Intended for
Viking Energy Wind Farm LLP

Date
August 2022

Project Number
1620009158

VIKING ENERGY WIND FARM
PLANNING MONITORING OFFICER AUDIT REPORT 022: 21ST JULY 2022 TO 21ST AUGUST 2022

RAMBOLL

VIKING ENERGY WIND FARM
PLANNING MONITORING OFFICER AUDIT REPORT
022: 21ST JULY 2022 TO 21ST AUGUST 2022

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1. AUDIT DETAILS

1.1 Audit Details

Audit Number	PMO 022
Location	Kergord Mid Kame Ridge Main Construction Compound Nesting North Nesting Substation
Weather Conditions	Dry, mild and partly cloudy (13°C).
Audit Date	17th August 2022
Audit Period	21st July to 21st August 2022
Audit Owner	Ramboll UK Ltd

1.2 Distribution

Position	**Action**
Ramboll Project Director Planning Monitoring Officer	For information
SSE Renewables Development Manager	For information
SSE Renewables Consents Manager	For information
SSE Renewables Environmental Advisor	For information
RJ McLeod Design Management Engineer	For Information
Shetland Islands Council Planning Enforcement Officer	For information
Shetland Islands Council Natural Heritage Officer	For information

1.3 Terms of Reference

This audit has been completed with reference to the following key documents:

- Application under Section 36C of the Electricity Act 1989 to vary the consent granted under Section 36 of that Act on 4 April 2012 to construct and operate the Viking Wind Farm located in Shetland Islands Council Planning Authority Area and for a direction under Section 57 of the Town and Country Planning (Scotland) Act 1997 for planning permission to be deemed to be granted in respect of the proposed development (i.e. the 'Variation Application').

The Viking Wind Farm project will comprise the construction of 103 wind turbines with a turbine tip height of 155 m; development of a temporary construction compound; construction of associated access tracks; development of a substation; development of a convertor station; erection of permanent Met Masts; and the excavation of borrow pits.

The project was consented as detailed above, receiving Section 36C Consent and deemed planning permission on 24th May 2019.

Separate planning consents are in place for the following specific aspects of the development:

- Construction of the Kergord Access Track[1] (consented on 29th April 2019).
- Re-alignment of Sandwater Road[2] between the Burn of Weisdale and the junction with the A970 to facilitate construction access for the Viking Wind Farm (consented on 26th May 2020).
- Formation of temporary construction compounds at two locations; Sandwater (Main)[3], consented on 22nd June 2020; and North (South of Voe)[4] consented on 9th September 2020.

1.4 Role of the Planning Monitoring Officer

Condition No. 3 of the Variation Application states that:

"No development shall commence unless and until the Planning Authority has approved in writing the terms of appointment by the Company of an independent and suitably qualified environmental consultant to assist the Planning Authority in monitoring compliance with the terms of the deemed planning permission and conditions attached to this consent (a Planning Monitoring Officer ("PMO"). The terms of the appointment shall:

- Impose a duty to monitor compliance with the terms of the deemed planning permission and conditions attached to this consent;
- Require the PMO to submit a monthly report to the Planning Authority summarising works undertaken on site; and
- Require the PMO to report to the Planning Authority any incidences of non-compliance with the terms of the deemed planning permission and conditions attached to this consent at the earliest practical opportunity.

The PMO shall be appointed on the approved terms throughout the period from Commencement of Development to completion of post construction restoration works.

In order to discharge the above requirements, the PMO undertakes site-based audits at monthly intervals to monitor the compliance with the conditions of the consent. The primary documents used for compliance monitoring are the Construction Environmental Management Plan (CEMP); and the Pollution Prevention Plan (PPP). Additional documents will be referenced as required for specific detail.

The following traffic light system is used to indicate action status:

	Green – activities appear to be compliant with the CEMP, PPP and other applicable environmental management procedures and plans and there are no other issues.
	Amber – in general activities are compliant with the CEMP, PPP and other applicable environmental management procedures and plans but there are minor actions required.
	Red – activities may not be compliant with the CEMP, PPP and other applicable environmental management procedures and there are critical actions.

[1] Shetland Islands Council Planning Reference No: 2018/096/PFF
[2] Shetland Islands Council Planning Reference No: 2019/079/PPF
[3] Shetland Islands Council Planning Reference No: 2019/188/PPF
[4] Shetland Islands Council Planning Reference No: 2019/210/PPF

1.5 General Limitations and Reliance

This report has been prepared by Ramboll UK Limited ("Ramboll") exclusively for the intended use by Viking Energy Wind Farm LLP (the "client"). No other warranty, expressed or implied, is made as to the professional advice included in this report or in respect of any matters outside the agreed scope of the services or the purpose for which the report and the associated agreed scope were intended or any other services provided by Ramboll.

In preparation of the report and performance of any other services, Ramboll has relied upon site observations, publicly available information, information provided by the client and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to Ramboll was accurate, complete and available to Ramboll within the reporting schedule.

Ramboll's services are not intended as legal advice, nor an exhaustive review of site conditions and/or compliance. This report and accompanying documents are intended to form a record for the purpose of documenting compliance with Condition No. 3 of the Variation Application. Ramboll neither owes nor accepts any duty to any third party, unless formally agreed by Ramboll through that party entering into, at Ramboll's sole discretion, a written reliance agreement.

2. INTRODUCTION

2.1 Objectives of Audit

The purpose of the PMO Audits is to monitor the provision of appropriate environmental management at active work sites of the project, via desk-based review of relevant documentation and site visits to be undertaken on a monthly basis to ensure compliance with the conditions of the planning consent and associated environmental management plans.

2.2 Scope of Audit

The scope of the audit was as follows:

- Liaison with SIC regarding public concerns or complaints received during the audit period (if any).
- Review of documents provided by the Client and Principal Contractor prior to and following the audit visit. Specific references are included in the relevant sections of the report.
- A site visit attended by the PMO, SSE Renewables, RJM Environmental Clerk of Works and SIC Planning Enforcement Officer undertaken on 17th August 2022 which included the following locations:
  - Kergord;
  - Mid Kame Ridge;
  - Main Compound;
  - Substation;
  - Nesting; and
  - North Nesting.
- Discussions were held with the Geotechnical Clerk of Works (GCoW), Environmental Clerk of Works (ECoW) and Archaeological Clerk of Works (ACoW).

A selection of photographs taken during the audit are included in Appendix 1.

2.3 Site Personnel

The following site personnel were interviewed as part of this audit:

Company	Position
SSE Renewables	Safety, Health and Environment (SHE) Advisor
RJ McLeod	Design Engineer
Tony Gee and Partners	Geotechnical Clerk of Works
MBEC	Environmental Clerk of Works
Headland Archaeology	Archaeological Clerk of Works

3. SITE SETTING, RECORDS AND OBSERVATIONS

Observations made during the audit are described in this section. Corresponding photographs are included in Appendix 1, alongside a plan of the site indicating the location of each photograph.

3.1 Kergord

3.1.1 Site Setting and Activities

Access to the Kergord Arrays is taken via the Kergord Access Track (KAT), which was accessed from the Sandwater track along the southern boundary of the central area of the development.

Activities in this area during the audit included progression of cable trench, bridge and peat restoration areas, rock extraction at borrow pits and formation of turbine base foundation.

3.1.2 Observations

Following the steelwork being fixed in K61, K67 and K68 since the last audit, the construction of tracks, bases and steelwork has been completed in this area. Four more turbine bases have been poured since the last audit, with three turbine bases left in the area for concrete pouring and backfilling. Installed drainage measures are of good quality and preventative mitigation will continue to be installed as cable trench excavation continues. During the visit, a water pump has been placed at K61 in preparation for concrete pouring. The PMO also observed activities in KBP05 and KBP03.

The PMO observed the construction crew in the process of removing the shutters from the concrete abutment at watercourse crossing WC03 (Photo 1), which drains the Truggles Water (between K64 and 66). There was evidence of ground reinstatement around the foot of the bridge foundations, rock filled gabions and silt fencing (Photo 2), which was noted to be good practice, with reinstatement progress in parallel with the work, rather than being left until the end.

3.2 Mid Kame Ridge

3.2.1 Site Setting and Activities

The Mid Kame Ridge (MKR) is accessed from the Sandwater track and stretches northwards to Hamarigrind Scord.

The laying of the cables, covering of the cables with site won aggregate and backfilling was being undertaken during the audit.

3.2.2 Observations

Following the peat movement event that has been reinstated and reported in PMO021, a new protocol for reporting has been put in place to encourage effective collaboration and avoid similar events from not being reported.

During the visit, construction of cable joint (Photo 3) and backfill of cable trench have been observed in the area (Photo 4). Once cable has been laid the cable is tested and the crushed rock level is checked before backfilling. Backfill consists of a layer of crushed rock, warning tape, a thin layer of peat to hold the tape down before a thicker layer of peat (Photo 5). Concrete cable plugs (Photo 6) have been installed in cable trenches on top of drain outlets (Photo 7) to allow water to flow while preventing flush out of the finer bedding materials.

Works for the cross country cable route on the west side of MKR have slowed to prioritise backfilling opened cable trench ahead of the wetter winter season.

3.3 North Compound

3.3.1 Site Setting and Activities

The North Compound is located towards the northern limit of the site on the eastern side of the A970. At the North Compound batching plant 1 and 2 are in place.

3.3.2 Observations

On the day of visit, the batching plants in the North Compound were being used for planned concrete pouring activities. Due to health and safety protocol, the PMO could not visit the North Compound during the audit.

However, the RJM Design Engineer shared photographs from their internal audit showing the IBCs reported in PMO 19-21 are now on temporary impermeable bunding in the form of visqueen sheeting and stone (Photo 8). The PMO will visit the North Compound during the next audit where possible.

3.4 North Nesting

3.4.1 Site Setting and Activities

The northern Nesting turbine arrays are located towards the northern limit of the site on the eastern side of the A970. Activities in this area during the audit included progression of cable trench, peat restoration areas, rock extraction at borrow pit and formation of turbine base foundation.

3.4.2 Observations

Concrete has been poured and backfilled at turbine base N101 and N93 has been backfilled since the last audit. All concrete turbine bases have been completed. The remaining turbine bases will be backfilled once it has set and quality checked.

Installed in May, the bird screen at N100, is one of the last remaining bird mitigation measures on site (Photo 9) for this breeding season. Bird screens were installed to screen human activities and minimise disturbance on protected birds. The installed measures have been a significant success as a breeding pair fledged chicks on site, including on the nearby lochan at N100. The road towards the last remaining bird constraints in this breeding season has been restricted to avoid disturbance. Access is only granted for work activities under an ornithological working brief.

PMO observed activities in NBP01 and Peat Restoration Area P19. Recommendations raised during snagging by GCoW and ECoW are being addressed at P19 with Phase 1 of peat restoration completed at P20 (Photo 10). Phase 1 completion represents the end of peat redeposition and the assurance of stability. Phase 2 works will tie-in adjacent areas to create the overall peat restoration area as specified through the Habitat Management Plan and refined through site works.

3.5 Main Compound

3.5.1 Site Setting and Activities

The Main Compound is located at the southern extent of the development site, accessed from the A970. The lower level comprises car parking and site offices and welfare facilities. The upper level is in use for material and equipment laydown.

3.5.2 Observations

The car parking, site offices and welfare facilities are functioning well. All materials including on the upper level are stored according to regulations. No evidence of leaks or staining was observed in the vicinity of the store. All waste skip labels have been updated for clarity, old labels on skips to be removed to avoid confusion (Photo 11).

3.6 Nesting

3.6.1 Site Setting and Activities

The Nesting arrays are accessed from the A970. Activities in this area during the audit included progression of cable trench, laying of cables, peat restoration areas, rock extraction at borrow pits and formation of turbine base foundation.

3.6.2 Observations

Anchor cage instalment, steelwork fixing and concrete pouring at turbine bases are progressing smoothly in the area with 32 bases left to be poured. Concrete at N130 has been recently poured (Photo 12), and PMO observed N114 being poured from afar. PMO also observed activities in NBP05.

A section of cross-country cable route in the area has been diverted to reduce work on or near A970 to minimise disturbance to road users. Work has begun on the diverted route near Spur 19 (Photo 13).

3.7 Substation

3.7.1 Site Setting and Activities

The Substation occupies the northern third of the HVDC Converter Station Platform located in the Kergord Valley, between Mid Kame Ridge and Kergord. Access to the Substation is taken via the KAT. Only the substation area is subject to the PMO audit. Activities in this area included construction of building frame, cladding and pre-cast equipment foundations.

3.7.2 Observations

Ecologists have completed surveying the extent of rare bog orchid (Photo 14). Where impacts of cable installation are not avoidable, a small colony of rare bog orchid has been translocated.

Diversion of the Northern Watercourse as reported in PMO021 has been completed with additional culvert being installed (Photo 15). Construction of substation cable under diverted Northern Watercourse has begun (Photo 16). Once completed, the Northern Watercourse will be restored to its original location, on top of the substation cable.

The fuel storage at the substation was noted to be in good order, with spill kit and fire extinguisher provided. The waste skips are well labelled.

3.8 Communication with Clerks of Work

3.8.1 GCoW

Condition 39 of the planning consent requires the appointment of a Geotechnical Clerk of Works (GCoW) to minimise the risk of peat failure arising from the development. A discussion was held between the PMO and GCoW before and after the site visit, on the 17th August and 22nd August, 2022.

The GCoW described the ongoing monitoring work across the site. This has included monitoring of the general construction works including cable routes, monitoring peat restoration areas and providing advice on peat handling.

The GCoW observed a change in construction method following peat movement reported in PMO022 to a more effective alternative which is welcomed. The GCoW is having ongoing discussions with the Principal Contractor and SSE on the next steps for the peat restoration areas and temporary peat storage area along cross country cable route.

3.8.2 ECoW

Condition 19 of the planning consent requires the appointment of an Ecological Clerk of Works to ensure protection of the natural heritage of the area. A discussion was held between the PMO and ECoW before the site visit, on the 16th August 2022.

The ECoW continues to work with the Principal Contractor to identify and implement mitigation measures throughout different stages of construction. The measures aim to ensure the project maintains compliance with relevant licences. The ECoW is monitoring the progress of these measures on an ongoing basis.

The ECoW noted the importance of dust mitigation, including mitigating the dust spread onto nearby vegetation. The ECoW understands that RJM have five water bowsers available to damp down tracks.

The ECoW is having ongoing discussion with the Principal Contractor on more effective means of communication and mitigation on open cable trenches in preparation for the wetter winter season.

3.8.3 ACoW

Condition 29 of the planning consent requires the appointment of an Archaeological Clerk of Works to ensure archaeological features are protected and recorded during the development. The ACoW communicated the ongoing works to the PMO on the 10th August 2022.

The ACoW described the ongoing and completed monitoring works across the site. Ongoing works mostly related to cabling work.

The ACoW noted dialogue with the SSE Environmental Site Manager regarding the level of monitoring required for the cable trench works and the cross-country cable routes has completed and are in agreement.

The ACoW has continued with daily checks across the project site.

3.9 Scope of next audit

The scope of the next PMO audit will be dependent on the specific activities undertaken at the development site in the preceding days and weeks. This is likely to include:

- Update on progress of construction works at Kergord, Mid Kame Ridge, Sandwater Road, North Compound and North Nesting, Main Compound and Nesting.
- Consideration of any comments received by the SIC or the Developer in relation to the works, including visits to view specific areas of concern.
- Update on the cable track areas.
- Update on the construction of the VEWF Substation and undertake PMO audit of the substation area.
- Updates from the ACoW, ECoW and GCoW teams.

4. AUDIT FINDINGS AND REQUIRED ACTIONS

Issue	Auditor Comments	Required Action	Action Owner	Status
Materials Storage and Handling (e.g. oil/fuel storage and peat/mineral soil storage and handling).	Peat restoration areas are managed through the project Habitat Management Plan and by a dedicated HMPO which balances the geotechnical and ecological objectives of the restoration. Potential risks relating to storage of peat are recorded on the PRRs and communicated to the Principal Contractor to allow mitigation / monitoring to be undertaken. The PMO will request evidence in future audits to confirm compliance with requirements for GCoW and ECoW approval of proposed peat restoration areas. The project COSHH stores are typically used for the storage of maintenance oils and greases. The stores were all locked and the assessment for each substance was readily available in each store. The stores were bunded and no leaks or staining was observed around the stores.	No action required	Principal Contractor	Green
Materials Storage and Handling (e.g. oil/fuel storage and peat/mineral soil storage and handling).	. The Principal Contractor has confirmed that a temporary "bund" made up of a visqueen sheet is now used for IBCs that are stored off the hardstanding. Photos have been provided and included in Appendix 1. However, PMO could not access area during visit to confirm.	PMO to access area and confirm that all IBCs are either on hardstanding or temporary bund.	Principal Contractor	Green
Natural and Built Environment (e.g. ecology, biosecurity, protected sites, archaeology and site restoration).	Ecological constraints identifed by the ECoW team are communicated to the Principal Contractor and Developer to allow mitigation measures to be implemented and rescheduling of preparatory and construction work as required. These are also marked out by poles on the site and included on ecological sensitive plans issued to the Principal Contractor.	No action required.	N/A	Green

Issue	Auditor Comments	Required Action	Action Owner	Status
	Watching briefs have been undertaken by the ACoW where potential archaeolgical constraints are identifed. Where there are known archaelogical features the track is micro-sited to avoid the feature.			
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	The project has received authorisation to abstract water from eight locations from SEPA. The authorisation allows the water to be used for dust suppression. The PMO has reviewed documents confirming that the appropriate registration is in place with SEPA under The Water Environment (Controlled Activities) (Scotland) Regulations 2011, as amended. During the audit the PMO observed spill kits to be well stocked and readily available in areas where liquids are stored. The project continues to improve the pollution prevention measures with additional measures installed in high risk areas. PMO observed effective measures in place including but not limited to cut off drains, settlement ponds, silt controls, track side ditches and water pump reactor.	No action required.	N/A	Green
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	Good practice pollution prevention measures were observed around the site.	No action required.	N/A	Green
Noise, Dust, and Air Quality	The ECoW has highlighted the ongoing need for dust mitigation.	Continued monitoring of dust conditions and implementation of control measures as needed; and ongoing liaison as required with other construction operators.	N/A	Green

Issue	Auditor Comments	Required Action	Action Owner	Status
Resources, Waste and Transport.	The project manages wastes through a Site Waste Management Plan, the plan identifies the contractors transferring the waste and the disposal sites. Documents are retained in line with regulatory requirements.	No action required.	N/A	Green
Pre-Planning Works (e.g. site set-up and general management, access tracks, community liaison).	Evidence of pre-planning works observed and reported during the audit included archaeological watching brief, community liaison. Potential constraints are identified and suitable mitigation measures implemented to prevent negative impacts.	No action required.	N/A	Green

APPENDIX 1
SITE LOCATION PLAN, PEAT RESTORATION PLAN AND PHOTOLOG

FOR ARRAYS DETAIL PLEASE REFER TO DRAWING NUMBER SPECIFIED ON MAIN PLAN VIEW

- ARRAY A - REFER TO SWECO DRAWING 65201850-100-A-110
- ARRAY B - REFER TO SWECO DRAWING 65201850-100-B-110
- ARRAY C - REFER TO SWECO DRAWING 65201850-100-C-110
- ARRAY D - REFER TO SWECO DRAWING 65201850-100-D-110
- ARRAY E - REFER TO SWECO DRAWING 65201850-100-E-110
- ARRAY F - REFER TO SWECO DRAWING 65201850-100-F-110
- ARRAY G - REFER TO SWECO DRAWING 65201850-100-G-110
- ARRAY H - REFER TO SWECO DRAWING 65201850-100-H-110
- ARRAY I - REFER TO SWECO DRAWING 65201850-100-I-110
- ARRAY J - REFER TO SWECO DRAWING 65201850-100-J-110
- ARRAY K - REFER TO SWECO DRAWING 65201850-100-K-110
- ARRAY L - REFER TO SWECO DRAWING 65201850-100-L-110
- ARRAY M - REFER TO SWECO DRAWING 65201850-100-M-110
- ARRAY N - REFER TO SWECO DRAWING 65201850-100-N-110
- ARRAY O - REFER TO SWECO DRAWING 65201850-100-O-110
- ARRAY P - REFER TO SWECO DRAWING 65201850-100-P-110

NOTES

1. CONTAINS ORDNANCE SURVEY DATA RECEIVED FROM SSE ON 27.08.2020.
2. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES AOD UNLESS SHOWN OTHERWISE.
3. TURBINE LOCATIONS BASED ON: "VIKING MICROSITING TRACKER" DATED 24.07.2020.
4. ACCESS TRACKS AND HARDSTANDINGS BASED ON SSE LAYOUT: "S115056-TG-XX-XX-M3-C-1000_ALL_SPURS _HARDSTANDS-P01". ARRAY LAYOUTS SUBJECT TO VALUE ENGINEERING DESIGN BY RJM.
5. FOR CULVERT CATCHMENT ASSESSMENT REFER TO SWECO DRAWING 65201850-100-101.

LEGEND

- SITE PLANNING BOUNDARY
- PROPOSED NEW TRACK
- PROPOSED CONSTRUCTION COMPOUND
- PROPOSED COMPOUND
- PROPOSED BATCHING PLANT
- BORROW PIT SEARCH AREA
- PROPOSED WTG LOCATION
- AREA 1 - WEST (KERGORD)
- AREA 2 - RIDGE (KERGORD CENTRAL)
- AREA 3 - EAST (NESTING SOUTH)
- AREA 4 - NORTH (NESTING NORTH)
- PROPOSED WATERCOURSE CROSSING
- 50m MICROSITING
- SANDWATER ROAD

SITE ENTRANCE: A970 HAMARIGRIND SCORD
SITE ENTRANCE A970 SCARS QUILSE
NORTH COMPOUND AND BATCHING PLANT COMPOUND 3
WEST BATCHING PLANT COMPOUND
CONVERTER STATION PLATFORM
EAST BATCHING PLANT COMPOUND
MAIN COMPOUND
SITE ENTRANCE: B9075 SANDWATER ROAD
SITE ENTRANCE: UPPER KERGORD ROAD
SITE ENTRANCE: A970 EAST OF SANDWATER
WEST COMPOUND
SITE ENTRANCE: A971 SCORD OF SOUND

SCALE 1 : 25000
1000m 0 1000m

ACCEPTANCE OF DRAWING

CODE 1 ACCEPTED		CODE 2 ACCEPTED WITH COMMENTS		CODE 3 REJECTED		CODE 4 INFORMATION ONLY	

SSE Drawing Number: 177-0802-1001-000
SSE Revision: 05

Rev.	Date	Amendment Details	Drawn	Chk'd	App'd
03	07.07.21	FOR CONSTRUCTION SSE REV05	BH	RP	KS
02	08.06.21	FOR CONSTRUCTION SSE REV04	BH	RP	KS
01	23.02.21	FOR CONSTRUCTION SSE REV03	BH	RP	KS

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Client: SSE Renewables; RJ McLEOD; viking energy – Harnessing Shetland's natural resources

Drawing Status: FOR CONSTRUCTION

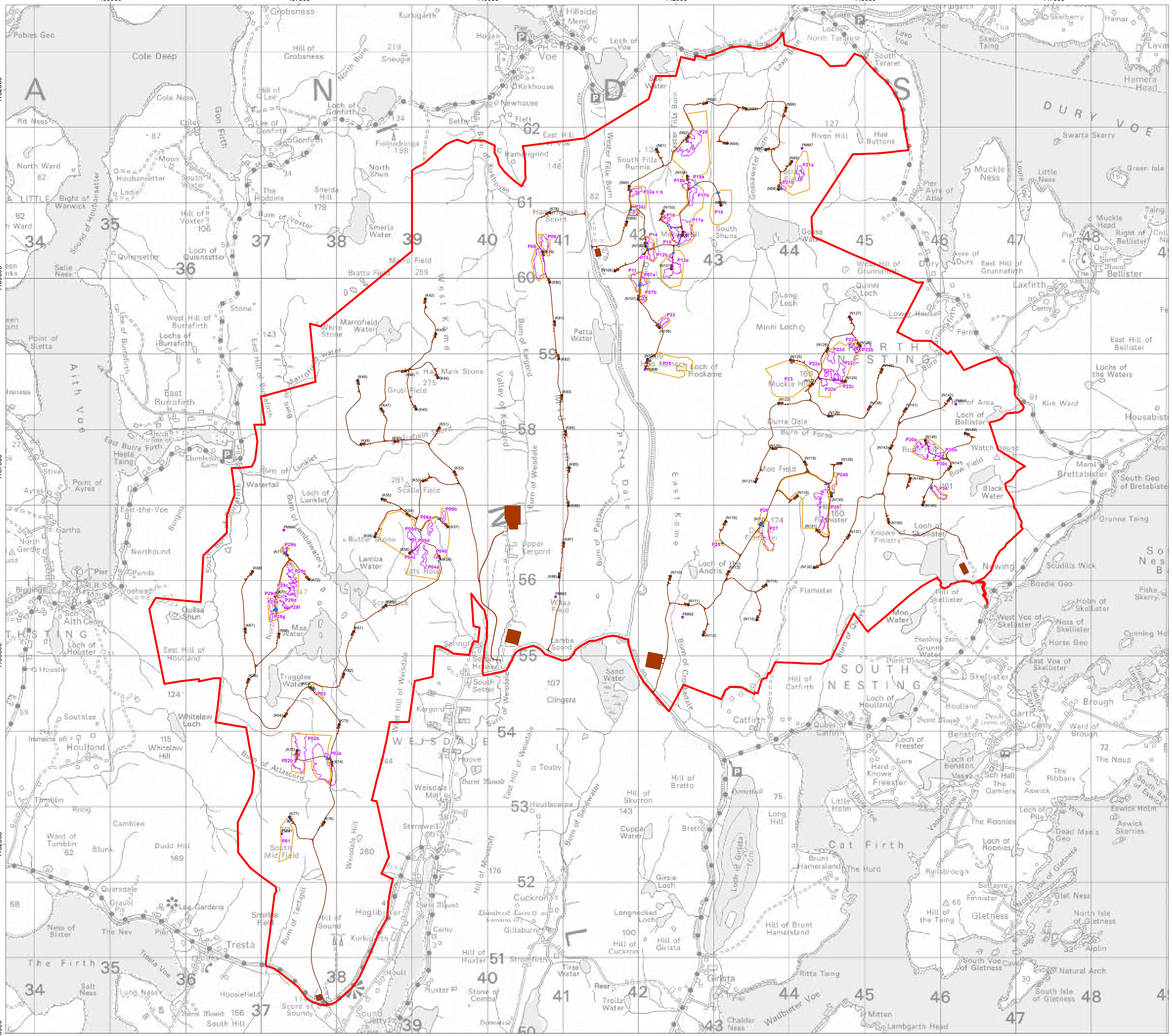
Project Title: VIKING WIND FARM

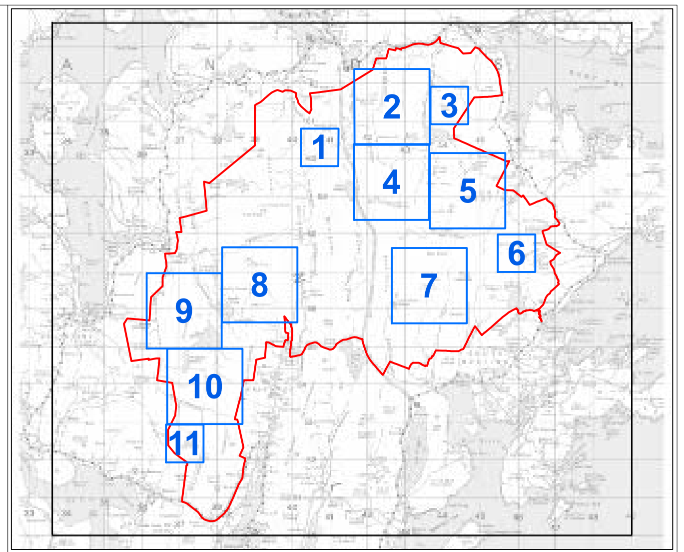
Drawing Title: SITE GENERAL ARRANGEMENT

Scale	Designed	Drawn	Checked	Approved
1:25000	RV	RV	RP	KS
Original Size: A1	Date: 11.09.20	Date: 11.09.20	Date: 17.09.20	Date: 17.09.20

Drawing Number: 65201850-100-100
Revision: 03

P:\6551\65201850_RJM_Viking_WF\000\04 Deliverables Management\Drawings\Working\1_General_Infrastructure\ 65201850-100-100_Site_General_Arrangement.dwg





Legend

- Site Boundary
- Turbine
- Permanent Met Mast
- Indicative Cattle Grid Location
- Indicative Gate Location
- Fencing
- HMP Phase 1 - Areas of Peat Deposition and Profiling
- Microsited Site Layout

Note 1: Phase 1 areas beyond the fence line are to allow cable laying and access.

Note 2: Areas within the fence line not noted as HMP Phase 1 will be subject to Phase 2 Technique considerations.

0 1 2 km

N

Project Name

VIKING ENERGY WIND FARM

Drawing Title

PEAT RESTORATION

Rev	Date	Remarks	Drwn	Chkd
R0	23/02/2021	First Issue	TD	EM
R1	12/01/2022	Revised HMP	AM	DM
R2	04/02/2022	Fencing boundary changes, gates and cattle grids added	AM	DM

Drawing Number

LN000046-VIK-ENV-SK-0040-01

Scale	Plot Size	Datum	Projection
1:18,000	A0	OSGB36	BNG

Photo 1. Removal of shutters from concrete abutment at WC03

Photo 2. Silt fence at WC03

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

Photo 3. Construction of cable join near K78

Photo 4. Backfilling of cable trench near K79 in progress

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

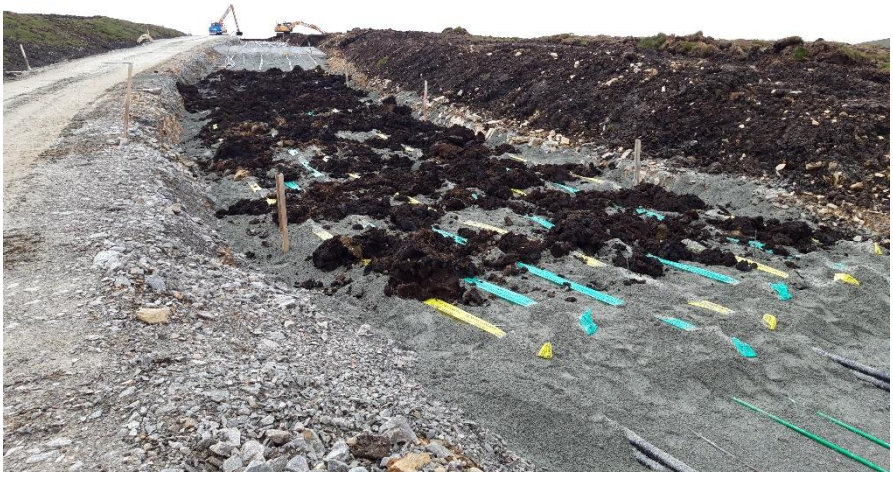


Photo 5. View of layers of cable trench backfill near K80

Photo 6. Example of concrete cable plugs in cable trench

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

Photo 7. Location of concrete cable plugs to be installed by drainage outlet

Photo 8. IBCs stored on temporary bund (Photo from RJ McLEOD)

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

Photo 9. Bird screen at N100

Photo 10. View of completed P20 (by track) and improvement on P19 in progress (by horizon)

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

Photo 11. New waste skip label on stick with old label on skip to be removed

Photo 12. Recently poured base at N130

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

Photo 13. View of cross country cable construction in progress near Spur 19

Photo 14. Area of rare bog orchid (lighter colour) to the left of substation in photo

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022

Photo 15. Additional culvert in diverted Northern Watercourse at substation

Photo 16. Construction of substation cable under previous location of Northern Watercourse

Title: Photographic Log	**Client:** Viking Energy Wind Farm
Site: Viking Energy Wind Farm	**Date:** 17th August 2022