MAIN STREET, GARDEN ARMS HOTEL	B	379864	864638
9607	FORGLEN	CARNOUSIE, WATERSIDE, EAST COTTAGE	B	367379	849330
9397	KING EDWARD	CRAIGSTON MILL	B	377178	855456
9408	KING EDWARD	EDEN, HOME FARM, DOVECOTE / POULTRY HOUSE	B	370191	859639
9447	FORGUE	COLONEL SHAND'S MONUMENT HAWK HILL PLANTATION, TEMPLELAND	B	362846	841663
9463	FORGUE	BOYNSMILL HOUSE	B	362551	843925
9242	LONMAY	CRIMONMOGATE HOUSE STABLEBLOCK	B	403861	858718

HB Number	Parish Borough	Address	Category	X	Y
9258	LONMAY	WINDPUMP, SAVOCK	B	405629	858594
9050	HUNTLY	HUNTLY LODGE FARM, DOVECOT.	B	353280	841544
8700	KEITH	AUCHINDACHY BRIDGE OVER RIVER ISLA	B	340718	847486
6763	FORDYCE	1A SANDEND	B	355478	866562
6765	FORDYCE	1C AND 1D SANDEND WITH FISH SMOKING KILN ABUTTING NO 1C	B	355460	866570
6656	ALVAH	MOUNTBLAIRY BRIDGE	B	368974	854165
6661	BANFF	SANDYHILLS DOVECOTE	B	368203	863202
3224	BOYNDIE	WHITEHILLS, CHAPEL STREET, SEAFIELD ARMS HOTEL, GARDEN WALLS AND GATEPIERS	B	365458	865390
3166	BOYNDIE	WHITEHILLS, 22 SEAFIELD STREET, GREYSTONES AND GARDEN WALLS	B	365507	865412
3045	AUCHTERLESS	OLD PARISH CHURCH OF AUCHTERLESS (ST. DONAN)	B	371371	841632
2886	ALVAH	DUNLUGAS BRIDGE AND GATEPIERS	B	369559	855542
2722	ABERDOUR	35 PENNAN	B	384544	865475
2744	ABERDOUR	OLD ABERDOUR, OLD CHURCH OF SCOTLAND (ST DROSTAN'S) AND BURIAL GROUND	B	388422	864402
2317	BOHARM	BOHARM HOUSE (FORMER CHURCH OF SCOTLAND MANSE), GATE-PIERS, STEADING AND GARDEN WALLS	B	334326	849794
2222	CULLEN	CULLEN HOUSE, CLAYPOTS BRIDGE OVER THE BURN OF CULLEN	B	350428	866688
1542	BELLIE	19 BOGMUIR	B	335675	862941
1543	BELLIE	BYRES FARMHOUSE	B	335584	862269
1550	BELLIE	FOCHABERS, CASTLE STREET, PARK WALL FRONTING GORDON CASTLE PARK BETWEEN ANGLE WITH WEST STREET AND GORDON CHAPEL	B	334313	858911
1558	BELLIE	FOCHABERS, 8 GEORGE STREET	B	334454	858738
1570	BELLIE	FOCHABERS, 50, 50A, 52 HIGH STREET, CLYDESDALE BANK	B	334636	858744
1583	BELLIE	FOCHABERS, 46 SOUTH STREET	B	334518	858675
1587	BELLIE	FOCHABERS, 12 THE SQUARE AND RETURN WING TO DUKE STREET	B	334562	858813
1617	BELLIE	FOCHABERS, 11 THE SQUARE, THE MANSE, AND GARDEN WALLS FLANKING GEORGE STREET	B	334486	858756
34	ABERDOUR	DUNDARG CASTLE (HOUSE)	B	389482	864838
42162	TURRIFF	TURRIFF PARISH CHURCH (ST. NINIAN'S) CHURCH STREET	B	372343	850099
40280	PORTSOY	SEAFIELD TERRACE, EPISCOPAL CHURCH OF ST JOHN THE BAPTIST	B	358777	865939
40167	PORTKNOCKIE	5 SEAFIELD STREET	B	349041	868385
39733	PETERHEAD	PETERHEAD HARBOUR	B	413671	846112
39769	PETERHEAD	S.A.I. WAREHOUSE 1, 3 JAMAICA STREET	B	413522	846013
39784	PETERHEAD	24 JAMAICA STREET	B	413508	845919
39790	PETERHEAD	29 MERCHANT STREET	B	413432	845973
39798	PETERHEAD	49 MERCHANT STREET	B	413435	845875
39821	PETERHEAD	36-38 QUEEN STREET	B	413285	846297
39687	PETERHEAD	10-16 BROAD STREET AND 1, 3 MERCHANT STREET.	B	413425	846078
39701	PETERHEAD	22-26 JAMES STREET	B	413564	846030
39704	PETERHEAD	17 (9-15) ST. ANDREWS STREET	B	413441	846014
37634	MACDUFF	17 SHORE STREET, TOWN HALL	B	370368	864521
37640	MACDUFF	7, 9, 11 UNION ROAD AND REAR YARD WITH OUTBUILDINGS	B	370081	864414
35645	KEITH	49, 51 MID STREET	B	343207	850182
35656	KEITH	176, 178, 180 MID STREET	B	343233	850649
35659	KEITH	2 NELSON TERRACE	B	342598	850810
35670	KEITH	47, 49 REGENT STREET, 2 AND 2A STATION ROAD, REGENT HOUSE	B	342588	850934
35672	KEITH	28, 30 REGENT STREET AND RETURN ELEVATION TO REGENT SQUARE, FIFE ARMS HOTEL	B	342597	850885
35676	KEITH	17 REIDHAVEN SQUARE	B	343149	850243
35636	KEITH	54, 56 LAND STREET AND GARDEN WALLS AT SOUTH	B	343060	850205
31970	FRASERBURGH	SALTOUN PLACE, FOUNTAIN	B	399734	866527
31871	FRASERBURGH	CLYDESDALE BANK BROAD STREET AND 1 MID STREET	B	399782	866990
31876	FRASERBURGH	5 COMMERCE STREET	B	399850	866845
31904	FRASERBURGH	ST. PETER'S RECTORY, VICTORIA STREET	B	399527	866687

HB Number	Parish Borough	Address	Category	X	Y
31403	FINDOCHTY	10 MID STREET	B	345969	867692
31414	FINDOCHTY	1 NEW STREET	B	346487	868228
31475	FINDOCHTY	29 STERLOCHY STREET	B	346290	868162
31371	FINDOCHTY	3 CASTLE STREET	B	345882	867691
31380	FINDOCHTY	8 CASTLE STREET	B	345863	867696
31381	FINDOCHTY	10 CASTLE STREET, WESTFIELD	B	345849	867690
23944	CULLEN	225 SEATOWN	B	350924	867208
23956	CULLEN	258 SEATOWN	B	350815	867222
23783	CULLEN	8, 10, 12 THE SQUARE	B	351216	867114
23783	CULLEN	8, 10, 12 THE SQUARE	B	351220	867118
23788	CULLEN	11, 13 VICTORIA STREET	B	351455	867232
23793	CULLEN	23 VICTORIA STREET	B	351386	867297
23799	CULLEN	YORK PLACE, DRUMMORE HOUSE AND GARDEN WALLS	B	351396	866895
23820	CULLEN	38, 39 SEATOWN	B	350967	867156
23889	CULLEN	138 SEATOWN	B	350927	867201
23721	CULLEN	NORTH CASTLE STREET, RAILWAY VIADUCT	B	351051	867120
23728	CULLEN	24 NORTH CASTLE STREET	B	351082	867080
23737	CULLEN	9 SEAFIELD PLACE	B	351420	867070
23744	CULLEN	23, 25 SEAFIELD STREET, 16 THE SQUARE	B	351237	867139
22733	BUCKIE	40 YARDIE	B	342079	865748
22096	BANFF	22 SEAFIELD STREET, CHATTONVILLE	B	368755	864206
22100	BANFF	5 ST CATHERINE STREET	B	368803	864325
22102	BANFF	9 ST CATHERINE STREET	B	368776	864326
21966	BANFF	78 CASTLE STREET	B	368862	864422
21991	BANFF	3 FIFE STREET	B	368729	864348
22006	BANFF	5 HIGH SHORE, MARKET ARMS	B	369013	864031
22008	BANFF	11 HIGH SHORE	B	369003	864049
22028	BANFF	HIGH STREET, ST ANDREW'S EPISCOPAL CHURCH AND FRONT RAILINGS	B	368897	863908
22029	BANFF	HIGH STREET, ST MARY'S CHURCH OF SCOTLAND	B	368899	863797
22033	BANFF	32 HIGH STREET, COUNTY HOTEL	B	368897	863965
22041	BANFF	9, 11, 13 LOW STREET	B	368959	863859
22043	BANFF	23, 25, 27 LOW STREET	B	368961	863895
22069	BANFF	6 OLD CASTLEGATE	B	368905	864041
22080	BANFF	3, 4 SANDYHILL ROAD, SEAFIELD HOTEL	B	368818	863709
21894	BANFF	BRIDGE ROAD, BRIDGE GATES HOUSE	B	369378	863788
21959	BANFF	CASTLE STREET, BANFF CASTLE GATE LODGES GATEPIERS AND GATES	B	368872	864176
19930	ABERCHIRDER	10 SOUTH STREET	B	362451	852269
19775	OLD DEER	CHEVERTON HOUSE	B	397695	846962
19776	OLD DEER	WAULKMILL, QUARTALEHOUSE	B	397513	846394
19780	NEW DEER	BRUCKLAY CASTLE, WEST QUADRANGLE OF STABLE-BLOCK.	B	391203	850272
19620	MARNOCH	NETHERDALE WALLED GARDEN, SUMMERHOUSE SUNDIAL AND GATEPIERS	B	365168	848949
19603	MARNOCH	CULVIE WITH STEADING AND WALLED GARDEN	B	359135	853692
18785	ORDIQUHILL	CORNHILL, MID STREET, GORDON ARMS HOTEL	B	358428	858177
16546	STRICHEN	NEW LEEDS CHURCH AND MANSE (NOW MRS. SMITH)	B	399568	854435
16549	STRICHEN	STRICHEN HOUSE, KENNELS COTTAGE	B	393202	854256
16388	PETERHEAD	BALMOOR BRIDGE OVER RIVER UGIE	B	410916	848320
16392	PETERHEAD	DALES	B	411532	845124
16397	TURRIFF	HATTON CASTLE, SUNDIAL	B	375782	846977
16402	TURRIFF	HATTON, NORTH LODGE	B	374642	847439
16444	TYRIE	TYRIE CHURCHYARD	B	392976	863101
16069	OLD DEER	THE KENNELS COTTAGE, PITFOUR (CAPTAIN CURZON)	B	397405	849031
16080	OLD DEER	OLD BRIDGE OF GAVAL OVER NORTH UGIE WATER	B	399508	851721
16093	OLD DEER	ADEN HOUSE	B	398033	847833
16115	OLD DEER	1 ABBEY STREET AND 2 KIRKGATE OLD DEER	B	397842	847663

HB Number	Parish Borough	Address	Category	X	Y
16149	NEW DEER	BRUCKLAY CASTLE, EAST LODGE, GATEPIERS AND BALUSTRADED DWARF WALLS.	B	391973	850800
16020	MARNOCH	AUCHINTOUL, SOUTH LODGE WITH GATES AND GATEPIERS	B	361209	851532
16028	MARNOCH	ARDMEALLIE HOUSE WITH STEADING RANGE, COACHHOUSE, BOUNDARY WALLS AND GATEPIERS	B	359087	850611
16028	MARNOCH	ARDMEALLIE HOUSE WITH STEADING RANGE, COACHHOUSE, BOUNDARY WALLS AND GATEPIERS	B	359087	850672
15609	ROTHIEMAY	BRIDGE OF MARNOCH (OVER RIVER DEVERON)	B	360467	849513
15647	SPEYMOUTH	SPEYMOUTH PARISH CHURCH (CHURCH OF SCOTLAND) AND ENCLOSING WALLS	B	333651	860758
15529	RATHVEN	RATHVEN OLD BURIAL GROUND AND RANNAS AISLE	B	344317	865656
15539	RATHVEN	GREENBANK DOVECOT	B	344265	861334
14874	URQUHART	URQUHART MANSE	B	328330	862724
14834	URQUHART	GARMOUTH, HIGH STREET, THE SHOP (DWELLING HOUSE ONLY)	B	333846	864469
14838	URQUHART	GARMOUTH, SCHOOLBRAE, WATER TOWER	B	333881	864690
14846	URQUHART	KINGSTON, KINGSTON ROAD DUNFERMLINE HOUSE AND GARAGE	B	333974	865408
13602	FORGLEN	FORGLEN HOME FARM	B	369540	851735
13462	GAMRIE	38 CROVIE	B	380763	865614
12873	FORGLEN	MANSE OF FORGLEN KIRKLANDS WITH OUTBUILDINGS AND WALLED GARDEN	B	369651	850003
10595	FORDYCE	FORDYCE VILLAGE, CASTLE LANE (WEST SIDE) HOUSE AT ANGLE WITH CHURCH STREET	B	355576	863777
10601	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, OLD SMITHY	B	355521	863769
10626	FORDYCE	FORDYCE VILLAGE, BACK STREET, SOUTH VIEW	B	355552	863735
10660	FORDYCE	2 SANDEND	B	355481	866547
10709	FORDYCE	19 SANDEND	B	355505	866496
10714	FORDYCE	28 SANDEND	B	355529	866470
10547	GAMRIE	11 CROVIE	B	380746	865431
9401	KING EDWARD	EDEN HOUSE	B	369878	859959
9406	KING EDWARD	EDEN, SOUTH LODGE	B	369970	859175
9419	LONGSIDE	ST. JOHN'S EPISCOPAL CHURCH, LONGSIDE	B	404003	847183
9421	LONGSIDE	MILLBANK HOUSE	B	404391	849040
9423	LONGSIDE	MILL OF RORA HOUSE	B	404175	849714
9426	LONGSIDE	INVERQUHOMERY, GROUP OF 3 DOVECOTS	B	402052	846423
9426	LONGSIDE	INVERQUHOMERY, GROUP OF 3 DOVECOTS	B	402047	846419
9431	LONGSIDE	DUNCAN, STREET OF RORA	B	406194	850608
9246	LONMAY	CRIMONMOGATE HOUSE DOVECOT	B	403705	858714
9248	LONMAY	CRIMONMOGATE HOUSE MAIN (WEST) GATE AND GARDENER'S LODGE.	B	403218	858613
8497	KNOCKANDO	EASTER ELCHIES HOUSE	B	327940	844451
3226	BOYNDIE	WHITEHILLS, 1 KNOCK STREET	B	365523	865517
3173	BOYNDIE	WHITEHILLS, 9 LOW SHORE	B	365306	865408
3196	BOYNDIE	WHITEHILLS, 19 KNOCK STREET	B	365669	865555
3199	BOYNDIE	WHITEHILLS 10 AND 10A KNOCK STREET, KNOCK HOUSE AND GARDEN WALLS	B	365598	865512
3019	AUCHTERLESS	DUFF OF HATTON MAUSOLEUM, AUCHTERLESS CHURCHYARD	B	371374	841592
3037	CRIMOND	RATTRAY HOUSE LODGE AND GATES	B	408639	855991
2884	ALVAH	CORSKIE	B	370155	862805
2891	ALVAH	KIRKTON OF ALVAH CHURCH WITH WALLED GRAVEYARD, GATES AND GATEPIERS, AND OGILVY BURIAL ENCLOSURE	B	367816	860251
2891	ALVAH	KIRKTON OF ALVAH CHURCH WITH WALLED GRAVEYARD, GATES AND GATEPIERS, AND OGILVY BURIAL ENCLOSURE	B	367816	860232
2891	ALVAH	KIRKTON OF ALVAH CHURCH WITH WALLED GRAVEYARD, GATES AND GATEPIERS, AND OGILVY BURIAL ENCLOSURE	B	367826	860242
2762	ABERDOUR	20 PENNAN	B	384593	865475
2321	BOHARM	MULBEN, FORMER RAILWAY STATION, FORMER STATION MASTER'S	B	335612	850843

HB Number	Parish Borough	Address	Category	X	Y
		HOUSE AND STATION OFFICES			
2207	DESKFORD	10 BERRYHILLOCK	B	350460	860890
1627	BELLIE	GORDON CASTLE GARDENS, GARDEN HOUSE	B	334821	859195
1552	BELLIE	FOCHABERS, 4 DUKE STREET, ST MARGARETS, REAR WALLS AND STABLE	B	334589	858853
1573	BELLIE	FOCHABERS, 58 HIGH STREET	B	334598	858751
1585	BELLIE	FOCHABERS, 2 THE SQUARE	B	334573	858773
1597	BELLIE	GORDON CASTLE, FOUNTAIN	B	335146	859516
1602	BELLIE	FOCHABERS, 24 HIGH STREET	B	334741	858673
1615	BELLIE	FOCHABERS, 7 THE SQUARE	B	334526	858732
40437	ROSEHEARTY	2 WELL STREET	B	393063	867738
40275	PORTSOY	SEAFIELD STREET, CHURCH HALL AND WAR MEMORIAL	B	358938	865974
40279	PORTSOY	26 SEAFIELD STREET, BANK OF SCOTLAND	B	358967	865931
40281	PORTSOY	2 SEAFIELD TERRACE, 'SUNNYBANK' AND GARDEN WALLS	B	358709	865914
40187	PORTKNOCKIE	12 SEAFIELD STREET	B	349055	868432
40190	PORTKNOCKIE	18 SEAFIELD STREET	B	349057	868490
40195	PORTKNOCKIE	28 SEAFIELD STREET	B	349057	868569
40214	PORTSOY	AIRD STREET, ROMAN CATHOLIC CHURCH OF THE ANNUNCIATION AND ENCLOSING WALL	B	359013	865638
40236	PORTSOY	11-21 (ODD NOS) CULBERT STREET AND COURTYARD WALL WITH ARCHED ENTRANCE	B	358931	866189
40249	PORTSOY	21, 23 LOW STREET, 'MALVERN', AND GARDEN WALLS	B	358914	866242
40259	PORTSOY	MAIN STREET, SALMON HOUSE AND RAMP	B	359123	866341
40260	PORTSOY	1, 3 NORTH HIGH STREET	B	358862	866169
39727	PETERHEAD	12 MAIDEN STREET	B	413322	846039
39732	PETERHEAD	42-46 MAIDEN STREET AND 4-12 LOVE LANE	B	413178	846080
39750	PETERHEAD	CALEDONIAN SHIP CHANDLING WAREHOUSE, SHORE CAFE 26-32 HARBOUR STREET, 2-8 JAMES STREET, AND 12 UNION STREET.	B	413648	846014
39775	PETERHEAD	25 JAMAICA STREET	B	413530	845899
39785	PETERHEAD	26 JAMAICA STREET	B	413508	845913
39807	PETERHEAD	ST. PETER'S EPISCOPAL CHURCH MERCHANT STREET.	B	413406	845956
39816	PETERHEAD	1 ST. PETER STREET	B	412985	846125
39823	PETERHEAD	76 QUEEN STREET	B	413166	846404
39674	PETERHEAD	TOWN HOUSE, BROAD STREET	B	413415	846101
39690	PETERHEAD	34 BROAD STREET AND 1 ROSE STREET.	B	413524	846074
39695	PETERHEAD	1, 3 UNION STREET UNION BAR AND 2, SEAGATE	B	413625	846099
39708	PETERHEAD	8-14 ST. ANDREW STREET	B	413458	846032
39713	PETERHEAD	1 MAIDEN STREET	B	413356	846015
39716	PETERHEAD	7 MAIDEN STREET	B	413319	846020
39722	PETERHEAD	29, 31 MAIDEN STREET.	B	413248	846034
37617	MACDUFF	CHURCH STREET, BURGH CROSS	B	370128	864381
37618	MACDUFF	27 CROOK O'NESS STREET, YARD AND OFFICE	B	370568	864771
35650	KEITH	56-66 (EVEN NOS) MID STREET AND 20, 21 REIDHAVEN SQUARE	B	343185	850243
35650	KEITH	56-66 (EVEN NOS) MID STREET AND 20, 21 REIDHAVEN SQUARE	B	343194	850256
35657	KEITH	43 MOSS STREET	B	343310	850155
35658	KEITH	45 MOSS STREET	B	343315	850171
35660	KEITH	OLD KEITH, BURIAL GROUND AND SITE OF FORMER PARISH CHURCH	B	342735	850748
35670	KEITH	47, 49 REGENT STREET, 2 AND 2A STATION ROAD, REGENT HOUSE	B	342558	850941
35675	KEITH	8 REIDHAVEN SQUARE AND 50-54 (EVEN NOS) MID STREET	B	343174	850183
35675	KEITH	8 REIDHAVEN SQUARE AND 50-54 (EVEN NOS) MID STREET	B	343181	850178
34941	HUNTLY	30 CASTLE STREET	B	352978	840108
31868	FRASERBURGH	TOWN HOUSE AND POLICE OFFICE 3 SALTOUN SQUARE AND 1-5 KIRK BRAE.	B	399836	867108
31896	FRASERBURGH	24-32 SALTOUN PLACE	B	399723	866715
31903	FRASERBURGH	ST. PETER'S SCHOOL, VICTORIA STREET	B	399581	866708

HB Number	Parish Borough	Address	Category	X	Y
31400	FINDOCHTY	4 MID STREET	B	345960	867737
31404	FINDOCHTY	12, 14 MID STREET	B	345972	867664
31408	FINDOCHTY	6, 8 NETHERTON TERRACE	B	345936	867772
31412	FINDOCHTY	16 NETHERTON TERRACE, PENRYN	B	346003	867771
31418	FINDOCHTY	9 NEW STREET	B	346510	868168
31446	FINDOCHTY	12 NORTH BLANTYRE STREET	B	346403	868050
31474	FINDOCHTY	12, 14 SOUTH BLANTYRE STREET	B	346439	868033
31375	FINDOCHTY	11 CASTLE STREET	B	345820	867652
31390	FINDOCHTY	3, 4 CHURCH STREET	B	346388	868123
23896	CULLEN	151 SEATOWN	B	350858	867192
23900	CULLEN	156 SEATOWN	B	350833	867205
23958	CULLEN	7 VICTORIA STREET	B	351479	867208
23763	CULLEN	36 SEAFIELD STREET, 7, 9 THE SQUARE	B	351253	867083
23784	CULLEN	22, 24 THE SQUARE	B	351248	867155
23800	CULLEN	SEATOWN LODGE, GATES AND FLANKING RAILINGS, CULLEN HOUSE	B	350633	867188
23867	CULLEN	114 SEATOWN	B	351000	867202
23886	CULLEN	TELEPHONE KIOSK BY 134 SEATOWN	B	350955	867197
23711	CULLEN	1, 3 GRANT STREET	B	351127	866961
23722	CULLEN	8 NORTH CASTLE STREET	B	351133	867034
23728	CULLEN	24 NORTH CASTLE STREET	B	351075	867085
23731	CULLEN	21 REIDHAVEN STREET	B	351305	867165
23739	CULLEN	3 SEAFIELD STREET	B	351367	867031
23750	CULLEN	47, 47A SEAFIELD STREET	B	351140	867232
22719	BUCKIE	BUCKIE, EAST CHURCH STREET, BUCKIE NORTH PARISH CHURCH (CHURCH OF SCOTLAND)	B	342570	865629
22095	BANFF	21 SEAFIELD STREET, CAPE HOUSE	B	368725	864242
22107	BANFF	6 STRAIT PATH	B	368928	863986
21965	BANFF	76 CASTLE STREET	B	368860	864411
22013	BANFF	16 HIGH SHORE	B	369024	864070
22015	BANFF	1 HIGH STREET	B	368859	863782
22022	BANFF	77, 79, 81 HIGH STREET, FORBES HOUSE	B	368857	863999
22047	BANFF	43, 45, 47 LOW STREET AND REAR GARDEN WALLS	B	368947	863947
22052	BANFF	LOW STREET, FORMER NEW MARKET ARCHWAY	B	368977	863993
22060	BANFF	30 LOW STREET, CARMELITE HOUSE AND FRONT GARDEN WALL	B	368986	863926
21879	BANFF	7 BACK PATH	B	368904	863834
21882	BANFF	BELLEVUE ROAD, ST ANN'S HILL GARDEN WALLS AND GATEPIERS	B	368713	863651
21902	BANFF	2, 4 AND 6 BRIDGE STREET	B	369136	863950
21933	BANFF	2 CASTLE LANE	B	368896	864083
19618	MARNOCH	NETHERDALE HOUSE	B	365197	848385
19620	MARNOCH	NETHERDALE WALLED GARDEN, SUMMERHOUSE SUNDIAL AND GATEPIERS	B	365172	848884
19600	ORDIQUHILL	WETHERHILL HOUSE	B	356700	855118
19603	MARNOCH	CULVIE WITH STEADING AND WALLED GARDEN	B	359146	853691
16453	TYRIE	PITSLIGO ARMS HOTEL, HIGH STREET	B	388186	856081
16538	STRICHEN	MILL OF STRICHEN	B	394348	855402
16542	STRICHEN	BURNSHANGIE FARMHOUSE AND WALLED GARDEN.	B	395083	855426
16547	STRICHEN	STRICHEN HOUSE, STABLEBLOCK, (BARNYARDS OF STRICHEN) STRICHEN MAINS.	B	393707	854011
16366	PETERHEAD	BUCHANNESS COTTAGE	B	413306	841919
16429	TURRIFF	NORTH LODGE (BIRKWOOD) DELGATIE	B	374822	850995
16434	TYRIE	22 HIGH STREET	B	388138	856355
16033	MARNOCH	AUCHINTOUL, MILL OF AUCHINTOUL	B	361236	851418
16055	OLD DEER	BRAE OF COYNACH HOUSE	B	399029	844050
16062	OLD DEER	CARTLEHAUGH	B	397942	848330
16076	OLD DEER	MILL OF CLACKRIACH, MILL	B	393578	847788

HB Number	Parish Borough	Address	Category	X	Y
16099	OLD DEER	BRAE OF BIFFIE FARMHOUSE	B	396683	846417
16102	OLD DEER	GRAIN MILL, 31 MILL STREET, STUARTFIELD	B	397293	845648
16104	OLD DEER	DEER ABBEY	B	396855	848107
16139	RATHEN	OLD PARISH CHURCH OF ST. ETHERNAN, RATHEN	B	400115	860961
16030	MARNOCH	AUCHINTOUL WITH COURTYARD WALLS	B	361297	851922
15546	RATHVEN	PORTGORDON, GOLLACHY ICE HOUSE	B	340260	864565
15619	ROTHIEMAY	ROTHIEMAY HOUSE, QUEEN MARY'S BRIDGE OVER THE KIRKTOWN BURN	B	355514	848168
15514	RATHVEN	BIRKENBUSH	B	342382	862354
15521	RATHVEN	CULLEN HOUSE WALLED GARDEN, GARDENERS' COTTAGES, REAR WALLED GARDEN AND GARDEN HOUSE	B	350351	865673
15521	RATHVEN	CULLEN HOUSE WALLED GARDEN, GARDENERS' COTTAGES, REAR WALLED GARDEN AND GARDEN HOUSE	B	350309	865647
15521	RATHVEN	CULLEN HOUSE WALLED GARDEN, GARDENERS' COTTAGES, REAR WALLED GARDEN AND GARDEN HOUSE	B	350329	865670
15535	RATHVEN	ENZIE PARISH CHURCH OF SCOTLAND	B	339661	861698
14845	URQUHART	KINGSTON, CADGERS ROAD, EDDER INNES (SAID ALSO TO BE KNOWN AS VACHER INNES)	B	333490	865184
13887	PETERHEAD	RAVENSCRAIG CASTLE	B	409550	848776
10592	GAMRIE	7 CROVIE	B	380739	865412
10600	FORDYCE	FORDYCE VILLAGE, 34, 35 CHURCH STREET	B	355526	863787
10652	FORDYCE	KILNHILLOCK FARM STEADING	B	353662	865771
10653	FORDYCE	MILL OF DURN	B	358252	863753
10655	FORDYCE	PORTSOY, EAST LINKS, OLD ROPERY COMPLEX INCLUDING BACK GREEN COTTAGES	B	359363	866014
10681	FORDYCE	44 SANDEND AND STORE	B	355528	866441
10713	FORDYCE	27 SANDEND	B	355519	866472
10554	GAMRIE	22 CROVIE	B	380766	865496
10567	GAMRIE	42 CROVIE	B	380765	865631
10575	GAMRIE	GARDENSTOWN, HARBOUR ROAD, EAST WAREHOUSE	B	379996	864826
9394	KING EDWARD	CRAIGSTON CASTLE, HOME FARM	B	376078	855080
9455	FORGUE	MAINS OF BOGNIE, FARMHOUSE AND WALLED GARDEN	B	359853	845136
9261	LONMAY	PARISH CHURCH OF LONMAY	B	403832	860197
9262	LONMAY	CHURCHYARD OF LONMAY	B	403919	860422
8437	ELGIN	LOCH NA BO CROFT	B	327888	859431
6758	GAMRIE	GARDENSTOWN, HARBOUR ROAD, WEST WAREHOUSE	B	379974	864809
6765	FORDYCE	1C AND 1D SANDEND WITH FISH SMOKING KILN ABUTTING NO 1C	B	355470	866578
6652	ALVAH	MOUNTBLAIRY HOME FARM	B	369064	854425
4836	BELLIE	SPEYMOUTH FOREST, MEIKLE DRAMLACH BRIDGE OVER MEIKLE DRAMLACH BURN	B	337305	856963
3215	BOYNDIE	SCOTSMILL MILL AND FORMER STEADING	B	361028	865412
3225	BOYNDIE	WHITEHILLS, HARBOUR PLACE, LIFEBOAT HOUSE AND SLIPWAY	B	365589	865674
3234	BOYNDIE	BOYNDIE PARISH CHURCH (CHURCH OF SCOTLAND), FORMER BEADLE'S COTTAGE AND STEADING	B	364200	863800
3238	BOYNDIE	LADYSBRIDGE HOSPITAL, TROUP, ADMINISTRATION AND MOOR NEWTON BLOCKS	B	364975	863807
3182	BOYNDIE	WHITEHILLS, 21 LOW SHORE	B	365335	865437
3014	CAIRNIE	CAIRNIE, KIRKTON HOUSE AND WALLED GARDEN	B	349053	844568
3030	CRIMOND	OLD PARISH CHURCH OF CRIMOND AND GRAVEYARD	B	405224	857572
2939	DRUMBLADE	LESSENDRUM HOUSE DOVECOT	B	358315	841487
2298	BOTRIPHNIE	DRUMMUIR CASTLE, HOME FARM STEADING	B	337272	844473
2299	BOTRIPHNIE	DRUMMUIR, KIRKTON HOUSE	B	337470	844032
1618	BELLIE	THE SQUARE, THE FOUNTAIN	B	334521	858767
1545	BELLIE	FOCHABERS, 77 HIGH STREET	B	334465	858807
1594	BELLIE	FOCHABERS, 26 WESTMORLAND STREET	B	334610	858632

HB Number	Parish Borough	Address	Category	X	Y
1600	BELLIE	FOCHABERS, 18 HIGH STREET, THE WHITE LODGE (FORMER FREE CHURCH MANSE)	B	334808	858648
1606	BELLIE	TUGNET, TUGNET COTTAGE AND STEADING	B	334985	865359
39	BOYNDIE	BOYNE CASTLE	B	361155	865650
9601	FORGLEN	CARNOUSIE, MAINS OF CARNOUSIE	B	367186	850408
40441	ROTHES	OFF HIGH STREET, KIRK PLACE, LAND FARM BARN/STORE	B	327816	849155
40443	ROTHES	8, 10, 12, 14, 16, HIGH STREET	B	327770	849137
40275	PORTSOY	SEAFIELD STREET, CHURCH HALL AND WAR MEMORIAL	B	358940	865961
40282	PORTSOY	SEAFIELD TERRACE, CHURCH OF SCOTLAND AND ENCLOSING WALLS	B	358695	865908
40284	PORTSOY	7 SEAFIELD TERRACE, 'HERMISTON' WITH GARDEN WALLS AND GATEPIERS	B	358751	865859
40202	PORTKNOCKIE	8 STATION ROAD	B	348572	868391
40215	PORTSOY	54 AIRD STREET, PRESBYTERY, RC CHURCH OF THE ANNUNCIATION AND GARDEN WALL	B	359028	865637
40220	PORTSOY	15, 17, 19 CHURCH STREET	B	359049	865993
40226	PORTSOY	38 CHURCH STREET, MILLHEUGH HOUSE	B	359016	866111
40247	PORTSOY	13, 15 LOW STREET	B	358919	866219
40105	PORTKNOCKIE	20 ADMIRALTY STREET	B	349104	868478
40136	PORTKNOCKIE	14 HIGH STREET	B	348872	868366
40148	PORTKNOCKIE	6 HILL STREET	B	348843	868351
39847	PETERHEAD	FISH-HOUSE, GOLF ROAD	B	412235	847327
39732	PETERHEAD	42-46 MAIDEN STREET AND 4-12 LOVE LANE	B	413182	846108
39732	PETERHEAD	42-46 MAIDEN STREET AND 4-12 LOVE LANE	B	413181	846098
39742	PETERHEAD	4 HARBOUR STREET	B	413558	845897
39743	PETERHEAD	5 HARBOUR STREET	B	413570	845902
39749	PETERHEAD	23-25 HARBOUR STREET AND 1-3 JAMES STREET	B	413638	845987
39771	PETERHEAD	11 JAMAICA STREET	B	413527	845947
39791	PETERHEAD	31 MERCHANT STREET	B	413430	845954
39815	PETERHEAD	2-4 ERROL STREET	B	413185	846157
39826	PETERHEAD	INFANTS SCHOOL 16 PRINCE STREET (chr(39)THE CHUCKNEY SCHOOLchr(39))	B	413216	846256
39669	PETERHEAD	OLD ST. PETER'S GRAVEYARD.	B	412638	846033
39672	PETERHEAD	16-20, 24, 26 MARISCHALL STREET.	B	413340	846147
39681	PETERHEAD	59 BROAD STREET.	B	413550	846113
39684	PETERHEAD	73, 75 BROAD STREET FORMER CLYDESDALE BANK	B	413587	846108
39701	PETERHEAD	22-26 JAMES STREET	B	413569	846029
39701	PETERHEAD	22-26 JAMES STREET	B	413559	846031
39717	PETERHEAD	9-11 MAIDEN STREET	B	413310	846020
39722	PETERHEAD	29, 31 MAIDEN STREET.	B	413240	846037
37630	MACDUFF	10 HIGH SHORE	B	370786	864748
35651	KEITH	86 MID STREET, SEAFIELD ARMS HOTEL	B	343200	850318
35654	KEITH	130, 132 MID STREET, THE POST OFFICE	B	343211	850473
35662	KEITH	2 REGENT SQUARE AND GARDEN WALLS	B	342551	850862
34937	HUNTLY	8-12 CASTLE STREET	B	352943	840041
34950	HUNTLY	STRATHBOGIE MANSE DEVERON ROAD	B	352660	840128
31872	FRASERBURGH	50-54 BROAD STREET	B	399791	866945
31877	FRASERBURGH	10 COMMERCE STREET	B	399834	866822
31901	FRASERBURGH	COASTGUARD STATION HOUSES, 60-70 SALTOUN PLACE	B	399750	866465
31905	FRASERBURGH	ST. PETER'S EPISCOPAL CHURCH, CHARLOTTE STREET	B	399516	866717
31906	FRASERBURGH	CENTRAL SCHOOL CHARLOTTE STREET	B	399406	866795
31408	FINDOCHTY	6, 8 NETHERTON TERRACE	B	345943	867773
31448	FINDOCHTY	1 SEAFIELD STREET	B	345929	867739
31466	FINDOCHTY	4 SILLER STREET	B	346475	868190
31390	FINDOCHTY	3, 4 CHURCH STREET	B	346377	868117
23897	CULLEN	153 SEATOWN	B	350847	867193

HB Number	Parish Borough	Address	Category	X	Y
23907	CULLEN	167 SEATOWN	B	350984	867224
23949	CULLEN	233 SEATOWN	B	350948	867214
23957	CULLEN	3 VICTORIA STREET	B	351506	867181
23766	CULLEN	48 SEAFIELD STREET	B	351189	867143
23779	CULLEN	THE SQUARE, BURGH CROSS	B	351239	867102
23792	CULLEN	21 VICTORIA STREET	B	351403	867283
23821	CULLEN	40 SEATOWN	B	350987	867165
23828	CULLEN	60 SEATOWN	B	350736	867201
23836	CULLEN	71 SEATOWN	B	350786	867193
23855	CULLEN	95 SEATOWN	B	350986	867179
23711	CULLEN	1, 3 GRANT STREET	B	351119	866948
23723	CULLEN	10 NORTH CASTLE STREET	B	351127	867041
23729	CULLEN	26, 28 NORTH CASTLE STREET	B	351070	867090
23736	CULLEN	7 SEAFIELD PLACE	B	351354	866991
23744	CULLEN	23, 25 SEAFIELD STREET, 16 THE SQUARE	B	351233	867143
22718	BUCKIE	BUCKIE, CLUNY SQUARE, WAR MEMORIAL	B	342522	865595
22725	BUCKIE	BUCKIE HARBOUR, NORTH WEST AND NORTH PIERS	B	342883	866017
22090	BANFF	SANDYHILL ROAD, OUR LADY OF MOUNT CARMEL RC CHURCH	B	368702	863562
21984	BANFF	12 DEVERONSIDE AND GARDEN WALLS	B	369023	864231
22007	BANFF	9 HIGH SHORE, FERNLEE AND GARDEN WALLS	B	368988	864041
22014	BANFF	HIGH SHORE, GORDONS GRANARIES	B	369040	864097
22037	BANFF	2 INSTITUTION TERRACE	B	368833	863795
22040	BANFF	3, 5, 7 LOW STREET	B	368964	863846
22041	BANFF	9, 11, 13 LOW STREET	B	368960	863849
22044	BANFF	29 LOW STREET, BANK OF SCOTLAND	B	368956	863911
22046	BANFF	35, 37, 41 LOW STREET	B	368947	863942
22049	BANFF	53 LOW STREET, TOLBOOTH HOTEL AND OLD JAIL	B	368947	863982
22074	BANFF	2 OLD MARKET PLACE, PANTON HOUSE	B	369100	863900
21881	BANFF	BELLEVUE ROAD, BELLEVUE WITH GARDEN WALLS, GATES AND GATEPIERS	B	368732	863605
21938	BANFF	23, 25 CASTLE STREET	B	368848	864163
21955	BANFF	8, 10 CASTLE STREET	B	368878	864057
19913	ABERCHIRDER	MAIN STREET, BANK HOUSE AND CLYDESDALE BANK	B	362383	852384
19931	ABERCHIRDER	38 SOUTH STREET	B	362681	852395
19471	SPEYMOUTH	CROFTS OF DIPPLE, FORMER SMITHY	B	332382	859026
16451	TYRIE	BRIDGE OVER GONAR BURN ON DRIVE TO TILLINAMOLT	B	389505	858519
16531	ST FERGUS	PARISH CHURCH OF ST FERGUS	B	409325	851967
16536	ST FERGUS	OLD CHURCHYARD OF ST. FERGUS, ST. FERGUS LINKS	B	411573	850752
16316	PETERHEAD	9, 10, 11, 12 HIGH STREET, BURNHAVEN	B	412615	844115
16401	TURRIFF	HATTON HOME FARM	B	375720	846641
16413	TURRIFF	MUIRESK HOUSE	B	370353	849662
16060	OLD DEER	NEWLANDS	B	396912	848219
16084	OLD DEER	CLYDESDALE BANK, ABBEY STREET	B	397816	847700
16085	OLD DEER	POST OFFICE, ABBEY STREET	B	397790	847704
16088	OLD DEER	MANSE OF OLD DEER	B	397614	847902
16114	OLD DEER	OLD PARISH CHURCH AND CHURCHYARD	B	397910	847685
16122	MONQUHITTER	MONQUHITTER PARISH CHURCH, CUMINESTOWN	B	380238	850523
16123	MONQUHITTER	MONUMENT TO WILLIAM CUMINE (GULIELMI COMING') OF AUCHRY MONQUHITTER CHURCHYARD.	B	380200	850500
16158	NEW DEER	FEDDERATE CASTLE.	B	389688	849843
16160	NEW DEER	CAIRNBANNO HOUSE (NOW FARMHOUSE).	B	384718	844284
16021	MARNOCH	AUCHINTOUL, WALLED GARDEN AND SUNDIAL	B	361382	852120
16029	MARNOCH	ARDMEALLIE WALLED GARDEN WITH SUMMERHOUSE AND SUNDIAL	B	359059	850683
15865	MORTLACH	PARKMORE DISTILLERY, YEAST STORE, KILN, WORKSHOPS AND OFFICES. ALSO DUTY FREE WAREHOUSES NOS 1, 2, 4, 6, 8	B	332856	841119

HB Number	Parish Borough	Address	Category	X	Y
15869	ROTHES	ORTON, CHAPEL COTTAGE (FORMERLY ST MARY'S COTTAGE)	B	332056	855119
15877	PITSLIGO	PITTULIE, 54 HIGH STREET	B	396077	867581
15544	RATHVEN	LETTERFOURIE, GRANARY	B	344724	862556
15616	ROTHIEMAY	MILLTOWN OF ROTHIEMAY, PARISH CHURCH (CHURCH OF SCOTLAND) AND BURIAL GROUND	B	354725	848398
15648	SPEYMOUTH	SPEYMOUTH OLD MANSE	B	333644	861166
15521	RATHVEN	CULLEN HOUSE WALLED GARDEN, GARDENERS' COTTAGES, REAR WALLED GARDEN AND GARDEN HOUSE	B	350264	865564
15532	RATHVEN	TOCHIENEAL HOUSE	B	351742	865240
14867	URQUHART	KINGSTON, MILLBANK	B	333942	865307
14827	URQUHART	GARMOUTH CHURCH STREET, FALCON HOUSE	B	333977	864417
14830	URQUHART	GARMOUTH, THE CROSS, LEMANACRE, GATEPIERS (ONLY)	B	333984	864447
14831	URQUHART	GARMOUTH, DELLAHAPPLE HOUSE, SERVANTS' HOUSE AND GARDEN WALLS	B	333593	864624
13889	PETERHEAD	12A EARLS COURT	B	413400	842300
12874	FORGLEN	MILL OF RIBRAE	B	368187	851573
10581	GAMRIE	MONTBLETTON FARM, WINDMILL STUMP	B	372107	861106
10590	FORDYCE	DURN HOUSE AND GATEPIERS	B	358816	865066
10591	FORDYCE	DURN HOUSE DOVECOT	B	358862	865123
10593	GAMRIE	9 CROVIE	B	380746	865415
10596	FORDYCE	FORDYCE VILLAGE, CASTLE LANE, COTTAGES AT WEST SIDE OF LANE	B	355582	863746
10607	GAMRIE	57 CROVIE	B	380740	865745
10624	FORDYCE	FORDYCE CASTLE, STAND PUMP ON PAVEMENT BESIDE CASTLE	B	355570	863801
10633	FORDYCE	17 SANDEND	B	355491	866497
10651	FORDYCE	GLASSAUGH LODGE	B	355802	864804
10662	FORDYCE	4 SANDEND	B	355471	866543
10557	GAMRIE	25 CROVIE	B	380817	865509
10565	GAMRIE	39 CROVIE	B	380758	865621
10570	GAMRIE	45 CROVIE	B	380763	865644
9588	FRASERBURGH	PHILORTH CHURCHYARD WITHIN FRASERBURGH CEMETERY.	B	400051	865486
9610	FORGLEN	EASTSIDE BRIDGE	B	371412	850344
9629	FYVIE	MILLBREX CHURCH	B	382102	843208
9393	KING EDWARD	CRAIGSTON CASTLE, DOVECOTE	B	376097	855003
9400	KING EDWARD	EDEN, BRIDGE OF EDEN	B	369526	857909
9404	KING EDWARD	EDEN, THE COACH HOUSE	B	369934	859786
9411	LONGSIDE	PARISH CHURCH OF LONGSIDE	B	403736	847258
9462	FORGUE	HADDO HOUSE, HADDO BRIDGE OVER KEITHNY BURN	B	361946	846275
9466	FORGUE	DRUMBLAIR DOVECOT	B	363038	843077
9243	LONMAY	CRIMONMOGATE HOUSE DAIRY	B	403841	858759
6655	ALVAH	MOUNTBLAIRY GATEPIERS, GATES, RAILINGS AND QUADRANT WALLS	B	368797	854842
6658	ALVAH	ROSIEBURN, FORMER MISSION HALL	B	366681	855966
4283	BOTRIPHNIE	DRUMMUIR, BOTRIPHNIE PARISH CHURCH (C OF S) AND BURIAL GROUND WITH REMAINS OF FORMER CHURCH AND MURAL MONUMENTS.	B	337546	844097
3214	BOYNDIE	SCOTSMILL BRIDGE OVER THE BURN OF BOYNE	B	361024	865435
3235	BOYNDIE	BOYNDIE CHURCH OF SCOTLAND MANSE	B	364274	863860
2971	DRUMBLADE	DRUMBLADE PARISH CHURCH.	B	358819	840264
3015	CAIRNIE	ST. CAROL'S CHURCH, RUTHVEN BURIAL GROUND	B	350606	846904
3022	AUCHTERLESS	NEW MILL, MILL.	B	371178	841225
3038	CRIMOND	RATTRAY HOUSE	B	409295	856137
3040	CRIMOND	RATTRAY HOUSE HOME FARM AND 2 HOUSES (ONE UNOCCUPIED 1967)	B	409309	856007
2745	ABERDOUR	OLD ABERDOUR, FORMER CHURCH (CHURCH OF SCOTLAND) MANSE (BEACH HOUSE HOTEL), STEADING AND GARDEN WALLS	B	388458	864362
2301	BOTRIPHNIE	DRUMMUIR MAINS HOUSE	B	340664	844903
2355	ABERLOUR	CRAIGELLACHIE, JOHN STREET, PRIMARY SCHOOL AND FRONT	B	329035	845034

HB Number	Parish Borough	Address	Category	X	Y
		RAILINGS			
2212	DESKFORD	ST JOHN'S CHURCH (CHURCH OF SCOTLAND)	B	350487	861505
2214	CULLEN	CULLEN HOUSE, STABLES	B	350734	866412
1619	BELLIE	FOCHABERS, 15 AND 15A THE SQUARE AND GARDENS WALLS FACING THE SQUARE, GEORGE STREET AND SPEY STREET	B	334484	858784
1625	BELLIE	GORDON CASTLE, KENNELS	B	335457	859277
1570	BELLIE	FOCHABERS, 50, 50A, 52 HIGH STREET, CLYDESDALE BANK	B	334640	858742
1589	BELLIE	FOCHABERS, 18 THE SQUARE	B	334535	858831
1597	BELLIE	GORDON CASTLE, FOUNTAIN	B	335057	859509
1608	BELLIE	TUGNET, WILLOW COTTAGE	B	335257	865289
1611	BELLIE	FOCHABERS, 54 SOUTH STREET	B	334441	858719
1612	BELLIE	FOCHABERS, 56 SOUTH STREET	B	334429	858724
46	CRIMOND	RATTRAY, ST MARY'S CHAPEL AND GRAVEYARD	B	408507	857530
42180	TURRIFF	PANTON HOUSE, FIFE STREET	B	372597	849967
40442	ROTHES	6 HIGH STREET	B	327775	849155
40443	ROTHES	8, 10, 12, 14, 16, HIGH STREET	B	327771	849123
40294	PORTSOY	SHOREHEAD, PORTSOY MARBLE WORKSHOP (FORMER JAMES WATT'S WAREHOUSE)	B	358850	866340
40194	PORTKNOCKIE	26 SEAFIELD STREET	B	349057	868547
40223	PORTSOY	28, 30, 32 CHURCH STREET, SOYE HOUSE, AND REAR GARDEN WALLS	B	359028	866091
40236	PORTSOY	11-21 (ODD NOS) CULBERT STREET AND COURTYARD WALL WITH ARCHED ENTRANCE	B	358925	866174
39733	PETERHEAD	PETERHEAD HARBOUR	B	413771	846063
39735	PETERHEAD	CALEDONIAN FISH-SELLING COMPANY (NORTH BLOCK) SHIPROW.	B	413768	845956
39749	PETERHEAD	23-25 HARBOUR STREET AND 1-3 JAMES STREET	B	413644	845996
39751	PETERHEAD	BATH HOUSE, BATH STREET INCLUDING GATES TO STREET.	B	413388	845929
39817	PETERHEAD	3, 5 ST. PETER STREET	B	413006	846137
39818	PETERHEAD	ST. PETER'S R.C. CHURCH AND PRESBYTERY 30 ST. PETER STREET	B	413125	846199
39673	PETERHEAD	REFORM MONUMENT, BROAD STREET.	B	413516	846096
39687	PETERHEAD	10-16 BROAD STREET AND 1, 3 MERCHANT STREET.	B	413422	846066
39688	PETERHEAD	FORMER NATIONAL COMMERCIAL BANK, 28 BROAD STREET.	B	413485	846084
39707	PETERHEAD	4, 6 ST. ANDREW STREET	B	413483	846036
37637	MACDUFF	1 UNION ROAD	B	370178	864437
37638	MACDUFF	3 UNION ROAD	B	370160	864451
37619	MACDUFF	29 CROOK O'NESS STREET, ROSEDALE AND WALLED GARDENS	B	370586	864754
37624	MACDUFF	DOUNE, HILL OF DOUNE, TEMPLE OF VENUS	B	369764	863779
35646	KEITH	105, 107 MID STREET	B	343235	850390
35649	KEITH	MID STREET, NORTH CHURCH OF SCOTLAND	B	343281	850704
35680	KEITH	STATION ROAD, LINN BRIDGE OVER RIVER ISLA	B	342852	851149
35625	KEITH	11 CHAPEL STREET, CUTHILL HOUSE	B	343092	850233
31950	FRASERBURGH	56 MAIN STREET	B	399183	867445
31870	FRASERBURGH	SALTOUN ARMS, SALTOUN SQUARE	B	399767	867113
31878	FRASERBURGH	FRASERBURGH SOUTH CHURCH OF SCOTLAND	B	399853	866679
31896	FRASERBURGH	24-32 SALTOUN PLACE	B	399723	866727
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399442	867181
31909	FRASERBURGH	2-16 COLLEGE BOUNDS.	B	399430	867183
31413	FINDOCHTY	18 NETHERTON TERRACE, FIRTH VIEW	B	346019	867772
31419	FINDOCHTY	11 NEW STREET	B	346515	868150
31427	FINDOCHTY	8 NEW STREET	B	346485	868189
31428	FINDOCHTY	10 NEW STREET	B	346492	868171
31433	FINDOCHTY	22 NEW STREET	B	346516	868096
31443	FINDOCHTY	6 NORTH BLANTYRE STREET	B	346393	868083
31464	FINDOCHTY	5 SILLER STREET	B	346484	868167
31379	FINDOCHTY	6 CASTLE STREET	B	345877	867704
23898	CULLEN	154 SEATOWN	B	350832	867196

HB Number	Parish Borough	Address	Category	X	Y
23959	CULLEN	8 VICTORIA STREET	B	351496	867217
23762	CULLEN	32, 32A, 34 SEAFIELD STREET, SHOP, TARNASH AND SANDYFORD	B	351266	867075
23780	CULLEN	THE SQUARE, WAR MEMORIAL	B	351282	867155
23781	CULLEN	1, 3 THE SQUARE	B	351226	867071
23787	CULLEN	9 VICTORIA STREET	B	351467	867219
23797	CULLEN	14 VICTORIA STREET	B	351468	867251
23837	CULLEN	74 SEATOWN	B	350798	867187
23710	CULLEN	GRANT STREET, ENTRANCE GATES TO CULLEN HOUSE AND GATEPIERS	B	351099	866947
23720	CULLEN	5 NORTH CASTLE STREET	B	351129	867066
23725	CULLEN	14 NORTH CASTLE STREET	B	351112	867054
23727	CULLEN	18, 20 NORTH CASTLE STREET	B	351094	867075
23729	CULLEN	26, 28 NORTH CASTLE STREET	B	351075	867085
22721	BUCKIE	BUCKIE, WEST CHURCH STREET, ALL SAINTS EPISCOPAL CHURCH HALL AND PARSONAGE	B	342494	865566
22721	BUCKIE	BUCKIE, WEST CHURCH STREET, ALL SAINTS EPISCOPAL CHURCH HALL AND PARSONAGE	B	342490	865577
22727	BUCKIE	BUCKPOOL, 28 HARBOUR HEAD, PAIR FISH SMOKING KILNS	B	341673	865538
22099	BANFF	3 ST CATHERINE STREET	B	368813	864321
22109	BANFF	WATER PATH, PATH HOUSE AND PATH COTTAGE	B	368923	864097
22109	BANFF	WATER PATH, PATH HOUSE AND PATH COTTAGE	B	368916	864092
21960	BANFF	CASTLE STREET, WAR MEMORIAL	B	368867	864230
21969	BANFF	96 CASTLE STREET, RAILWAY INN	B	368859	864513
22005	BANFF	3 HIGH SHORE	B	369011	864018
22012	BANFF	14 HIGH SHORE	B	369024	864063
22016	BANFF	3 HIGH STREET	B	368859	863796
22042	BANFF	15, 17 LOW STREET	B	368956	863866
22046	BANFF	35, 37, 41 LOW STREET	B	368949	863932
22053	BANFF	2 LOW STREET	B	368998	863787
22068	BANFF	2 OLD CASTLEGATE AND REAR GARDEN WALL	B	368893	864020
21883	BANFF	5, 7, 7A BOYNDIE STREET	B	368847	864022
21906	BANFF	36 BRIDGE STREET	B	369035	863924
21930	BANFF	4, 6 CARMELITE STREET	B	368997	863979
21931	BANFF	10 CARMELITE STREET, FORMER POST OFFICE	B	369012	863975
21935	BANFF	CASTLE STREET, TRINITY AND ALVAH CHURCH, CHURCH OF SCOTLAND	B	368836	864118
21953	BANFF	4 CASTLE STREET	B	368841	864420
21958	BANFF	CASTLE STREET, BANFF CASTLE ENCLOSING WALLS SURROUNDING POLICIES	B	368929	864218
19934	ABERCHIRDER	18 AND 19 THE SQUARE	B	362450	852434
19771	MARNOCH	AUCHINTOUL, MAINS OF AUCHINTOUL - STEADING	B	361402	852245
19595	ORDIQUHILL	ORDIQUHILL PARISH CHURCH WITH BURIAL ENCLOSURE AND GRAVEYARD WALLS	B	356455	855610
19607	MARNOCH	KINNAIRDY CASTLE, DOVECOT AND WALLED GARDEN	B	360885	849750
19612	MARNOCH	MARNOCH, OLD MANSE OF MARNOCH WITH OUTBUILDINGS AND GARDEN WALLS	B	359400	850090
16450	TYRIE	LADYSFORD HOUSE	B	389374	860802
16550	STRICHEN	MART HOUSE MARKET STREET	B	394700	855100
16554	STRICHEN	HOLMWOOD, HIGH STREET	B	394475	855421
16557	STRICHEN	LIBRARY HOUSE, WATER STREET	B	394450	855353
16315	PETERHEAD	6, 7 LOW STREET, BURNHAVEN	B	412617	844100
16406	TURRIFF	TOWIE BARCLAY STEADING EAST OF CASTLE	B	374475	843947
16420	TURRIFF	FINTRY FARMHOUSE	B	375726	854559
16424	TURRIFF	DELGATIE HOME FARM AT DELGATIE CASTLE	B	375162	850685
16430	TURRIFF	IDOCH DOVECOT IDOCH FARM	B	376885	849063
16437	TYRIE	32 HIGH STREET	B	388165	856263
16054	SLAINS	HOUSE OF LEASK, DOOCOT	B	343578	845563

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16059	OLD DEER	ABBEY BRIDGE	B	396632	848145
16110	MONQUHITTER	AUCHRY HOUSE, DOVECOT.	B	380372	851167
16145	RATHEN	INVERALLOCHY 26 SHORE STREET (chr(39)MAGGIE'S HOOSIEchr(39))	B	404273	865230
16022	MARNOCH	AULDTOWN OF NETHERDALE WITH COACHHOUSE	B	363805	847929
15611	ROTHIEMAY	MAYEN HOUSE AND DETACHED WING	B	357982	847862
15516	RATHVEN	BRUNTOWN HOUSE AND STEADING	B	349647	866791
15528	RATHVEN	RATHVEN PARISH CHURCH (CHURCH OF SCOTLAND)	B	344446	865696
15531	RATHVEN	THORNYBANK	B	342694	862018
14853	URQUHART	GARMOUTH, CHURCH STREET, THE NEUK	B	333962	864456
14855	URQUHART	GARMOUTH, SOUTH ROAD, GARMOUTH HOTEL AND FUNCTION ROOM	B	333932	864326
14824	URQUHART	GARMOUTH CHURCH STREET, GARMOUTH CHURCH (CHURCH OF SCOTLAND)	B	333965	864302
14828	URQUHART	GARMOUTH, THE CROSS, THE CROSS	B	333995	864480
14835	URQUHART	GARMOUTH, HIGH STREET, LABURNUM AND WASH HOUSE	B	333846	864487
10583	GAMRIE	ST JOHN'S CHURCH AND BURIAL GROUND	B	379109	864464
10587	FORDYCE	BOYNE CASTLE DOVECOT	B	361043	865626
10609	GAMRIE	61, 62 CROVIE	B	380733	865779
10537	GAMRIE	1 CROVIE	B	380732	865389
10550	GAMRIE	14 CROVIE	B	380755	865447
10563	GAMRIE	35 CROVIE	B	380765	865595
9602	FORGLEN	MAINS OF CARNOUSIE - STEADING	B	367027	850467
9606	FORGLEN	CARNOUSIE, WALLED GARDEN WITH PAVILIONS	B	367348	849611
9641	INVERKEITHNY	INVERKEITHNY, BRIDGE OVER KEITHNY BURN	B	362614	846941
9416	LONGSIDE	MARSHLANDS, MAIN STREET	B	403695	847478
9450	FORGUE	CORSE HOUSE (NOW FARMHOUSE, PART DIVIDED OFF AS SEPARATE DWELLING).	B	360411	840204
9455	FORGUE	MAINS OF BOGNIE, FARMHOUSE AND WALLED GARDEN	B	359867	845140
9052	HUNTLY	AVOCHIE CASTLE.	B	353323	846636
9081	HUNTLY	CASTLE BRIDGE OVER RIVER DEVERON.	B	353268	840866
8703	KEITH	EDINTORE HOUSE	B	342710	845968
6650	ALVAH	MONTCOFFER HOUSE, GAME LARDERS	B	368501	861301
3233	BOYNDIE	'ART CAPUT', BOYNDIE	B	364149	863862
3179	BOYNDIE	WHITEHILLS, 17 LOW SHORE STORMCREST	B	365339	865436
3017	CAIRNIE	MAINS OF DAVIDSTON	B	341954	845149
3018	CAIRNIE	DEVERON VIADUCT	B	353451	845846
3021	AUCHTERLESS	HATTON MANOR, FARMHOUSE	B	370866	842020
3030	CRIMOND	OLD PARISH CHURCH OF CRIMOND AND GRAVEYARD	B	405224	857576
2890	ALVAH	GAVENWOOD WITH GATEPIERS	B	370090	863039
2746	ABERDOUR	OLD ABERDOUR, DOVECOT AT FORMER CHURCH OF SCOTLAND MANSE (BEACH HOUSE HOTEL)	B	388460	864392
2773	ABERDOUR	NEW ABERDOUR, COMMERCIAL HOTEL	B	388445	863089
2322	BOHARM	AUCHLUNKART HOUSE	B	333949	849530
2210	DESKFORD	KIRKTON OF DESKFORD, THE MUCKLE HOOSE	B	350891	861669
2215	CULLEN	OLD CULLEN, HOUSE, GATEPIERS AND GATES	B	350774	866416
2223	CULLEN	CULLEN HOUSE, ICEHOUSE	B	350522	866250
1624	BELLIE	GORDON CASTLE FARM, FARM COTTAGES	B	335366	859182
1632	BELLIE	ROMAN CAMP COTTAGE, (FORMERLY ROMAN CAMP GATE LODGE)	B	336004	861882
1538	BELLIE	BELLIE BURIAL GROUND	B	335310	861000
1538	BELLIE	BELLIE BURIAL GROUND	B	335340	861015
1544	BELLIE	CHAPELFORD, ST NINIAN'S BURIAL GROUND, CHAPEL AND DAWSON MAUSOLEUM	B	339076	859962
1576	BELLIE	FOCHABERS, 15 MAXWELL STREET	B	334722	858722
1581	BELLIE	FOCHABERS, SOUTH STREET, ROMAN CATHOLIC CHURCH AND PRESBYTERY	B	334659	858613
1610	BELLIE	FOCHABERS, 48 SOUTH STREET, BROOMAILLY	B	334510	858695

HB Number	Parish Borough	Address	Category	X	Y
1613	BELLIE	FOCHABERS, 1, 3 THE SQUARE	B	334558	858741
46288	FORGUE	GLENDRONACH DISTILLERY, KILN RANGE, FORMER STEADING, WEST AND SOUTH BONDED WAREHOUSES, OFFICES AND DRONACH HOUSE	B	362610	844029
49835	BOYNDIE	BOYNDIE AIRFIELD, CONTROL TOWER	B	362301	864221
42165	TURRIFF	2-8 (EVEN NUMBERS ONLY) PUTACHIE PATH	C(S)	372241	849830
42165	TURRIFF	2-8 (EVEN NUMBERS ONLY) PUTACHIE PATH	C(S)	372241	849836
40276	PORTSOY	45 SEAFIELD STREET AND PEND ARCH TO COMMERCIAL HOTEL	C(S)	359121	865952
40307	PORTSOY	40 SOUTH HIGH STREET	C(S)	358861	866090
40313	PORTSOY	18, 19 THE SQUARE	C(S)	358886	866130
40181	PORTKNOCKIE	33 SEAFIELD STREET	C(S)	349043	868610
40189	PORTKNOCKIE	16 SEAFIELD STREET	C(S)	349056	868476
40193	PORTKNOCKIE	24 SEAFIELD STREET	C(S)	349057	868540
40196	PORTKNOCKIE	30 SEAFIELD STREET	C(S)	349057	868590
40198	PORTKNOCKIE	34 SEAFIELD STREET	C(S)	349058	868620
40201	PORTKNOCKIE	6 STATION ROAD	C(S)	348581	868403
40216	PORTSOY	18 BARBANK STREET	C(S)	358844	866276
40218	PORTSOY	9 BURNSIDE AND GARDEN WALLS	C(S)	358932	866097
40219	PORTSOY	3 CHURCH STREET	C(S)	359060	865968
40252	PORTSOY	1 MAIN STREET	C(S)	359094	866372
40257	PORTSOY	8 MAIN STREET	C(S)	359093	866340
40264	PORTSOY	2 NORTH HIGH STREET, THE BOYNE HOTEL	C(S)	358888	866169
40096	PORTKNOCKIE	2 ADMIRALTY STREET	C(S)	349102	868326
40107	PORTKNOCKIE	17 CHURCH STREET	C(S)	348814	868405
40109	PORTKNOCKIE	23, 25 CHURCH STREET	C(S)	348773	868412
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413549	846571
39840	PETERHEAD	1-5 GLADSTONE ROAD AND 34 NORTH STREET	C(S)	413441	846648
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413455	846642
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413528	846626
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413529	846644
39845	PETERHEAD	2-12 NEW STREET AND 40 NORTH STREET.	C(S)	413446	846692
39728	PETERHEAD	18, 20 MAIDEN STREET AND 34 TOLBOOTH WYND	C(S)	413296	846045
39825	PETERHEAD	82-86 QUEEN STREET	C(S)	413139	846422
39830	PETERHEAD	10 NORTH STREET	C(S)	413450	846507
39832	PETERHEAD	24, 26 NORTH STREET.	C(S)	413443	846568
39686	PETERHEAD	79, 81 BROAD STREET.	C(S)	413604	846101
39696	PETERHEAD	4, UNION STREET.	C(S)	413638	846069
39711	PETERHEAD	32 ST ANDREW STREET	C(S)	413380	846026
37620	MACDUFF	2 CROOK O'NESS STREET	C(S)	370430	864691
35639	KEITH	124 LAND STREET, MOORFIELD	C(S)	343090	850510
35632	KEITH	109, 111 LAND STREET	C(S)	343122	850530
35632	KEITH	109, 111 LAND STREET	C(S)	343125	850539
34930	HUNTLY	22, 23 THE SQUARE	C(S)	352904	840020
31944	FRASERBURGH	40 MAIN STREET	C(S)	399206	867414
31945	FRASERBURGH	42 MAIN STREET	C(S)	399185	867414
31951	FRASERBURGH	60 MAIN STREET	C(S)	399167	867442
31960	FRASERBURGH	2 GAW STREET	C(S)	399154	867407
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399227	867217
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399211	867239
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399231	867257
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399187	867322
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399300	867202
31913	FRASERBURGH	19 MAIN STREET	C(S)	399251	867274
31924	FRASERBURGH	45 MAIN STREET	C(S)	399152	867423
31930	FRASERBURGH	8, 10 MAIN STREET	C(S)	399302	867254
31931	FRASERBURGH	FORMER CHURCH HALL, MAIN STREET	C(S)	399292	867261

HB Number	Parish Borough	Address	Category	X	Y
31935	FRASERBURGH	22 MAIN STREET	C(S)	399251	867309
31399	FINDOCHTY	2 MID STREET	C(S)	345959	867747
31441	FINDOCHTY	13, 15 NORTH BLANTYRE STREET	C(S)	346420	868040
31445	FINDOCHTY	10 NORTH BLANTYRE STREET	C(S)	346400	868063
31462	FINDOCHTY	14 SEAFIELD STREET	C(S)	345930	867615
31365	FINDOCHTY	9, 11 BURNSIDE STREET	C(S)	346029	867684
23899	CULLEN	155 SEATOWN	C(S)	350824	867204
23927	CULLEN	202 SEATOWN	C(S)	350740	867244
23951	CULLEN	235 SEATOWN	C(S)	350974	867235
23954	CULLEN	239 SEATOWN	C(S)	350963	867244
23760	CULLEN	18, 20 SEAFIELD STREET	C(S)	351305	867043
23765	CULLEN	44, 46 SEAFIELD STREET	C(S)	351194	867141
23805	CULLEN	3 SEATOWN (CASTLE TERRACE)	C(S)	350912	867141
23809	CULLEN	14, 15 SEATOWN (CASTLE TERRACE)	C(S)	350846	867144
23810	CULLEN	18, 20 SEATOWN (CASTLE TERRACE)	C(S)	350826	867152
23826	CULLEN	58 AND A HALF SEATOWN	C(S)	350701	867225
23839	CULLEN	76 SEATOWN	C(S)	350810	867183
23847	CULLEN	85, 87 SEATOWN	C(S)	350891	867163
23848	CULLEN	86 SEATOWN	C(S)	350880	867053
23851	CULLEN	90 SEATOWN	C(S)	350934	867162
23857	CULLEN	97 SEATOWN	C(S)	350907	867179
23859	CULLEN	100 SEATOWN	C(S)	350922	867178
23860	CULLEN	101, 102 SEATOWN	C(S)	350931	867170
23860	CULLEN	101, 102 SEATOWN	C(S)	350939	867173
23866	CULLEN	111 SEATOWN (WITH FORMER NO 108 SEATOWN)	C(S)	350985	867184
23868	CULLEN	115 SEATOWN AND STORE	C(S)	351011	867207
23871	CULLEN	119, 120 SEATOWN	C(S)	351024	867240
23745	CULLEN	27, 29 SEAFIELD STREET	C(S)	351215	867156
23751	CULLEN	49, 51 SEAFIELD STREET	C(S)	351130	867232
22085	BANFF	11, 12 SANDYHILL ROAD	C(S)	368808	863657
22086	BANFF	13 SANDYHILL ROAD AND REAR GARDEN WALL	C(S)	368799	863650
22105	BANFF	1, 3 STRAIT PATH	C(S)	368955	863996
21963	BANFF	68, 70 CASTLE STREET AND REAR COURTYARD WALLS	C(S)	368863	864387
22026	BANFF	HIGH STREET, THE COTTAGE, ST BRANDON'S CLOSE	C(S)	368904	863851
22045	BANFF	31, 33 LOW STREET	C(S)	368942	863919
22059	BANFF	28 LOW STREET (WITH 48 BRIDGE STREET)	C(S)	368987	863913
22065	BANFF	3 OLD CASTLEGATE	C(S)	368878	864033
22067	BANFF	7 OLD CASTLEGATE	C(S)	368891	864051
22081	BANFF	5, 6 SANDYHILL ROAD AND REAR GARDEN WALL	C(S)	368825	863699
22081	BANFF	5, 6 SANDYHILL ROAD AND REAR GARDEN WALL	C(S)	368824	863641
21898	BANFF	13, 15 BRIDGE STREET	C(S)	369100	863920
21900	BANFF	41-47 (ODD NOS) BRIDGE STREET	C(S)	369019	863897
21903	BANFF	8 BRIDGE STREET	C(S)	369127	863949
21916	BANFF	13 CAMPBELL STREET	C(S)	368597	864487
21928	BANFF	5 CARMELITE STREET	C(S)	368993	864019
21945	BANFF	47 CASTLE STREET, CASTLE BAR AND GARDEN WALLS	C(S)	368838	864289
19915	ABERCHIRDER	137 MAIN STREET WITH BOUNDARY WALL	C(S)	362716	852570
19781	NEW DEER	OLD MAUD BRIDGE OVER SOUTH UGIE WATER.	C(S)	392845	848296
19797	PETERHEAD	14 QUEEN'S ROAD	C(S)	413385	842325
19617	MARNOCH	NETHERDALE, BARNYARDS OF NETHERDALE, DOVECOT	C(S)	364937	848847
16448	TYRIE	BOYNDLIE HOUSE, SOUTH LODGE	C(S)	391893	861782
16556	STRICHEN	23, 25 WATER STREET	C(S)	394521	855201
16562	STRICHEN	ALL SAINTS' EPISCOPAL CHURCH, HALL AND SCHOOLHOUSE, NORTH STREET	C(S)	394594	855392
16564	STRICHEN	2 NORTH STREET	C(S)	394828	855133

HB Number	Parish Borough	Address	Category	X	Y
16314	PETERHEAD	PARISH CHURCH OF BODDAM MANSE TERRACE	C(S)	413215	842373
16335	PETERHEAD	20, 22 EARL'S COURT	C(S)	413351	842241
16338	PETERHEAD	11, 13 ROCKSLEY DRIVE	C(S)	413336	842233
16354	PETERHEAD	17 QUEEN'S ROAD	C(S)	413363	842284
16360	PETERHEAD	18, 20 QUEEN'S ROAD	C(S)	413371	842311
16376	PETERHEAD	11 BRIDGE STREET	C(S)	413451	842343
16387	PETERHEAD	18 EARL'S COURT	C(S)	413345	842257
16398	TURRIFF	HATTON CASTLE COACH HOUSE	C(S)	375629	846877
16410	TURRIFF	BRIDGEND FARMHOUSE	C(S)	372284	849243
16427	TURRIFF	DELGATIE CASTLE, GATES AT GARDEN COTTAGES	C(S)	375000	850900
16441	TYRIE	92 LOW STREET	C(S)	388368	856024
16086	OLD DEER	1, 3, 5 KIRKGATE	C(S)	397867	847668
16086	OLD DEER	1, 3, 5 KIRKGATE	C(S)	397875	847653
16144	RATHEN	INVERALLOCHY PARISH CHURCH	C(S)	404237	865055
15903	PITSLIGO	PITTULIE, 38 HIGH STREET	C(S)	395951	867632
15907	PITSLIGO	PITTULIE, 44 HIGH STREET	C(S)	395993	867624
15830	ROTHES	ORTON, WEST LODGE	C(S)	331129	854025
15881	PITSLIGO	PITTULIE, 59 HIGH STREET AND REAR COTTAGE	C(S)	396046	867564
15886	PITSLIGO	PITTULIE, 3 HIGH STREET	C(S)	395993	867606
15640	SPEYMOUTH	DIPPLE FARM LAUNDRY, SERVANTS' BOTHY AND DAIRY	C(S)	332839	858337
15641	SPEYMOUTH	ESSIL BURIAL GROUND	C(S)	333967	863455
14857	URQUHART	GARMOUTH, 1 AND 2 SPEY STREET	C(S)	334037	864565
14860	URQUHART	GARMOUTH, SPEY STREET, CHURCH HALL	C(S)	334146	864616
14861	URQUHART	GARMOUTH, THE WYNDIES, THE PARK	C(S)	333878	864388
14878	URQUHART	URQUHART VILLAGE, THE MAINS	C(S)	328713	862706
14839	URQUHART	INNES HOUSE, WELLHEAD	C(S)	328562	864877
13890	PETERHEAD	1A QUEEN'S ROAD	C(S)	413450	842355
13609	FORGLEN	FORGLEN, WALLED GARDEN	C(S)	369742	852115
13611	FORGLEN	FORGLEN, WESTWOOD	C(S)	368605	851925
10606	GAMRIE	56 CROVIE	C(S)	380742	865734
10631	FORDYCE	14 SANDEND	C(S)	355485	866504
10635	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, HAWTHORN COTTAGE (HAWTHORN RESTAURANT) AND ENCLOSING WALLS	C(S)	355477	863682
10641	FORDYCE	FORDYCE VILLAGE, 2 CHURCH STREET	C(S)	355543	863766
10672	FORDYCE	34 SANDEND AND FISHING STORE	C(S)	355501	866436
10682	FORDYCE	45 SANDEND	C(S)	355515	866439
10688	FORDYCE	54 SANDEND	C(S)	355492	866368
10544	GAMRIE	51 CROVIE	C(S)	380753	865680
10555	GAMRIE	23 CROVIE	C(S)	380766	865504
9409	KING EDWARD	EDEN, HOME FARM STEADING	C(S)	370194	859685
9430	LONGSIDE	50 SOUTH STREET	C(S)	400084	847973
9451	FORGUE	CORSE HOUSE FARM, EAST RANGE.	C(S)	360362	840235
9460	FORGUE	HADDO HOUSE	C(S)	361929	846222
9240	LONMAY	CRIMONMOGATE HOUSE GAME LARDER	C(S)	403982	858739
9253	LONMAY	BRIDGE OVER BURN OF LOGIE AT S.E. LODGE.	C(S)	404220	858453
9260	LONMAY	KININMONTH CHURCH	C(S)	401014	852632
9268	LONMAY	CRAIGELLIE HOUSE WALLED GARDEN AND OLD HOUSE OF CRAIGELLIE	C(S)	402413	860323
9268	LONMAY	CRAIGELLIE HOUSE WALLED GARDEN AND OLD HOUSE OF CRAIGELLIE	C(S)	402400	860300
8708	GRANGE	GRANGE BURIAL GROUND	C(S)	347917	851585
6768	FORDYCE	14 AND A HALF SANDEND	C(S)	355480	866500
6657	ALVAH	NORTH BURRELDALES	C(S)	367990	855323
3229	BOYNDIE	WHITEHILLS, 7 KNOCK STREET	C(S)	365565	865527
3167	BOYNDIE	WHITEHILLS, 12 WEST END	C(S)	365186	865434
3194	BOYNDIE	WHITEHILLS, 15 KNOCK STREET	C(S)	365641	865547
3197	BOYNDIE	WHITEHILLS, 6 KNOCK STREET	C(S)	365574	865510

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3203	BOYNDIE	WHITEHILLS, 22 KNOCK STREET	C(S)	365684	865540
3206	BOYNDIE	WHITEHILLS, 1 LOW SHORE	C(S)	365232	865410
2936	DRUMBLADE	DRUMBLADE HOUSE	C(S)	358743	840296
2719	ABERDOUR	30 PENNAN	C(S)	384560	865469
2725	ABERDOUR	37 PENNAN, JANREW	C(S)	384537	865468
2305	BOTRIPHNIE	MILL OF TOWIE, MILLER'S COTTAGE AND STEADING	C(S)	340756	847206
2305	BOTRIPHNIE	MILL OF TOWIE, MILLER'S COTTAGE AND STEADING	C(S)	340768	847212
2315	BOHARM	ARNDILLY HOME FARM	C(S)	328360	848011
2323	BOHARM	AUCHLUNKART HOUSE, WEST LODGE	C(S)	333736	848921
2348	ABERLOUR	ABERLOUR HOME FARM, FORMER GARDENERS' COTTAGES	C(S)	328061	843324
1547	BELLIE	FOCHABERS, 81, HIGH STREET	C(S)	334440	858824
1557	BELLIE	FOCHABERS, 4, 6, GEORGE STREET	C(S)	334459	858745
1564	BELLIE	FOCHABERS, 29, 31 HIGH STREET	C(S)	334704	858666
1565	BELLIE	FOCHABERS, 41, 43 HIGH STREET	C(S)	334662	858687
1577	BELLIE	FOCHABERS, 2, 4, 6 MAXWELL STREET	C(S)	334790	858711
46285	SPEYMOUTH	DIPPLE HOUSE	C(S)	332815	858383
49840	LONMAY	LONMAY, ST COLUMBA'S INCLUDING LYCHGATE	C(S)	403661	860041
49988	NEW DEER	BRUCKLAY CASTLE	C(S)	391092	850151
49991	NEW DEER	BRUCKLAY CASTLE, QUADRANT WALLS AND GATEPIERS AT WEST LODGE	C(S)	389947	849370
42169	TURRIFF	19, 21 HIGH STREET	C(S)	372462	849815
42173	TURRIFF	WHITE HEATHER HOTEL 14 HIGH STREET	C(S)	372489	849767
42174	TURRIFF	MUNICIPAL BUILDINGS, HIGH STREET	C(S)	372417	849783
40432	ROSEHEARTY	7 PITSLIGO STREET, POST OFFICE AND FORMER MASONIC HALL	C(S)	393240	867432
40278	PORTSOY	22, 24 SEAFIELD STREET, 2 ROSEACRE STREET	C(S)	358937	865935
40278	PORTSOY	22, 24 SEAFIELD STREET, 2 ROSEACRE STREET	C(S)	358945	865926
40314	PORTSOY	24 THE SQUARE	C(S)	358883	866103
40319	PORTSOY	5 WOOD STREET	C(S)	359100	866366
40152	PORTKNOCKIE	5 PULTENEY STREET	C(S)	348831	868432
40177	PORTKNOCKIE	25 SEAFIELD STREET	C(S)	349043	868554
40188	PORTKNOCKIE	14 SEAFIELD STREET, CHURCH OF CHRIST	C(S)	349056	868451
40192	PORTKNOCKIE	22 SEAFIELD STREET	C(S)	349057	868521
40224	PORTSOY	28-32 CHURCH STREET, COTTAGE TO REAR	C(S)	359049	866094
40229	PORTSOY	52, 54 CHURCH STREET	C(S)	358994	866168
40230	PORTSOY	56 CHURCH STREET AND REAR COTTAGE	C(S)	358992	866175
40241	PORTSOY	40 CULLEN STREET AND REAR GARDEN WALL	C(S)	358648	866141
40244	PORTSOY	3 INSTITUTE STREET	C(S)	359030	866074
40245	PORTSOY	5 INSTITUTE STREET	C(S)	359047	866081
40246	PORTSOY	LODGING BRAE, 1, 2, 3, 4 OLD COASTGUARDS HOUSES	C(S)	359009	866271
40255	PORTSOY	4 MAIN STREET	C(S)	359082	866355
40090	PORTKNOCKIE	3 ADMIRALTY STREET	C(S)	349087	868355
40094	PORTKNOCKIE	13 ADMIRALTY STREET	C(S)	349088	868436
40097	PORTKNOCKIE	4 ADMIRALTY STREET	C(S)	349101	868336
40109	PORTKNOCKIE	23, 25 CHURCH STREET	C(S)	348759	868414
40110	PORTKNOCKIE	31, 33 CHURCH STREET	C(S)	348709	868423
40123	PORTKNOCKIE	1, 2 CLIFF TERRACE	C(S)	348685	868484
40145	PORTKNOCKIE	34, 36 HIGH STREET	C(S)	348712	868393
39834	PETERHEAD	30 NORTH STREET AND 2 PORT HENRY ROAD	C(S)	413441	846582
39836	PETERHEAD	FAIRVIEW COTTAGE	C(S)	413458	846726
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413470	846572
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413514	846577
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413517	846596
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413508	846632
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413504	846649
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413460	846659

HB Number	Parish Borough	Address	Category	X	Y
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413520	846661
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413475	846672
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413467	846674
39846	PETERHEAD	1-11 NEW STREET AND 42 NORTH STREET.	C(S)	413472	846707
39725	PETERHEAD	45 MAIDEN STREET	C(S)	413175	846052
39748	PETERHEAD	20, 22 HARBOUR STREET	C(S)	413618	845974
39759	PETERHEAD	CRAIGNABO 16 CHARLOTTE STREET	C(S)	413265	846004
39767	PETERHEAD	13-17 ROSE STREET AND 30 32 JAMES STREET.	C(S)	413532	846038
39778	PETERHEAD	6 JAMAICA STREET	C(S)	413506	846006
39779	PETERHEAD	10, 12 JAMAICA STREET	C(S)	413503	845989
39796	PETERHEAD	45, 47 MERCHANT STREET.	C(S)	413435	845907
39810	PETERHEAD	30 MERCHANT STREET	C(S)	413416	845925
39822	PETERHEAD	68-72 QUEEN STREET	C(S)	413183	846393
39822	PETERHEAD	68-72 QUEEN STREET	C(S)	413182	846398
39828	PETERHEAD	6 NORTH STREET	C(S)	413453	846476
39677	PETERHEAD	JAMES REID + SON OFFICES AND GLADYS SIM, HAIRDRESSER BROAD PLACE, 25 BROAD STREET.	C(S)	413447	846161
39697	PETERHEAD	17 JAMES STREET	C(S)	413580	846010
39698	PETERHEAD	21 JAMES STREET	C(S)	413569	846004
39700	PETERHEAD	18, 20 JAMES STREET	C(S)	413588	846025
39703	PETERHEAD	7 ST. ANDREW STREET	C(S)	413467	846009
37633	MACDUFF	NICOL'S BRAE	C(S)	370400	864600
35664	KEITH	5 REGENT STREET	C(S)	342774	850826
35668	KEITH	33, 35 REGENT STREET	C(S)	342633	850901
35630	KEITH	46, 48 DUFF STREET, (ENTRANCE TO NO 48 FACING MAR PLACE) AND GARDEN WALL TO MAR PLACE	C(S)	342375	850801
31939	FRASERBURGH	30 MAIN STREET	C(S)	399218	867355
31941	FRASERBURGH	34 MAIN STREET	C(S)	399204	867377
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399214	867235
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399178	867285
31964	FRASERBURGH	4, 4-1/2 GEORGE STREET AND 30 NOBLE STREET	C(S)	399265	867207
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399216	867278
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399180	867331
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399316	867204
31881	FRASERBURGH	DALYRMPLE HALL AND CAFE DALRYMPLE STREET	C(S)	399860	866765
31882	FRASERBURGH	3 DUKE LANE	C(S)	399857	867257
31907	FRASERBURGH	113 CHARLOTTE STREET	C(S)	399444	866765
31910	FRASERBURGH	13 MAIN STREET	C(S)	399273	867244
31934	FRASERBURGH	20 MAIN STREET	C(S)	399259	867298
31938	FRASERBURGH	28 MAIN STREET	C(S)	399227	867346
31396	FINDOCHTY	7, 9 MID STREET	C(S)	345982	867714
31398	FINDOCHTY	15, 17 MID STREET	C(S)	345991	867647
31422	FINDOCHTY	17 NEW STREET	C(S)	346534	868106
31424	FINDOCHTY	21 NEW STREET, ROCK HOUSE	C(S)	346529	868073
31432	FINDOCHTY	20 NEW STREET	C(S)	346512	868117
31454	FINDOCHTY	13 SEAFIELD STREET, LYSTRA	C(S)	345945	867651
31455	FINDOCHTY	15 SEAFIELD STREET	C(S)	345949	867635
31468	FINDOCHTY	5, 7 SOUTH BLANTYRE STREET	C(S)	346406	868013
31363	FINDOCHTY	1, 3 BURNSIDE STREET	C(S)	346022	867737
31364	FINDOCHTY	5, 7 BURNSIDE STREET	C(S)	346024	867714
31367	FINDOCHTY	4, 6 BURNSIDE STREET	C(S)	346009	867724
31368	FINDOCHTY	8, 10 BURNSIDE STREET	C(S)	346014	867688
31369	FINDOCHTY	12, 14 BURNSIDE STREET	C(S)	346018	867661
31389	FINDOCHTY	1, 2 CHURCH STREET	C(S)	346352	868105
24717	DUFFTOWN	WAR MEMORIAL, BALVENIE STREET DUFFTOWN	C(S)	332261	840534

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23895	CULLEN	148 SEATOWN	C(S)	350876	867195
23902	CULLEN	158 SEATOWN	C(S)	350857	867205
23905	CULLEN	165 SEATOWN	C(S)	350933	867210
23920	CULLEN	194 SEATOWN	C(S)	350764	867229
23921	CULLEN	195 SEATOWN	C(S)	350756	867231
23935	CULLEN	214 SEATOWN	C(S)	350821	867235
23946	CULLEN	229 SEATOWN	C(S)	350936	867239
23955	CULLEN	240 SEATOWN	C(S)	350978	867248
23764	CULLEN	38, 40 SEAFIELD STREET	C(S)	351216	867122
23770	CULLEN	13 SOUTH CASTLE STREET, KILCOY	C(S)	351224	866985
23786	CULLEN	5 VICTORIA STREET	C(S)	351487	867202
23789	CULLEN	15 VICTORIA STREET	C(S)	351445	867239
23794	CULLEN	2, 4 VICTORIA STREET	C(S)	351530	867185
23795	CULLEN	6 VICTORIA STREET	C(S)	351505	867206
23796	CULLEN	10, 12 VICTORIA STREET	C(S)	351476	867237
23798	CULLEN	16 VICTORIA STREET	C(S)	351452	867260
23801	CULLEN	SEATOWN, BRIDGE OVER BURN OF CULLEN	C(S)	350618	867205
23808	CULLEN	9, 12 SEATOWN (CASTLE TERRACE)	C(S)	350870	867144
23811	CULLEN	21, 22, 23, 24 SEATOWN (CASTLE TERRACE)	C(S)	350807	867155
23813	CULLEN	26, 27 SEATOWN (CASTLE TERRACE)	C(S)	350784	867165
23870	CULLEN	118 SEATOWN	C(S)	351044	867208
23873	CULLEN	122 SEATOWN	C(S)	351009	867244
23890	CULLEN	139 SEATOWN	C(S)	350918	867199
23718	CULLEN	26, 28 GRANT STREET	C(S)	351206	867083
23740	CULLEN	5, 7 SEAFIELD STREET	C(S)	351353	867034
23741	CULLEN	9, 11 SEAFIELD STREET	C(S)	351342	867048
23742	CULLEN	SEAFIELD STREET, FORMER SEAFIELD CHURCH OF SCOTLAND (FORMER FREE CHURCH)	C(S)	351342	867075
23754	CULLEN	57 SEAFIELD STREET, BAY VIEW HOTEL	C(S)	351095	867270
22088	BANFF	17 SANDYHILL ROAD	C(S)	368773	863619
22093	BANFF	SEAFIELD STREET, METHODIST CHURCH	C(S)	368756	864243
21961	BANFF	62, 64 CASTLE STREET	C(S)	368866	864361
21977	BANFF	27 CLUNIE STREET	C(S)	368706	864421
21998	BANFF	3 GEORGE STREET	C(S)	368893	864340
22001	BANFF	HARBOUR PLACE, THE VAULTS	C(S)	368936	864375
22024	BANFF	HIGH STREET, BANFF MUSEUM AND LIBRARY	C(S)	368891	863856
22055	BANFF	6 LOW STREET	C(S)	369012	863805
22057	BANFF	20, 22 LOW STREET	C(S)	368991	863880
22082	BANFF	8 SANDYHILL ROAD	C(S)	368820	863679
21875	BANFF	1 BACK PATH, TREVONA	C(S)	368973	863838
21892	BANFF	8 AND 9 BRAEHEADS	C(S)	368867	864461
21908	BANFF	42, 44 BRIDGE STREET	C(S)	369010	863916
21918	BANFF	17 CAMPBELL STREET	C(S)	368584	864458
21944	BANFF	41, 43 CASTLE STREET	C(S)	368840	864282
19918	ABERCHIRDER	30 AND 32 MAIN STREET	C(S)	362341	852329
19923	ABERCHIRDER	SOUTH STREET, GOWANLEA WITH BOUNDARY WALL AND RAILINGS	C(S)	362905	852507
19926	ABERCHIRDER	7 SOUTH STREET	C(S)	362416	852249
19927	ABERCHIRDER	REAR, 19 AND 20 SOUTH STREET	C(S)	362487	852305
19932	ABERCHIRDER	THE SQUARE, VICTORIA FOUNTAIN	C(S)	362480	852410
19795	PETERHEAD	4 ROCKSLEY DRIVE	C(S)	413335	842270
19598	ORDIQUHILL	PARK GATE LODGE AND GATEPIERS	C(S)	358862	857516
19614	MARNOCH	MILL OF ALLIEHAR	C(S)	361407	854435
18961	ST FERGUS	NEWTON FARM STEADING	C(S)	409803	851937
16449	TYRIE	BURN OF MARNO, FARMHOUSE	C(S)	394078	860333
16534	ST FERGUS	HILL VIEW, KIRKTOWN OF ST. FERGUS	C(S)	408952	852002

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16541	STRICHEN	HUNTER'S LODGE, MORMOND HILL	C(S)	396420	856818
16552	STRICHEN	75, 77 HIGH STREET STRICHEN	C(S)	394607	855278
16570	STRICHEN	FORMER PARISH CHURCH OF STRICHEN	C(S)	394705	854712
16313	PETERHEAD	BRETHREN MEETING HOUSE. 26 GORDON STREET	C(S)	413265	842344
16345	PETERHEAD	THREE SEATS - JUNCTION HARBOUR STREET AND QUEENS ROAD	C(S)	413447	842381
16369	PETERHEAD	3 HARBOUR STREET	C(S)	412835	847227
16380	PETERHEAD	DESERTED HOUSE BETWEEN 9 EARL'S COURT AND chr(39)BRIDGENDchr(39)	C(S)	413452	842295
16383	PETERHEAD	2 AND 4 EARL'S COURT	C(S)	413379	842293
16386	PETERHEAD	16 EARL'S COURT	C(S)	413365	842251
16391	PETERHEAD	COCKLAW MAINS FARMHOUSE	C(S)	410124	845284
16411	TURRIFF	WOODHEAD HOUSE (FORMERLY WOODHEAD HOUSE HOTEL)	C(S)	372516	845202
16412	TURRIFF	ARDMIDDLE LODGE	C(S)	368739	848362
16106	MONQUHITTER	MONQUHITTER CHURCHYARD	C(S)	380309	850526
16138	RATHEN	RATHEN (WEST) PARISH CHURCH	C(S)	400030	860915
16140	RATHEN	OLD PARISH CHURCHYARD	C(S)	400115	860961
16141	RATHEN	RATHEN MANSE	C(S)	400100	860993
16150	NEW DEER	BRUCKLAY CASTLE, KENNELS, (EXCLUDING KENNELS COTTAGE).	C(S)	391267	850283
15891	PITSLIGO	PITTULIE, 12 HIGH STREET	C(S)	395879	867648
15892	PITSLIGO	PITTULIE, 13 HIGH STREET	C(S)	395875	867658
15893	PITSLIGO	PITTULIE, 15 HIGH STREET	C(S)	395859	867674
16023	MARNOCH	AULDTOWN OF NETHERDALE STEADING	C(S)	363655	847947
15884	PITSLIGO	PITTULIE, 62 HIGH STREET	C(S)	396087	867544
14847	URQUHART	KINGSTON LEIN ROAD, SPEY VILLA	C(S)	333771	865483
13882	OLD DEER	4,6 KIRKGATE	C(S)	397857	847638
13594	INVERKEITHNY	INVERKEITHNY ROW OF 4 COTTAGES	C(S)	362869	846927
13604	FORGLEN	FORGLEN, ICE HOUSE	C(S)	369691	852268
13610	FORGLEN	FORGLEN, WALLED GARDEN COTTAGE	C(S)	369690	852196
13615	KING EDWARD	NEW BYTHE CHURCH OF SCOTLAND	C(S)	382156	853847
13474	KING EDWARD	CASTLETON OLD BRIDGE OVER BURN OF KING EDWARD	C(S)	372269	856179
10588	FORDYCE	COWHYTHE FARMHOUSE	C(S)	360573	865466
10605	GAMRIE	53, 54 CROVIE	C(S)	380749	865710
10610	GAMRIE	63 CROVIE	C(S)	380725	865788
10614	FORDYCE	FORDYCE VILLAGE, 6 EAST CHURCH STREET	C(S)	355612	863792
10640	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, NORTH VIEW	C(S)	355531	863757
10680	FORDYCE	42 SANDEND	C(S)	355535	866438
10546	GAMRIE	10 CROVIE	C(S)	380743	865426
10551	GAMRIE	16 CROVIE FIESIMM COTTAGE	C(S)	380758	865457
10572	GAMRIE	66 CROVIE	C(S)	380712	865837
9424	LONGSIDE	GLENUGIE BRIDGE OVER SOUTH UGIE WATER	C(S)	402780	847840
9465	FORGUE	DRUMBLAIR HOUSE	C(S)	363053	843119
9265	LONMAY	CAIRNESS HOUSE WALLED GARDEN	C(S)	403889	860550
9082	HUNTLY	MEADOW BURN BRIDGE NEAR HUNTLY CASTLE.	C(S)	351863	840564
3213	BOYNDIE	WHITEHILLS, 8 LOW SHORE	C(S)	365284	865402
3222	BOYNDIE	WHITEHILLS, 8 BOYNE STREET	C(S)	365249	865401
3232	BOYNDIE	WHITEHILLS, 13 KNOCK STREET, COREIN COTT	C(S)	365623	865548
3169	BOYNDIE	WHITEHILLS, 14 WEST END, HONEY COTTAGE	C(S)	365204	865422
3175	BOYNDIE	WHITEHILLS, 11 LOW SHORE	C(S)	365320	865419
3176	BOYNDIE	WHITEHILLS, 13, 14 LOW SHORE, CUIL-NA-MARA	C(S)	365325	865429
3192	BOYNDIE	WHITEHILLS, 32 LOW SHORE	C(S)	365403	865454
3193	BOYNDIE	WHITEHILLS, 33 LOW SHORE	C(S)	365409	865447
3198	BOYNDIE	WHITEHILLS, 8 KNOCK STREET	C(S)	365588	865513
3202	BOYNDIE	WHITEHILLS, 18 KNOCK STREET	C(S)	365661	865534
3208	BOYNDIE	WHITEHILLS, 3 LOW SHORE	C(S)	365245	865411
3047	BANFF	BEECHGROVE, (FORMER ORD CHURCH OF SCOTLAND) AND WAR	C(S)	362316	858302

HB Number	Parish Borough	Address	Category	X	Y
		MEMORIAL			
3048	BANFF	EAGLES GATE LODGE, GATEPIERS AND QUADRANT WALLS	C(S)	367146	861621
2892	ALVAH	KIRKTON OF ALVAH, THE MANSE, WITH GARDEN WALLS AND GATEPIERS	C(S)	367805	860199
2724	ABERDOUR	THE SHED (OPPOSITE NO 36 PENNAN)	C(S)	384536	865486
2727	ABERDOUR	41, 42 PENNAN	C(S)	384516	865470
2753	ABERDOUR	2 PENNAN	C(S)	384693	865504
2754	ABERDOUR	3 PENNAN	C(S)	384685	865493
2757	ABERDOUR	10 PENNAN, THE SHED	C(S)	384638	865491
2760	ABERDOUR	PENNAN, TELEPHONE KIOSK, OPPOSITE PENNAN INN	C(S)	384615	865488
2761	ABERDOUR	18, 19 PENNAN	C(S)	384602	865467
2763	ABERDOUR	21 PENNAN	C(S)	384596	865468
2306	BOTRIPHNIE	MILL OF TOWIE, FORMER CARTER'S COTTAGE	C(S)	340763	847225
2356	ABERLOUR	CRAIGELLACHIE, 1 AND ALLANDALE (R) VICTORIA STREET	C(S)	328875	845043
1541	BELLIE	22 BOGMUIR	C(S)	335701	862941
1551	BELLIE	FOCHABERS, BY CRICKET FIELD, FOUNTAIN	C(S)	334253	858951
1564	BELLIE	FOCHABERS, 29, 31 HIGH STREET	C(S)	334707	858663
1567	BELLIE	FOCHABERS, 38, 40 HIGH STREET	C(S)	334688	858698
1571	BELLIE	FOCHABERS, 54, 54A HIGH STREET	C(S)	334625	858740
1577	BELLIE	FOCHABERS, 2, 4, 6 MAXWELL STREET	C(S)	334777	858717
49989	NEW DEER	BRUCKLAY CASTLE, BRIDGES TO WEST AND SOUTH WALLED GARDEN	C(S)	391063	849731
49993	NEW DEER	BRUCKLAY CASTLE, WEST LODGE	C(S)	389970	849380
50114	RATHVEN	DRYBRIDGE, OLD HIGHLAND RAILWAY BRIDGE	C(S)	343498	862674
50115	RATHVEN	DRYBRIDGE, LAIRDS WAY PATH BRIDGE OVER CORE BURN	C(S)	343445	862467
50152	RATHVEN	DRYBRIDGE, CORELINN BRIDGE	C(S)	343370	861390
42175	TURRIFF	CLYDESDALE BANK, 1 MAIN STREET AND BALMELLIE STREET	C(S)	372561	849793
42181	TURRIFF	ST. CONGAN'S EPISCOPAL CHURCH DEVERON STREET	C(S)	372016	849997
42165	TURRIFF	2-8 (EVEN NUMBERS ONLY) PUTACHIE PATH	C(S)	372242	849823
40274	PORTSOY	1, 3 SEAFIELD STREET	C(S)	358825	865966
40300	PORTSOY	17, 19, 21 SOUTH HIGH STREET	C(S)	358818	866011
40303	PORTSOY	47 SOUTH HIGH STREET, CLYDESDALE BANK	C(S)	358827	866093
40305	PORTSOY	14 SOUTH HIGH STREET	C(S)	358843	866002
40312	PORTSOY	13, 14 THE SQUARE	C(S)	358856	866165
40158	PORTKNOCKIE	17 PULTENEY STREET	C(S)	348714	868451
40159	PORTKNOCKIE	19 PULTENEY STREET	C(S)	348702	868453
40160	PORTKNOCKIE	21 PULTENEY STREET	C(S)	348678	868457
40163	PORTKNOCKIE	3 SEAFIELD TERRACE	C(S)	349086	868311
40170	PORTKNOCKIE	11 SEAFIELD STREET	C(S)	349041	868429
40174	PORTKNOCKIE	19 SEAFIELD STREET	C(S)	349042	868504
40176	PORTKNOCKIE	23 SEAFIELD STREET	C(S)	349042	868534
40179	PORTKNOCKIE	29 SEAFIELD STREET	C(S)	349043	868583
40185	PORTKNOCKIE	8 SEAFIELD STREET	C(S)	349055	868401
40204	PORTKNOCKIE	12 STATION ROAD	C(S)	348550	868364
40207	PORTSOY	5, 7 AIRD STREET	C(S)	359147	865931
40207	PORTSOY	5, 7 AIRD STREET	C(S)	359155	865934
40209	PORTSOY	1, 3, 5, 7, 9 AIRD STREET WALLS ENCLOSING REAR GARDEN	C(S)	359183	865952
40210	PORTSOY	11, 13 AIRD STREET, AIRD HOUSE AND GARDEN WALLS	C(S)	359147	865915
40211	PORTSOY	15 AIRD STREET	C(S)	359150	865905
40222	PORTSOY	31 CHURCH STREET	C(S)	359025	866043
40225	PORTSOY	34 CHURCH STREET	C(S)	359017	866105
40232	PORTSOY	84, 86 CHURCH STREET	C(S)	358943	866243
40233	PORTSOY	88, 88A CHURCH STREET	C(S)	358945	866252
40253	PORTSOY	2 MAIN STREET	C(S)	359076	866360
40263	PORTSOY	37 NORTH HIGH STREET	C(S)	358880	866265
40098	PORTKNOCKIE	6 ADMIRALTY STREET	C(S)	349102	868356
40106	PORTKNOCKIE	22 ADMIRALTY STREET	C(S)	349104	868486

HB Number	Parish Borough	Address	Category	X	Y
40111	PORTKNOCKIE	35, 37 CHURCH STREET	C(S)	348684	868427
40117	PORTKNOCKIE	30 CHURCH STREET	C(S)	348756	868431
40127	PORTKNOCKIE	3 HIGH STREET	C(S)	348947	868340
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413555	846554
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413486	846570
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413482	846636
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413490	846634
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413483	846653
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413446	846660
39730	PETERHEAD	26, 28 MAIDEN STREET	C(S)	413270	846051
39734	PETERHEAD	1B-3 SHIP ROW	C(S)	413771	845978
39752	PETERHEAD	1, 2 BATH STREET AND 44 MERCHANT STREET.	C(S)	413417	845878
39752	PETERHEAD	1, 2 BATH STREET AND 44 MERCHANT STREET.	C(S)	413410	845886
39762	PETERHEAD	MERLYNNE, 20 CHARLOTTE STREET	C(S)	413305	845988
39764	PETERHEAD	22 CHARLOTTE STREET	C(S)	413317	845960
39768	PETERHEAD	4-10 ROSE STREET	C(S)	413502	846052
39796	PETERHEAD	45, 47 MERCHANT STREET.	C(S)	413435	845899
39806	PETERHEAD	ST. PETER'S EPISCOPAL CHURCH HALL MERCHANT STREET	C(S)	413412	845974
39811	PETERHEAD	42 MERCHANT STREET	C(S)	413418	845891
39676	PETERHEAD	ROYAL HOTEL 23, 27 BROAD STREET	C(S)	413456	846128
39678	PETERHEAD	29-33 BROAD STREET.	C(S)	413464	846128
39702	PETERHEAD	28 JAMES STREET	C(S)	413548	846034
39718	PETERHEAD	13 MAIDEN STREET	C(S)	413299	846024
39719	PETERHEAD	17, 19 MAIDEN STREET	C(S)	413283	846027
39720	PETERHEAD	21, 23 MAIDEN STREET.	C(S)	413268	846029
35652	KEITH	98 MID STREET	C(S)	343196	850364
35669	KEITH	37, 39 REGENT STREET	C(S)	342618	850908
35628	KEITH	14 CHAPEL STREET	C(S)	343015	850217
35633	KEITH	143, 145 LAND STREET AND 14 UNION STREET	C(S)	343138	850666
31946	FRASERBURGH	44 MAIN STREET	C(S)	399177	867424
31947	FRASERBURGH	46 MAIN STREET	C(S)	399195	867434
31953	FRASERBURGH	69 MAIN STREET	C(S)	399168	867474
31961	FRASERBURGH	3, 5 GEORGE STREET	C(S)	399232	867211
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399245	867235
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399230	867264
31966	FRASERBURGH	3 NOBLE STREET	C(S)	399327	867225
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399356	867201
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399344	867202
31894	FRASERBURGH	1, 3 LODGE WALK	C(S)	399582	866845
31897	FRASERBURGH	21, 23 SALTOUN PLACE	C(S)	399691	866745
31919	FRASERBURGH	33 MAIN STREET	C(S)	399202	867342
31923	FRASERBURGH	43 MAIN STREET	C(S)	399166	867406
31932	FRASERBURGH	14 MAIN STREET	C(S)	399278	867275
31933	FRASERBURGH	16 MAIN STREET	C(S)	399272	867284
31396	FINDOCHTY	7, 9 MID STREET	C(S)	345983	867704
31415	FINDOCHTY	3 NEW STREET	C(S)	346496	868214
31416	FINDOCHTY	5 NEW STREET	C(S)	346498	868199
31444	FINDOCHTY	8 NORTH BLANTYRE STREET	C(S)	346395	868076
31449	FINDOCHTY	3 SEAFIELD STREET	C(S)	345929	867739
31453	FINDOCHTY	11 SEAFIELD STREET	C(S)	345940	867664
31458	FINDOCHTY	6 SEAFIELD STREET	C(S)	345925	867673
31469	FINDOCHTY	2 SOUTH BLANTYRE STREET	C(S)	346389	867964
31472	FINDOCHTY	8 SOUTH BLANTYRE STREET	C(S)	346418	867997
31367	FINDOCHTY	4, 6 BURNSIDE STREET	C(S)	346011	867714
31370	FINDOCHTY	1 CASTLE STREET	C(S)	345895	867692

HB Number	Parish Borough	Address	Category	X	Y
23904	CULLEN	162 SEATOWN	C(S)	350911	867210
23910	CULLEN	172 SEATOWN	C(S)	350881	867222
23915	CULLEN	181 SEATOWN	C(S)	350856	867228
23923	CULLEN	197 SEATOWN	C(S)	350737	867236
23926	CULLEN	201, 201A SEATOWN	C(S)	350729	867253
23932	CULLEN	209, 210 SEATOWN	C(S)	350796	867242
23943	CULLEN	224 SEATOWN	C(S)	350912	867236
23765	CULLEN	44, 46 SEAFIELD STREET	C(S)	351199	867137
23809	CULLEN	14, 15 SEATOWN (CASTLE TERRACE)	C(S)	350854	867143
23823	CULLEN	53 SEATOWN	C(S)	350680	867234
23830	CULLEN	63 SEATOWN	C(S)	350742	867211
23838	CULLEN	75 SEATOWN	C(S)	350810	867202
23840	CULLEN	77 SEATOWN	C(S)	350837	867165
23841	CULLEN	78 SEATOWN	C(S)	350832	867180
23844	CULLEN	81 SEATOWN	C(S)	350862	867157
23863	CULLEN	105 SEATOWN	C(S)	350951	867187
23884	CULLEN	132 SEATOWN	C(S)	350959	867206
23887	CULLEN	136 SEATOWN	C(S)	350940	867190
23713	CULLEN	9 GRANT STREET	C(S)	351143	866978
23730	CULLEN	NORTH DESKFORD STREET, RAILWAY BRIDGE	C(S)	350980	867095
23738	CULLEN	11 SEAFIELD PLACE, NORWOOD	C(S)	351436	867089
23749	CULLEN	43, 45 SEAFIELD STREET	C(S)	351153	867213
23752	CULLEN	53 SEAFIELD STREET	C(S)	351115	867243
23757	CULLEN	8, 10 SEAFIELD STREET	C(S)	351333	867016
23758	CULLEN	12, 12A SEAFIELD STREET	C(S)	351314	867019
22724	BUCKIE	BUCKIE HARBOUR, NORTH PIER, LIGHTHOUSE	C(S)	342801	866035
22734	BUCKIE	42 YARDIE	C(S)	342075	865752
22097	BANFF	SEAFIELD STREET, KINGSWELL NURSERY SCHOOL	C(S)	368530	864266
22103	BANFF	11 ST CATHERINE STREET	C(S)	368761	864330
22108	BANFF	8,10 STRAIT PATH	C(S)	368924	863986
21961	BANFF	62, 64 CASTLE STREET	C(S)	368865	864368
21970	BANFF	3 CHURCH STREET	C(S)	369089	864054
21972	BANFF	1 CLUNIE STREET	C(S)	368838	864435
21980	BANFF	6 DEVERONSIDE, 30A, 32A HIGH SHORE	C(S)	369033	864159
21981	BANFF	7, 8 DEVERONSIDE, SHIP INN	C(S)	369030	864185
21987	BANFF	DUFF HOUSE ICEHOUSE	C(S)	368524	862858
21992	BANFF	5, 7 FIFE STREET	C(S)	368727	864358
21995	BANFF	16 FIFE STREET AND 21 CLUNIE STREET	C(S)	368741	864422
22010	BANFF	21 HIGH SHORE, SHORE HOUSE AND GARDEN WALLS	C(S)	369008	864128
21915	BANFF	11 CAMPBELL STREET	C(S)	368601	864497
21917	BANFF	15 CAMPBELL STREET	C(S)	368590	864472
21927	BANFF	1, 1A CARMELITE STREET	C(S)	368987	863999
21943	BANFF	39 CASTLE STREET, WINSTON HOUSE	C(S)	368841	864267
21946	BANFF	49, 51 CASTLE STREET	C(S)	368842	864338
21956	BANFF	12, 14, 16 CASTLE STREET ELM BANK	C(S)	368886	864112
19917	ABERCHIRDER	MAIN STREET, WOODSIDE COTTAGE	C(S)	362231	852278
19919	ABERCHIRDER	NORTH STREET, STEADING	C(S)	362400	852400
19920	ABERCHIRDER	NORTH STREET, UNITED PRESBYTERIAN CHURCH	C(S)	362295	852410
19777	MONQUHITTER	OLD HALL BUILDINGS, GARMOND.	C(S)	380677	852210
19596	ORDIQUHILL	ORDIQUHILL SCHOOL AND SCHOOLHOUSE	C(S)	356615	856679
18834	OLD DEER	PITFOUR ESTATE,STATION LODGE,INCLUDING GATES AND GATEPIERS	C(S)	398476	848729
18783	ORDIQUHILL	CORNHILL, MID STREET, CORNHILL HOUSE WITH OUTBUILDINGS (FORMER MANSE)	C(S)	358716	858302
16535	ST FERGUS	THE GABLES (FORMER FREE MANSE OF ST. FERGUS)	C(S)	409300	852000
16571	STRICHEN	OLD PARISH CHURCH GRAVEYARD	C(S)	394713	854735

HB Number	Parish Borough	Address	Category	X	Y
16340	PETERHEAD	2 ROCKSLEY DRIVE	C(S)	413339	842283
16341	PETERHEAD	6 ROCKSLEY DRIVE	C(S)	413327	842262
16350	PETERHEAD	9 QUEEN'S ROAD	C(S)	413412	842333
16358	PETERHEAD	10 QUEEN'S ROAD	C(S)	413400	842339
16368	PETERHEAD	1 HARBOUR STREET	C(S)	412854	847214
16370	PETERHEAD	RETAINING WALL HARBOUR STREET-BRIDGE STREET	C(S)	413471	842330
16371	PETERHEAD	1 BRIDGE STREET	C(S)	413408	842328
16375	PETERHEAD	9 BRIDGE STREET	C(S)	413453	842337
16378	PETERHEAD	5 EARL'S COURT	C(S)	413410	842305
16381	PETERHEAD	2 BRIDGE STREET AND EARL'S COURT	C(S)	413455	842304
16399	TURRIFF	HATTON CASTLE ESTATE HOUSES	C(S)	375601	846833
16403	TURRIFF	HATTON, MAUSOLEUM	C(S)	374838	847234
16408	TURRIFF	MILL OF ASHOGLE	C(S)	370428	852704
16032	MARNOCH	AUCHINTOUL, MAINS OF AUCHINTOUL - SMITHY	C(S)	361404	852275
16097	OLD DEER	NORTH LODGE, ADEN	C(S)	398487	848425
16120	RATHEN	HOUSE OF AUCHIRIES BRIDGE OVER AUCHIRIES BURN	C(S)	397578	860747
15897	PITSLIGO	PITTULIE, 25 HIGH STREET	C(S)	395849	867704
15905	PITSLIGO	PITTULIE, 41 HIGH STREET	C(S)	395970	867624
15878	PITSLIGO	PITTULIE, 55, 56 HIGH STREET	C(S)	396108	867549
15882	PITSLIGO	PITTULIE, 60 HIGH STREET	C(S)	396071	867562
15640	SPEYMOUTH	DIPPLE FARM LAUNDRY, SERVANTS' BOTHY AND DAIRY	C(S)	332838	858325
15519	RATHVEN	CULLEN HOUSE POLICIES, MARYWELL COTTAGE	C(S)	349953	866508
14852	URQUHART	GARMOUTH, THE BRAE, BRAE HOUSE	C(S)	334003	864523
14854	URQUHART	GARMOUTH, CHURCH STREET, THE NEUK STEADING	C(S)	333950	864439
14822	URQUHART	GARMOUTH, CHURCH STREET, HELMSLEY	C(S)	333952	864419
14829	URQUHART	GARMOUTH, THE CROSS SHOP	C(S)	333969	864460
13712	HUNTLY	KIRKTOWN OF KINNOIR GRAVEYARD.	C(S)	354427	843205
13717	LONMAY	PAVILLIONS (OLD LONMAY HOUSE)	C(S)	404611	860875
13594	INVERKEITHNY	INVERKEITHNY ROW OF 4 COTTAGES	C(S)	362862	846921
13607	FORGLEN	FORGLEN MEMORIAL HALL AND WAR MEMORIAL	C(S)	368306	851884
13614	KING EDWARD	MORELESS FARMHOUSE	C(S)	376209	857041
13616	KING EDWARD	NEW BYTHE, 11, 13 BRIDGE STREET	C(S)	382260	853766
13473	KING EDWARD	CASTLETON NEW BRIDGE OVER BURN OF KING EDWARD	C(S)	372229	856124
10594	FORDYCE	FORDYCE VILLAGE, BACK STREET, CORRIE COTTAGE	C(S)	355607	863744
10598	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, POST OFFICE STORE	C(S)	355556	863795
10612	GAMRIE	65 CROVIE	C(S)	380719	865812
10619	FORDYCE	FORDYCE VILLAGE, ST TARQUINS PLACE, KIRKTON COTTAGE AND OUTBUILDINGS.	C(S)	355544	863680
10645	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, HAMEWITH	C(S)	355637	863774
10646	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, CHURCH HALL (FORMER FREE CHURCH)	C(S)	355683	863749
10708	FORDYCE	FISHING STORES TO REAR OF 18 SANDEND	C(S)	355472	866476
10712	FORDYCE	25 SANDEND	C(S)	355514	866477
10715	FORDYCE	29 SANDEND	C(S)	355519	866464
10541	GAMRIE	48 CROVIE	C(S)	380753	865658
10578	GAMRIE	MAINS OF MELROSE	C(S)	374461	864297
9608	FORGLEN	CARNOUSIE, WATERSIDE, WEST COTTAGE	C(S)	367367	849320
9639	INVERKEITHNY	HADDO HOUSE NORTH LODGE WITH GATES QUADRANT AND BOUNDARY WALLS	C(S)	362698	846927
9396	KING EDWARD	CRAIGSTON CASTLE, BRIDGE OVER CRAIGSTON BURN (IMMEDIATELY SOUTH OF CASTLE)	C(S)	376211	854958
9398	KING EDWARD	DANSHILLOCK, OLD SCHOOL	C(S)	371713	857531
9448	FORGUE	AUCHABER MANSE	C(S)	363149	841067
9251	LONMAY	CRIMONMOGATE HOUSE KENNELS HOUSE	C(S)	403441	858439
9266	LONMAY	CAIRNESS, HOME FARM, FORMERLY BARNYARDS OF CAIRNESS	C(S)	403839	861251

HB Number	Parish Borough	Address	Category	X	Y
9269	LONMAY	CRAIGELLIE HOUSE, WEST LODGE	C(S)	401788	860387
9051	HUNTLY	GRAVEYARD, DUNBENNAN. (ORIGINAL S.E. HALF ONLY)	C(S)	350420	840809
9079	HUNTLY	BINN TOLL HOUSE HUNTLY.	C(S)	352159	840231
6769	FORDYCE	56A SANDEND	C(S)	355481	866312
6651	ALVAH	MONTCOFFER STEADING	C(S)	368539	861298
6654	ALVAH	MOUNTBLAIRY WALLED GARDEN	C(S)	369159	854429
3221	BOYNDIE	WHITEHILLS, 6 BOYNE STREET	C(S)	365231	865402
3240	BOYNDIE	LINTMILL BRIDGE OVER THE BURN OF BOYNE	C(S)	360711	864939
3177	BOYNDIE	WHITEHILLS, 15 LOW SHORE	C(S)	365332	865434
3186	BOYNDIE	WHITEHILLS, 26 LOW SHORE	C(S)	365386	865439
3036	CRIMOND	MIDDLETON OF RATTRAY, FARMHOUSE	C(S)	409349	856879
2887	ALVAH	DUNLUGAS COTTAGES	C(S)	369547	855577
2937	DRUMBLADE	DRUMBLADE FORMER PARISH MANSE OUTBUILDINGS INCLUDING BOTHY	C(S)	358780	840248
2727	ABERDOUR	41, 42 PENNAN	C(S)	384511	865465
2729	ABERDOUR	45, 46, 47 PENNAN, ANCHOR CLOSE	C(S)	384491	865481
2729	ABERDOUR	45, 46, 47 PENNAN, ANCHOR CLOSE	C(S)	384488	865471
2749	ABERDOUR	PENNAN FARM, FARMHOUSE	C(S)	385483	865188
2759	ABERDOUR	14 PENNAN	C(S)	384625	865480
2767	ABERDOUR	26 PENNAN	C(S)	384575	865469
2771	ABERDOUR	NETHERMILL BRIDGE OVER THE TORE BURN	C(S)	383887	865719
2320	BOHARM	MULBEN MILL, MILLER'S COTTAGE	C(S)	335192	851211
2326	BOHARM	BOHARM OLD PARISH CHURCH OF SCOTLAND	C(S)	334099	850037
1588	BELLIE	FOCHABERS, 14 THE SQUARE AND 1 DUKE STREET	C(S)	334545	858825
1614	BELLIE	FOCHABERS, 5 THE SQUARE	C(S)	334548	858734
47401	DRUMBLADE	PIRRIESMILL, CENTRAL RANGE AND NORTH RANGE	C(S)	353721	840158
47588	FORGUE	FORGUE PARISH HALL (SCOTT'S HALL), INCLUDING GATES, GATEPIERS, BOUNDARY WALLS AND RAILINGS	C(S)	361273	844706
50906	OLD DEER	ADEN COUNTRY PARK, WALLED GARDEN INCLUDING BOTHY, POTTING SHED AND HEAD GARDENER'S HOUSE	C(S)	398270	847867
50913	MACDUFF	SKENE STREET, MANOR HOUSE INCLUDING SUMMERHOUSE, BOUNDARY WALLS AND RAILINGS	C(S)	370750	864622
42169	TURRIFF	19, 21 HIGH STREET	C(S)	372456	849810
42182	TURRIFF	ROYAL OAK HOTEL, DEVERON STREET	C(S)	372093	849964
40272	PORTSOY	3 SEAFIELD PLACE AND REAR GARDEN WALLS	C(S)	359038	865921
40274	PORTSOY	1, 3 SEAFIELD STREET	C(S)	358832	865959
40297	PORTSOY	2, 4 SHORE STREET	C(S)	358974	866334
40299	PORTSOY	7, 9 SOUTH HIGH STREET	C(S)	358812	865993
40306	PORTSOY	36, 38 SOUTH HIGH STREET	C(S)	358864	866085
40310	PORTSOY	ST COMB'S ROAD, ST COMB'S WELL	C(S)	359223	865998
40151	PORTKNOCKIE	9 PATROL PLACE, STORE (FORMER FISHERMEN'S HALL)	C(S)	348868	868648
40164	PORTKNOCKIE	4 SEAFIELD TERRACE	C(S)	349109	868298
40191	PORTKNOCKIE	20 SEAFIELD STREET	C(S)	349057	868504
40217	PORTSOY	2, 4 BRIDGE STREET	C(S)	358955	866162
40228	PORTSOY	46, 48 CHURCH STREET, MORVEN	C(S)	359000	866152
40100	PORTKNOCKIE	10 ADMIRALTY STREET	C(S)	349103	868388
40104	PORTKNOCKIE	18 ADMIRALTY STREET	C(S)	349103	868445
40111	PORTKNOCKIE	35, 37 CHURCH STREET	C(S)	348690	868427
40112	PORTKNOCKIE	CHURCH STREET, CHURCH OF SCOTLAND	C(S)	348850	868428
40114	PORTKNOCKIE	24 CHURCH STREET	C(S)	348810	868422
40116	PORTKNOCKIE	28 CHURCH STREET	C(S)	348778	868427
40120	PORTKNOCKIE	36 CHURCH STREET	C(S)	348701	868440
40122	PORTKNOCKIE	40 CHURCH STREET	C(S)	348658	868448
40124	PORTKNOCKIE	3, 4 CLIFF TERRACE	C(S)	348650	868479
40135	PORTKNOCKIE	12 HIGH STREET	C(S)	348890	868363

HB Number	Parish Borough	Address	Category	X	Y
40137	PORTKNOCKIE	16 HIGH STREET	C(S)	348863	868367
40146	PORTKNOCKIE	38, 40 HIGH STREET	C(S)	348691	868397
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413543	846557
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413518	846562
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413507	846565
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413495	846567
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413479	846571
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413470	846587
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413506	846575
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413536	846573
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413484	846605
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413484	846605
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413494	846601
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413543	846592
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413540	846624
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413517	846646
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413439	846679
39845	PETERHEAD	2-12 NEW STREET AND 40 NORTH STREET.	C(S)	413469	846689
39845	PETERHEAD	2-12 NEW STREET AND 40 NORTH STREET.	C(S)	413478	846687
39845	PETERHEAD	2-12 NEW STREET AND 40 NORTH STREET.	C(S)	413495	846686
39846	PETERHEAD	1-11 NEW STREET AND 42 NORTH STREET.	C(S)	413446	846711
39726	PETERHEAD	8, 10 MAIDEN STREET.	C(S)	413335	846036
39731	PETERHEAD	36, 38 MAIDEN STREET	C(S)	413218	846067
39754	PETERHEAD	3, 4 CHARLOTTE STREET AND 49 MAIDEN STREET	C(S)	413143	846057
39761	PETERHEAD	19 CHARLOTTE STREET	C(S)	413292	845978
39765	PETERHEAD	3 ROSE STREET	C(S)	413522	846067
39766	PETERHEAD	7, 11 ROSE STREET	C(S)	413526	846058
39768	PETERHEAD	4-10 ROSE STREET	C(S)	413511	846069
39770	PETERHEAD	7, 9 JAMAICA STREET	C(S)	413533	845965
39777	PETERHEAD	4 JAMAICA STREET AND 1 ST. ANDREW STREET	C(S)	413503	846019
39797	PETERHEAD	2 WALLACE STREET (GABLE TO MERCHANT STREET)	C(S)	413438	845886
39799	PETERHEAD	51 MERCHANT STREET	C(S)	413437	845868
39692	PETERHEAD	40-46 BROAD STREET	C(S)	413544	846070
39705	PETERHEAD	25 ST. ANDREWS STREET	C(S)	413377	846011
37643	MACDUFF	5 WEST SKENE STREET	C(S)	370602	864768
37629	MACDUFF	75, 77, 79 DUFF STREET	C(S)	370689	864415
35663	KEITH	1, 3 REGENT STREET	C(S)	342783	850821
35671	KEITH	16, 18 REGENT STREET	C(S)	342643	850858
35624	KEITH	7, 9 CHAPEL STREET, DEN MAR AND CRIMOND	C(S)	343103	850233
35627	KEITH	12 CHAPEL STREET	C(S)	343031	850222
35633	KEITH	143, 145 LAND STREET AND 14 UNION STREET	C(S)	343151	850675
31949	FRASERBURGH	54 MAIN STREET	C(S)	399211	867475
31958	FRASERBURGH	82 MAIN STREET	C(S)	399083	867522
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399194	867263
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399162	867308
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399212	867287
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399331	867204
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399275	867207
31892	FRASERBURGH	62 FRITHSIDE STREET	C(S)	399644	866875
31899	FRASERBURGH	27, 29 SALTOUN PLACE	C(S)	399695	866718
31900	FRASERBURGH	31, 33, 35 SALTOUN PLACE	C(S)	399694	866693
31915	FRASERBURGH	25 MAIN STREET	C(S)	399232	867296
31927	FRASERBURGH	51 MAIN STREET	C(S)	399133	867461
31405	FINDOCHTY	16 MID STREET	C(S)	345972	867644
31420	FINDOCHTY	13 NEW STREET	C(S)	346519	868137

HB Number	Parish Borough	Address	Category	X	Y
31440	FINDOCHTY	9,11 NORTH BLANTYRE STREET	C(S)	346415	868061
31463	FINDOCHTY	3 SILLER STREET	C(S)	346471	868200
31363	FINDOCHTY	1, 3 BURNSIDE STREET	C(S)	346023	867730
31392	FINDOCHTY	6 CHURCH STREET	C(S)	346417	868145
23912	CULLEN	174 SEATOWN	C(S)	350881	867215
23916	CULLEN	182 SEATOWN, METHODIST CHURCH	C(S)	350840	867217
23918	CULLEN	185 SEATOWN	C(S)	350828	867236
23931	CULLEN	208 SEATOWN	C(S)	350783	867235
23934	CULLEN	212 SEATOWN	C(S)	350811	867233
23936	CULLEN	216 SEATOWN	C(S)	350840	867235
23937	CULLEN	217 SEATOWN	C(S)	350852	867240
23940	CULLEN	221 SEATOWN	C(S)	350888	867234
23950	CULLEN	234 SEATOWN	C(S)	350959	867221
23759	CULLEN	14, 16 SEAFIELD STREET	C(S)	351308	867037
23771	CULLEN	21 SOUTH CASTLE STREET	C(S)	351191	867018
23774	CULLEN	12 SOUTH DESKFORD STREET AND INDUSTRIAL CHIMNEY STACK AT REAR	C(S)	351215	866883
23790	CULLEN	17 VICTORIA STREET	C(S)	351423	867261
23806	CULLEN	5 SEATOWN (CASTLE TERRACE)	C(S)	350905	867146
23807	CULLEN	8 SEATOWN (CASTLE TERRACE)	C(S)	350891	867143
23817	CULLEN	33 SEATOWN (CASTLE TERRACE)	C(S)	350722	867198
23824	CULLEN	55, 56 SEATOWN	C(S)	350690	867241
23825	CULLEN	58 SEATOWN	C(S)	350717	867219
23832	CULLEN	67 SEATOWN	C(S)	350763	867219
23842	CULLEN	79 SEATOWN	C(S)	350853	867171
23846	CULLEN	84 SEATOWN	C(S)	350872	867154
23858	CULLEN	99 SEATOWN	C(S)	350919	867167
23861	CULLEN	103 SEATOWN	C(S)	350935	867180
23864	CULLEN	107 SEATOWN	C(S)	350972	867180
23865	CULLEN	110 SEATOWN	C(S)	350976	867195
23871	CULLEN	119, 120 SEATOWN	C(S)	351027	867232
23876	CULLEN	124 SEATOWN	C(S)	351032	867244
23891	CULLEN	142 SEATOWN	C(S)	350909	867201
23740	CULLEN	5, 7 SEAFIELD STREET	C(S)	351352	867042
22729	BUCKIE	BUCKPOOL, 87 MAIN STREET AND GARDEN WALL	C(S)	341632	865492
22730	BUCKIE	39 YARDIE	C(S)	342091	865755
22087	BANFF	14, 15 SANDYHILL ROAD	C(S)	368784	863629
22094	BANFF	SEAFIELD STREET, MANSEFIELD	C(S)	368768	864244
22104	BANFF	ST CATHERINE STREET, JAIL WALLS	C(S)	368714	864323
21962	BANFF	66, 66A CASTLE STREET	C(S)	368863	864376
21968	BANFF	94 CASTLE STREET AND REAR GARDEN WALL	C(S)	368856	864509
21971	BANFF	CHURCH STREET, HOUSE INCORPORATED INTO BANFF TYRE SERVICE PREMISES	C(S)	369181	864030
21979	BANFF	7 COLDHOME STREET, CHAPELHOME INCLUDING GARDEN WALL	C(S)	368623	864418
21980	BANFF	6 DEVERONSIDE, 30A, 32A HIGH SHORE	C(S)	369032	864168
21992	BANFF	5, 7 FIFE STREET	C(S)	368727	864365
22000	BANFF	5 GEORGE STREET	C(S)	368908	864350
22066	BANFF	5 OLD CASTLEGATE	C(S)	368887	864043
22076	BANFF	11 OLD MARKET PLACE	C(S)	369194	864003
21876	BANFF	2 BACK PATH	C(S)	368969	863838
21896	BANFF	7 BRIDGE STREET	C(S)	369129	863929
21900	BANFF	41-47 (ODD NOS) BRIDGE STREET	C(S)	369014	863890
21907	BANFF	38, 40 BRIDGE STREET	C(S)	369019	863919
21910	BANFF	1 CAMPBELL STREET	C(S)	368629	864560
21912	BANFF	5 CAMPBELL STREET	C(S)	368617	864536

HB Number	Parish Borough	Address	Category	X	Y
21920	BANFF	4 CAMPBELL STREET	C(S)	368651	864541
21924	BANFF	12 CAMPBELL STREET	C(S)	368624	864496
21937	BANFF	CASTLE STREET, MANSE OF TRINITY AND ALVAH	C(S)	368839	864146
21947	BANFF	53, 55 CASTLE STREET	C(S)	368846	864348
21948	BANFF	57, 59 CASTLE STREET	C(S)	368840	864357
19929	ABERCHIRDER	51 SOUTH STREET WITH BOUNDARY WALL AND RAILINGS	C(S)	362834	852508
19774	OLD DEER	13, 15, 17 ABBEY STREET	C(S)	397753	847683
19615	MARNOCH	MILL OF KINNAIRDY BRIDGE	C(S)	361177	850094
18963	OLD DEER	PITFOUR WEST LODGE	C(S)	395348	849550
18976	ST FERGUS	KINLOCH FARMHOUSE	C(S)	409783	850636
16543	STRICHEN	HOWFORD, OLD FARMHOUSE	C(S)	395361	854797
16559	STRICHEN	MORMOND HOTEL, WATER STREET AT W. CORNER WITH BRIDGE STREET	C(S)	394574	855083
16312	PETERHEAD	22 QUEEN'S ROAD	C(S)	413364	842307
16336	PETERHEAD	24 EARL'S COURT	C(S)	413353	842230
16338	PETERHEAD	11, 13 ROCKSLEY DRIVE	C(S)	413338	842242
16343	PETERHEAD	7 HARBOUR STREET	C(S)	412809	847231
16357	PETERHEAD	8 QUEEN'S ROAD	C(S)	413406	842346
16426	TURRIFF	DELGATIE CASTLE, GARDEN WALLS	C(S)	375217	850855
16071	OLD DEER	THE LARDER, PITFOUR (MR. WATSON)	C(S)	397827	849260
16077	OLD DEER	EMAH ROO. (OLD TOLLHOUSE) NEAR COILSMORE	C(S)	394528	849382
16082	OLD DEER	ADEN ARMS HOTEL	C(S)	397723	847697
16083	OLD DEER	2, 4 ABBEY STREET	C(S)	397835	847694
16094	OLD DEER	ADEN ICEHOUSE	C(S)	398000	847800
16118	OLD DEER	11 ABBEY STREET	C(S)	397771	847678
16155	NEW DEER	10, 11 GLADSTONE TERRACE, NEW DEER.	C(S)	388684	846861
15894	PITSLIGO	PITTULIE, 20 HIGH STREET	C(S)	395816	867697
15898	PITSLIGO	PITTULIE, 27 HIGH STREET	C(S)	395860	867687
15899	PITSLIGO	PITTULIE, 29 HIGH STREET, HOUSE AND STORE	C(S)	395883	867665
15904	PITSLIGO	PITTULIE, 40 HIGH STREET	C(S)	395964	867632
15873	PITSLIGO	PITTULIE, 49 HIGH STREET	C(S)	396037	867619
15883	PITSLIGO	PITTULIE, 61 HIGH STREET	C(S)	396078	867554
15513	RATHVEN	ARRADOUL HOUSE	C(S)	342003	863680
15522	RATHVEN	PORTGORDON 2 EAST HIGH STREET	C(S)	339650	864244
14864	URQUHART	INNES HOUSE, COACH HOUSE, GARAGES AND STABLES	C(S)	327810	864946
14823	URQUHART	GARMOUTH, CHURCH STREET POST OFFICE COTTAGE	C(S)	333956	864401
14826	URQUHART	GARMOUTH, CHURCH STREET, THE GATEHOUSE	C(S)	333967	864386
14836	URQUHART	GARMOUTH, HIGH STREET, MARY COTTAGE	C(S)	333936	864473
13594	INVERKEITHNY	INVERKEITHNY ROW OF 4 COTTAGES	C(S)	362853	846913
10603	FORDYCE	FORDYCE VILLAGE, ST TARQUINS, CHURCH STREET, GARDEN STORE AND ENCLOSING WALLS	C(S)	355489	863717
10628	FORDYCE	FORDYCE VILLAGE, BRIDGE STREET, BRIDGE OVER THE BURN OF FORDYCE	C(S)	355511	863860
10629	FORDYCE	FORDYCE VILLAGE, BRIDGE STREET, BRIDGE COTTAGE	C(S)	355521	863856
10647	FORDYCE	FORDYCE VILLAGE, 4 EAST CHURCH STREET	C(S)	355594	863794
10649	FORDYCE	GLASSAUGH HOUSE WALLED GARDEN	C(S)	355859	864834
10656	FORDYCE	SANDEND, HARBOUR AND BREAKWATER	C(S)	355587	866532
10665	FORDYCE	8 SANDEND	C(S)	355472	866523
10666	FORDYCE	9 SANDEND	C(S)	355484	866522
10670	FORDYCE	13 SANDEND	C(S)	355473	866505
10679	FORDYCE	41 SANDEND	C(S)	355536	866444
10686	FORDYCE	52 SANDEND	C(S)	355503	866386
10716	FORDYCE	32 SANDEND	C(S)	355502	866452
10552	GAMRIE	17 CROVIE	C(S)	380753	865468
9590	FRASERBURGH	NORTH SCHOOL CROFT BRIDGE OVER WATER OF PHILORTH.	C(S)	400254	862415

HB Number	Parish Borough	Address	Category	X	Y
9405	KING EDWARD	EDEN, NORTH LODGE	C(S)	370316	860047
9414	LONGSIDE	DUN-NA-CLUACH (FORMER MANSE OF LONGSIDE)	C(S)	403610	847090
9459	FORGUE	OLD MANSE OF FORGUE STEADING	C(S)	360958	845402
9244	LONMAY	CRIMONMOGATE HOUSE OLD LAUNDRY	C(S)	403831	858692
9247	LONMAY	CRIMONMOGATE HOUSE NORTH LODGE	C(S)	403471	858924
9254	LONMAY	MILL OF CRIMONMOGATE, FORMER MILL	C(S)	404150	858383
3216	BOYNDIE	WHITEHILLS, 3 BOYNE STREET	C(S)	365208	865384
3217	BOYNDIE	WHITEHILLS, 4 BOYNE STREET	C(S)	365214	865386
3163	BOYNDIE	WHITEHILLS, 34 LOW SHORE	C(S)	365398	865474
3181	BOYNDIE	WHITEHILLS, 19 LOW SHORE	C(S)	365347	865435
3195	BOYNDIE	WHITEHILLS, 17 KNOCK STREET	C(S)	365657	865553
3201	BOYNDIE	WHITEHILLS, 16 KNOCK STREET	C(S)	365649	865529
3031	CRIMOND	AVAIG (FORMER MANSE OF CRIMOND)	C(S)	405378	856719
2730	ABERDOUR	48 PENNAN	C(S)	384480	865482
2764	ABERDOUR	22 PENNAN	C(S)	384594	865462
2206	DESKFORD	7 BERRYHILLOCK	C(S)	350455	860865
1634	BELLIE	SPEYMOUTH FOREST, WHITEASH CAIRN	C(S)	337310	857483
1554	BELLIE	FOCHABERS, 9, 11 EAST STREET	C(S)	334759	858607
1556	BELLIE	FOCHABERS, 2, 4, 6 EAST STREET	C(S)	334805	858735
1556	BELLIE	FOCHABERS, 2, 4, 6 EAST STREET	C(S)	334799	858723
1568	BELLIE	FOCHABERS, 42 HIGH STREET, GRANT ARMS HOTEL	C(S)	334683	858711
1569	BELLIE	FOCHABERS, 46 HIGH STREET	C(S)	334648	858723
1572	BELLIE	FOCHABERS, 56 HIGH STREET	C(S)	334608	858749
1578	BELLIE	32 MAXWELL STREET	C(S)	334625	858797
1588	BELLIE	FOCHABERS, 14 THE SQUARE AND 1 DUKE STREET	C(S)	334539	858827
1599	BELLIE	FOCHABERS, 87 AND 89 HIGH STREET	C(S)	334400	858848
47401	DRUMBLADE	PIRRIESMILL, CENTRAL RANGE AND NORTH RANGE	C(S)	353724	840131
49407	TURRIFF	CRAIGSTON CASTLE, SOUTH LODGE WITH ENTRANCE GATES, GATEPIERS AND RAILINGS	C(S)	375742	854919
49854	PETERHEAD	PETERHEAD PRISON STALK AND WORKSHOP	C(S)	412741	844432
49989	NEW DEER	BRUCKLAY CASTLE, BRIDGES TO WEST AND SOUTH WALLED GARDEN	C(S)	390998	849778
50906	OLD DEER	ADEN COUNTRY PARK, WALLED GARDEN INCLUDING BOTHY, POTTING SHED AND HEAD GARDENER'S HOUSE	C(S)	398264	847889
50906	OLD DEER	ADEN COUNTRY PARK, WALLED GARDEN INCLUDING BOTHY, POTTING SHED AND HEAD GARDENER'S HOUSE	C(S)	398275	847887
42165	TURRIFF	2-8 (EVEN NUMBERS ONLY) PUTACHIE PATH	C(S)	372241	849842
42168	TURRIFF	15 HIGH STREET	C(S)	372479	849803
42170	TURRIFF	45, 47 HIGH STREET	C(S)	372379	849832
42179	TURRIFF	FIFE ARMS HOTEL SQUARE AND MARKET STREET	C(S)	372503	850034
40434	ROSEHEARTY	THE SQUARE, JUBILEE FOUNTAIN	C(S)	393363	867472
40273	PORTSOY	5 SEAFIELD PLACE AND GARDEN WALLS	C(S)	359035	865912
40291	PORTSOY	10 SHOREHEAD, WAREHOUSE SITED IMMEDIATELY TO EAST	C(S)	358856	866300
40300	PORTSOY	17, 19, 21 SOUTH HIGH STREET	C(S)	358819	866006
40301	PORTSOY	39, 41 SOUTH HIGH STREET	C(S)	358833	866072
40315	PORTSOY	26 THE SQUARE	C(S)	358865	866102
40316	PORTSOY	1 WOOD STREET	C(S)	359099	866389
40157	PORTKNOCKIE	15 PULTENEY STREET	C(S)	348736	868448
40161	PORTKNOCKIE	1 SEAFIELD TERRACE	C(S)	349039	868338
40182	PORTKNOCKIE	2 SEAFIELD STREET	C(S)	349054	868360
40200	PORTKNOCKIE	4 STATION ROAD	C(S)	348589	868412
40206	PORTSOY	1, 3 AIRD STREET	C(S)	359140	865946
40212	PORTSOY	17 AIRD STREET	C(S)	359155	865894
40234	PORTSOY	CHURCH STREET, SHORE INN WITH BOUNDARY WALL	C(S)	358932	866266
40242	PORTSOY	15 HILL STREET	C(S)	358743	866030
40246	PORTSOY	LODGING BRAE, 1, 2, 3, 4 OLD COASTGUARDS HOUSES	C(S)	359004	866269

HB Number	Parish Borough	Address	Category	X	Y
40248	PORTSOY	17 LOW STREET	C(S)	358915	866233
40256	PORTSOY	6 MAIN STREET	C(S)	359091	866350
40103	PORTKNOCKIE	16 ADMIRALTY STREET	C(S)	349103	868431
40108	PORTKNOCKIE	19, 21 CHURCH STREET	C(S)	348792	868409
40113	PORTKNOCKIE	22 CHURCH STREET	C(S)	348828	868419
40124	PORTKNOCKIE	3, 4 CLIFF TERRACE	C(S)	348659	868481
40134	PORTKNOCKIE	10 HIGH STREET	C(S)	348909	868360
39835	PETERHEAD	RATTRAY VIEW, 46 NORTH STREET	C(S)	413448	846734
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413527	846573
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413505	846599
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413530	846596
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413465	846640
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413482	846620
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413496	846651
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413471	846656
39849	PETERHEAD	28 CAIRNTRODDLIE	C(S)	412489	846145
39729	PETERHEAD	22, 24 MAIDEN STREET	C(S)	413281	846049
39736	PETERHEAD	CALEDONIAN FISH SELLING COMPANY (SOUTH BLOCK) SHIPROW.	C(S)	413768	845956
39740	PETERHEAD	2 HARBOUR STREET	C(S)	413545	845883
39754	PETERHEAD	3, 4 CHARLOTTE STREET AND 49 MAIDEN STREET	C(S)	413146	846052
39768	PETERHEAD	4-10 ROSE STREET	C(S)	413505	846061
39814	PETERHEAD	A. MACDONALD 1 ERROL STREET AND 2 LOVE LANE.	C(S)	413181	846121
39820	PETERHEAD	30-34 QUEEN STREET	C(S)	413298	846290
39682	PETERHEAD	61-63 BROAD STREET	C(S)	413558	846110
39699	PETERHEAD	23, 25 JAMES STREET	C(S)	413560	846014
37636	MACDUFF	TARLAIR WELLHOUSE, WELL OF TARLAIR	C(S)	371758	864691
35638	KEITH	88, 90, 92 LAND STREET, CHAPEL HOUSE	C(S)	343085	850378
35644	KEITH	168, 170 LAND STREET	C(S)	343117	850703
35648	KEITH	161, 163 MID STREET, CLYDESDALE BANK	C(S)	343257	850578
35671	KEITH	16, 18 REGENT STREET	C(S)	342646	850860
35673	KEITH	36 REGENT STREET AND 4, 5 REGENT SQUARE, GRAMPIAN HOTEL (FORMERLY GORDON ARMS HOTEL)	C(S)	342520	850912
35677	KEITH	22, 23 REIDHAVEN SQUARE, THE CROWN INN AND 53, 55 MID STREET	C(S)	343218	850243
34929	HUNTLY	18, THE SQUARE, HUNTLY HOTEL.	C(S)	352928	840024
31940	FRASERBURGH	32 MAIN STREET	C(S)	399211	867366
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399168	867300
31963	FRASERBURGH	39 GEORGE STREET	C(S)	399151	867326
31967	FRASERBURGH	5 NOBLE STREET	C(S)	399318	867227
31898	FRASERBURGH	25 SALTOUN PLACE	C(S)	399695	866730
31916	FRASERBURGH	27 MAIN STREET	C(S)	399225	867313
31398	FINDOCHTY	15, 17 MID STREET	C(S)	345988	867658
31401	FINDOCHTY	6 MID STREET	C(S)	345963	867721
31410	FINDOCHTY	12 NETHERTON TERRACE	C(S)	345976	867771
31417	FINDOCHTY	7 NEW STREET	C(S)	346508	868179
31423	FINDOCHTY	19 NEW STREET	C(S)	346548	868085
31434	FINDOCHTY	24 NEW STREET	C(S)	346501	868091
31436	FINDOCHTY	28 NEW STREET	C(S)	346474	868095
31451	FINDOCHTY	7 SEAFIELD STREET	C(S)	345936	867692
31365	FINDOCHTY	9, 11 BURNSIDE STREET	C(S)	346031	867672
31373	FINDOCHTY	7 CASTLE STREET, KELVIN GROVE	C(S)	345848	867669
23903	CULLEN	161 SEATOWN	C(S)	350895	867204
23906	CULLEN	166 SEATOWN	C(S)	350970	867220
23917	CULLEN	183 SEATOWN	C(S)	350824	867219
23922	CULLEN	196 SEATOWN	C(S)	350748	867233
23926	CULLEN	201, 201A SEATOWN	C(S)	350718	867250

HB Number	Parish Borough	Address	Category	X	Y
23928	CULLEN	203 SEATOWN	C(S)	350750	867254
23930	CULLEN	206 SEATOWN	C(S)	350763	867235
23948	CULLEN	232 SEATOWN	C(S)	350955	867233
23952	CULLEN	236 SEATOWN	C(S)	350967	867224
23760	CULLEN	18, 20 SEAFIELD STREET	C(S)	351297	867035
23768	CULLEN	7 SOUTH CASTLE STREET	C(S)	351257	866956
23772	CULLEN	6 SOUTH CASTLE STREET	C(S)	351263	866916
23775	CULLEN	18, 20 SOUTH DESKFORD STREET LAWTIE'S MORTIFICATION	C(S)	351183	866914
23778	CULLEN	34 SOUTH DESKFORD STREET	C(S)	351134	866953
23804	CULLEN	1 SEATOWN (CASTLE TERRACE)	C(S)	350921	867142
23808	CULLEN	9, 12 SEATOWN (CASTLE TERRACE)	C(S)	350880	867144
23824	CULLEN	55, 56 SEATOWN	C(S)	350699	867248
23831	CULLEN	66 SEATOWN	C(S)	350746	867223
23845	CULLEN	83 SEATOWN	C(S)	350869	867170
23862	CULLEN	104, 104 AND A HALF SEATOWN	C(S)	350956	867176
23875	CULLEN	123A SEATOWN	C(S)	351027	867258
23883	CULLEN	131 SEATOWN	C(S)	350975	867212
23714	CULLEN	11 GRANT STREET	C(S)	351146	866983
23717	CULLEN	12 GRANT STREET	C(S)	351168	867043
23718	CULLEN	26, 28 GRANT STREET	C(S)	351201	867079
23733	CULLEN	SEAFIELD FARM, DOVECOT	C(S)	351574	866777
23748	CULLEN	39 SEAFIELD STREET	C(S)	351157	867207
23758	CULLEN	12, 12A SEAFIELD STREET	C(S)	351318	867024
22738	BUCKIE	68 YARDIE	C(S)	342021	865715
22031	BANFF	24 HIGH STREET, OAKBANK	C(S)	368894	863890
22084	BANFF	10 SANDYHILL ROAD	C(S)	368810	863666
21889	BANFF	1 BRAEHEADS	C(S)	368909	864356
21898	BANFF	13, 15 BRIDGE STREET	C(S)	369095	863920
21919	BANFF	2 CAMPBELL STREET	C(S)	368652	864556
21923	BANFF	10 CAMPBELL STREET	C(S)	368625	864504
21934	BANFF	19 CASTLE STREET	C(S)	368847	864092
21944	BANFF	41, 43 CASTLE STREET	C(S)	368842	864275
21956	BANFF	12, 14, 16 CASTLE STREET ELM BANK	C(S)	368884	864087
21956	BANFF	12, 14, 16 CASTLE STREET ELM BANK	C(S)	368878	864096
19916	ABERCHIRDER	148 MAIN STREET	C(S)	362791	852577
19925	ABERCHIRDER	SOUTH STREET, LAURELBANK	C(S)	362923	852516
19927	ABERCHIRDER	REAR, 19 AND 20 SOUTH STREET	C(S)	362494	852309
19779	RATHEN	INVERALLOCHY 1 CHARLES STREET	C(S)	404423	865021
19794	PETERHEAD	1 ROCKSLEY DRIVE	C(S)	413365	842276
19798	PETERHEAD	3 EARL'S COURT	C(S)	413400	842291
19799	ST FERGUS	LUNDERTON HOUSE	C(S)	410447	849337
19601	MARNOCH	CLUNIE WALLED GARDEN	C(S)	363761	850132
19609	MARNOCH	LOOTCHERBRAE, SMITHY	C(S)	360592	854032
18975	OLD DEER	PITFOUR ESTATE, SOUTH LODGE	C(S)	397802	848315
18832	RATHVEN	DRYBRIDGE,SMIDDY	C(S)	343554	862522
16456	TYRIE	BANK OF SCOTLAND HIGH STREET	C(S)	388208	856042
16532	ST FERGUS	MANSE OF ST FERGUS	C(S)	409374	852011
16545	STRICHEN	ADZIEL HOUSE	C(S)	394705	853213
16567	STRICHEN	BRIDGE OVER NORTH UGIE WATER ON B 9093	C(S)	394349	855460
16347	PETERHEAD	3 QUEEN'S ROAD	C(S)	413442	842364
16353	PETERHEAD	15 QUEEN'S ROAD	C(S)	413372	842291
16359	PETERHEAD	16 QUEEN'S ROAD	C(S)	413379	842323
16361	PETERHEAD	WHITEHILL LODGE	C(S)	411307	844542
16377	PETERHEAD	1 EARL'S COURT	C(S)	413387	842301
16389	PETERHEAD	HOWE O'BUCHAN HOUSE	C(S)	410579	846426

HB Number	Parish Borough	Address	Category	X	Y
16409	TURRIFF	DULCERSTONE BRIDGE OVER BURN OF DULCERSTONE	C(S)	372286	851026
16436	TYRIE	26 HIGH STREET	C(S)	388146	856324
16447	TYRIE	BOYNDLIE HOUSE OFFICES	C(S)	391554	862069
16067	OLD DEER	'THE BOATHOUSE', THE LAKE, PITFOUR (CAPTAIN CURZON)	C(S)	397486	848860
16079	OLD DEER	FETTERANGUS CHURCH	C(S)	398145	850561
16117	OLD DEER	3, 5 ABBEY STREET	C(S)	397803	847669
16154	NEW DEER	ST. KANE'S MANSE SUNDIAL.	C(S)	388710	846907
16161	NEW DEER	BRUCKLAY CASTLE, BRIDGE OVER WATER OF FEDDERATE.	C(S)	390648	850062
15890	PITSLIGO	PITTULIE, 8 HIGH STREET	C(S)	395907	867626
15895	PITSLIGO	PITTULIE, 21 HIGH STREET	C(S)	395863	867691
15908	PITSLIGO	BRACO PARK, DOVECOT	C(S)	392279	866487
16026	MARNOCH	CLUNIE DOVECOT	C(S)	363903	850162
15854	MORTLACH	BRIDGE OF POOLINCH OVER RIVER FIDDICH	C(S)	332911	840730
15880	PITSLIGO	PITTULIE, 58 HIGH STREET	C(S)	396054	867580
15888	PITSLIGO	PITTULIE, 6 HIGH STREET	C(S)	395933	867618
15889	PITSLIGO	PITTULIE, 7 HIGH STREET	C(S)	395933	867618
15615	ROTHIEMAY	MILLTOWN OF ROTHIEMAY, THE MILL HOUSE	C(S)	354821	848153
15523	RATHVEN	PORTKNOCKIE, KIRK HOUSE (FORMER SEAFIELD CHURCH OF SCOTLAND) AND ENCLOSING WALLS	C(S)	349049	868010
15536	RATHVEN	ENZIE CROSS ROADS, SYLVANIA (FORMER FREE CHURCH MANSE)	C(S)	339411	862452
14851	URQUHART	GARMOUTH, THE BRAE, 'THE BRAE'	C(S)	334008	864507
14856	URQUHART	GARMOUTH, SOUTH ROAD, STEWART HOUSE, STABLE AND GARDEN WALLS	C(S)	333900	864345
14857	URQUHART	GARMOUTH, 1 AND 2 SPEY STREET	C(S)	334029	864559
14879	URQUHART	URQUHART VILLAGE, OAKLANDS	C(S)	328699	862690
14833	URQUHART	GARMOUTH, HIGH STREET, CRAIGISLA	C(S)	333906	864453
13598	FORGLEN	FORGLEN, CROSSBRAE	C(S)	369491	852454
13613	KING EDWARD	MILL OF KING EDWARD, BRIDGE OVER BURN OF KING EDWARD	C(S)	372706	855993
13616	KING EDWARD	NEW BYTHE, 11, 13 BRIDGE STREET	C(S)	382246	853779
13353	GAMRIE	20 CROVIE	C(S)	380763	865480
10599	FORDYCE	FORDYCE VILLAGE CHURCH STREET, POST OFFICE HOUSE AND POST OFFICE	C(S)	355544	863787
10605	GAMRIE	53, 54 CROVIE	C(S)	380752	865704
10617	FORDYCE	FORDYCE VILLAGE, SCHOOL ROAD, VIEWMOUNT	C(S)	355635	863767
10657	FORDYCE	1 SANDEND	C(S)	355482	866554
10689	FORDYCE	56 SANDEND, GOSPEL HALL (FORMER SCHOOL)	C(S)	355478	866301
10711	FORDYCE	23 SANDEND	C(S)	355490	866464
10540	GAMRIE	6 CROVIE	C(S)	380737	865407
10568	GAMRIE	43 CROVIE	C(S)	380757	865633
9592	FRASERBURGH	KINGLASSER OLD FARMHOUSE (NOW STORE).	C(S)	399618	863487
9638	INVERKEITHNY	HADDO HOUSE, DOVECOT	C(S)	362065	846176
9388	KING EDWARD	EDEN, HOME FARM, FORMER MILL	C(S)	370194	859590
9403	KING EDWARD	EDEN, BELL COTTAGE	C(S)	369963	859851
9407	KING EDWARD	EDEN, HOME FARM FARMHOUSE	C(S)	370167	859669
9413	LONGSIDE	CHURCHYARD OF LONGSIDE PARISH CHURCH	C(S)	403736	847258
9429	LONGSIDE	42, 44, 46 AND 48 SOUTH STREET	C(S)	400081	847987
9245	LONMAY	CRIMONMOGATE HOUSE GARDEN WALL AND OUTHOUSES S. OF STABLEBLOCK	C(S)	403893	858689
9259	LONMAY	KININMONTH HOUSE	C(S)	403284	853024
9267	LONMAY	CRAIGELLIE HOUSE	C(S)	402404	860213
6738	LONMAY	MILL OF CRIMONMOGATE FARMHOUSE	C(S)	404124	858337
6766	FORDYCE	3A SANDEND	C(S)	355464	866550
6660	BANFF	MANSE OF ORD, STRATHORD	C(S)	362248	858447
6663	BANFF	THE WRACK, FORMER INDUSTRIAL BUILDING	C(S)	367928	862281
3219	BOYNDIE	WHITEHILLS, 10 BOYNE STREET	C(S)	365255	865379

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3227	BOYNDIE	WHITEHILLS, 3 KNOCK STREET	C(S)	365541	865523
3164	BOYNDIE	WHITEHILLS, 23 OGILVIE STREET	C(S)	365416	865449
3174	BOYNDIE	WHITEHILLS, 10 LOW SHORE, DRUMFERGUE	C(S)	365307	865420
3180	BOYNDIE	WHITEHILLS, 18 LOW SHORE	C(S)	365353	865425
3184	BOYNDIE	WHITEHILLS, 24 LOW SHORE	C(S)	365377	865442
3191	BOYNDIE	WHITEHILLS, 31 LOW SHORE	C(S)	365396	865451
3204	BOYNDIE	WHITEHILLS, 24 KNOCK STREET	C(S)	365701	865544
3207	BOYNDIE	WHITEHILLS, 2 LOW SHORE	C(S)	365239	865411
3013	CAIRNIE	BOTARG AND PITLURG AISLE, CAIRNIE CHURCHYARD, CAIRNIE	C(S)	348999	844538
3020	AUCHTERLESS	AUCHTERLESS CHURCHYARD	C(S)	371374	841592
3043	CRIMOND	MILL OF CRIMOND	C(S)	404019	857706
3044	AUCHTERLESS	AUCHTERLESS PARISH CHURCH	C(S)	371374	841592
2882	ALVAH	BEEKIE COTTAGE	C(S)	370594	863535
2895	ALVAH	MONTCOFFER COTTAGES	C(S)	368745	861349
2756	ABERDOUR	6, 7 PENNAN	C(S)	384672	865483
2766	ABERDOUR	24 PENNAN	C(S)	384583	865462
2348	ABERLOUR	ABERLOUR HOME FARM, FORMER GARDENERS' COTTAGES	C(S)	328065	843333
2213	DESKFORD	BERRYHILLOCK, MILL, OLD MILL OF BERRYHILLOCK	C(S)	350541	860816
1622	BELLIE	GORDON CASTLE, BELLIE LODGE	C(S)	335234	860960
1633	BELLIE	SPEYMOUTH FOREST, BRIDGE OVER THE BURN OF REDPATH	C(S)	338169	855899
1554	BELLIE	FOCHABERS, 9, 11 EAST STREET	C(S)	334764	858613
1561	BELLIE	FOCHABERS, 17 HIGH STREET AND 7 EAST STREET	C(S)	334776	858619
1562	BELLIE	FOCHABERS, 23 HIGH STREET	C(S)	334722	858656
1577	BELLIE	FOCHABERS, 2, 4, 6 MAXWELL STREET	C(S)	334783	858713
1607	BELLIE	TUGNET, TUGNET HOUSE	C(S)	334990	865344
47126	BANFF	SCOTSTOWN, BANFF LINKS, FORMER STORE BUILDING	C(S)	367665	864492
50905	OLD DEER	ADEN COUNTRY PARK, NORTH EAST FOLKLORE ARCHIVE, FORMER LAUNDRY	C(S)	398080	847891
50906	OLD DEER	ADEN COUNTRY PARK, WALLED GARDEN INCLUDING BOTHY, POTTING SHED AND HEAD GARDENER'S HOUSE	C(S)	398321	847879
40438	ROTHES	THE GRANGE (FORMER CHURCH OF SCOTLAND MANSE) AND GARDEN WALLS	C(S)	327607	849245
40311	PORTSOY	THE SQUARE, THE HALL	C(S)	358850	866165
40312	PORTSOY	13, 14 THE SQUARE	C(S)	358865	866165
40149	PORTKNOCKIE	8 HILL STREET	C(S)	348840	868335
40162	PORTKNOCKIE	2 SEAFIELD TERRACE	C(S)	349056	868332
40165	PORTKNOCKIE	1 SEAFIELD STREET	C(S)	349040	868352
40173	PORTKNOCKIE	17 SEAFIELD STREET	C(S)	349042	868486
40180	PORTKNOCKIE	31 SEAFIELD STREET	C(S)	349044	868599
40206	PORTSOY	1, 3 AIRD STREET	C(S)	359138	865937
40210	PORTSOY	11, 13 AIRD STREET, AIRD HOUSE AND GARDEN WALLS	C(S)	359148	865926
40221	PORTSOY	29 CHURCH STREET	C(S)	359029	866030
40232	PORTSOY	84, 86 CHURCH STREET	C(S)	358954	866245
40239	PORTSOY	36 CULLEN STREET	C(S)	358666	866134
40246	PORTSOY	LODGING BRAE, 1, 2, 3, 4 OLD COASTGUARDS HOUSES	C(S)	358998	866264
40258	PORTSOY	9 MAIN STREET	C(S)	359106	866327
40101	PORTKNOCKIE	12 ADMIRALTY STREET	C(S)	349103	868405
40108	PORTKNOCKIE	19, 21 CHURCH STREET	C(S)	348801	868407
40119	PORTKNOCKIE	34 CHURCH STREET	C(S)	348719	868437
40123	PORTKNOCKIE	1, 2 CLIFF TERRACE	C(S)	348675	868482
40125	PORTKNOCKIE	5, 6 CLIFF TERRACE	C(S)	348627	868476
40131	PORTKNOCKIE	11 HIGH STREET	C(S)	348886	868350
40140	PORTKNOCKIE	22, 24 HIGH STREET	C(S)	348793	868379
40140	PORTKNOCKIE	22, 24 HIGH STREET	C(S)	348785	868380
40147	PORTKNOCKIE	15 HILL STREET	C(S)	348827	868338

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39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413467	846607
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413471	846624
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413476	846621
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413494	846617
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413544	846607
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413514	846663
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413487	846668
39846	PETERHEAD	1-11 NEW STREET AND 42 NORTH STREET.	C(S)	413483	846705
39848	PETERHEAD	26 CAIRNTRODDLIE	C(S)	412500	846141
39741	PETERHEAD	3 HARBOUR STREET	C(S)	413552	845889
39746	PETERHEAD	15-17 HARBOUR STREET	C(S)	413618	845951
39748	PETERHEAD	20, 22 HARBOUR STREET	C(S)	413635	845980
39755	PETERHEAD	6 CHARLOTTE STREET AND 47 MAIDEN STREET	C(S)	413161	846045
39763	PETERHEAD	21 CHARLOTTE STREET	C(S)	413309	845965
39789	PETERHEAD	25, 27 MERCHANT STREET	C(S)	413431	845985
39792	PETERHEAD	37 MERCHANT STREET	C(S)	413432	845946
39793	PETERHEAD	39 MERCHANT STREET	C(S)	413432	845936
39795	PETERHEAD	43 MERCHANT STREET	C(S)	413434	845918
39801	PETERHEAD	8 MERCHANT STREET	C(S)	413409	846043
39809	PETERHEAD	28 MERCHANT STREET	C(S)	413412	845938
39812	PETERHEAD	12 UPHILL LANE AND WALL TO SOUTH	C(S)	413373	845954
39679	PETERHEAD	35 BROAD STREET	C(S)	413476	846131
39682	PETERHEAD	61-63 BROAD STREET	C(S)	413563	846110
39691	PETERHEAD	36-38 BROAD STREET	C(S)	413528	846068
39691	PETERHEAD	36-38 BROAD STREET	C(S)	413534	846075
39699	PETERHEAD	23, 25 JAMES STREET	C(S)	413559	846007
39710	PETERHEAD	18, 20 ST. ANDREW STREET	C(S)	413438	846030
39712	PETERHEAD	34, 36 ST. ANDREW STREET	C(S)	413370	846028
37639	MACDUFF	5, 5A UNION ROAD	C(S)	370111	864437
37621	MACDUFF	4 CROOK O'NESS STREET, MACDUFF ARMS	C(S)	370439	864708
37622	MACDUFF	30, 32 CROOK O'NESS STREET	C(S)	370559	864733
35641	KEITH	140 LAND STREET	C(S)	343102	850567
35642	KEITH	162, 164 LAND STREET	C(S)	343117	850660
35642	KEITH	162, 164 LAND STREET	C(S)	343117	850664
35667	KEITH	29, 31 REGENT STREET	C(S)	342645	850890
35667	KEITH	29, 31 REGENT STREET	C(S)	342640	850894
35626	KEITH	13, 15 CHAPEL STREET	C(S)	343063	850240
34939	HUNTLY	16, 18 CASTLE STREET	C(S)	352951	840062
34946	HUNTLY	27 DEVERON STREET WITH PEND TO 25	C(S)	352827	840019
31954	FRASERBURGH	SHALOM, 72 MAIN STREET	C(S)	399146	867485
31955	FRASERBURGH	73 MAIN STREET	C(S)	399134	867493
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399198	867257
31962	FRASERBURGH	7-37 GEORGE STREET	C(S)	399183	867279
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399157	867367
31969	FRASERBURGH	3, 5 BROADSEA ROAD.	C(S)	399356	867201
31883	FRASERBURGH	3 AND A HALF DUKE LANE	C(S)	399849	867257
31884	FRASERBURGH	5 DUKE LANE	C(S)	399842	867255
31893	FRASERBURGH	41 COMMERCE STREET AND 66, 68 CROSS STREET	C(S)	399706	866835
31895	FRASERBURGH	CRAIGIELEA (OLD MANSE) 7 SALTOUN PLACE	C(S)	399659	866777
31912	FRASERBURGH	17 MAIN STREET	C(S)	399258	867263
31914	FRASERBURGH	23 MAIN STREET	C(S)	399241	867291
31917	FRASERBURGH	29 MAIN STREET	C(S)	399219	867321
31920	FRASERBURGH	35 MAIN STREET	C(S)	399193	867356
31925	FRASERBURGH	47 MAIN STREET	C(S)	399151	867434
31930	FRASERBURGH	8, 10 MAIN STREET	C(S)	399311	867249

HB Number	Parish Borough	Address	Category	X	Y
31423	FINDOCHTY	19 NEW STREET	C(S)	346537	868105
31442	FINDOCHTY	2,4 NORTH BLANTYRE STREET	C(S)	346392	868102
31450	FINDOCHTY	5 SEAFIELD STREET	C(S)	345932	867710
31460	FINDOCHTY	10 SEAFIELD STREET	C(S)	345930	867646
31465	FINDOCHTY	2 SILLER STREET	C(S)	346465	868212
31369	FINDOCHTY	12, 14 BURNSIDE STREET	C(S)	346016	867675
31376	FINDOCHTY	13 CASTLE STREET	C(S)	345811	867645
31377	FINDOCHTY	2 CASTLE STREET	C(S)	345909	867724
24727	DUFFTOWN	YORK STREET, POLICE STATION AND POLICE HOUSE WITH REAR WALLS TO HILL STREET	C(S)	332224	840244
23894	CULLEN	147 SEATOWN	C(S)	350871	867177
23908	CULLEN	168 SEATOWN	C(S)	350910	867228
23911	CULLEN	173 SEATOWN	C(S)	350885	867204
23913	CULLEN	175 SEATOWN	C(S)	350870	867214
23919	CULLEN	193 SEATOWN	C(S)	350768	867226
23925	CULLEN	200 SEATOWN	C(S)	350716	867239
23929	CULLEN	204 SEATOWN	C(S)	350763	867249
23941	CULLEN	222 SEATOWN	C(S)	350894	867238
23942	CULLEN	223 SEATOWN	C(S)	350902	867238
23953	CULLEN	237 SEATOWN	C(S)	350991	867233
23764	CULLEN	38, 40 SEAFIELD STREET	C(S)	351211	867126
23773	CULLEN	26 SOUTH CASTLE STREET	C(S)	351191	866988
23796	CULLEN	10, 12 VICTORIA STREET	C(S)	351484	867229
23812	CULLEN	25 SEATOWN (CASTLE TERRACE)	C(S)	350797	867165
23816	CULLEN	31, 32 SEATOWN (CASTLE TERRACE)	C(S)	350738	867190
23818	CULLEN	34 SEATOWN (CASTLE TERRACE) ROYAL OAK HOTEL	C(S)	350706	867206
23853	CULLEN	92 SEATOWN	C(S)	350961	867170
23856	CULLEN	96 SEATOWN	C(S)	350902	867164
23862	CULLEN	104, 104 AND A HALF SEATOWN	C(S)	350946	867173
23872	CULLEN	121 SEATOWN	C(S)	351018	867253
23878	CULLEN	126 SEATOWN	C(S)	351048	867238
23882	CULLEN	130 SEATOWN	C(S)	350984	867213
23712	CULLEN	7 GRANT STREET	C(S)	351139	866974
23719	CULLEN	1, 3 NORTH CASTLE STREET	C(S)	351143	867059
23741	CULLEN	9, 11 SEAFIELD STREET	C(S)	351350	867047
23757	CULLEN	8, 10 SEAFIELD STREET	C(S)	351327	867021
23759	CULLEN	14, 16 SEAFIELD STREET	C(S)	351308	867027
22726	BUCKIE	BUCKPOOL, HARBOUR	C(S)	341812	865677
22737	BUCKIE	60 YARDIE	C(S)	342037	865730
22089	BANFF	18 SANDYHILL ROAD AND REAR YARD WALL	C(S)	368755	863598
22106	BANFF	9 STRAIT PATH, THE BROKEN FIDDLE	C(S)	368927	863998
21976	BANFF	23, 25 CLUNIE STREET	C(S)	368712	864418
21982	BANFF	10 DEVERONSIDE	C(S)	369025	864201
21890	BANFF	2 BRAEHEADS	C(S)	368904	864366
21895	BANFF	1, 3, 5 BRIDGE STREET	C(S)	369138	863933
21913	BANFF	7 CAMPBELL STREET	C(S)	368613	864524
21925	BANFF	16 CAMPBELL STREET	C(S)	368617	864475
21926	BANFF	18 CAMPBELL STREET	C(S)	368616	864469
21936	BANFF	CASTLE STREET TRINITY AND ALVAH CHURCH HALLS	C(S)	368822	864129
21949	BANFF	61, 63 CASTLE STREET	C(S)	368839	864365
19933	ABERCHIRDER	12 THE SQUARE	C(S)	362447	852388
19774	OLD DEER	13, 15, 17 ABBEY STREET	C(S)	397757	847686
19616	MARNOCH	MILL OF KINNAIRDY, MILLER'S HOUSE	C(S)	361102	850088
19596	ORDIQUHILL	ORDIQUHILL SCHOOL AND SCHOOLHOUSE	C(S)	356661	856677
19599	ORDIQUHILL	PARK HOME FARM	C(S)	358706	857211

HB Number	Parish Borough	Address	Category	X	Y
18782	ORDIQUHILL	CORNHILL, 5 AND 7 MID STREET	C(S)	358612	858202
18790	ORDIQUHILL	CORNHILL, MID STREET, ORDIQUHILL AND CORNHILL PARISH CHURCH (CHURCH OF SCOTLAND) CHURCH WITH RETAINING WALL AND GATEPIERS	C(S)	358681	858302
18792	ORDIQUHILL	CORNHILL, POLICE STATION, KNOCKVIEW WITH BOUNDARY WALLS, GATES, RAILINGS AND GATEPIERS	C(S)	358465	858073
16452	TYRIE	NETHERTOWN, THE WORKSHOP	C(S)	387595	857318
16537	ST FERGUS	INVERUGIE BRIDGE OVER RIVER UGIE	C(S)	410044	848175
16553	STRICHEN	THE YETTS, HIGH STREET	C(S)	394826	855037
16562	STRICHEN	ALL SAINTS' EPISCOPAL CHURCH, HALL AND SCHOOLHOUSE, NORTH STREET	C(S)	394602	855383
16563	STRICHEN	40, 42 NORTH STREET	C(S)	394685	855296
16572	STRICHEN	MANSE OF STRICHEN	C(S)	394671	854142
16344	PETERHEAD	9 HARBOUR STREET	C(S)	412759	847254
16355	PETERHEAD	2 QUEEN'S ROAD	C(S)	413427	842371
16356	PETERHEAD	6 QUEEN'S ROAD	C(S)	413415	842355
16374	PETERHEAD	7 BRIDGE STREET	C(S)	413439	842330
16382	PETERHEAD	11 EARL'S COURT	C(S)	413421	842265
16415	TURRIFF	MUIRESK EAST LODGE	C(S)	371139	849375
16418	TURRIFF	MUIRESK WEST LODGE	C(S)	370517	849229
16439	TYRIE	64 HIGH STREET	C(S)	388253	855991
16056	OLD DEER	SKELMUIR HOUSE	C(S)	398076	842880
16072	OLD DEER	THE LAUNDRY, PITFOUR (MR. WATSON)	C(S)	397743	849253
16075	OLD DEER	MILL OF CLACKRIACH, HOUSE	C(S)	393578	847788
16091	OLD DEER	WEST LODGE, ADEN	C(S)	397853	847922
16112	MONQUHITTER	EVERTON OF AUCHRY, FARMHOUSE.	C(S)	379689	851927
16147	RATHEN	OLD BRIDGE OF MEMSIE OVER WATER OF PHILORTH	C(S)	397628	861818
16151	NEW DEER	SAVOCH OF DEER CHURCH.	C(S)	393075	840119
16153	NEW DEER	GOD'S ACRE (CHURCHYARD OF DEER).	C(S)	388591	846869
15896	PITSLIGO	PITTULIE, 24 HIGH STREET	C(S)	395844	867710
15901	PITSLIGO	PITTULIE, 35 HIGH STREET	C(S)	395933	867636
15906	PITSLIGO	PITTULIE, 43 HIGH STREET	C(S)	395849	867704
15917	PITSLIGO	PITTULIE, 2 HIGH STREET	C(S)	396015	867603
15874	PITSLIGO	PITTULIE, 50 HIGH STREET	C(S)	396044	867618
15876	PITSLIGO	PITTULIE, 53 HIGH STREET	C(S)	396067	867591
15543	RATHVEN	LETTERFOURIE, GATEPIERS AND GATES AT MAIN ENTRANCE	C(S)	344297	862778
15639	SPEYMOUTH	DIPPLE BURIAL GROUND	C(S)	332836	857909
14859	URQUHART	GARMOUTH, SPEY STREET, STAINSON HOUSE	C(S)	334095	864596
14837	URQUHART	GARMOUTH, HIGH STREET, THE POPLARS	C(S)	333946	864483
14843	URQUHART	KINGSTON, BEACH ROAD, chr(39)THE ROCKET HOUSEchr(39) (FORMER ROCKET STATION)	C(S)	333697	865581
13720	FYVIE	TIFTY, WATERWHEELHOUSE.	C(S)	377595	840781
13605	FORGLEN	FORGLEN, THE KENNELS	C(S)	369729	851250
10597	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, TELEPHONE KIOSK, BY POST OFFICE	C(S)	355551	863790
10634	FORDYCE	18 SANDEND, THE HAVEN AND FISHING STORE	C(S)	355476	866488
10639	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, STAND PUMP ON PAVEMENT BESIDE ROSEAU	C(S)	355522	863748
10654	FORDYCE	MILL OF TOWIE FARMHOUSE	C(S)	352343	864811
10671	FORDYCE	33 SANDEND	C(S)	355505	866446
10684	FORDYCE	47 SANDEND	C(S)	355525	866429
10687	FORDYCE	53 SANDEND	C(S)	355496	866376
10538	GAMRIE	4 CROVIE	C(S)	380727	865398
10579	GAMRIE	MILL OF MELROSE, BRIDGE OVER BURN OF MELROSE	C(S)	373781	864165
9603	FORGLEN	CARNOUSIE, MILL OF CARNOUSIE	C(S)	366200	850131

HB Number	Parish Borough	Address	Category	X	Y
9389	KING EDWARD	GLENCAIRN, WITH REAR SERVICE COTTAGE, GARDEN WALLS AND GATES AND GATEPIERS	C(S)	370886	857798
9415	LONGSIDE	BRUCE ARMS HOTEL, MAIN STREET AND INN BRAE	C(S)	403725	847423
9418	LONGSIDE	VIEWFIELD, INVERQUHOMERY RD.	C(S)	403659	847240
9420	LONGSIDE	CAIRNGALL HOUSE AND GARDEN WALLS	C(S)	404198	847349
9429	LONGSIDE	42, 44, 46 AND 48 SOUTH STREET	C(S)	400077	848002
9250	LONMAY	CRIMONMOGATE HOUSE KENNELS	C(S)	403411	858441
8702	KEITH	CROOKSMILL BRIDGE OVER FORGIE BURN	C(S)	340970	851590
8707	GRANGE	GRANGE PARISH CHURCH (CHURCH OF SCOTLAND) AND ENCLOSING WALL	C(S)	348052	851541
6767	FORDYCE	13 AND A HALF SANDEND	C(S)	355473	866496
3210	BOYNDIE	WHITEHILLS, 5 LOW SHORE AND STORE	C(S)	365320	865419
3220	BOYNDIE	WHITEHILLS, 11 BOYNE STREET	C(S)	365264	865376
3230	BOYNDIE	WHITEHILLS, 9 AND 9A KNOCK STREET	C(S)	365578	865533
3230	BOYNDIE	WHITEHILLS, 9 AND 9A KNOCK STREET	C(S)	365587	865537
3231	BOYNDIE	WHITEHILLS, 11 KNOCK STREET, ELANESS	C(S)	365599	865541
3168	BOYNDIE	WHITEHILLS, 13 WEST END	C(S)	365186	865428
3171	BOYNDIE	WHITEHILLS, 17 WEST END	C(S)	365190	865410
3178	BOYNDIE	WHITEHILLS, 16 LOW SHORE	C(S)	365344	865422
3188	BOYNDIE	WHITEHILLS, 28 LOW SHORE	C(S)	365387	865459
3012	CAIRNIE	CAIRNIE PARISH CHURCH, CAIRNIE	C(S)	348986	844552
3023	AUCHTERLESS	TEMPLAND, FARMHOUSE.	C(S)	370876	840628
3032	CRIMOND	HILLHEAD FARMHOUSE	C(S)	406243	857132
2889	ALVAH	DUNLUGAS, WALLED GARDEN	C(S)	366468	855817
2731	ABERDOUR	51 PENNAN	C(S)	384455	865484
2761	ABERDOUR	18, 19 PENNAN	C(S)	384601	865463
2769	ABERDOUR	ABERDOUR HOUSE, WALLED GARDEN	C(S)	390939	863891
2770	ABERDOUR	ABERDOUR HOUSE, DOVECOT	C(S)	390777	863422
2356	ABERLOUR	CRAIGELLACHIE, 1 AND ALLANDALE (R) VICTORIA STREET	C(S)	328870	845038
2205	DESKFORD	POST OFFICE AND 6 BERRYHILLOCK	C(S)	350450	860842
2226	CULLEN	CULLEN HOUSE, LINTMILL LODGE	C(S)	351183	865548
1590	BELLIE	FOCHABERS, 20 THE SQUARE WITH GARDEN WALLS AND OUTBUILDINGS	C(S)	334512	858831
1591	BELLIE	FOCHABERS, 22 THE SQUARE, HADLOW HOUSE	C(S)	334505	858822
1599	BELLIE	FOCHABERS, 87 AND 89 HIGH STREET	C(S)	334405	858840
1603	BELLIE	FOCHABERS, 36 HIGH STREET	C(S)	334702	858692
35	ABERDOUR	GLASSLAW BRIDGE OVER THE BURN OF GLASSLAW (OR GONAR BURN)	C(S)	385584	859276
49840	LONMAY	LONMAY, ST COLUMBA'S INCLUDING LYCHGATE	C(S)	403692	860031
49855	NEW DEER	STATION ROAD JOINERY WORKS (FORMER MAUD AUCTION MART), INCLUDING BOUNDARY WALLS AND GATEPIERS	C(S)	392518	848052
49990	NEW DEER	BRUCKLAY CASTLE, PRIVATE BURIAL GROUND WITH OBELISK	C(S)	391199	849779
50145	PETERHEAD	QUEEN STREET, ST ANDREW'S CHURCH OF SCOTLAND PARISH CHURCH INCLUDING BOUNDARY WALLS, RAILINGS AND GATES	C(S)	413079	846502
51121	BOHARM	CRAIGELLACHIE, FIDDICHSIDE INN	C(S)	329352	845126
42183	TURRIFF	FORMER NORTH OF SCOTLAND MILLING CO. BUILDING	C(S)	372810	849245
40288	PORTSOY	5 SHOREHEAD	C(S)	358877	866280
40302	PORTSOY	43 SOUTH HIGH STREET	C(S)	358819	866079
40308	PORTSOY	SOY PARK, SCOUT HUT (FORMER RAILWAY STATION)	C(S)	358934	865687
40318	PORTSOY	3 WOOD STREET, 'CLIFTON'	C(S)	359124	866362
40153	PORTKNOCKIE	7 PULTENEY STREET	C(S)	348812	868434
40168	PORTKNOCKIE	7 SEAFIELD STREET	C(S)	349040	868398
40172	PORTKNOCKIE	15 SEAFIELD STREET	C(S)	349042	868470
40197	PORTKNOCKIE	32 SEAFIELD STREET	C(S)	349058	868605
40199	PORTKNOCKIE	2 STATION ROAD	C(S)	348617	868430
40213	PORTSOY	19, 21 AIRD STREET	C(S)	359161	865896
40231	PORTSOY	60 CHURCH STREET	C(S)	358985	866182

HB Number	Parish Borough	Address	Category	X	Y
40254	PORTSOY	3 MAIN STREET	C(S)	359068	866353
40102	PORTKNOCKIE	14 ADMIRALTY STREET	C(S)	349103	868418
40110	PORTKNOCKIE	31, 33 CHURCH STREET	C(S)	348719	868421
40115	PORTKNOCKIE	26 CHURCH STREET	C(S)	348795	868424
40121	PORTKNOCKIE	38 CHURCH STREET	C(S)	348681	868444
40129	PORTKNOCKIE	7 HIGH STREET	C(S)	348917	868345
40141	PORTKNOCKIE	26 HIGH STREET	C(S)	348768	868383
40143	PORTKNOCKIE	30 HIGH STREET	C(S)	348737	868390
40144	PORTKNOCKIE	32 HIGH STREET	C(S)	348729	868396
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413494	846581
39840	PETERHEAD	1-5 GLADSTONE ROAD AND 34 NORTH STREET	C(S)	413431	846646
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413488	846618
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413522	846612
39843	PETERHEAD	1-17 ALMANYTHIE ROAD AND 36 NORTH STREET	C(S)	413435	846662
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413504	846665
39845	PETERHEAD	2-12 NEW STREET AND 40 NORTH STREET.	C(S)	413456	846691
39846	PETERHEAD	1-11 NEW STREET AND 42 NORTH STREET.	C(S)	413455	846709
39737	PETERHEAD	BUCHAN FISHING DEVELOPMENT COMPANY, BRIDGE STREET AND 2-6 FARMERS LANE.	C(S)	413703	846066
39758	PETERHEAD	BAY VIEW, 15 CHARLOTTE STREET	C(S)	413250	846009
39767	PETERHEAD	13-17 ROSE STREET AND 30 32 JAMES STREET.	C(S)	413522	846041
39777	PETERHEAD	4 JAMAICA STREET AND 1 ST. ANDREW STREET	C(S)	413506	846014
39800	PETERHEAD	6 MERCHANT STREET	C(S)	413403	846057
39805	PETERHEAD	20 MERCHANT ST STREET	C(S)	413407	845983
39808	PETERHEAD	24 MERCHANT STREET	C(S)	413411	845946
39822	PETERHEAD	68-72 QUEEN STREET	C(S)	413188	846384
39824	PETERHEAD	78-80 QUEEN STREET	C(S)	413152	846414
39829	PETERHEAD	8 NORTH STREET	C(S)	413451	846497
39678	PETERHEAD	29-33 BROAD STREET.	C(S)	413463	846138
39706	PETERHEAD	27 ST. ANDREWS STREET AND 14 UPHILL LANE	C(S)	413371	846009
39721	PETERHEAD	25, 27 MAIDEN STREET	C(S)	413261	846033
37641	MACDUFF	1, 2, 3 WEST SKENE STREET	C(S)	370569	864790
37628	MACDUFF	DUFF STREET, BODIE FOUNTAIN	C(S)	370649	864458
35682	KEITH	UNION BRIDGE OVER RIVER ISLA	C(S)	342811	850784
35635	KEITH	42 LAND STREET, FORMER STEADING AT REAR AND GARDEN WALL	C(S)	343058	850147
34930	HUNTLY	22, 23 THE SQUARE	C(S)	352910	840016
34930	HUNTLY	22, 23 THE SQUARE	C(S)	352898	840024
34948	HUNTLY	31 DEVERON STREET	C(S)	352810	840028
31948	FRASERBURGH	52 MAIN STREET	C(S)	399211	867464
31952	FRASERBURGH	64 MAIN STREET	C(S)	399182	867459
31956	FRASERBURGH	78 MAIN STREET	C(S)	399116	867501
31957	FRASERBURGH	80 MAIN STREET	C(S)	399098	867514
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399202	867301
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399196	867306
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399173	867343
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399153	867374
31968	FRASERBURGH	2-28 NOBLE STREET	C(S)	399288	867206
31879	FRASERBURGH	HARBOUR WORKS OFFICE AT MIDDLE JETTY	C(S)	399875	866960
31886	FRASERBURGH	9 DUKE LANE	C(S)	399846	867269
31899	FRASERBURGH	27, 29 SALTOUN PLACE	C(S)	399694	866711
31911	FRASERBURGH	15 MAIN STREET	C(S)	399267	867250
31922	FRASERBURGH	41 MAIN STREET	C(S)	399173	867386
31936	FRASERBURGH	24 MAIN STREET	C(S)	399240	867324
31395	FINDOCHTY	5 MID STREET	C(S)	345979	867731
31402	FINDOCHTY	8 MID STREET	C(S)	345965	867705

HB Number	Parish Borough	Address	Category	X	Y
31421	FINDOCHTY	15 NEW STREET	C(S)	346526	868123
31435	FINDOCHTY	26 NEW STREET	C(S)	346490	868085
31438	FINDOCHTY	5 NORTH BLANTYRE STREET	C(S)	346410	868095
31439	FINDOCHTY	7 NORTH BLANTYRE STREET	C(S)	346409	868081
31440	FINDOCHTY	9,11 NORTH BLANTYRE STREET	C(S)	346413	868066
31441	FINDOCHTY	13, 15 NORTH BLANTYRE STREET	C(S)	346417	868049
31447	FINDOCHTY	14 NORTH BLANTYRE STREET	C(S)	346403	868033
31452	FINDOCHTY	9 SEAFIELD STREET	C(S)	345938	867679
31456	FINDOCHTY	2 SEAFIELD STREET	C(S)	345918	867707
31467	FINDOCHTY	1, 3 SOUTH BLANTYRE STREET	C(S)	346388	867991
31468	FINDOCHTY	5, 7 SOUTH BLANTYRE STREET	C(S)	346402	868007
31378	FINDOCHTY	4 CASTLE STREET	C(S)	345893	867714
31388	FINDOCHTY	CHURCH STREET, CHURCH OF SCOTLAND	C(S)	346351	868146
31389	FINDOCHTY	1, 2 CHURCH STREET	C(S)	346348	868102
23909	CULLEN	171 SEATOWN	C(S)	350886	867214
23933	CULLEN	211 SEATOWN	C(S)	350803	867234
23938	CULLEN	218 SEATOWN	C(S)	350859	867239
23774	CULLEN	12 SOUTH DESKFORD STREET AND INDUSTRIAL CHIMNEY STACK AT REAR	C(S)	351203	866892
23785	CULLEN	1 VICTORIA STREET	C(S)	351517	867169
23791	CULLEN	19 VICTORIA STREET	C(S)	351411	867274
23816	CULLEN	31, 32 SEATOWN (CASTLE TERRACE)	C(S)	350748	867187
23827	CULLEN	59 SEATOWN AND STORE	C(S)	350727	867214
23833	CULLEN	68 SEATOWN	C(S)	350783	867211
23843	CULLEN	80 SEATOWN	C(S)	350847	867161
23850	CULLEN	89 SEATOWN	C(S)	350924	867160
23869	CULLEN	117 SEATOWN	C(S)	351039	867217
23874	CULLEN	123 SEATOWN	C(S)	351042	867272
23880	CULLEN	128 SEATOWN	C(S)	351004	867228
23749	CULLEN	43, 45 SEAFIELD STREET	C(S)	351148	867216
23751	CULLEN	49, 51 SEAFIELD STREET	C(S)	351125	867236
22735	BUCKIE	48 YARDIE	C(S)	342053	865745
22736	BUCKIE	50 YARDIE	C(S)	342062	865739
22092	BANFF	SEAFIELD STREET, YMCA HALL	C(S)	368807	864252
22108	BANFF	8,10 STRAIT PATH	C(S)	368919	863985
21964	BANFF	72, 74 CASTLE STREET	C(S)	368863	864403
21973	BANFF	3 CLUNIE STREET	C(S)	368825	864432
21997	BANFF	2 GEORGE STREET	C(S)	368882	864336
21999	BANFF	4 GEORGE STREET	C(S)	368899	864345
22002	BANFF	HARBOUR PLACE, OLD CUSTOMS HOUSE	C(S)	368934	864403
22011	BANFF	12 HIGH SHORE	C(S)	369024	864055
22023	BANFF	HIGH STREET, ST MARY'S CHURCH HALL	C(S)	368897	863813
22057	BANFF	20, 22 LOW STREET	C(S)	368989	863884
22059	BANFF	28 LOW STREET (WITH 48 BRIDGE STREET)	C(S)	368993	863915
22078	BANFF	7 QUAYSIDE	C(S)	368891	864492
22083	BANFF	9 SANDYHILL ROAD	C(S)	368811	863672
21888	BANFF	10 BOYNDIE STREET	C(S)	368803	864002
21891	BANFF	4 BRAEHEADS, ST JOHN'S MASONIC HALL INCLUDING BOUNDARY WALLS	C(S)	368896	864390
21897	BANFF	9 BRIDGE STREET	C(S)	369125	863931
21909	BANFF	46 BRIDGE STREET	C(S)	369001	863914
21911	BANFF	3 CAMPBELL STREET	C(S)	368624	864547
21921	BANFF	6 CAMPBELL STREET	C(S)	368637	864531
21922	BANFF	8 CAMPBELL STREET	C(S)	368633	864519
21951	BANFF	79, 81 CASTLE STREET	C(S)	368843	864432
19924	ABERCHIRDER	SOUTH STREET, KINNAIRDY LODGE WITH BOUNDARY WALL AND	C(S)	362895	852496

HB Number	Parish Borough	Address	Category	X	Y
		RAILINGS			
19796	PETERHEAD	4 QUEEN'S ROAD	C(S)	413423	842362
19594	ORDIQUHILL	CORNHILL, VICTORIA COTTAGE WITH RETAINING WALL AND RAILINGS	C(S)	358474	858042
19608	MARNOCH	LONGLAUGH	C(S)	361863	848550
16533	ST FERGUS	KIRKTOWN OF ST. FERGUS	C(S)	409150	851970
16555	STRICHEN	DAIRY (GORDON) HIGH STREET	C(S)	394500	855300
16560	STRICHEN	25 BRIDGE STREET AND S. GIBSON'S SHOP	C(S)	394654	855113
16561	STRICHEN	ALL SAINT'S EPISCOPAL CHURCH, WEST STREET	C(S)	394581	855393
16566	STRICHEN	BRIDGE OVER NORTH UGIE WATER (A 981) AT S.W. END OF BRIDGE STREET	C(S)	394562	855037
16339	PETERHEAD	15 ROCKSLEY DRIVE	C(S)	413331	842219
16342	PETERHEAD	5 HARBOUR STREET	C(S)	412829	847235
16348	PETERHEAD	5 QUEEN'S ROAD	C(S)	413437	842354
16352	PETERHEAD	13 QUEEN'S ROAD	C(S)	413386	842305
16373	PETERHEAD	5 BRIDGE STREET	C(S)	413440	842322
16384	PETERHEAD	6-12 EARL'S COURT	C(S)	413376	842270
16385	PETERHEAD	14 EARL'S COURT	C(S)	413361	842259
16400	TURRIFF	HATTON CASTLE GARDEN WALLS WITHIN POLICIES	C(S)	375779	846959
16414	TURRIFF	MUIRESK HOME FARM (ORIGINAL BUILDINGS)	C(S)	370449	849628
16065	OLD DEER	SOUTH EAST BRIDGE, THE LAKE PITFOUR (CAPTAIN CURZON)	C(S)	397891	848623
16066	OLD DEER	NORTH-WEST BRIDGE, THE LAKE, PITFOUR (CAPTAIN CURZON)	C(S)	397284	848937
16081	OLD DEER	NEW BRIDGE OF GAVAL OVER NORTH UGIE WATER	C(S)	399950	851320
16083	OLD DEER	2, 4 ABBEY STREET	C(S)	397828	847691
16090	OLD DEER	THE COTTAGE, RUSSELL STREET	C(S)	397681	847599
16095	OLD DEER	BRIDGE OVER SOUTH UGIE WATER IN ADEN POLICIES S OF ITEMS 15 AND 20	C(S)	397953	847725
16121	RATHEN	WEST LODGE, MORMOND (CORTES) HOUSE	C(S)	399967	859918
16142	RATHEN	RATHEN MANSE OFFICES.	C(S)	400152	861018
15899	PITSLIGO	PITTULIE, 29 HIGH STREET, HOUSE AND STORE	C(S)	395890	867657
15900	PITSLIGO	PITTULIE, 34 HIGH STREET	C(S)	395924	867637
15916	PITSLIGO	PITTULIE, 1 HIGH STREET	C(S)	396027	867601
16024	MARNOCH	CHAPELTOWN	C(S)	362616	847480
15868	ROTHES	ORTON, ST MARY'S	C(S)	332287	855360
15872	PITSLIGO	PITTULIE, 47 HIGH STREET	C(S)	396022	867622
15875	PITSLIGO	PITTULIE, 52 HIGH STREET	C(S)	396053	867602
15881	PITSLIGO	PITTULIE, 59 HIGH STREET AND REAR COTTAGE	C(S)	396062	867572
15617	ROTHIEMAY	ROTHIEMAY HOUSE, DOVECOT	C(S)	355035	848276
14850	URQUHART	KINGSTON, LEIN ROAD THE YEWS	C(S)	333777	865460
14866	URQUHART	KINGSTON, LEIN ROAD, MORVEN	C(S)	333807	865449
14848	URQUHART	KINGSTON, LEIN ROAD, PEBBLE COTTAGE (FORMERLY WEST END COTTAGE)	C(S)	333590	865535
13882	OLD DEER	4,6 KIRKGATE	C(S)	397855	847629
13594	INVERKEITHNY	INVERKEITHNY ROW OF 4 COTTAGES	C(S)	362875	846932
13601	FORGLEN	FORGLEN, GARDEN COTTAGE	C(S)	369600	852167
12878	FORGLEN	UNITED FREE MANSE	C(S)	366791	851736
10604	FORDYCE	FORDYCE VILLAGE, 50 CHURCH STREET AND ENCLOSING WALLS	C(S)	355481	863689
10616	FORDYCE	FORDYCE VILLAGE, SCHOOL ROAD, ACADEMY HOUSE, EAST WING	C(S)	355606	863679
10622	FORDYCE	DURN OLD TOLL COTTAGE	C(S)	359057	864876
10627	FORDYCE	FORDYCE VILLAGE, BRIDGE STREET, ANVIL COTTAGE	C(S)	355503	863844
10658	FORDYCE	FISH SMOKING KILN OPPOSITE GABLE END OF 1A SANDEND	C(S)	355492	866569
10661	FORDYCE	3 SANDEND	C(S)	355472	866551
10663	FORDYCE	6 SANDEND (FORMERLY 5 AND 6 SANDEND)	C(S)	355472	866537
10673	FORDYCE	35 SANDEND	C(S)	355506	866458
10683	FORDYCE	46 SANDEND	C(S)	355509	866429
10685	FORDYCE	48 SANDEND	C(S)	355508	866421

HB Number	Parish Borough	Address	Category	X	Y
9604	FORGLEN	CARNOUSIE, NORTH LODGE AND GATEPIERS	C(S)	367313	851122
9609	FORGLEN	CARNOUSIE, WOODHEAD	C(S)	366917	849156
9389	KING EDWARD	GLENCAIRN, WITH REAR SERVICE COTTAGE, GARDEN WALLS AND GATES AND GATEPIERS	C(S)	370892	857786
9053	HUNTLY	BURNFIELD FARMHOUSE	C(S)	354523	847662
8704	KEITH	NEWMILL, MILL OF NEWMILL	C(S)	343870	852172
8705	KEITH	NEWMILL, WAR MEMORIAL CLOCK TOWER	C(S)	343519	852527
3211	BOYNDIE	WHITEHILLS, 6 LOW SHORE	C(S)	365270	865416
3218	BOYNDIE	WHITEHILLS, 7 BOYNE STREET	C(S)	365245	865380
3228	BOYNDIE	WHITEHILLS, 5 KNOCK STREET	C(S)	365554	865525
3239	BOYNDIE	LINTMILL OF BOYNE, OLD LINTMILL AND GARDEN WALL AT SOUTH	C(S)	360754	864616
3187	BOYNDIE	WHITEHILLS, 27 LOW SHORE	C(S)	365379	865447
3189	BOYNDIE	WHITEHILLS, 29 LOW SHORE	C(S)	365384	865476
3033	CRIMOND	DIPPLEBRAE FARMHOUSE	C(S)	407903	856694
3035	CRIMOND	MAINS OF HADDO STEADING	C(S)	407769	857173
2938	DRUMBLADE	LESSENDRUM HOUSE	C(S)	357856	841565
2726	ABERDOUR	38 PENNAN	C(S)	384523	865472
2729	ABERDOUR	45, 46, 47 PENNAN, ANCHOR CLOSE	C(S)	384491	865481
2755	ABERDOUR	5 PENNAN	C(S)	384670	865488
2758	ABERDOUR	11 PENNAN	C(S)	384632	865479
2203	DESKFORD	2 BERRYHILLOCK	C(S)	350431	860804
2208	DESKFORD	11 BERRYHILLOCK	C(S)	350466	860905
2225	CULLEN	CULLEN HOUSE, LINTMILL BRIDGE OVER THE BURN OF CULLEN	C(S)	351154	865536
1629	BELLIE	GORDON CASTLE, OLD FOCHABERS MARKET CROSS, ALSO KNOWN AS THE JOUGS AND THE WHIPPING POST	C(S)	334781	859229
1556	BELLIE	FOCHABERS, 2, 4, 6 EAST STREET	C(S)	334802	858729
1561	BELLIE	FOCHABERS, 17 HIGH STREET AND 7 EAST STREET	C(S)	334768	858623
1565	BELLIE	FOCHABERS, 41, 43 HIGH STREET	C(S)	334665	858680
1579	BELLIE	FOCHABERS, 38 MAXWELL STREET	C(S)	334594	858822
1601	BELLIE	FOCHABERS, HIGH STREET, PRINGLE CHURCH (FORMER FREE CHURCH)	C(S)	334767	858686
40	BOYNDIE	WHITEHILLS, 24A LOW SHORE	C(S)	365372	865435
50133	DRUMBLADE	LESSENDRUM HOME FARM	C(S)	357556	841439
42166	TURRIFF	15 PUTACHIE PATH (AT CORNER OF CASTLE STREET AND SESSION CLOSE)	C(S)	372266	849829
42172	TURRIFF	BRITISH LEGION 2 HIGH STREET (HIGH STREET SECTION ONLY)	C(S)	372539	849759
42177	TURRIFF	39-41 MAIN STREET S.E. CORNER OF SQUARE	C(S)	372532	849937
40271	PORTSOY	26 SCHOOLHENDRY STREET, THE BRIG	C(S)	359062	866244
40304	PORTSOY	12 SOUTH HIGH STREET, THE ELMS, WITH GARDEN WALLS	C(S)	358849	865983
40317	PORTSOY	2 WOOD STREET	C(S)	359105	866376
40154	PORTKNOCKIE	9 PULTENEY STREET	C(S)	348793	868438
40155	PORTKNOCKIE	11 PULTENEY STREET	C(S)	348780	868441
40169	PORTKNOCKIE	9 SEAFIELD STREET	C(S)	349041	868417
40175	PORTKNOCKIE	21 SEAFIELD STREET	C(S)	349042	868519
40178	PORTKNOCKIE	27 SEAFIELD STREET	C(S)	349044	868568
40208	PORTSOY	9 AIRD STREET AND STEADING	C(S)	359146	865949
40213	PORTSOY	19, 21 AIRD STREET	C(S)	359169	865905
40227	PORTSOY	40, 42 CHURCH STREET	C(S)	359011	866131
40229	PORTSOY	52, 54 CHURCH STREET	C(S)	358997	866157
40237	PORTSOY	14 CULBERT STREET	C(S)	358921	866157
40240	PORTSOY	38 CULLEN ST, 'MARINE VILLA' AND REAR GARDEN WALL	C(S)	358657	866137
40246	PORTSOY	LODGING BRAE, 1, 2, 3, 4 OLD COASTGUARDS HOUSES	C(S)	359015	866274
40089	PORTKNOCKIE	1 ADMIRALTY STREET	C(S)	349087	868341
40091	PORTKNOCKIE	7 ADMIRALTY STREET	C(S)	349087	868386
40118	PORTKNOCKIE	32 CHURCH STREET	C(S)	348733	868435
40126	PORTKNOCKIE	1 HIGH STREET	C(S)	348969	868341

HB Number	Parish Borough	Address	Category	X	Y
40130	PORTKNOCKIE	9 HIGH STREET	C(S)	348902	868348
40133	PORTKNOCKIE	8 HIGH STREET	C(S)	348922	868357
40142	PORTKNOCKIE	28 HIGH STREET, MEETING HALL	C(S)	348751	868386
40145	PORTKNOCKIE	34, 36 HIGH STREET	C(S)	348705	868394
40146	PORTKNOCKIE	38, 40 HIGH STREET	C(S)	348671	868401
39833	PETERHEAD	28 NORTH STREET	C(S)	413441	846573
39837	PETERHEAD	1-10 GREAT STUART STREET	C(S)	413531	846559
39838	PETERHEAD	4-34 PORT HENRY ROAD	C(S)	413481	846584
39839	PETERHEAD	9-39 PORT HENRY ROAD	C(S)	413552	846589
39841	PETERHEAD	7-35 GLADSTONE ROAD.	C(S)	413514	846627
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413512	846615
39842	PETERHEAD	12-42 GLADSTONE ROAD	C(S)	413533	846609
39844	PETERHEAD	2-18 ALMANYTHIE ROAD AND 38 NORTH STREET	C(S)	413452	846674
39724	PETERHEAD	43 MAIDEN STREET	C(S)	413185	846049
39738	PETERHEAD	RICHARD IRVIN + SONS, BRIDGE STREET.	C(S)	413723	846043
39753	PETERHEAD	2 CHARLOTTE STREET AND 51, 53 MAIDEN STREET	C(S)	413131	846060
39757	PETERHEAD	11-14 CHARLOTTE STREET	C(S)	413222	846014
39766	PETERHEAD	7, 11 ROSE STREET	C(S)	413528	846049
39789	PETERHEAD	25, 27 MERCHANT STREET	C(S)	413432	845981
39794	PETERHEAD	41 MERCHANT STREET	C(S)	413432	845928
39820	PETERHEAD	30-34 QUEEN STREET	C(S)	413304	846281
39820	PETERHEAD	30-34 QUEEN STREET	C(S)	413298	846284
39825	PETERHEAD	82-86 QUEEN STREET	C(S)	413137	846430
39831	PETERHEAD	18-20 NORTH STREET	C(S)	413444	846553
39676	PETERHEAD	ROYAL HOTEL 23, 27 BROAD STREET	C(S)	413433	846134
39678	PETERHEAD	29-33 BROAD STREET.	C(S)	413471	846128
39680	PETERHEAD	53-55 BROAD STREET	C(S)	413544	846115
39700	PETERHEAD	18, 20 JAMES STREET	C(S)	413577	846026
39709	PETERHEAD	16 ST. ANDREW STREET	C(S)	413446	846031
37641	MACDUFF	1, 2, 3 WEST SKENE STREET	C(S)	370577	864784
37641	MACDUFF	1, 2, 3 WEST SKENE STREET	C(S)	370584	864780
37642	MACDUFF	4 WEST SKENE STREET	C(S)	370593	864773
35630	KEITH	46, 48 DUFF STREET, (ENTRANCE TO NO 48 FACING MAR PLACE) AND GARDEN WALL TO MAR PLACE	C(S)	342373	850793
35633	KEITH	143, 145 LAND STREET AND 14 UNION STREET	C(S)	343139	850674
34930	HUNTLY	22, 23 THE SQUARE	C(S)	352891	840029
34938	HUNTLY	14 CASTLE STREET	C(S)	352945	840054
31942	FRASERBURGH	36 MAIN STREET	C(S)	399198	867390
31943	FRASERBURGH	38 MAIN STREET	C(S)	399194	867396
31959	FRASERBURGH	84 MAIN STREET	C(S)	399078	867522
31964	FRASERBURGH	4, 4-1/2 GEORGE STREET AND 30 NOBLE STREET	C(S)	399265	867201
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399243	867240
31965	FRASERBURGH	6-46 GEORGE STREET	C(S)	399167	867351
31885	FRASERBURGH	7 DUKE LANE	C(S)	399855	867270
31887	FRASERBURGH	2 DUKE LANE	C(S)	399871	867251
31890	FRASERBURGH	1, 3 CAROLINE PLACE AND 89 HIGH STREET	C(S)	399525	867140
31900	FRASERBURGH	31, 33, 35 SALTOUN PLACE	C(S)	399693	866704
31918	FRASERBURGH	31 MAIN STREET	C(S)	399207	867336
31921	FRASERBURGH	39 MAIN STREET	C(S)	399176	867381
31926	FRASERBURGH	49 MAIN STREET	C(S)	399143	867441
31928	FRASERBURGH	53 MAIN STREET	C(S)	399126	867472
31929	FRASERBURGH	6 MAIN STREET	C(S)	399322	867243
31937	FRASERBURGH	26 MAIN STREET	C(S)	399234	867332
31406	FINDOCHTY	2 NETHERTON TERRACE	C(S)	345912	867765
31437	FINDOCHTY	1, 3 NORTH BLANTYRE STREET	C(S)	346406	868113

HB Number	Parish Borough	Address	Category	X	Y
31442	FINDOCHTY	2,4 NORTH BLANTYRE STREET	C(S)	346392	868099
31457	FINDOCHTY	4 SEAFIELD STREET	C(S)	345923	867686
31467	FINDOCHTY	1, 3 SOUTH BLANTYRE STREET	C(S)	346382	867982
31364	FINDOCHTY	5, 7 BURNSIDE STREET	C(S)	346026	867701
31368	FINDOCHTY	8, 10 BURNSIDE STREET	C(S)	346012	867705
31394	FINDOCHTY	1, 3 MID STREET	C(S)	345979	867748
23901	CULLEN	157 SEATOWN	C(S)	350844	867205
23939	CULLEN	219 SEATOWN	C(S)	350871	867236
23767	CULLEN	50, 52 SEAFIELD STREET, TRUSTEE SAVINGS BANK	C(S)	351173	867158
23769	CULLEN	9 SOUTH CASTLE STREET	C(S)	351249	866970
23775	CULLEN	18, 20 SOUTH DESKFORD STREET LAWTIE'S MORTIFICATION	C(S)	351190	866907
23789	CULLEN	15 VICTORIA STREET	C(S)	351437	867251
23794	CULLEN	2, 4 VICTORIA STREET	C(S)	351518	867195
23810	CULLEN	18, 20 SEATOWN (CASTLE TERRACE)	C(S)	350833	867147
23811	CULLEN	21, 22, 23, 24 SEATOWN (CASTLE TERRACE)	C(S)	350817	867154
23811	CULLEN	21, 22, 23, 24 SEATOWN (CASTLE TERRACE)	C(S)	350817	867154
23811	CULLEN	21, 22, 23, 24 SEATOWN (CASTLE TERRACE)	C(S)	350803	867156
23813	CULLEN	26, 27 SEATOWN (CASTLE TERRACE)	C(S)	350797	867166
23814	CULLEN	29 SEATOWN (CASTLE TERRACE)	C(S)	350772	867174
23815	CULLEN	30 SEATOWN (CASTLE TERRACE)	C(S)	350763	867175
23822	CULLEN	49 SEATOWN	C(S)	350662	867223
23829	CULLEN	61 SEATOWN	C(S)	350745	867203
23847	CULLEN	85, 87 SEATOWN	C(S)	350883	867166
23852	CULLEN	91 SEATOWN	C(S)	350946	867166
23854	CULLEN	94 SEATOWN	C(S)	350974	867174
23877	CULLEN	125 SEATOWN	C(S)	351044	867249
23879	CULLEN	127 SEATOWN	C(S)	351036	867234
23885	CULLEN	133 SEATOWN	C(S)	350942	867203
23888	CULLEN	137 SEATOWN	C(S)	350932	867190
23892	CULLEN	144 SEATOWN, GOSPEL HALL	C(S)	350897	867197
23893	CULLEN	146 SEATOWN	C(S)	350883	867173
23719	CULLEN	1, 3 NORTH CASTLE STREET	C(S)	351145	867055
23732	CULLEN	23 REIDHAVEN STREET, THE OLD SCHOOLHOUSE	C(S)	351294	867193
23745	CULLEN	27, 29 SEAFIELD STREET	C(S)	351210	867160
22722	BUCKIE	BUCKIE HARBOUR, CLIFF TERRACE, LEADING LIGHT	C(S)	343093	865826
22731	BUCKIE	41 YARDIE	C(S)	342085	865760
22732	BUCKIE	43 YARDIE	C(S)	342083	865764
22087	BANFF	14, 15 SANDYHILL ROAD	C(S)	368790	863635
22091	BANFF	SANDYHILL ROAD, RC PRESBYTERY	C(S)	368705	863552
21968	BANFF	94 CASTLE STREET AND REAR GARDEN WALL	C(S)	368860	864509
21976	BANFF	23, 25 CLUNIE STREET	C(S)	368717	864419
22045	BANFF	31, 33 LOW STREET	C(S)	368953	863920
22058	BANFF	24 AND 26 LOW STREET AND 55 BRIDGE STREET	C(S)	368990	863889
22061	BANFF	32 LOW STREET	C(S)	368989	863940
22079	BANFF	QUAYSIDE, WAREHOUSE	C(S)	368880	864516
21892	BANFF	8 AND 9 BRAEHEADS	C(S)	368859	864459
21899	BANFF	39 BRIDGE STREET	C(S)	369023	863899
21904	BANFF	10 BRIDGE STREET, ROYAL OAK HOTEL	C(S)	369083	863939
21905	BANFF	28, 30, 32 BRIDGE STREET	C(S)	369042	863931
21914	BANFF	9 CAMPBELL STREET	C(S)	368607	864511
21939	BANFF	27, 27A CASTLE STREET	C(S)	368841	864176
19921	ABERCHIRDER	69 NORTH STREET	C(S)	362463	852496
19774	OLD DEER	13, 15, 17 ABBEY STREET	C(S)	397747	847684
18960	PETERHEAD	RICHMOND FARMHOUSE	C(S)	410734	845833
18782	ORDIQUHILL	CORNHILL, 5 AND 7 MID STREET	C(S)	358618	858205

HB Number	Parish Borough	Address	Category	X	Y
16544	STRICHEN	chr(39)ROMANchr(39) BRIDGE, HOWFORD, OVER NORTH UGIE WATER.	C(S)	395326	854637
16349	PETERHEAD	7 QUEEN'S ROAD	C(S)	413423	842343
16351	PETERHEAD	11 QUEEN'S ROAD	C(S)	413394	842309
16365	PETERHEAD	SANDFORD LODGE WALLED GARDEN	C(S)	412353	843457
16372	PETERHEAD	3 BRIDGE STREET	C(S)	413426	842322
16379	PETERHEAD	OUTBUILDINGS BETWEEN 7 AND 9 EARL'S COURT	C(S)	413441	842291
16383	PETERHEAD	2 AND 4 EARL'S COURT	C(S)	413388	842284
16404	TURRIFF	OLD TOLL HOUSE DARRA LODGE	C(S)	374476	847091
16407	TURRIFF	WRAE FARMHOUSE	C(S)	372510	852886
16432	TYRIE	81 HIGH STREET	C(S)	388368	855674
16442	TYRIE	NEW PITSLIGO PARISH CHURCH, CHURCH STREET.	C(S)	387985	856128
16446	TYRIE	BOYNDLIE HOUSE	C(S)	391668	862056
16073	OLD DEER	THE CHAPEL, PITFOUR (MR. WATSON)	C(S)	398195	849121
16089	OLD DEER	MANSE OF OLD DEER, OFFICES	C(S)	397658	847861
16092	OLD DEER	BRIDGE OVER SOUTH UGIE WATER IN ADEN POLICIES E OF BRIDGE OF DEER	C(S)	397948	847593
16101	OLD DEER	THE SYCAMORES, QUARTALEHOUSE	C(S)	397543	846429
16109	MONQUHITTER	BALTHANGIE COTTAGE.	C(S)	384053	850981
16117	OLD DEER	3, 5 ABBEY STREET	C(S)	397795	847676
16157	NEW DEER	MILL OF AUCHREDDIE.	C(S)	389130	846929
15902	PITSLIGO	PITTULIE, 37 HIGH STREET	C(S)	395944	867633
15831	ROTHES	ORTON, FARM HOME STEADING (EXCLUDING COTTAGES)	C(S)	331257	854045
15878	PITSLIGO	PITTULIE, 55, 56 HIGH STREET	C(S)	396100	867559
15879	PITSLIGO	PITTULIE, 57 HIGH STREET	C(S)	396117	867541
15887	PITSLIGO	PITTULIE, 5 HIGH STREET	C(S)	395965	867612
15538	RATHVEN	FINDOCHTY CASTLE COTTAGE	C(S)	345553	867359
14849	URQUHART	KINGSTON, LEIN ROAD, SUNNYBANK	C(S)	333750	865466
14877	URQUHART	URQUHART VILLAGE, BURIAL GROUND	C(S)	328859	862648
13472	KING EDWARD	BYTHE HOUSE DOVECOTE	C(S)	381732	856597
12877	FORGLEN	UNITED FREE CHURCH	C(S)	366807	851759
10602	FORDYCE	FORDYCE VILLAGE, 42 CHURCH STREET	C(S)	355508	863748
10632	FORDYCE	15 SANDEND	C(S)	355499	866505
10638	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, ROSEAU AND GARDEN WALLS	C(S)	355519	863731
10642	FORDYCE	FORDYCE VILLAGE, CHURCH STREET, DOLEN	C(S)	355569	863778
10644	FORDYCE	FORDYCE VILLAGE, CHURCH STREET/SCHOOL ROAD, FORMER SHOP AND COTTAGES	C(S)	355610	863778
10656	FORDYCE	SANDEND, HARBOUR AND BREAKWATER	C(S)	355548	866540
10659	FORDYCE	FISH SMOKING KILN OPPOSITE GABLE END OF 1B SANDEND	C(S)	355487	866577
10668	FORDYCE	11 SANDEND	C(S)	355492	866515
10675	FORDYCE	37 SANDEND AND FISHING STORE (OPPOSITE)	C(S)	355520	866455
10678	FORDYCE	40 SANDEND	C(S)	355541	866456
10690	FORDYCE	57 SANDEND, INCHARD	C(S)	355479	866291
10580	GAMRIE	MINNONIE FARMHOUSE	C(S)	377817	860230
9605	FORGLEN	CARNOUSIE, RED LOGE AND GATEPIERS	C(S)	366971	849358
9390	KING EDWARD	GLENCAIRN, STEADING	C(S)	370938	857795
9428	LONGSIDE	LAMBHILLOCK, SOUTH STREET	C(S)	400075	848161
9457	FORGUE	FORGUE PARISH CHURCH - CHURCHYARD	C(S)	361091	845074
9461	FORGUE	ST. MARGARET'S EPISCOPAL CHURCH, FORGUE	C(S)	361161	844605
9249	LONMAY	CRIMONMOGATE HOUSE WALLED GARDEN	C(S)	403181	858520
6764	FORDYCE	1B SANDEND	C(S)	355475	866573
3212	BOYNDIE	WHITEHILLS, 7 LOW SHORE	C(S)	365273	865409
3170	BOYNDIE	WHITEHILLS, 15 WEST END	C(S)	365196	865413
3172	BOYNDIE	WHITEHILLS, 18 WEST END	C(S)	365206	865399
3183	BOYNDIE	WHITEHILLS, 22 LOW SHORE	C(S)	365377	865424
3190	BOYNDIE	WHITEHILLS, 30 LOW SHORE	C(S)	365393	865478

HB Number	Parish Borough	Address	Category	X	Y
3200	BOYNDIE	WHITEHILLS, 14 KNOCK STREET	C(S)	365633	865522
3024	AUCHTERLESS	KNOCKLEITH HOUSE.	C(S)	370342	840489
3041	CRIMOND	RATTRAY HOUSE, LAUNDRY (DISUSED) N. OF HOUSE	C(S)	409307	856246
3050	BANFF	INVERBOYNDIE, JANDAR AND BRANDON VIEW WITH GARDEN WALLS	C(S)	366932	864429
3050	BANFF	INVERBOYNDIE, JANDAR AND BRANDON VIEW WITH GARDEN WALLS	C(S)	366920	864423
2935	DRUMBLADE	DRUMBLADE PARISH CHURCHYARD.	C(S)	358834	840248
2720	ABERDOUR	31, 32 PENNAN	C(S)	384555	865468
2728	ABERDOUR	43 PENNAN	C(S)	384503	865474
2751	ABERDOUR	PENNAN, CRAIGIELAR COTTAGES, SEAVIEW AND DENVIEW	C(S)	384665	865380
2752	ABERDOUR	1 PENNAN	C(S)	384688	865497
2765	ABERDOUR	23 PENNAN	C(S)	384583	865476
2204	DESKFORD	4 BERRYHILLOCK	C(S)	350468	860827
1548	BELLIE	FOCHABERS, 83 HIGH STREET, MONAIR	C(S)	334428	858829
1563	BELLIE	FOCHABERS, 25 HIGH STREET	C(S)	334716	858660
1571	BELLIE	FOCHABERS, 54, 54A HIGH STREET	C(S)	334620	858744
1574	BELLIE	FOCAHBERS, 70 HIGH STREET, FULTON HOUSE	C(S)	334460	858838
1598	BELLIE	FOCHABERS, 85 HIGH STREET	C(S)	334412	858836
50145	PETERHEAD	QUEEN STREET, ST ANDREW'S CHURCH OF SCOTLAND PARISH CHURCH INCLUDING BOUNDARY WALLS, RAILINGS AND GATES	C(S)	413066	846487

A.7 Conservation Areas within the Land Study Area

Name	Area (hectares)
BUCKIE YARDIE	0.8
KEITH MID STREET	5.8
KEITH FIFE KEITH	4.6
FINDOCHTY	22.5
KINGSTON	9.0
GARMOUTH	10.0
FOCHABERS	10.2
CULLEN SEATOWN	20.2
CULLEN VICTORIA STREET	2.8
PORTKNOCKIE	17.5
BERRYHILLOCK	5.2
BANFF (ARTICLE 4 - BUS SHELTERS)	191.8
BANFF - SCOTSTOWN (ARTICLE 4 - BUS SHELTERS)	0.8
BROADSEA FRASERBURGH (ARTICLE 4-BUS SHELTERS)	8.7
ABERCHIRDER (ARTICLE 4 - BUS SHELTERS)	6.3
CRIMONMOGATE (ARTICLE 4 - BUS SHELTERS)	146.3
CAIRNBULG/INVERALLOCHY (ARTICLE 4 - BUS SHELTERS)	27.3
CROVIE (ARTICLE 4 - BUS SHELTERS)	6.7
FORDYCE (ARTICLE 4 - BUS SHELTERS)	12.2
GARDENSTOWN (ARTICLE 4 - BUS SHELTERS)	19.9
PENNAN (ARTICLE 4 - BUS SHELTERS)	34.3
PORTSOY (ARTICLE 4 - BUS SHELTERS)	101.3
SANDEND (ARTICLE 4 - BUS SHELTERS)	2.7
WHITEHILLS (ARTICLE 4 - BUS SHELTERS)	20.8
PETERHEAD BUCHANHAVEN (ARTICLE 4-BUS SHELTERS)	3.4
PETERHEAD ROANHEADS (ARTICLE 4-BUS SHELTERS)	4.4
PETERHEAD CENTRAL (ARTICLE 4-BUS SHELTERS)	9.0
BODDAM (ARTICLE 4 - BUS SHELTERS)	11.0
OLD DEER (ARTICLE 4 - BUS SHELTERS)	154.0
STRICHEN (ARTICLE 4 - BUS SHELTERS)	24.8

A.8 Historic Gardens and Designated Landscapes within the Land Study Area

Name	Authority	Area (Hectares)
CULLEN HOUSE	MORAY	335
INNES HOUSE	MORAY	180
GORDON CASTLE (BOG OF GIGHT)	MORAY	792
CRAIGSTON CASTLE	ABERDEENSHIRE	80
THE OLD MANSE OF MARNOCH	ABERDEENSHIRE	1
DUFF HOUSE	ABERDEENSHIRE	91

A.9 Summary of Cable Corridor 1 – Peterhead to Rattray

From the existing substation at Peterhead Power Station, the 500 m corridor heads northwest, avoiding the urbanised and moderately populated periphery of Peterhead, following an alignment similar to an existing overhead power line through the Upperton Industrial Estate and across farmland to Lochside. The corridor bears west following the unclassified road to Nether Kinmundy for approximately 750 m, avoiding a small woodland, before bearing north and running to the east of the William Coutts Transport Depot/Industrial Estate, broadly following existing field boundaries. The corridor continues north across the A950 through farmland between Longside Airfield and Forehill Waterworks, generally following field boundaries and avoiding St John's Wood, before crossing the River Ugie at a location of advantageous gradient. The corridor proposed avoids the highly constrained area of Inverugie, which contains several Scheduled Monuments, such as Ravenscraig Castle and Castle Hill Motte, and a band of semi-natural woodland.

The corridor continues north on an alignment following an existing unclassified road, avoiding a steep and wooded area south of Kirktown and St Fergus, before bearing northeast along another unclassified road at Gallowhills. The corridor deviates from the road to avoid Kirktown and St Fergus, and associated Listed Buildings, bearing north through farmland to follow an alignment parallel to and west of the A90, avoiding the St Fergus Gas Terminal and nearby wooded areas. The corridor crosses the A90 to reach the Rattray landfall site, following an alignment between the gas terminal and Rattray Wood which minimises length of cable within the Area of Landscape Significance.

The table below summarises the environmental features recorded within the 500 m corridor, together with the findings of the Environmental Risk Assessment.

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
Natural Resources	Watercourses	Cable Corridor 1 crosses a number of drains and minor watercourses	2	4	8
	Sites of Special Scientific Interest (Geological)	Loch of Strathbeg Site of Special Scientific Interest. However, to avoid double counting, this feature is assessed under Nature Conservation	N/A	N/A	N/A
	Study of	Rattray Head, Loch of Strathbeg	2	2	4

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
	Environmentally Sensitive Areas Sites (Geological / Geomorphological)	Classic raised spit which in its development through varying land-sea relationship has led to the establishment of a loch. Associated beach and complex foredune system. Historical association with old burgh of Rattray. Forms part of Loch of Strathbeg Site of Special Scientific Interest			
		Stirling Hill-Dudwick Longhaven Coast Plio-Pleistocene deposits - unlike Windy Hills, includes substantial flint component. Again under active research. Boddam to Port Erroll coast in an interesting granite series noted for its erosion features. Forms part of Bullers of Buchan Coast Site of Special Scientific Interest (N.B. Bullers of Buchan Coast Site of Special Scientific Interest does not fall within Cable Corridor 1)			
Nature Conservation	Special Protection Areas	Buchan Ness to Collieston Coast Special Protection Area	4	3	12
	Special Areas of Conservation	There are no Special Areas of Conservation within Cable Corridor 1	0	0	0
	Sites of Special Scientific Interest (Ecological)	Loch of Strathbeg Site of Special Scientific Interest	3	1	3
	National Nature Reserves	There are no National Nature Reserves within the land study area	0	0	0
	Ramsar Sites	There are no Ramsar Sites within Cable Corridor 1	0	0	0
	Study of Environmentally Sensitive Areas Sites (Ecological)	Loch of Strathbeg and Rattray Head Locality for a very rare loch margin plant, *Ranunculus reptans*. The loch and its margins are of considerable ecological interest, and a long list of plant species is available. This shallow -water loch with a considerable input of blown sand. Forms part of Loch of Strathbeg Site of Special Scientific Interest	2	4	8
		St Fergus Links			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		Good and interesting coastal flora. Calcicolous species are present owing to the contribution of shell sand to the dunes. The area is rich in orchids, and is a locality for a scarce northern coastal sedge, *Carex maritima*. Forms part of Loch of Strathbeg Site of Special Scientific Interest			
		St. Fergus Dunes This site contains forward and rear sand dunes, a dune slack and a series of lagoons. The invertebrate fauna is well known due to three recent surveys and is a rich, characteristic fauna of such areas			
		Strathbeg (& St Fergus Dunes) Over 10,000 ducks, geese and swans at this site on passage and in winter. Breeding wildfowl. Rare birds (migrants). Forms part of Loch of Strathbeg Site of Special Scientific Interest			
	Scottish Wildlife Trust Reserves	There are no Scottish Wildlife Trust Reserves within Cable Corridor 1	0	0	0
	Local Nature Conservation Sites	There are no Local Nature Conservation Sites within Cable Corridor 1	0	0	0
	Local Nature Reserves	There are no Local Nature Reserves within Cable Corridor 1	0	0	0
Historic Environment	Scheduled Monuments	Rattray Line, pill box 650m E of Rattray House	4	2	8
		Rattray Line, pill box 585m SE of Rattray House			
		Rattray Line, pill box 640m SE of Rattray House			
	Listed Buildings	1 QUEEN'S ROAD (Grade B)	3	1	3
		WELLINGTON PLACE, FARMHOUSE (Grade B)			
		12A EARLS COURT (Grade B)			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		14 QUEEN'S ROAD (Grade C(S))	2	2	4
		PARISH CHURCH OF BODDAM MANSE TERRACE (Grade C(S))			
		17 QUEEN'S ROAD (Grade C(S))			
		18, 20 QUEEN'S ROAD (Grade C(S))			
		11 BRIDGE STREET (Grade C(S))			
		1A QUEEN'S ROAD (Grade C(S))			
		BRETHREN MEETING HOUSE. 26 GORDON STREET (Grade C(S))			
		THREE SEATS - JUNCTION HARBOUR STREET AND QUEENS ROAD (Grade C(S))			
		DESERTED HOUSE BETWEEN 9 EARL'S COURT AND chr(39)BRIDGENDchr(39) (Grade C(S))			
		2 AND 4 EARL'S COURT (Grade C(S))			
		COCKLAW MAINS FARMHOUSE (Grade C(S))			
		9 QUEEN'S ROAD (Grade C(S))			
		10 QUEEN'S ROAD (Grade C(S))			
		RETAINING WALL HARBOUR STREET-BRIDGE STREET (Grade C(S))			
		1 BRIDGE STREET (Grade C(S))			
		9 BRIDGE STREET (Grade C(S))			
		5 EARL'S COURT (Grade C(S))			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		2 BRIDGE STREET AND EARL'S COURT (Grade C(S))			
		22 QUEEN'S ROAD (Grade C(S))			
		8 QUEEN'S ROAD (Grade C(S))			
		3 EARL'S COURT (Grade C(S))			
		3 QUEEN'S ROAD (Grade C(S))			
		15 QUEEN'S ROAD (Grade C(S))			
		16 QUEEN'S ROAD (Grade C(S))			
		1 EARL'S COURT (Grade C(S))			
		2 QUEEN'S ROAD (Grade C(S))			
		6 QUEEN'S ROAD (Grade C(S))			
		7 BRIDGE STREET (Grade C(S))			
		11 EARL'S COURT (Grade C(S))			
		4 QUEEN'S ROAD (Grade C(S))			
		5 QUEEN'S ROAD (Grade C(S))			
		13 QUEEN'S ROAD (Grade C(S))			
		5 BRIDGE STREET (Grade C(S))			
		7 QUEEN'S ROAD (Grade C(S))			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		11 QUEEN'S ROAD (Grade C(S))			
		3 BRIDGE STREET (Grade C(S))			
		OUTBUILDINGS BETWEEN 7 AND 9 EARL'S COURT (Grade C(S))			
		2 AND 4 EARL'S COURT (Grade C(S))			
	Conservation Areas	BODDAM (ARTICLE 4 - BUS SHELTERS)	3	3	9
	Historic Gardens and Designed Landscapes	There are no Historic Gardens and Designed Landscapes within Cable Corridor 1	0	0	0
	Properties in Care	There are no Properties in Care within Cable Corridor 1	0	0	0
Landscape	National Parks	There are no National Parks within the land study area	0	0	0
	Areas of Landscape Significance	There is an Area of Landscape Significance within Cable Corridor 1	3	4	12
	Areas of Great Landscape Value	There are no Areas of Great Landscape Value within Cable Corridor 1	0	0	0
	Historic Gardens and Designed Landscapes	There are no Historic Gardens and Designed Landscapes within Cable Corridor 1	0	0	0
	National Scenic Areas	There are no National Scenic Areas within the land study area	0	0	0
	Country Parks	There are no Country Parks within Cable Corridor 1	0	0	0
Other	Long Distance Routes	There are no Long Distance Routes within Cable Corridor 1	0	0	0

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
	Tree Preservation Orders	There are no Tree Preservation Orders within Cable Corridor 1	0	0	0
	Draft Core Paths	There are Draft Core Paths within Cable Corridor 1	1	4	4
	Ancient Woodland	There are no areas of Ancient Woodland within Cable Corridor 1	0	0	0
	Semi-natural Woodland	There are no areas of Semi-Natural Woodland within Cable Corridor 1	0	0	0
	Areas at Risk of Flooding from Rivers	There are Areas at Risk of Flooding from Rivers within Cable Corridor 1	2	4	8
	Areas at Risk of Flooding from the Sea	There are no Areas at Risk of Flooding from the Sea within Cable Corridor 1	0	0	0
	Areas at Risk of Flooding from both Rivers and the Sea	There are no Areas at Risk of Flooding from both Rivers and the Sea within Cable Corridor 1	0	0	0
	Natural Burial Grounds	There are no Natural Burial Grounds within the land study area	0	0	0
Risk Rating Total for Cable Corridor 1					83

The Risk Rating Total for Cable Corridor 1 is influenced by those features that cross the entire width of the 500m corridor (e.g. Areas of Landscape Significance, Draft Core Paths and Areas at Risk of Flooding from Rivers). It is anticipated that the Risk Rating afforded to features such as Buchan Ness to Collieston Coast Special Protection Area, Scheduled Monuments, Listed Buildings and Boddam (Article 4 – Bus Shelters) Conservation Area could be reduced through further study and refinement of the cable alignment.

A.10 Summary of Cable Corridor 2 – Peterhead to Fraserburgh

From the existing substation at Peterhead Power Station, the 500 m corridor heads northwest, avoiding the urbanised and moderately populated periphery of Peterhead, and continuing on a northwesterly bearing to avoid the ornithologically designated Rora Moss and St Fergus Moss areas, as well as the busy coastal area with scattered woodlands, Conservation Area, Area of Landscape Significance and St Fergus Gas Terminal, before bearing north toward Fraserburgh.

The corridor follows a northwesterly alignment similar to an existing overhead power line through the Upperton Industrial Estate and across farmland to Lochside, then bears west following the unclassified road to Nether Kinmundy for approximately 2 km before heading northwest to cross the A950, avoiding the wooded strip of the Burn of Faichfield. The corridor continues northwest passing north of Flushing to cross the South Ugie Water, passing between wooded areas and alongside sand and gravel pits west of the Bridge of Rora, before crossing the North Ugie Water at an area of advantageous gradient.

East of Hythie the corridor bears north, generally following field boundaries, and avoiding residential property and wooded areas, continuing east of New Leeds along a similar alignment to the A952, which runs to the west. The corridor crosses the A90 west of Cortes Village, avoiding areas of ancient woodland, Listed Buildings and Scheduled Monuments to a point approximately 700 m east of Rathen. At this point, the corridor diverges to reach the various landfall sites between Charlestown and Fraserburgh.

From the divergence point, the Inverallochy landfall site would be reached by bearing northeast for approximately 5 km, avoiding ancient woodlands to the southeast, and generally following field boundaries and close to unclassified roads before crossing the B9033 to the east of Gowanhill, and reaching the landfall site.

The Philorth landfall site would be reached by bearing north and slightly east from the divergence point near Rathen, following a direct alignment for approximately 4 km, avoiding ancient woodland and a Site of Special Scientific Interest to the west and minimising the length of cable within the Area of Landscape Significance.

The corridors to the Fraserburgh Beach and Fraserburgh Golf Car Park landfall sites continue north from the divergence point, bearing slightly westwards and crossing over and running parallel to the A90 on its western side to avoid ancient woodland and Listed Buildings. The corridor bears east immediately south of Fraserburgh, passing between an area of semi-natural woodland and a cemetery before reaching the landfall sites adjacent the B9033.

The table below summarises the environmental features recorded within the 500 m corridor, together with the findings of the Environmental Risk Assessment.

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
Natural Resources	Watercourses	Cable Corridor 2 crosses a number of drains and minor watercourses	2	4	8
	Sites of Special Scientific Interest (Geological)	There are no Geological Sites of Special Scientific Interest within Cable Corridor 2	0	0	0
	Study of Environmentally Sensitive Areas Sites (Geological / Geomorphological)	West Haven to Inzie Head Exposures of magmatic Inzie Head Gneisses (lower Dalradian), forming the core of the Banff Nappe and the crest of the Buchan Anticline	2	4	8
		Stirling Hill-Dudwick Longhaven Coast Plio-Pleistocene deposits - unlike Windy Hills, includes substantial flint component. Again under active research. Boddam to Port Erroll coast in an interesting granite series noted for its erosion features. Forms part of Bullers of Buchan Coast Site of Special Scientific Interest (N.B. Bullers of Buchan Coast Site of Special Scientific Interest does not fall within Cable Corridor 2)			
	Local Nature Conservation Sites	Fraserburgh Bay Structural and metamorphic geology. Breeding bird interest. However, to avoid double counting, this feature is assessed under Nature Conservation	N/A	N/A	N/A
Nature Conservation	Special Protection Areas	Buchan Ness to Collieston Coast Special Protection Area	4	3	12
	Special Areas of Conservation	There are no Special Areas of Conservation within Cable Corridor 2	0	0	0
	Sites of Special Scientific Interest (Ecological)	There are no Ecological Sites of Special Scientific Interest within Cable Corridor 2	0	0	0

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
	National Nature Reserves	There are no National Nature Reserves within the land study area	0	0	0
	Ramsar Sites	There are no Ramsar sites within Cable Corridor 2	0	0	0
	Study of Environmentally Sensitive Areas Sites (Ecological)	There are no Ecological Study of Environmentally Sensitive Areas Sites within Cable Corridor 2	0	0	0
	Scottish Wildlife Trust Reserves	There are no Scottish Wildlife Trust Reserves within Cable Corridor 2	0	0	0
	Local Nature Conservation Sites	Fraserburgh Bay Structural and metamorphic geology. Breeding bird interest	2	4	8
	Local Nature Reserves	Waters of Philorth Designated for saltmarsh, dunes and grassland	2	4	8
Historic Environment	Scheduled Monuments	Fraserburgh Cemetery, pill box 280m ENE of Kirkton Cottages	4	1	4
		Inverallochy Castle			
	Listed Buildings	PHILORTH DOVECOT ON KINBOG FARM (Grade B)	3	2	6
		1 QUEEN'S ROAD (Grade B)			
		WELLINGTON PLACE, FARMHOUSE (Grade B)			
		INVERALLOCHY CASTLE (Grade B)			
		12A EARLS COURT (Grade B)			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		PHILORTH CHURCHYARD WITHIN FRASERBURGH CEMETERY (Grade B)			
		14 QUEEN'S ROAD (Grade C(S))	2	2	4
		PARISH CHURCH OF BODDAM MANSE TERRACE (Grade C(S))			
		17 QUEEN'S ROAD (Grade C(S))			
		18, 20 QUEEN'S ROAD (Grade C(S))			
		11 BRIDGE STREET (Grade C(S))			
		1A QUEEN'S ROAD (Grade C(S))			
		KININMONTH CHURCH (Grade C(S))			
		BRETHREN MEETING HOUSE. 26 GORDON STREET (Grade C(S))			
		THREE SEATS - JUNCTION HARBOUR STREET AND QUEENS ROAD (Grade C(S))			
		DESERTED HOUSE BETWEEN 9 EARL'S COURT AND chr(39)BRIDGENDchr(39) (Grade C(S))			
		2 AND 4 EARL'S COURT (Grade C(S))			
		COCKLAW MAINS FARMHOUSE (Grade C(S))			
		9 QUEEN'S ROAD (Grade C(S))			
		10 QUEEN'S ROAD (Grade C(S))			
		RETAINING WALL HARBOUR STREET-BRIDGE STREET (Grade C(S))			
		1 BRIDGE STREET (Grade C(S))			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		9 BRIDGE STREET (Grade C(S))			
		5 EARL'S COURT (Grade C(S))			
		2 BRIDGE STREET AND EARL'S COURT (Grade C(S))			
		22 QUEEN'S ROAD (Grade C(S))			
		8 QUEEN'S ROAD (Grade C(S))			
		NORTH SCHOOL CROFT BRIDGE OVER WATER OF PHILORTH (Grade C(S))			
		3 EARL'S COURT (Grade C(S))			
		3 QUEEN'S ROAD (Grade C(S))			
		15 QUEEN'S ROAD (Grade C(S))			
		16 QUEEN'S ROAD (Grade C(S))			
		1 EARL'S COURT (Grade C(S))			
		KINGLASSER OLD FARMHOUSE (NOW STORE) (Grade C(S))			
		2 QUEEN'S ROAD (Grade C(S))			
		6 QUEEN'S ROAD (Grade C(S))			
		7 BRIDGE STREET (Grade C(S))			
		11 EARL'S COURT (Grade C(S))			
		4 QUEEN'S ROAD (Grade C(S))			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		5 QUEEN'S ROAD (Grade C(S))			
		13 QUEEN'S ROAD (Grade C(S))			
		5 BRIDGE STREET (Grade C(S))			
		7 QUEEN'S ROAD (Grade C(S))			
		11 QUEEN'S ROAD (Grade C(S))			
		3 BRIDGE STREET (Grade C(S))			
		OUTBUILDINGS BETWEEN 7 AND 9 EARL'S COURT (Grade C(S))			
		2 AND 4 EARL'S COURT (Grade C(S))			
	Conservation Areas	BODDAM (ARTICLE 4 - BUS SHELTERS)	3	3	9
	Historic Gardens and Designed Landscapes	There are no Historic Gardens and Designed Landscapes within Cable Corridor 2	0	0	0
	Properties in Care	There are no Properties in Care within Cable Corridor 2	0	0	0
Landscape	National Parks	There are no National Parks within the land study area	0	0	0
	Areas of Landscape Significance	There is an Area of Landscape Significance within Cable Corridor 2	3	4	12
	Areas of Great Landscape Value	There are no Areas of Great Landscape Value within Cable Corridor 2	0	0	0
	Historic Gardens and Designed	There are no Historic Gardens and Designed Landscapes within Cable Corridor 2	0	0	0

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
	Landscapes				
	National Scenic Areas	There are no National Scenic Areas within the land study area	0	0	0
	Country Parks	There are no Country Parks within Cable Corridor 2	0	0	0
Other	Long Distance Routes	There are no Long Distance Routes within Cable Corridor 2	0	0	0
	Tree Preservation Orders	There are no Tree Preservation Orders within Cable Corridor 2	0	0	0
	Draft Core Paths	There are Draft Core Paths within Cable Corridor 2	1	4	4
	Ancient Woodland	There are no areas of Ancient Woodland within Cable Corridor 2	0	0	0
	Semi-natural Woodland	There are no areas of Semi-Natural Woodland within Cable Corridor 2	0	0	0
	Areas at Risk of Flooding from Rivers	There are Areas at Risk of Flooding from Rivers within Cable Corridor 2	2	4	8
	Areas at Risk of Flooding from the Sea	There are no Areas at Risk of Flooding from the Sea within Cable Corridor 2	0	0	0
	Areas at Risk of Flooding from both Rivers and the Sea	There are no Areas at Risk of Flooding from both Rivers and the Sea within Cable Corridor 2	0	0	0
	Natural Burial Grounds	There are no Natural Burial Grounds within the land study area	0	0	0
Risk Rating Total for Cable Corridor 2					91

The Risk Rating Total for Cable Corridor 2 is influenced by those features that cross the entire width of the 500m corridor (e.g. Water of Philorth Local Nature Reserve, Fraserburgh Bay Local Nature Conservation Site, Areas of Landscape Significance, Draft Core Paths and Areas at Risk of Flooding from Rivers). It is anticipated that the Risk Rating afforded to the corridor would be reduced if the landfall site at Inverallochy was chosen. Furthermore, this Risk Rating afforded to features such as Buchan Ness to Collieston Coast Special Protection Area, Scheduled Monuments, Listed Buildings and Boddam (Article 4 – Bus Shelters) Conservation Area could be reduced through further study and refinement of the cable alignment.

A.11 Summary of Cable Corridor 3 – Peterhead to Portgordon, Sandend and Inverboyndie

From the existing substation at Peterhead Power Station, the 500 m corridor initially heads northwest, avoiding the urbanised and moderately populated periphery of Peterhead, following an alignment similar to an existing overhead power line through the Upperton Industrial Estate and across farmland to Lochside. The corridor bears west from here, following the alignment of unclassified roads for approximately 6.5 km, staying to the south of Longside and avoiding its numerous Listed Buildings. The corridor continues west through farmland, generally following existing boundaries, on an alignment that would avoid the highly constrained areas of Old Deer and Mintlaw to the north, and the extensive ancient woodland to the northwest of Old Deer, whilst passing north of Stuartfield. The corridor passes to the south of Maud before bearing north to cross the B9029 and A981, passing between areas of ancient woodland.

After crossing the A981, the corridor follows a more westerly bearing along the alignment of existing unclassified roads for approximately 8 km, diverting around New Byth to avoid residential and wooded areas before reverting to a road alignment bearing west for a further 6.5 km to pass south of the ancient woodland, Historic Garden and Designated Landscape, and Listed Buildings of Gallow Hill. Beyond Gallow Hill, the corridor bears northwest alternatively crossing farmland and roads and tracks for 8 km, on an alignment avoiding property, ancient woodland, semi-natural woodland, Tree Preservation Orders and Listed Buildings, to reach a crossing point of the River Deveron having advantageous gradients, located to the west of Balchers. From the crossing point, the corridor bears northwest following the alignment of an existing road for 2 km before heading west for 1 km through farmland to avoid ancient woodland and semi-natural woodland and reaching the A97 in the vicinity of its junction with the B9121, from where the corridor diverges to reach the landfall sites.

Inverboyndie landfall site lies approximately 4 km north of the divergence point. The corridor follows the B9121 for approximately 1.5 km before passing through farmland to approach Inverboyndie from the south along a route having advantageous gradient and passing between areas of ancient woodland. The corridor crosses the A98 immediately east of Inverboyndie and continues into farmland to reach landfall site.

Sandend landfall site lies approximately 12 km northwest of the divergence point. The corridor bears north, following the B9121 for approximately 2.5 km, before taking a more westerly bearing to cross the A98 and follow the approximate line of existing overhead power cables for 8.5 km, avoiding ancient woodland and crossing a disused airfield in the process. The corridor continues through farmland, avoiding areas of ancient woodland and keeping south of the urbanised area of Portsoy and associated Conservation Area and Listed Buildings, before leaving the route of the overhead power cables just south of Sandend to bear directly north, crossing the A98 to approach Sandend landfall site via open farmland of steep gradient.

Portgordon landfall site lies approximately 26.5 km west of the divergence point. The corridor follows the alignment of an unclassified road for approximately 4.5 km, bearing west and avoiding ancient woodland before heading into open farmland,

generally following field boundaries to keep north of Cornhill with its associated Listed Buildings and nearby areas of ancient woodland and Site of Special Scientific Interest. Beyond Cornhill, the corridor continues west for approximately 3.5 km, crossing the B9033 and B9022 via farmland and following existing tracks where possible, before bearing north for 1.5 km to avoid areas of ancient woodland and follow an unclassified road. The corridor bears west again following unclassified roads before crossing open farmland to pick a route through areas of semi-natural woodland around Berryhillock and the Kirktown of Deskford, continuing beyond to follow the alignment of unclassified roads for another 5 km avoiding areas of ancient woodland. Just south of the Hill of Maud, the corridor bears northwest for 3.5 km, avoiding ancient woodland, other wooded areas and Listed Buildings. The corridor bears west to follow the alignment of the A98 for 1.5 km, avoiding the urbanised area of Buckie, before following an unclassified road on a northwesterly bearing, reaching the Portgordon landfall site after approximately 1.5 km.

The table below summarises the environmental features recorded within the 500 m corridor, together with the findings of the Environmental Risk Assessment.

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
Natural Resources	Watercourses	Cable Corridor 3 crosses a number of drains and minor watercourses, as well as the River Deveron	3	4	12
	Sites of Special Scientific Interest (Geological)	There are no Geological Sites of Special Scientific Interest within Cable Corridor 3	0	0	0
	Study of Environmentally Sensitive Areas Sites (Geological / Geomorphological)	Stirling Hill-Dudwick Longhaven Coast Plio-Pleistocene deposits - unlike Windy Hills, includes substantial flint component. Again under active research. Boddam to Port Erroll coast in an interesting granite series noted for its erosion features. Forms part of Bullers of Buchan Coast Site of Special Scientific Interest (N.B. Bullers of Buchan Coast Site of Special Scientific Interest does not fall within Cable Corridor 3)	2	1	2
Nature Conservation	Special Protection Areas	Buchan Ness to Collieston Coast Special Protection Area	4	3	12
	Special Areas of Conservation	There are no Special Areas of Conservation within Cable Corridor 3	0	0	0

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
	Sites of Special Scientific Interest (Ecological)	There are no Ecological Sites of Special Scientific Interest within Cable Corridor 3	0	0	0
	National Nature Reserves	There are no National Nature Reserves within the land study area	0	0	0
	Ramsar Sites	There are no Ramsar sites within Cable Corridor 3	0	0	0
	Study of Environmentally Sensitive Areas Sites (Ecological)	There are no Ecological Study of Environmentally Sensitive Areas Sites within Cable Corridor 3	0	0	0
	Scottish Wildlife Trust Reserves	There are no Scottish Wildlife Trust Reserves within Cable Corridor 3	0	0	0
	Local Nature Conservation Sites	There are no Local Nature Conservation Sites within Cable Corridor 3	0	0	0
	Local Nature Reserves	There are no Local Nature Reserves within Cable Corridor 3	0	0	0
Historic Environment	Scheduled Monuments	Eden Castle. This is also a Grade B Listed Building. However, to avoid double counting, this feature is assessed under its Scheduled Monument Designation	4	2	8
		Sandend Windmill,Fordyce			
		Boyndie Old Kirk,church 200m NW of Boyndie Bridge			
		Clackriach Castle			
	Listed Buildings	GLASSAUGH WINDMILL (Grade A)	4	1	4
		BANK ROAD, MAUD HOSPITAL, INCLUDING, LODGE, GATEPIERS, RAILINGS AND RETAINING	3	2	6

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		WALL (Grade B)			
		BANK ROAD, MAUD HOSPITAL, INCLUDING, LODGE, GATEPIERS, RAILINGS AND RETAINING WALL (Grade B)			
		EDEN CASTLE (Grade B) (assessed under its Scheduled Monument Designation)			
		INVERBOYNDIE BRIDGE OVER THE BURN OF BOYNDIE (Grade B)			
		INVERBOYNDIE ST BRANDON'S CHURCH (OLD PARISH CHURCH OF SCOTLAND) AND BURIAL GROUND (Grade B)			
		1 QUEEN'S ROAD (Grade B)			
		WINDHILL FARM (Grade B)			
		KING EDWARD PARISH CHURCH, WALLS AND WAR MEMORIAL (Grade B)			
		WELLINGTON PLACE, FARMHOUSE (Grade B)			
		BALCHERS FARMHOUSE (Grade B)			
		WAULKMILL, QUARTALEHOUSE (Grade B)			
		BRAE OF BIFFIE FARMHOUSE (Grade B)			
		PORTGORDON, GOLLACHY ICE HOUSE (Grade B)			
		LETTERFOURIE, GRANARY (Grade B)			
		12A EARLS COURT (Grade B)			
		ST JOHN'S CHURCH (CHURCH OF SCOTLAND) (Grade B)			
		FINTRY FARMHOUSE (Grade B)			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		14 QUEEN'S ROAD (Grade C(S))	2	2	4
		PARISH CHURCH OF BODDAM MANSE TERRACE (Grade C(S))			
		17 QUEEN'S ROAD (Grade C(S))			
		18, 20 QUEEN'S ROAD (Grade C(S))			
		11 BRIDGE STREET (Grade C(S))			
		1A QUEEN'S ROAD (Grade C(S))			
		BRUCKLAY CASTLE, QUADRANT WALLS AND GATEPIERS AT WEST LODGE (Grade C(S))			
		BRETHREN MEETING HOUSE. 26 GORDON STREET (Grade C(S))			
		THREE SEATS - JUNCTION HARBOUR STREET AND QUEENS ROAD (Grade C(S))			
		DESERTED HOUSE BETWEEN 9 EARL'S COURT AND chr(39)BRIDGENDchr(39) (Grade C(S))			
		2 AND 4 EARL'S COURT (Grade C(S))			
		COCKLAW MAINS FARMHOUSE (Grade C(S))			
		BRUCKLAY CASTLE, WEST LODGE (Grade C(S))			
		9 QUEEN'S ROAD (Grade C(S))			
		10 QUEEN'S ROAD (Grade C(S))			
		RETAINING WALL HARBOUR STREET-BRIDGE STREET (Grade C(S))			
		1 BRIDGE STREET (Grade C(S))			
		9 BRIDGE STREET (Grade C(S))			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		5 EARL'S COURT (Grade C(S))			
		2 BRIDGE STREET AND EARL'S COURT (Grade C(S))			
		22 QUEEN'S ROAD (Grade C(S))			
		8 QUEEN'S ROAD (Grade C(S))			
		ARRADOUL HOUSE (Grade C(S))			
		3 EARL'S COURT (Grade C(S))			
		3 QUEEN'S ROAD (Grade C(S))			
		15 QUEEN'S ROAD (Grade C(S))			
		16 QUEEN'S ROAD (Grade C(S))			
		1 EARL'S COURT (Grade C(S))			
		2 QUEEN'S ROAD (Grade C(S))			
		6 QUEEN'S ROAD (Grade C(S))			
		7 BRIDGE STREET (Grade C(S))			
		11 EARL'S COURT (Grade C(S))			
		LETTERFOURIE, GATEPIERS AND GATES AT MAIN ENTRANCE (Grade C(S))			
		4 QUEEN'S ROAD (Grade C(S))			
		5 QUEEN'S ROAD (Grade C(S))			
		13 QUEEN'S ROAD (Grade C(S))			

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
		5 BRIDGE STREET (Grade C(S))			
		7 QUEEN'S ROAD (Grade C(S))			
		11 QUEEN'S ROAD (Grade C(S))			
		3 BRIDGE STREET (Grade C(S))			
		OUTBUILDINGS BETWEEN 7 AND 9 EARL'S COURT (Grade C(S))			
		2 AND 4 EARL'S COURT (Grade C(S))			
		THE SYCAMORES, QUARTALEHOUSE (Grade C(S))			
		INVERBOYNDIE, JANDAR AND BRANDON VIEW WITH GARDEN WALLS (Grade C(S))			
		INVERBOYNDIE, JANDAR AND BRANDON VIEW WITH GARDEN WALLS (Grade C(S))			
		MANSE OF ORD, STRATHORD (Grade C (S))			
	Conservation Areas	BODDAM (ARTICLE 4 - BUS SHELTERS)	3	3	9
	Historic Gardens and Designed Landscapes	There are no Historic Gardens and Designed Landscapes within Cable Corridor 3	0	0	0
	Properties in Care	There are no Properties in Care within Cable Corridor 3	0	0	0
Landscape	National Parks	There are no National Parks within the land study area	0	0	0
	Areas of Landscape Significance	There is an Area of Landscape Significance within Cable Corridor 3	3	4	12
	Areas of Great Landscape Value	There are no Areas of Great Landscape Value within Cable Corridor 3	0	0	0

Topic	Feature	Detail of Feature	Value of Feature	Likelihood of Impact on Feature	Risk Rating
	Historic Gardens and Designed Landscapes	There are no Historic Gardens and Designed Landscapes within Cable Corridor 3	0	0	0
	National Scenic Areas	There are no National Scenic Areas within the land study area	0	0	0
	Country Parks	There are no Country Parks within Cable Corridor 3	0	0	0
Other	Long Distance Routes	Speyside Way	3	4	12
	Tree Preservation Orders	There are Tree Preservation Orders within Cable Corridor 3	1	1	1
	Draft Core Paths	There are Draft Core Paths within Cable Corridor 3	1	4	4
	Ancient Woodland	There are areas of Ancient Woodland within Cable Corridor 3	2	3	6
	Semi-natural Woodland	There are areas of Semi-Natural Woodland within Cable Corridor 3	1	3	3
	Areas at Risk of Flooding from Rivers	There are Areas at Risk of Flooding from Rivers within Cable Corridor 3	2	4	8
	Areas at Risk of Flooding from the Sea	There are no Areas at Risk of Flooding from the Sea within Cable Corridor 3	0	0	0
	Areas at Risk of Flooding from both Rivers and the Sea	There are no Areas at Risk of Flooding from both Rivers and the Sea within Cable Corridor 3	0	0	0
	Natural Burial Grounds	There are no Natural Burial Grounds within the land study area	0	0	0
Risk Rating Total for Cable Corridor 3					103

The Risk Rating Total for Cable Corridor 3 is primarily influenced by the length of the corridor, and by those features that cross the entire width of the 500m corridor (e.g. Speyside Way, Areas of Landscape Significance, Draft Core Paths and Areas at Risk of Flooding from Rivers). It is anticipated that the Risk Rating afforded to the corridor would be reduced if the landfall site at Inverboyndie was chosen. Furthermore, this Risk Rating afforded to features such as Buchan Ness to Collieston Coast Special Protection Area, Ancient Woodland, Scheduled Monuments, Listed Buildings and Boddam (Article 4 – Bus Shelters) Conservation Area could be reduced through further study and refinement of the cable alignment.

Appendix B Offshore component supporting material

B.1 Offshore Route Development Criteria

Offshore routeing criteria	
Criteria	Factors to be considered
Cable route length	The starting point in developing cable routes is development of the shortest optimal route, to minimise cable length and hence environmental impacts, and cable manufacturing and installation costs. The carbon footprint associated with cable manufacture and installation is also directly dependent on the cable route length. The optimal route will ultimately be the shortest feasible route which takes into account the environmental and technical constraints listed below.
Minimise complexity of installation works through choosing optimum water depths: Minimise length of the intertidal area; Maximise extent of cable route in water depths between 10 and 200 m.	Landing a cable through intertidal areas is typically the most challenging aspect of a cable installation as it represents the inter-face between land and vessel based operations. Both land and marine operations need to be coordinated and the handling of the cable, from the vessel on which it is being held to shore, managed. The tidal regime of the area may also severely constrain the time available for installation operations. A water depth of 10 m is used as an average cut-off for a typical large cable handling vessel. If a route contains sections in shallow water then the larger main installation spread may be unable to operate, requiring an additional cable handling vessel. Sections of cable may also need to be cut and rejoined. Cables need to be designed to resist installation forces, including tensile strains produced during installation and any subsequent recovery for repair. For power cables, the tensile strength is distributed through the cable structure, with much of it being provided by the external 'armour' wires. In water depths of 200 m or less only one layer of armour wires will generally be needed. In water depths greater than 200 m, it is possible that two layers of armour wires may be needed increasing the capital cost of the cable. Waters deeper than 200 m are, therefore, avoided where possible.
Maximise potential for cable burial	In order to ensure optimal burial depths can be achieved and maintained for as much of the route as possible, known areas of exposed bedrock, or bedrock with thin covering of sediment, should be avoided during cable routeing. Similarly, if possible areas of glacial till or boulder clay, which could make installation more challenging should be avoided.
Minimise potential for cable re-exposure during operation	Avoid areas of high sediment mobility, such as mobile estuaries, mobile sandbanks and sandwaves, which could result in subsequent exposure and/or spanning of the cable. In certain cases deeper burial beneath the mobile layer can be achieved by dredging through sandwaves, or using specialist tools such as the "vertical injector" which can achieve burial of up to 15 m, and can operate in water depths of 25 m or less. Deeper burial increases insulation of the cable and can reduce efficiency of electricity transmission due to thermal heating effects, depending on seabed characteristics and cable capacity. Some cables can be "over-engineered" to resolve this issue, although this may not be possible depending on the cable capacity. Furthermore, whilst routine maintenance work can be undertaken to re-bury exposed cables, cables in highly mobile environments are at risk of damage and or failure which is not an ideal long term scenario, both in terms of cable protection and the environmental impacts associated with ongoing maintenance works. In protected and/or sensitive seabed areas environmental and consenting issues could complicate the feasibility of regular maintenance works, causing delays or restrictions to maintenance work.

Offshore routeing criteria	
Criteria	**Factors to be considered**
Avoidance of sensitive environmental areas. Where it has not been possible to avoid conservation areas, route length within these areas to be minimised.	Avoid existing Natura 2000 sites (SACs and SPAs), national protected sites (SSSIs, Marine nature reserves), possible future SACS and SPAs (Annex I habitat, areas of search for offshore SACs). Where routes within protected sites are unavoidable, the interest features of the site should be considered to determine whether the cable can be installed and operated without causing significant environmental effects. The following general principles can be followed, in discussion with the relevant conservation bodies: Seasonal sensitivities: For example if a site is designated for wintering birds, the project's installation programme can be scheduled to avoid impacts during the sensitive period. With such mitigation measures implemented routeing within the area may be acceptable. If the site is designated for both wintering and breeding birds the seasonal restrictions that are likely to be applied to the project may be too onerous for the installation to be feasible. Mobile species: From the point of view of cable installation and operation, the key impact on mobile species (seabirds at sea, fish, mammals) is disturbance during installation activities, which is generally a minor impact which can be managed. If the species is breeding impacts can be more significant, however. Benthic species: For benthic species or habitats significant impacts may be harder to avoid, and therefore the cable should be routed away from sites designated for such features if possible. This is particularly true for habitats which do not recover well from disturbance, such as rocky or biogenic reef (mussel beds, *Sabellaria* etc), piddocks in clay, or saltmarshes. Lower significance impacts are likely for mobile sands and muds supporting invertebrates, which do have higher recovery rates, and therefore routeing in such areas may be more feasible. Spawning and nursery areas: Areas where fish spawn on the seabed (such as herring) should be avoided if possible, although if this is not possible the impact can be managed through seasonal restrictions to installation works. Pelagic (in the water column) spawning areas are widespread and cable routieng can be undertaken in these areas without significant environmental effects. EMF and Heating: Possible issues associated with EMF and heating impacts on sensitive species should also be considered. The significance of this potential impact cannot be determined at this stage, but EMF impacts likely to be more of a concern in rivers/estuaries where salmon and trout migrate.
Avoidance of areas where there is an increased risk of damage to the installed cable.	The following areas should be avoided due to the increased risk of damage to the buried cable: Known dredging areas should be avoided by a minimum of 500 m Known anchorage areas should be avoided by a minimum of 500 m Areas containing high levels of munitions contamination should be avoided by cable routeing. Munitions are known to migrate along the seabed depending on hydrodynamic conditions and sediment transport pathways operating in the area of concern. Therefore the presence of munitions on the seabed outside of such areas cannot be discounted, and survey should be targeted towards establishing the presence and location of munitions on the seabed where the cable passes in the vicinity of disused munitions disposal sites.

Offshore routeing criteria	
Criteria	**Factors to be considered**
Minimise crossings with cables and pipelines	The number of crossings with existing and proposed cables and pipelines should be minimised. Undertaking crossings with existing cables necessitates placement of rock berms or mattresses to ensure the cable is protected at the crossing, where burial is not possible. Installation of a crossing increases the environmental impacts of the project. It results in a permanent structure on the seabed, which will smother the marine life beneath it, and introduces a different type of sediment which may locally alter the marine ecosystem. The rock berms on the seabed can also represent an obstruction to fishermen, who may risk snagging their gear. Crossings are also financially costly, and may involve lengthy legal discussions with the cable or pipeline owner. A Crossing Agreement (CA) is a voluntary agreement with the crossed party, although it is generally required under the Crown Estate lease, and proceeding with crossings without having obtained the necessary agreements is not recommended. If any pipelines or cables are to be crossed that the crossing angle should be as close to 90º as possible. Any cables and pipelines not crossed should be avoided by a 500 m exclusion zone. Cable routeing parallel with existing cables and pipelines should be avoided if possible. Cables and pipelines will have a seabed lease which gives a 250 m no-works zone, and a further 250 m notification zone either side of the cable. This is necessary to allow access for repairs, and also should a repair be undertaken, the cable will be re-laid on the seabed in a loop, potentially increasing its proximity to the other cables than previously. Specific measures for individual pipelines and cables will need to be confirmed with the owner/operator.
Avoid existing and proposed seabed developments.	Areas which are currently licensed for other uses, or involve physical infrastructure on the seabed need to be avoided. This includes: *Licensed dredging areas:* The license holder has exclusive rights to the seabed in the licence area. *Oil and gas infrastructure*: Operational wells platforms operate a 500 m exclusion zone which should be avoided by cable routeing. Cable routeing is not excluded through oil and gas fields, or licence blocks, as oil and gas developers do not have exclusive seabed rights to the entire block. Plugged and abandoned wells should be avoided as they represent seabed structures over which the cable cannot be buried, but the 500 m exclusion zone is not required. *Existing and proposed sites for offshore renewables* (e.g. windfarms, or wave or tidal arrays) should be avoided by a 500 m exclusion zone. Cable routeing through the R3 development zones should be avoided if possible, due to the current uncertainty as to where specific wind arrays will be placed, and the possible need for additional crossings. However, the Crown Estate has confirmed that the offshore wind developers do not have exclusive rights to the seabed in the R3 zones, and cable routeing through the zones is permitted. The cable route should seek to develop a route which minimises interactions with the future development of the zone, such as routeing adjacent to an existing cable, or through the area of highest shipping activity within the zone. Whilst shipping activity precludes turbine placement, installation of a cable in this area is likely to be acceptable as the buried cables are not an obstruction to shipping. Routeing adjacent to an existing cable is converse to the point above regarding avoidance of running adjacent to existing cables, however it may be an acceptable compromise for routeing through R3 zones.

Offshore routeing criteria	
Criteria	**Factors to be considered**
Minimise interference with shipping and navigation	Cable installation in certain areas may be unacceptable to the relevant port authorities due to conflicts with their normal operations. This should be determined through discussion with the relevant port authorities. However, should cable installation works restrict key approach channels to major ports, even for a short period of time, this may be considered unacceptable. Ports authorities issue licences to undertake marine works in their area of jurisdiction, and they can reasonably refuse. Cable installation may also not be permitted across areas where regular channel maintenance dredging is undertaken by a port authority. This would also be undesirable from the perspective of maintaining cable burial depths and should also be avoided for this reason.
Marine archaeology	The cable route centre-line should avoid wrecks by a 100 m exclusion zone. Positions of known wrecks, and previously unrecorded wrecks will need to be confirmed during cable route survey, and micro routeing may be required as a result. Certain wrecks are given additional protection under the Protection of Wrecks Act or the Protection of Military Remains Act, and such wrecks may have a specific exclusion zone designated around them, which would need to be avoided for any seabed disturbing works being undertaken as part of the cable installation.
Military practice areas	The existence of military practice and exercise areas does not generally preclude the installation or operation of marine cables. However, consultation with the MOD should be undertaken to confirm this, where relevant.

B.2 Marine Installation

The following factors relating to installation have been considered in assessing the feasibility of the proposed routes.

B.2.1 Installation spread

In general, it is desirable for as much as possible of an installation to be accomplished by a single spread. Access constraints can require that alternative resources are deployed to install the cable. In most cases, this is as a result of shallow water depths as the large vessels more normally used to install power cables have a nominal minimum working depth of 10 m. Different resources may also be required where obstructions or narrow winding channels are present, limiting the manoeuvrability of large vessels.

B.2.2 Sea room

The installation spread in deeper water is likely to comprise a Cable Laying Vessel (CLV) deploying a burial machine, simultaneously laying and burying the cable bundle. Alternatively a CLV will lay the cable and be closely followed closely by a vessel deploying a burial machine.

The burial machine may be a towed device such as a plough or a self propelled device. A plough increases the effective spread length as the machine may be some distance astern of the towing vessel. A self-propelled device will effectively operate under the vessel deploying it. Depending on the tidal set and the weather conditions the lay vessel and vessel towing a plough may be offset from the actual cable line and/or be facing across the direction of travel – i.e. ‘crabbing’.

Sufficient sea room needs to be available to allow the vessels to manoeuvre safely with respect to land, subsea obstructions and other marine traffic and to take up the necessary alignments relative to the desired cable route. The requirement is increased when two cables are to be laid in the same area at a substantial separation.

A two vessel spread in the open sea may typically occupy an area of water up to 1 km by 0.5 km. However, where manoeuvring through a channel and bank system, for example, the spread may occupy more lateral space. This is because the vessels may need to crab to stem tides and also manoeuvre around obstructions or along a winding channel. For example in making a turn a plough-towing vessel needs to sweep a much wider arc than the plough itself to keep the plough on the desired line.

B.2.3 Tidal regime

The tidal regime, stream velocities and directions, can be critical during cable installation, when a high degree of positional control is required over a vessel. Tides affect the ability of a vessel to manoeuvre and make progress, particularly if the tidal set is at an adverse angle to the direction of travel. Vessels are generally designed and equipped to stem tidal streams by heading the bow into them and efficiency decreases as a tidal stream sets onto the beam. This is particularly true of a plough-towing vessel as a large proportion of the available power will be committed to the tow. In extreme cases

operations may need to be suspended during adverse phases of a tide, bringing risks to the integrity of the cable held in catenary underwater.

B.2.4 Weather exposure

The weather is a significant factor in determining the viability of operations, mainly through wind and wind-generated waves acting on the installation spread directly or in combination with the tides. Weather will not normally affect selection of installation resources (unless extreme conditions are anticipated) but can be significant in cable route selection, as some routes may be more or less exposed to prevailing storm conditions.

Vessel operations are constrained by weather conditions, mainly because of wind acting directly on the vessel and wind generated waves. Coastal morphology can have a sheltering effect or exacerbate weather effects by focusing the wind, for example in a sound between high cliffs.

Weather conditions need to be considered in conjunction with the tidal regime as adverse effects can be compounded. The degree of exposure of a cable route to the prevailing wind direction is an important consideration since, again, adverse conditions may force suspension of operations.

B.2.5 Commercial and recreational shipping

If the cable is being installed in a regular shipping route then shipping can be an operational challenge, particularly in waters with restricted sea room. Conflicts with commercial vessel traffic are normally handled by consultation with affected port authorities and by advance publication of the nature, extent and duration of operations and radio navigational warnings during operations. The norms of navigation and the established collision regulations then become applicable. This means that the installation spread should be recognised as a vessel ‘restricted in its ability to manoeuvre’ and given a wide berth by all other vessels. In congested locations, local fishing vessels or tugs are often employed as ‘guard ships’ to advise approaching vessels of the hazard.

B.2.6 Commercial fishing

Commercial fishing in open water is rarely an installation issue as trawlers can easily avoid a slow moving spread. Trawling is most significant as a threat to an installed cable. Interference with fixed gear operators is more of an installation issue, but one that can be managed by providing good notice to fishermen of impending operations and arranging to have gear moved when and where necessary. It is good practice to establish, well in advance of operations, the geographical and temporal distribution of fishing activity to ensure operations are not inhibited and fishermen are not disadvantaged. It is good practice to employ the services of a Fishery Liaison Officer to interface with fishing interests before and during operations.

B.3 Marine nature conservation areas

Designation	Site Name	Interest Features	Cable Route and Distance
SAC	Moray Firth	Annex I habitats that are primary reason for designation are: Sandbanks which are slightly covered by sea water all the time. Annex II species that are a primary reason for selection of this site are: Bottlenose dolphin (*Tursiops truncatus*).	Lossiemouth Forest – 6.52km Portgordon – 16.5km Cullen – 30km Sandend – SHEFA - 31km, SHETL 28km Inverboyndie – 42km Fraserburgh Beach – 43km Fraserburgh Golf Carpark – 43km Philorth – 43km Inverallochy northern approach – 52.5km, southern approach – 43km Rattray – 52.5km St Fergus – 52.5km
SAC	Lower River Spey - Spey Bay	Annex I Habitats that are primary reason for designation are: Perennial vegetation of stony banks - one of the two largest shingle sites in Scotland and part of a shingle complex unique in Scotland.	Lossiemouth Forest - Intersects
SSSI	Spey Bay	Important site for biological and geological features. The site is a large vegetated shingle complex which supports a rich flora. The site includes the finest active shingle ridges in Scotland.	Lossiemouth Forest - Intersects Portgordon – 1.2km
SAC	River Spey	Annex II species that are a primary reason for selection of this site are: Pearl mussel (*Margaritifera margaritifera*). Sea lamprey (*Petromyzon marinus*). The River Spey represents the sea lamprey at its northern limit in the UK. Atlantic salmon (*Salmo salar*). The river supports one of the largest Atlantic salmon populations in Scotland, with little evidence of modification by non-native stocks. Otter (*Lutra lutra*).	Lossiemouth Forest – 4.5km Portgordon – 5km Cullen – 15km Sandend SHEFA – 20.5km, SHETL - 19.5km Inverboyndie – 32km Fraserburgh Beach – 35.5km Fraserburgh Golf Carpark – 35.5km Philorth – 35.5km Inverallochy northern approach – 50km, southern approach – 35.5km Rattray – 50km St Fergus – 50km
SPA/Ramsar	Moray and Nairn Coast	During the breeding season the area regularly supports: Osprey (*Pandion haliaetus*). Over winter the area regularly supports: Greylag Goose (*Anser anser*), Pink-footed Goose (*Anser brachyrhynchus*), Redshank (*Tringa totanus*). An internationally important assemblage of birds: Over winter the area regularly supports 17,473 individual waterfowl.	Lossiemouth Forest – 5km Portgordon – 5km

Designation	Site Name	Interest Features	Cable Route and Distance
SPA	Troup / Pennan and Lion Heads	During the breeding season the area regularly supports: Kittiwake (*Rissa tridactyla*),Guillemot (*Uria aalge*). An internationally important assemblage of birds: during the breeding season the area regularly supports: 150,000 seabirds.	Fraserburgh Beach – 2km Fraserburgh Golf Carpark – 2km Philorth – 2km Inverallochy, southern approach – 2km
SSSI	Whitehills to Melrose Coast	Site of geological importance. Area is a unique Dalradian cross-section of international importance.	Inverboyndie – Intersects
SSSI	Gamrie to Pennan Coast	Important for biological and geological features. The extensive seacliffs support large breeding colonies of seabirds which are of international importance. The coast to the west of Troup Head is part of a section of Dalradian rocks.	Inverallochy, northern approach - 1km
SSSI	Cullen to Stakeness Coast	Important site for geological features. Coastal slopes and raised beaches contain a wide variety of plant communities which have been largely unaffected by agricultural operations.	Cullen – 0.3km Sandend SHEFA – 0.3km, SHETL – 0.3km Inverboyndie – 1.3km
SSSI	Rosehearty to Fraserburgh Coast	Important site for biological and geological features. Important for the number of passage and wintering seaduck and waders which it supports. Site is of highest stratigraphical, structural and petrological interest.	Fraserburgh Beach – 1.6km Fraserburgh Golf Carpark – 2km Philorth – 2.5km Inverallochy, southern approach – 3km
SSSI	Cairnbulg to St Combs Coast	Important geological site with regard to the orogenic, mountain forming, evolution of the Dalradian.	Fraserburgh Beach – 1.5km Fraserburgh Golf Carpark – 1.5km Philorth – 0.8km Inverallochy northern approach – 0.06km, southern approach – 0.06km
SPA/Ramsar	Loch of Strathbeg	During the breeding season the area regularly supports: Sandwich tern (*Sterna sandvicensis)* Over winter the area regularly supports: Whooper swan (*Cygnus cygnus)* An internationally important assemblage of birds: Over winter the area regularly supports: 49,456 waterfowl.	Inverallochy northern approach – 3km, southern approach – 3km Rattray – 2.5km
SSSI	Loch of Strathbeg	Important site for biological and geological features. One of the most important sites for passage and wintering wildfowl in Britain. Strathbeg is a key geomorphological site for its extensive and varied dune topography.	Fraserburgh Beach – 5km Fraserburgh Golf Carpark – 5km Philorth – 3.5km Inverallochy northern approach – 0.7km, southern approach Rattray – 1.2km
SAC	Dornoch	Annex I Habitats that are primary reason for designation	43.5km from nearest route (Route

Designation	Site Name	Interest Features	Cable Route and Distance
	Firth and Morrich More	are: Estuaries Mudflats and sandflats not covered by seawater at low tide *Salicornia* and other annuals colonising mud and sand Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) Embryonic shifting dunes Shifting dunes along the shoreline with *Ammophila arenaria* ('white dunes') Fixed dunes with herbaceous vegetation ('grey dunes') Decalcified fixed dunes with *Empetrum nigrum* Atlantic decalcified fixed dunes (*Calluno-Ulicetea*) Humid dune slacks Coastal dunes with *Juniperus* spp. Annex II species that are a primary reason for selection of this site are: Otter (*Lutra lutra*) Common seal (*Phoca vitulina*)	1, Lossiemouth Forest)

B.4 Site Visit Reports

B.4.1 North West Landing Sites

Lossiemouth Forest

	WGS 84, Lat, Long	3° 10.738' W	57° 40.834' N
	WGS 84 UTM Zone 30N, E,N	489327.8847	6393161.558
	OSGB 36, E,N	329702.1736	866218.187
Overview	Lossiemouth Forest is at the western end of the study area. The area is managed by the Forestry Commission and includes a firing range. It is a sizeable area which has gravel track roads servicing the land. The site visit was not able to access the beach itself and was viewed from the town of Lossiemouth which is to the west. There is no public vehicular access to the site, and so access would have required walking to the site, which was not deemed to be a practical use of the time allocated for the site visits.		

Beach area	The beach area is sandy with a moderate profile and depth. Access to the beach would be either through the forest on a suitable track or along the coast from either Lossiemouth (West) or Kingston (East). Short HDD (200m) likely to be required under the SSSI at this location.	
Surrounding area	Behind the beach is the forest, within which suitable lay-down work areas can be created and managed. The location for jointing pits and a cable corridor will require a suitable swathe to be clear of trees and overgrowth. The use of safe areas where forestry machinery will not interact with the buried cables will be important. Where possible the creation of new or upgraded tracks in which the cables are installed may be preferred. The site of the joint pits will be also an area in which the replanting of trees etc will be prohibited. To the east is a firing range which has an area that is kept clear. A similar stewardship for the cable corridor would be necessary.	
Conclusions	The site is potentially technically viable. However, it is difficult to confirm viability as full access to the beach was not possible during the site visit. Access for construction would have to be via the Forestry Commission owned tracks. The project would have to review and determine whether upgrading access routes is required, should the landfall at this site be taken forward.	

Portgordon

<table>
<tr><td rowspan="3">Position</td><td>WGS 84, Lat, Long</td><td>3° 0.218' W</td><td>57° 40.006' N</td></tr>
<tr><td>WGS 84 UTM Zone 30N, E,N</td><td>499783.4611</td><td>6391610.929</td></tr>
<tr><td>OSGB 36, E,N</td><td>340133.2676</td><td>864513.5912</td></tr>
<tr><td></td><td colspan="3">Portgordon is the proposed landing site for the SHETL HVDC cable from the Shetland Isles. The offshore approach to Portgordon is a potential Annex I Habitat (pAIH) area for stony reef through which the route would have to pass.</td></tr>
<tr><td>Beach area</td><td colspan="2">The beach is narrow in depth and in areas has the road close by. The beach is a mix of sand, pebbles and large rocks. The large rocks appear to be a form of sea-defence structure at the high edge of the beach and to be of a different colour/type to the pebbles.
An open trench cutting through to offshore would appear technically feasible. Discussion with SEPA and the local authorities would be required to determine the sea defence requirements and the possibility to temporarily cut through. It is most likely that a short (100m) HDD would be required, however.
The depth of the site (20-25m) would restrict the available space for a joint pit, and place them very close to the shoreline. This narrow depth may also impact the land route connections to the beach pits. The option to place the joint pits on the inshore side of the road may be a more suitable option where greater space may be available.</td><td>  </td></tr>
</table>

Surrounding area	Behind the beach and road (A990) there is a small strip of land which fronts a steep slope and footpath. The slope rises approximately 10m onto a ridge with a road leading inland. The land between the road and the bank would be suitable for a work storage area. This area is removed from local housing and there would be minimal disturbance to the area. At the western end of the field, below the road which rises to the top of the bank is a gate. The field has a working length of 145m, with a 15m scrub area before a single dwelling. The next nearest building/dwelling being 150m away to the west, the rise of the road obscures the field from these houses. The narrow beach area would not permit a HDD rig to operate easily if drilling under the road was a requirement. Drilling from the higher ground with a longer drill would be a more likely solution to permit the cables to exit the beach area and traverse the bank.	
Conclusions	The area would be difficult to facilitate a landing with the SHETL cable in close proximity; the routeing of cables off the beach area may have difficulties. The beach area does not provide any good indication of a seabed with suitable burying capability and Google imagery shows large extents of exposed rock near the beach.	

Cullen

Position	WGS 84, Lat, Long	2° 50.334' W	57° 41.648' N
	WGS 84 UTM Zone 30N, E,N	509603.1444	6394669.77
	OSGB 36, E,N	349996.4021	867427.1116
Overview	Cullen is a moderate bay with a small port and sandy beach. The back of the beach has small areas of pebbles and larger rocks; these appear to be for stabilisation of the sand dune which leads on to the golf course. The golf course covers the area back to the steep banks which rise up to the coast road and farmland.		
Beach area	The beach during the visit was near "high tide" with water covering the majority of the beach. Publicly available satellite images have therefore also been used to inform the site description. The beach is predominantly sandy with a couple of prominent rock outcrops. Between these beach rock outcrops there is sufficient width for a cable landing. The beach has no significant sea defences and an open trench installation should be feasible. The sand dune edge onto the golf course behind would require proper management for stability during cable installation but should not pose a technical issue. The cables crossing the golf course will not provide any technical issues, but landowner consent and conditions could be an issue and would need to be investigated further.		
Surrounding area	The golf course behind has a steep slope which leads to a coastal path (old railway track) and the A98 coast road which is 300m from the central beach area. Central to the beach and alongside/behind the road are open fields and the Cullen Bay Hotel. Bypassing the hotel and through the fields should be technically feasible.		

Conclusions	The site is technically feasible.. The storage area for equipment may not be easily located and may require additional daily movements of equipment to site to carry out the works. Discussions with the golf course landowner would be required to determine what their approach to permitting land cable installation would be.	 

Sandend

Position	WGS 84, Lat, Long	2° 44.664' W	57° 40.879' N
	WGS 84 UTM Zone 30N, E,N	515242.4347	6393258.773
	OSGB 36, E,N	355613.8629	865933.184
	Sandend is a small bay with a small settlement and port on the western side of the bay. The bay is due south of the Windfarm zone and the proposed substation location.		
Beach area	The southern beach area is sandy with the east and west entrances to the bay comprising exposed rock. The beach is a suitably sized area with easy access for vehicles and support equipment. The rear of the beach has low sand dunes with a double row of concrete blocks (approx 1m square). These may have been beach defences during the war. The sand dunes (40m long) form a natural flood defence for the low lying field behind. The size of the sand dunes may permit the use of open trench landing for the cables; otherwise a short HDD (100m) would be necessary to access the beach from the area for a jointing pit location.	 	
Surrounding area	The beach and village is connected to the A98 road by a small road which sweeps up the rise. This road access would be suitable for construction equipment due to the village having a camping and caravan park. The land between the caravan park and a new development of houses is a recreational area, but may have the potential for further housing development. The field to the east of the caravan park and recreational area would be a suitable location for the landing connection to be placed A distillery is located to the Eastern side of the bay with its own road access to the A98. This access extends into the area behind the sand dunes and may be an alternative vehicular access to the site. A route for exiting would be possibly between Distillery to the east and the houses of Sandend. This would be up a small rise and along the side of the field.		

Conclusions	The site is technically feasible with a bay that appears of sufficient size with 500m across the mouth of the bay and similar depth. The accessibility for both equipment and personnel is excellent and provides suitable local services for the period of works. With the distance for a vessel at the 10m contour being less than 1000m and sheltered from east through south to westerly weather. The prominent exposed rock in the bay, does raise the question of the sediment cover in the bay, The chart information does not indicate the seabed type. The adjacent Portsoy Bay is sand and offshore (3km) gravel and coarse sand giving greater confidence in the potential bay seabed being suitable. However sediment depths would need to be confirmed by survey.

Inverboyndie

Position	WGS 84, Lat, Long	2° 33.408' W	57° 40.218' N
	WGS 84 UTM Zone 30N, E,N	526437.6803	6392091.606
	OSGB 36, E,N	366789.7375	864601.1378
Overview	Inverboyndie is a village with a suitably wide beach which has the SHEFA telecoms landing. The site is due south of the eastern extent of the windfarm array and so would connect to a short marine route. With the caravan park covering the key landing area of the beach and a small stream running along the rear of the caravans, the options for landings and onward cable routes are restricted.		
Beach area	The beach is clear with no obstructions. The beach is sandy with a section of gravel at the top end which backs onto the grassy area. There are no sea defences evident and the SHEFA telecoms cable is close to the edge of the beach in the grass (see image). The SHEFA cable does restrict the full area for cable landings and for the avoiding of a marine cable crossing will force the cable landing to be in the area of the caravan park. The caravan park is metres away from the SHEFA cable and is directly onto the edge of the grass and the gravel beach top. During the winter the caravan park had all caravans removed and only the utilities, small buildings and caravan “hard standing” areas evident.	 	

Surrounding area	Behind the caravan park and stream is a suitable area for a jointing location. This site would however require a HDD (80m) solution to access the beach. Access to this site would be feasible for the necessary equipment and sufficiently clear of most properties during the drilling. The route to exit the area can be either SW and around the village; or crossing under the stream and following the SHEFA cable up the road and to the main road. A crossing of the stream will be required at any point due to it not being crossed before reaching the main A98 road. Additional housing is being built in Inverboyndie behind the main public car park on the eastern side. This work indicates that there is no issue of heavy machinery being used in the area. The development should not impact on the potential cable landing.	 
Conclusions	The landing of the SHEFA cable indicates the site is suitable for marine cable landings. With its central location, SHEFA does reduce the available width for use and without crossing the cables offshore removes the eastern portion of the beach. The close proximity of the SHEFA jointing pit to the beach does indicate confidence in little coastal erosion. The caravan park does however restrict the available area for cable landings and potentially shifts all activities to the field behind and the need for a HDD solution. The use of the field instead of wholesale upheaval of the caravan park would be preferred due to all the utility services embedded in the caravan park. The field additionally would provide a suitable working compound and long term protection of the cables.	

B.4.2 North-East Landing Sites

Fraserburgh Beach

Position	WGS 84, Lat, Long	2° 0.006' W	57° 40.849' N
	WGS 84 UTM Zone 30N, E,N	559627.3578	6393614.952
	OSGB 36, E,N	399994.402	865634.7135
Overview	Fraserburgh is a large bay with a number of potential landing sites within it. The "Fraserburgh Beach" option being being the westernmost option. Fraserburgh town has a busy shipping port, which is located on the western side of the bay. The western landing (Fraserburgh Beach) is adjacent to the retail and business park and cemetery.		
Beach area	The beach is sandy with no visible obstructions. The sand dunes behind the beach are significant in both depth (100m minimum) and height (8-10m). Open cut trenching across these is unlikely to be technically feasible. The clear beach expanse and low height differential would be conducive to a short direct HDD (200m) breaking out onto the beach intertidal area. Behind the sand dunes is an area of scrub land, this in part appears to have old WW2 defences which are degraded. The south east section of the site may be suitable for use as a HDD working compound and jointing pit area. A suitable survey or local planning records may assist the suitability of this site.		
Surrounding area	The scrub land area is immediately off the main road and provides suitable vehicle access. Cables from this site would be constrained in their route options with either following the B9033 east and along the road past the cemetery; Or towards the retail park and along the B9033 road to the west of the cemetery. Once the cable routes are clear of the cemetery many options are available.		

Conclusions	The site is potentially suitable for marine cable landings. The location at the western end of the bay increases the marine route difficulty to the landing in comparison to the other locations in the bay. A potential offset however being the shortest HDD span required to access the beach with minimal sand dune coverage. The likely HDD construction site may require additional preparations to make it suitable for the required operations.. This additional site preparation may offset the benefit of a short HDD site, where other sites are requiring no preparations.	

Fraserburgh Golf Car park

Position	WGS 84, Lat, Long	1° 59.735' W	57° 40.666' N
	WGS 84 UTM Zone 30N, E,N	559901.1778	6393279.121
	OSGB 36, E,N	400263.2011	865294.926
Overview	Fraserburgh is a large bay with a number of landing potentials within it. The “Fraserburgh Golf Car park” option is east of “Fraserburgh Beach”. The golf course grounds may restrict activities and has not been considered for a site option. The golf car park landing is to the west of the beach area and east of the cemetery.		
Beach area	The beach is sandy with no visible obstructions. The sand dunes behind the beach are significant in both depth (220m) and height (8-10m). Open cut trenching through them is unlikely to be feasible. The golf course runs directly behind the beach and has the B9033 dissecting it with the club house and car park on the non-coast side of the road. A workshop and storage area, for the golf course is located on the beach side of the road, it is surrounded by sand dunes and course greens. It would not appear an area of suitable size for cable landing construction activities. The clear beach and low height differential between the beach and the car park would be conducive to a HDD (360m) operation; this would commence from the golf car park and break out in the beach intertidal area.		

Surrounding area	The golf car park is a suitable area for construction equipment. It will also allow the joint pits to be installed in the parking area thus giving easy future access to them. Crossing of the road by the Marine HDD will additionally remove any road disruption that may occur if the HDD had commenced from the beach side of the road. The car park is sufficiently clear of the cemetery to not restrict onshore routes.	 
Conclusions	The site is technically suitable for marine cable landings. The location being closer to the eastern end of the bay in comparison to the beach landing improves the installation direction and associated operations. This near-shore route improvement however is offset by the longer HDD span under the road, golf course greens and sand dunes. The proposed HDD construction site is technically suitable for the required operations with easy direct access.	

Philorth

Position	WGS 84, Lat, Long	1° 57.826' W	57° 40.273' N
	WGS 84 UTM Zone 30N, E,N	561809.5234	6392579.472
	OSGB 36, E,N	402160.7498	864567.3062
Overview	Fraserburgh Bay is a large bay with a number of landing potentials within it. Philorth is the eastern most cable landing option within this area. The eastern end of the bay has no infrastructure. A river exits around the end of the sand dune system.		
Beach area	The beach is sandy with no visible obstructions. The sand dunes behind the beach are significant in both depth (250m) and height (8-10m). It would not be feasible to cross these with open trench cutting, HDD being the only option available. The area behind the stream is also of a sandy appearance and not necessarily suitable for placement of a jointing pit. The requirement would be to move further back and onto the grazing land. This grazing land is near to the B9033 and this can provide suitable access for the equipment. The clear beach and low height differential between the beach and the grazing would be conducive to a HDD (510m) operation; this would commence from near the farm buildings on the grazing land and break out in the beach intertidal area.		
Surrounding area	The grazing land will be easy for installation of land cable and with easy access to the B9033 for onward connection. The open nature of the land and grazing cattle will require correct stewardship to ensure personnel, equipment and livestock are protected from each other.		

Conclusions	The site is potentially suitable for marine cable landings. The location is the closest to the eastern end of the bay, which consequently improves the installation direction and associated operations. This landing however has a long HDD span (500m +) under the sand dunes and stream and so will have increased construction costs and risk of construction difficulties. Additionally the marine cable will need to be of suitable design to allow for the expected pull weight that would be required for this length of duct.

Inverallochy

Position	WGS 84, Lat, Long	1° 55.290' W	57° 40.039' N
	WGS 84 UTM Zone 30N, E,N	564337.8227	6392184.074
	OSGB 36, E,N	404682.5751	864134.7252
Overview	Inverallochy is a small bay on the eastern most extent of the north eastern routes. Due to its proximity to the Southern Trench it has the option to be accessed from both a southern and eastern route. This ability to be accessed from both directions may increase the site's potential in the event one of the routes is less favoured in the future. The bay has at the north and south small villages, and the golf course along the rear.		
Beach area	The beach is sandy with rock outcrops visible at the southern area in the sands. Along the rear of the beach is a row of concrete blocks (approx 1m square) and a pillbox structure, which may have been beach defences during the war for the neighbouring airbase. The rise onto the golf course is minimal and the course itself of little elevation. A small stream, drain off gulley, runs through the golf course onto the beach, this should not be a concern for placement of cables. Dependant on the ability to open trench through the golf course there are a number of alternative options including pre installation of ducts by open cutting or the HDD option. The pre-installed sectional ducts are generally preferred on cost and simplicity of equipment required. This however will cause some short term disruption to the golf course.	 	

Surrounding area	Behind the beach and golf course is a single track road and a couple of houses. Between the houses are suitable areas for a construction site compound. The preferred field is 150m wide by 100m deep. This field could place a construction area in the southern sector due to a house being at the northern end. If this area was not sufficient, a compound could be placed further inland on the disused runaways of the airfield (440m from the airfield runway to the single track road). The cable corridor and construction route leading from the previously defined area between the houses. Any ducts by HDD or pre-installed sections that would commence on the onshore side of the single track road would be able to exit onto the intertidal area and be short in length (150m).	
Conclusions	The site is technically suitable for marine cable landings. The bay area has a good sand covering. The admiralty chart however does not detail the seabed near shore. A low profile to the rear onto a short distance of golf course provides a straight forward cable handling operation. The technical factors are simple and should only cause a minor disturbance to the golf course if a sectional pre-installed duct was used. The supply of equipment to site will need management but is not regarded as difficult. Routeing of cables out from the site has no apparent technical issues.	

B.4.3 Eastern Landing Sites

Rattray

Position	WGS 84, Lat, Long	1° 50.176' W	57° 35.499' N
	WGS 84 UTM Zone 30N, E,N	569566.6424	6383846.062
	OSGB 36, E,N	409787.1408	855721.7569
	Rattray is the primary bay for onshore landing of oil and gas pipelines with a gas terminal at the mid-lower portion of Rattray Bay. The cables would land to the north of the current infrastructure and avoid any marine crossings with the pipelines.		
Beach area	The beach is sandy with no apparent rock outcrops. The use of the bay for oil and gas landing gives confidence that the bay is suitable for a power cable landing.. The important issue is that there is sufficient clearance between assets to ensure safe installation. The sand dunes behind the beach are deep (270m) and high (8-10m). It appears that open cut trench was used to install the pipelines, with satellite images showing areas where pipelines have been landed and the dunes may have been altered. However, this would require a large civil contractor construction operation to ensure a safe removal and reinstatement of the dunes, which would be technically, environmentally and economically unfavourable. In general HDD is not a viable solutions for pipelines. However for a cable it is a proven solution, although limited by cable weight which affects the maximum HDD length. The option of HDD (500m) would therefore normally be be preferred, but for the likely cable dimensions the possible HDD length is expected to be restricted to a maximum of 450 m. HDD may therefore not be a feasible solution at this location.	 	

Surrounding area	The area does not have any direct vehicular access except across fields from small country roads. A route from the refinery may be feasible. The land is for grazing and the placement of cables should not pose an issue.	 
Conclusion	The site is suitable for marine cable landings. The bay area has a good sand covering. The admiralty chart however does indicate rock near shore. The sand dunes to the rear are a significant obstruction. Whilst these have not prevented pipeline projects from installation at this landfall, it should be noted that HDD is generally not feasible for pipelines due to their size. It is unlikely that HDD would be possible for the cable at this landfall due to the required length. The sand dunes do cause significant technical complexity at this location which makes this landfall much less favourable for cable installation when alternative landfalls which permit HDD for cables beneath the sand dunes, or open cut installation. Due to the oil and gas infrastructure, investigation of land ownership and whether any future pipelines are planned may restrict the ability to use this landing. The strategic use by oil and gas may diminish the ability for its use by a power cable. Routeing of land cables out from the site may require suitable routing to not conflict with oil and gas export lines.	

St Fergus

Position	WGS 84, Lat, Long	1° 48.685' W	57° 32.940' N
	WGS 84 UTM Zone 30N, E,N	571134.9267	6379124.012
	OSGB 36, E,N	411285.457	850977.8263
Overview	St Fergus is the furthest landing from the offshore substations and crosses the oil and gas infrastructure at Rattray Bay. This therefore will provide the longest marine route, and shortest land route option for the project. The crossing of the numerous cables will incur many crossing agreements with significant technical complexity and cost implications.		
Beach area	The beach is sandy and is backed by high sand dunes. The bay has rock outcrops at both the northern and southern ends of the small/medium sized bay. The sand dunes with their height (12m) and their sizeable depth (300m) may prohibit the use of open trenches and only HDD (350m) may be feasible. There is no easy vehicular access to the beach and heavy equipment may have difficulty of reaching any HDD area due to the small single track road. This would possibly require upgrading to permit any HDD and land cable route construction.	 	
Surrounding area	The field behind the sand dunes does not appear to pose any difficulty in supporting a working compound area. The A90 road is the closet main road to the site, with a small single track road being the only currently direct access.		

Conclusions	The site is potentially suitable for marine cable landings. The bay area has a good sand covering the admiralty chart however does not detail the seabed near shore. The sand dunes to the rear are an obstruction, being larger than at other sites. The lack of easy access to the beach will reduce the favourability in comparison to other site. The main detraction for this site as a landing option is the marine route and the requirement to cross the entire oil and gas infrastructure at Rattray Bay. Due to the crossing of the oil and gas infrastructure this site should not be recommended to be used, the longest marine and shortest land route would not potentially balance the additional costs of the required marine crossings and any HDD operations required to support the landing.

B.5 Indicative Offshore and Landfall Cost Calculations

This is found on the following page.

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	Route	Route length km	Cable Crossings Type	Cable Crossings No.	HDD Landing Required	HDD Landing Length	HDD Landing Cost (m£)	Installation method	Installation Vessel type	Burial Method	total cable installations	Total cable install length	Instalation Rate (m/hr)	total Cable weight (t) 40	vessel loads for capactiy 4000	Vessel speed (kts)	Loading (days)	Round trip Transit (days) 500	Load/Transit total days	Install days	Crossing delays	Shore end & substation delays	total days	Installation vessel day rate (m£)	Installation vessel cost (m£)	Post burial %	burial length (km)	Post burial duration (days) 100	Post burial Vessel cost (m£) 0.07	Vessel costs (m£)	Vessel costs plus 20% (m£)	Cable Crossing cost (m£) 1	HDD cost	Installation cost (m£)	Min Install Cost	Max Install Cost
1	Lossiemouth Forest	60.5	1 x HVDC SHETL	1	Yes	200	4.5	Bundled	Ship	Post Burial	2	121	300	9680	3	10	10	4.2	42.6	17	0.25	8	68	0.1	6.8	100	121	51	3.6	10.4	12.5	2.0	4.5	19.0		
								Bundled	Barge	Post Burial	2	121	250	9680	3	5	10	8.4	55.2	21	0.25	8	84	0.08	6.8	100	121	51	3.6	10.4	12.4	2.0	4.5	18.9		
								Single HVDC	Ship	Ploughed	4	242	250	9680	3	10	10	4.2	42.6	41	0.25	12	96	0.1	9.6	5	12.1	6	0.5	10.1	12.1	4.0	4.5	20.6		
								Single HVDC	Barge	Ploughed	4	242	150	9680	3	5	10	8.4	55.2	68	0.25	12	135	0.08	10.8	5	12.1	6	0.5	11.3	13.6	4.0	4.5	22.1	18.9	22.1
2	Portgordon	54.5	None	0	Yes	100	4	Bundled	Ship	Post Burial	2	109	300	8720	3	10	10	4.2	42.6	16	0	8	67	0.1	6.7	100	109	46	3.3	10.0	12.0	0.0	4	16.0		
								Bundled	Barge	Post Burial	2	109	250	8720	3	5	10	8.4	55.2	19	0	8	82	0.08	6.6	100	109	46	3.3	9.9	11.9	0.0	4	15.9		
								Single HVDC	Ship	Ploughed	4	218	250	8720	3	10	10	4.2	42.6	37	0	12	92	0.1	9.2	5	10.9	5	0.4	9.6	11.5	0.0	4	15.5		
								Single HVDC	Barge	Ploughed	4	218	150	8720	3	5	10	8.4	55.2	61	0	12	128	0.08	10.3	5	10.9	5	0.4	10.7	12.8	0.0	4	16.8	15.5	16.8
3	Cullen	46.3	None	0	No		0	Bundled	Ship	Post Burial	2	92.6	300	7408	2	10	10	4.2	28.4	13	0	8	49	0.1	4.9	100	92.6	39	2.8	7.7	9.3	0.0	0	9.3		
								Bundled	Barge	Post Burial	2	92.6	250	7408	2	5	10	8.4	36.8	16	0	8	61	0.08	4.9	100	92.6	39	2.8	7.7	9.2	0.0	0	9.2		
								Single HVDC	Ship	Ploughed	4	185.2	250	7408	2	10	10	4.2	28.4	31	0	12	71	0.1	7.1	5	9.26	4	0.3	7.4	8.9	0.0	0	8.9		
								Single HVDC	Barge	Ploughed	4	185.2	150	7408	2	5	10	8.4	36.8	52	0	12	101	0.08	8.1	5	9.26	4	0.3	8.4	10.0	0.0	0	10.0	8.9	10.0
4a	Sandend (SHETL)	48.6	None	0	Yes	100	4	Bundled	Ship	Post Burial	2	97.2	300	7776	2	10	10	4.2	28.4	14	0	8	50	0.1	5.0	100	97.2	41	2.9	7.9	9.5	0.0	4	13.5		
								Bundled	Barge	Post Burial	2	97.2	250	7776	2	5	10	8.4	36.8	17	0	8	62	0.08	4.9	100	97.2	41	2.9	7.8	9.4	0.0	4	13.4		
								Single HVDC	Ship	Ploughed	4	194.4	250	7776	2	10	10	4.2	28.4	33	0	12	73	0.1	7.3	5	9.72	5	0.4	7.7	9.3	0.0	4	13.3		
								Single HVDC	Barge	Ploughed	4	194.4	150	7776	2	5	10	8.4	36.8	54	0	12	103	0.08	8.2	5	9.72	5	0.4	8.6	10.3	0.0	4	14.3	13.3	14.3
4b	Sandend (SHEFA)	54.84	None	0	Yes	100	4	Bundled	Ship	Post Burial	2	109.7	300	8774.4	3	10	10	4.2	42.6	16	0	8	67	0.1	6.7	100	109.68	46	3.3	10.0	12.0	0.0	4	16.0		
								Bundled	Barge	Post Burial	2	109.7	250	8774.4	3	5	10	8.4	55.2	19	0	8	82	0.08	6.6	100	109.68	46	3.3	9.9	11.9	0.0	4	15.9		
								Single HVDC	Ship	Ploughed	4	219.4	250	8774.4	3	10	10	4.2	42.6	37	0	12	92	0.1	9.2	5	10.968	5	0.4	9.6	11.5	0.0	4	15.5		
								Single HVDC	Barge	Ploughed	4	219.4	150	8774.4	3	5	10	8.4	55.2	61	0	12	128	0.08	10.3	5	10.968	5	0.4	10.7	12.8	0.0	4	16.8	15.5	16.8
5	Inverboyndie	51.7	None	0	Yes	100	4	Bundled	Ship	Post Burial	2	103.4	300	8272	3	10	10	4.2	42.6	15	0	8	66	0.1	6.6	100	103.4	44	3.1	9.7	11.6	0.0	4	15.6		
								Bundled	Barge	Post Burial	2	103.4	250	8272	3	5	10	8.4	55.2	18	0	8	81	0.08	6.5	100	103.4	44	3.1	9.6	11.5	0.0	4	15.5		
								Single HVDC	Ship	Ploughed	4	206.8	250	8272	3	10	10	4.2	42.6	35	0	12	90	0.1	9.0	5	10.34	5	0.4	9.4	11.2	0.0	4	15.2		
								Single HVDC	Barge	Ploughed	4	206.8	150	8272	3	5	10	8.4	55.2	58	0	12	125	0.08	10.0	5	10.34	5	0.4	10.4	12.5	0.0	4	16.5	15.2	16.5
6	Fraserburgh Beach	78.9	1x Telecoms SHEFA	1	Yes	200	4.5	Bundled	Ship	Post Burial	2	157.8	300	12624	4	10	10	4.2	56.8	22	0.25	8	87	0.1	8.7	100	157.8	66	4.7	13.4	16.1	2.0	4.5	22.6		
								Bundled	Barge	Post Burial	2	157.8	250	12624	4	5	10	8.4	73.6	27	0.25	8	109	0.08	8.7	100	157.8	66	4.7	13.4	16.1	2.0	4.5	22.6		
								Single HVDC	Ship	Ploughed	4	315.6	250	12624	4	10	10	4.2	56.8	53	0.25	12	122	0.1	12.2	5	15.78	7	0.5	12.7	15.2	4.0	4.5	23.7		
								Single HVDC	Barge	Ploughed	4	315.6	150	12624	4	5	10	8.4	73.6	88	0.25	12	174	0.08	13.9	5	15.78	7	0.5	14.4	17.3	4.0	4.5	25.8	22.6	25.8
7	Fraserburgh Golf Carpark	78.9	1x Telecoms SHEFA	1	Yes	360	4.5	Bundled	Ship	Post Burial	2	157.8	300	12624	4	10	10	4.2	56.8	22	0.25	8	87	0.1	8.7	100	157.8	66	4.7	13.4	16.1	2.0	4.5	22.6		
								Bundled	Barge	Post Burial	2	157.8	250	12624	4	5	10	8.4	73.6	27	0.25	8	109	0.08	8.7	100	157.8	66	4.7	13.4	16.1	2.0	4.5	22.6		
								Single HVDC	Ship	Ploughed	4	315.6	250	12624	4	10	10	4.2	56.8	53	0.25	12	122	0.1	12.2	5	15.78	7	0.5	12.7	15.2	4.0	4.5	23.7		
								Single HVDC	Barge	Ploughed	4	315.6	150	12624	4	5	10	8.4	73.6	88	0.25	12	174	0.08	13.9	5	15.78	7	0.5	14.4	17.3	4.0	4.5	25.8	22.6	25.8
8	Philorth	78.7	1x Telecoms SHEFA	1	Yes	510	5	Bundled	Ship	Post Burial	2	157.4	300	12592	4	10	10	4.2	56.8	22	0.25	8	87	0.1	8.7	100	157.4	66	4.7	13.4	16.1	2.0	5	23.1		
								Bundled	Barge	Post Burial	2	157.4	250	12592	4	5	10	8.4	73.6	27	0.25	8	109	0.08	8.7	100	157.4	66	4.7	13.4	16.1	2.0	5	23.1		
								Single HVDC	Ship	Ploughed	4	314.8	250	12592	4	10	10	4.2	56.8	53	0.25	12	122	0.1	12.2	5	15.74	7	0.5	12.7	15.2	4.0	5	24.2		
								Single HVDC	Barge	Ploughed	4	314.8	150	12592	4	5	10	8.4	73.6	88	0.25	12	174	0.08	13.9	5	15.74	7	0.5	14.4	17.3	4.0	5	26.3	23.1	26.3
9a	Inverallochy (southern)	84.7	1x Telecoms SHEFA	1	No			Bundled	Ship	Post Burial	2	169.4	300	13552	4	10	10	4.2	56.8	24	0.25	8	89	0.1	8.9	100	169.4	71	5	13.9	16.7	2.0	0	18.7		
								Bundled	Barge	Post Burial	2	169.4	250	13552	4	5	10	8.4	73.6	29	0.25	8	111	0.08	8.9	100	169.4	71	5	13.9	16.6	2.0	0	18.6		
								Single HVDC	Ship	Ploughed	4	338.8	250	13552	4	10	10	4.2	56.8	57	0.25	12	126	0.1	12.6	5	16.94	8	0.6	13.2	15.8	4.0	0	19.8		
								Single HVDC	Barge	Ploughed	4	338.8	150	13552	4	5	10	8.4	73.6	95	0.25	12	181	0.08	14.5	5	16.94	8	0.6	15.1	18.1	4.0	0	22.1	18.6	22.1
9b	Inverallochy (northern)	85.5	1x Telecoms SHEFA	1	No			Bundled	Ship	Post Burial	2	171	300	13680	4	10	10	4.2	56.8	24	0.25	8	89	0.1	8.9	100	171	72	5.1	14.0	16.8	2.0	0	18.8		
								Bundled	Barge	Post Burial	2	171	250	13680	4	5	10	8.4	73.6	29	0.25	8	111	0.08	8.9	100	171	72	5.1	14.0	16.8	2.0	0	18.8		
								Single HVDC	Ship	Ploughed	4	342	250	13680	4	10	10	4.2	56.8	57	0.25	12	126	0.1	12.6	5	17.1	8	0.6	13.2	15.8	4.0	0	19.8		
								Single HVDC	Barge	Ploughed	4	342	150	13680	4	5	10	8.4	73.6	95	0.25	12	181	0.08	14.5	5	17.1	8	0.6	15.1	18.1	4.0	0	22.1	18.8	22.1
10	Rattray	94.7	1x Telecoms SHEFA	1	Yes	350	4.5	Bundled	Ship	Post Burial	2	189.4	300	15152	4	10	10	4.2	56.8	27	0.25	8	92	0.1	9.2	100	189.4	79	5.6	14.8	17.8	2.0	4.5	24.3		
								Bundled	Barge	Post Burial	2	189.4	250	15152	4	5	10	8.4	73.6	32	0.25	8	114	0.08	9.1	100	189.4	79	5.6	14.7	17.6	2.0	4.5	24.1		
								Single HVDC	Ship	Ploughed	4	378.8	250	15152	4	10	10	4.2	56.8	64	0.25	12	133	0.1	13.3	5	18.94	8	0.6	13.9	16.7	4.0	4.5	25.2		
								Single HVDC	Barge	Ploughed	4	378.8	150	15152	4	5	10	8.4	73.6	106	0.25	12	192	0.08	15.3	5	18.94	8	0.6	15.9	19.1	4.0	4.5	27.6	24.1	27.6
11	St Fergus	97.9	1x Telecoms SHEFA 11 x pipeline	12	Yes	350	4.5	Bundled	Ship	Post Burial	2	195.8	300	15664	4	10	10	4.2	56.8	28	3	8	96	0.1	9.6	100	195.8	82	5.8	15.4	18.5	24.0	4.5	47.0		
								Bundled	Barge	Post Burial	2	195.8	250	15664	4	5	10	8.4	73.6	33	3	8	118	0.08	9.4	100	195.8	82	5.8	15.2	18.2	24.0	4.5	46.7		
								Single HVDC	Ship	Ploughed	4	391.6	250	15664	4	10	10	4.2	56.8	66	3	12	138	0.1	13.8	5	19.58	9	0.7	14.5	17.4	48.0	4.5	69.9		
								Single HVDC	Barge	Ploughed	4	391.6	150	15664	4	5	10	8.4	73.6	109	3	12	198	0.08	15.8	5	19.58	9	0.7	16.5	19.8	48.0	4.5	72.3	46.7	72.3
																																	Totals	8.9	72.3

Table Assumptions

A cable ship for installation will have a day rate excluding fuel and lubes of approximately	100,000	£/day
A cable ship ploughing a single cable will install at approximately	150-350	m/hr
A crossing will add an additional 6 hours per crossing		
A barge vessel for installation will have a day rate excluding fuel and lubes	80000	£/day
A barge ploughing a single cable will install at approximately	150-250	m/hr
A barge surface laying a bundled cable will install at approximately	200-300	m/hr
A single cable crossing will have an approximate cost (a bundle cable will be classed as one crossing)	1,000,000	£ each
Post burial vessel will be required for all operation types excluding fuel and lubes	70,000	£/day
Post burial rate	80-200	m/hr
vessel storage capacity	4000	t
cable weight	40	kg/m
transit will be from a northern european port distance	500	miles
Additional delays for shore end activities	2	Days per landing
Additional delays for substation activities	1	days/cable
HDD costs are indicative and will require costing from a HDD specialist to ensure the feasibilty and costs are correct.		
Costs are indicative, and are based on cable route length combined with additional costs from crossings and HDD requirements		