

Intended for  
**Viking Energy Wind Farm LLP**

Date  
**October 2023**

Project Number  
**1620009158**

# **VIKING ENERGY WIND FARM PLANNING MONITORING OFFICER AUDIT REPORT 036: 18<sup>TH</sup> SEPTEMBER 13<sup>TH</sup> OCTOBER 2023**

**VIKING ENERGY WIND FARM  
PLANNING MONITORING OFFICER AUDIT REPORT  
036: 18TH SEPTEMBER 13TH OCTOBER 2023**

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# 1. AUDIT DETAILS

## 1.1 Audit Details

<b>Audit Number</b>	PMO 036
<b>Location</b>	Kergord Mid Kame Ridge Main Construction Compound North Nesting Nesting Sandwater Road Substation
<b>Weather Conditions</b>	Dry and windy (12°C)
<b>Audit Date</b>	11 <sup>th</sup> October 2023
<b>Audit Period</b>	18 <sup>th</sup> September – 13 <sup>th</sup> October 2023
<b>Audit Owner</b>	Ramboll UK Ltd

## 1.2 Distribution

<b>Position</b>	<b>Action</b>
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
SSE Renewables Vestas Package Manager	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 the 24<sup>th</sup> of May 2019.



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

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

<sup>1</sup> Shetland Islands Council Planning Reference No: 2018/096/PPF

<sup>2</sup> Shetland Islands Council Planning Reference No: 2019/079/PPF

<sup>3</sup> Shetland Islands Council Planning Reference No: 2019/188/PPF

<sup>4</sup> 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 Audit 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 Shetland Islands Council (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 and SSE Renewables Environmental Advisor as undertaken on the 11<sup>th</sup> of October 2023. The site visit included the observation of the following locations:
  - Kergord;
  - Sandwater Road;
  - Main Compound;
  - North Compound;
  - Substation;
  - Nesting; and
  - North Nesting.
- Discussions were held with the RJ McLeod Design Management Engineer, SSER Geotechnical Clerk of Works (GCoW), Environmental Clerk of Works (ECoW), Archaeological Clerk of Works (ACoW) and Vestas' Package Manager.

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
RJ McLeod	Design Management Engineer
Tony Gee and Partners	Geotechnical Clerk of Works
MBEC	Environmental Clerk of Works
Headland Archaeology	Archaeological Clerk of Works
SSE	Vestas Package Manager

### 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. The turbine numbers used in the site plan have been updated to the operational numbering. The turbine numbering system previously shown is being phased following completion of turbine erection.

#### 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 observed in this area during the audit included backfilling of cable trenches, completion of track and drainage reinstatement works, borrow pit reinstatement, reprofiling of road and internal commissioning works. The cable jointing and cable testing in Kergord are complete. All turbines in the area have been erected and are now undergoing sequential commissioning.

##### 3.1.2 Observations

The majority of the cable trenches have been backfilled and all cable jointing and cable testing are now complete. Much of the site has been reinstated and hydroseeded. Hydroseeding works concentrated on the backfilled cable tracks and the works has been completed for this season and appears to be progressing well (photo 1). Further hydroseeding works, targeting the area beyond the cable tracks, will be undertaken in spring / summer of 2024.

As noted in the previous report, KBP02 has been fully reinstated and hydroseed on the lower sections. The area was inspected and the vegetation is showing signs of growth (photo 2). The drainage from the borrow pit is being continually monitored and SSE and the Principal Contractor are aware that further upgrades to the drainage system into the Burn of Lunklet may be required. This will be continually assessed over the winter period and chemical testing and reporting will continue to be shared with SEPA.

KBP05 is being used by Vestas as a satellite compound and was observed during the visit. Following the July, August and September 2023 PMO audits, the plastic sheeting at the refuelling area was inspected. Works were underway to re-sheet the area and reinstate the gravel base of the bund (photos 3 and 4). This should be re-visited during the next PMO audit, to assess the completed remediation works.

Plant nappies were observed on the majority of generators at the turbine bases across Kergord. One generator at T035 did not have a plant nappy (photo 5). SSE have informed Vestas.

Rock is continuing to be processed from KBP03; however, no further blasting is required at this borrow pit. The water draining from the borrow pit and the surrounding area is being channelled along the track and into settlement ponds due to previous issues with silty water entering Maa Loch through a peat pipe (photo 6). The diversion and settlement ponds seem to be successfully draining, and no silty water events have been recorded to date.

#### 3.2 Mid Kame Ridge and Sandwater Track

##### 3.2.1 Site Setting and Activities

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

Activities in this area include cable trench backfilling on the cross-country route from MKR to the substation and reprofiling of Sandwater track.

### 3.2.2 Observations

During the visit, the PMO observed ongoing work to backfill the cross-country cable trench from MKR to the substation (photo 7). It is noted that the access track will remain until the cable testing is complete. A silty water event occurred on the 10<sup>th</sup> of October which originated from the cross-country access route and led to silty water in the Burn of Weisdale. The run-off from the track had burst through the bund on the downgradient side due to a short period heavy rain, causing the silty water to bypass the existing mitigation measures. The incident occurred at a work area, where works were halted, and the plant was remobilised to resolve the issue. The bund was reinstated, and silt fences were installed (photo 8). The suspended sediment concentration of the burn fell (below the site limits) following the installation of the mitigation. The incident was reported to SEPA, who visited the site to measure the concentration of suspended sediment. The suspended sediment was reported to be within the permitted level at that time.

The cable testing is on going on both cross country routes. Following the successful testing of the cables, the access route will be removed and the areas reprofiled.

During the visit, reprofiling of Sandwater track was observed. This work is undertaken in anticipation of the completion of the new public road in the area. The design for the public road has now been finalised. This will involve replacing the culverts beneath the Sandwater Road, which is due to take place during the next audit period. This area should be visited during the November PMO audit to track progress.

Morgan Sindall are in the process of laying a cable from the substation to the A970 on behalf of SSE Networks (photo 9). The works are outside the scope of the PMO audit; however, it is noted that Morgan Sindall are liaising with RJ Macleod to ensure they are employing correct drainage mitigation measures and the works are not impacting the reprofiling of the Sandwater Road.

## 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. The North Compound is used by Vestas as a laydown and waste storage area.

### 3.3.2 Observations

Minimal waste was being stored on this site now that the turbine erection works have been completed. Fuel bowsers were being stored on hardstanding (photo 10) and plant nappies were present under generators (photos 11 and 12).

## 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 backfilling of the cable jointing locations, landscaping of turbine hardstanding, completion of track and drainage reinstatement works, borrow pit reinstatement and internal turbine work. All turbines in the area have been erected and are now undergoing sequential commissioning. Cable testing was ongoing in Arrays C and F during the time of the audits and will likely to be another four weeks until the testing is complete.

### 3.4.2 Observations

The majority of the cable trenches, other than in areas where jointing is required, have been backfilled. The areas of hydroseeding mentioned in previous reports were inspected again, and a good vegetation coverage was noted.

NBP01 was being backfilled and reprofiled and is near completion (photo 13). Hydroseeding will be undertaken in spring 2024. The area will be monitored for drainage over the winter months and further drainage will be installed if required.

Screens used at specific turbine bases, to obscure the line of sight between nesting Red-throated divers and works, have been removed. The temporary structures will be replaced with more robust removable structures in 2024 in readiness for hand over to the operational team. The screens will be installed during each breeding season during the operational phase.

## 3.5 Main Compound

### 3.5.1 Site Setting and Activities

The Main Compound is located at the southern extent of the 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, original site offices and welfare facilities are functioning well. The compound appeared tidy and all materials (including materials on the upper level) were stored according to regulations. No evidence of leaks was observed in the vicinity of the store. All waste skips were labelled.

## 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 backfilling of cable trenches, landscaping of turbine hardstanding, borrow pit reinstatement and internal turbine work. Cable testing in Nesting has begun and will likely be another four weeks until complete.

### 3.6.2 Observations

NBP05 was being reprofiled (photo 14). This included the remediation of a historical peat movement (previously reported) on the boundary of the borrow pit. At the time of the audit the peat was being pulled back up the slope as to reinstate the original profile (photo 15). The habitat management plan for the borrow pit is currently under review.

A silty water event was noted at the Burn of Flamister. The cause of the silty water is believed to be from the reprofiling of the surface in the north of the search area of NBP05. The event was of short duration, caused by a short period of heavy rainfall, and settlement ponds were constructed along the access track between the borrow pit and the turbine base on the day of the incident (photo 16). The settlement ponds will slow the movement of water so that the sediment drops out prior to entry into the tributaries that lead to the Burn of Flamister. The drainage in this area will continue to be monitored and should be revisited during the next PMO audit.

Plant nappies were noted below commissioning generators in almost all cases. Due to a shortage in hybrid generators, alternative diesel powered generators are being used on 11 turbines. The

generators are currently not in use and do not contain fuel. Discussions were being had between Vestas and SSE about how best to mitigate spills during the refuelling of the generators.

### **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.

#### **3.7.2 Observations**

The original laydown and refuelling area in the substation is being decommissioned, leading to minimal waste and equipment being stored in this area. In order to commission the substation transformers, a series of four high voltage generators have been installed adjacent to the transformer halls to provide the power for the commissioning process. Refuelling of the four generators was being undertaken at the time of the audit. The refuelling was being done in line with the RAMS. Drip trays, spill kits and fire extinguishers were all in place at the time of the refuelling (photo 17).

### **3.8 Communication with SSER 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 on 6<sup>th</sup> of October 2023 before the site visit.

The GCoW described the ongoing monitoring work across the site, which has included monitoring of the general construction works including reinstatement of borrow pits, peat restoration areas and providing advice on peat handling.

The GCoW has also been checking items off of the risk register and has been in conversation with the Principal Contractor regarding the remaining items on the risk register. The GCoW is currently in discussion with the Principal Contractor regarding reinstatement on NBP05.

#### **3.8.2 ECoW**

Condition 19 of the planning consent requires the appointment of an Ecological Clerk of Works (ECoW) to ensure protection of the natural heritage of the area. A discussion was held between the PMO and ECoW before the site visit, on 4<sup>th</sup> of September 2023.

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.

Borrow pit reinstatement is ongoing and being closely monitored by the ECoW. The ECoW continues to monitor the effectiveness of drainage systems especially where there have been siltation events, both reportable and non-reportable. This will continue to ensure that the permanent drainage systems are as effective as intended.

Silty water events were noted by the ECoW as covered in Section 3.2 and 3.6 above.

### 3.8.3 ACoW

Condition 29 of the planning consent requires the appointment of an Archaeological Clerk of Works (ACoW) to ensure archaeological features are protected and recorded during the development. The ACoW communicated the ongoing works to the PMO on the 5<sup>th</sup> of October 2023.

The ACoW described that the watching brief requirements have ended and there is no longer a fulltime ACoW presence on site. In agreement with the Regional Archaeologist, the ACoW will provide a visitation role until the end of the year (with provisions thereafter to be assessed). An archaeology protocol has been issued to the Principal Contractor should issues arise during periods of work when the ACoW is off-site. A site visit was undertaken by the Regional Archaeologist. The feedback was positive, and no comments or concerns were raised.

### 3.9 Communication with Vestas' Package Manager

An email update was received from the SSE Package Manager for the Vestas works on the 25<sup>th</sup> of September 2023.

Vestas confirmed that most of the remaining work is internal to the turbines, causing minimal disruption. As noted in Section 3.6.2, Vestas will increase checks on plant nappies under pre-energisation generators.

### 3.10 Communication with SIC

The PMO asked SIC if there had been any observations or complaints from members of the public regarding activities on site. SIC confirmed that no complaints or communications had been received during this audit period.

### 3.11 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. It is noted that the development has transitioned from the construction phase into the "snagging phase", whereby completed works are offered to SSE for review and feedback on issues that might need to be resolved before acceptance. 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, Nesting and Substation.
- 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 site wide reinstatement works and the cross-country cable route backfilling.
- Update on Vestas satellite compounds with particular reference to observations made during the July to October 2023 audit visits.
- Update on borrow pit detailed reinstatement and restoration plans.
- Update on culvert replacement beneath Sandwater Road.
- Update on the settlement ponds near NBP05.
- 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).	<p>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.</p> <p>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.</p> <p>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.</p>	Maintain plastic sheet bund in refuelling area. SSE to undertake further audit of the compound.	Vestas/ Principal Contractor	Green
Materials Storage and Handling (e.g. oil/fuel storage and peat/mineral soil storage and handling).	During the audit the PMO observed a diesel bowser sitting outwith the fuel storage bunded area at the Vestas Satellite. This however did not result in any spill or environmental incident. It is noted that the bowser had been repositioned to facilitate repair works.	Moving the diesel bowser back into the fuel storage bunded area following repair.	Vestas	Green

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Issue	Auditor Comments	Required Action	Action Owner	Status
Natural and Built Environment (e.g. ecology, biosecurity, protected sites, archaeology and site restoration).	<p>Ecological constraints identified 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.</p> <p>Watching briefs have been undertaken by the ACoW where potential archaeological constraints are identified. Where there are known archaeological features, the track is micro-sited to avoid the feature.</p>	No action required.	N/A	Green
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	<p>The project has received authorisation to abstract water from eight locations from SEPA. The authorisation allows the water to be used for dust suppression management. 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.</p> <p>The project continues to improve the pollution prevention measures with additional measures installed in high-risk areas (e.g. downstream of KBP02). The 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.</p>	No action required.	N/A	Green
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	Silty water was observed being discharged for a short time into watercourses during a period of heavy rainfall. This was not a long or uncontrolled continuous discharge. The levels of sediment in the water briefly exceeded the	No action required. Field testing for suspended solids determines whether further action and/or external reporting is required.	Principal Contractor and all sub-contractors	Green

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Issue	Auditor Comments	Required Action	Action Owner	Status
	permitted levels. Further mitigation has been put in place in the areas of concern.			
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	The SSE Renewables Environmental Manager notified the PMO in March 2023 that there have been some exceedances of Environmental Quality Standards of some trace metals in water quality sampling in the Burn of Lunklet.	Investigation into the source of the trace metals is ongoing. Short-term mitigation measures have been implemented as per the SEPA accepted mitigation plan with long-term mitigation strategy progressing.	VEWF	Amber
Pollution Prevention and Waste (e.g. use of spill kits and littering)	<p>During the August 2023 audit, the PMO observed the plastic sheeting present on the walls of the fuel storage bunded area at the Vestas Satellite compound to be damaged. A direct breach in the floor of the refuelling area was observed.</p> <p>During the September 2023 audit, the PMO observed that effort has been made to patch the damage. However, direct breach to the floor of the refuelling area can still be observed.</p> <p>During the October 2023 audit, further works were being conducted to repair the breach. This however did not result in any spill or environmental incidents.</p>	<p>Replacement of damage plastic sheeting required.</p> <p>Good maintenance and care of plastic sheeting during operations required.</p> <p>SSE to conduct audit of the compound to ensure this is carried out before the next PMO audit.</p>	Vestas	Amber
Pollution Prevention and Waste (e.g. use of spill kits and littering)	The majority of generators for the turbine commissioning works have plant nappies; however minimal numbers do not.	Plant nappies to be installed where absent. Decision of pollution control for new	VEWF	Amber

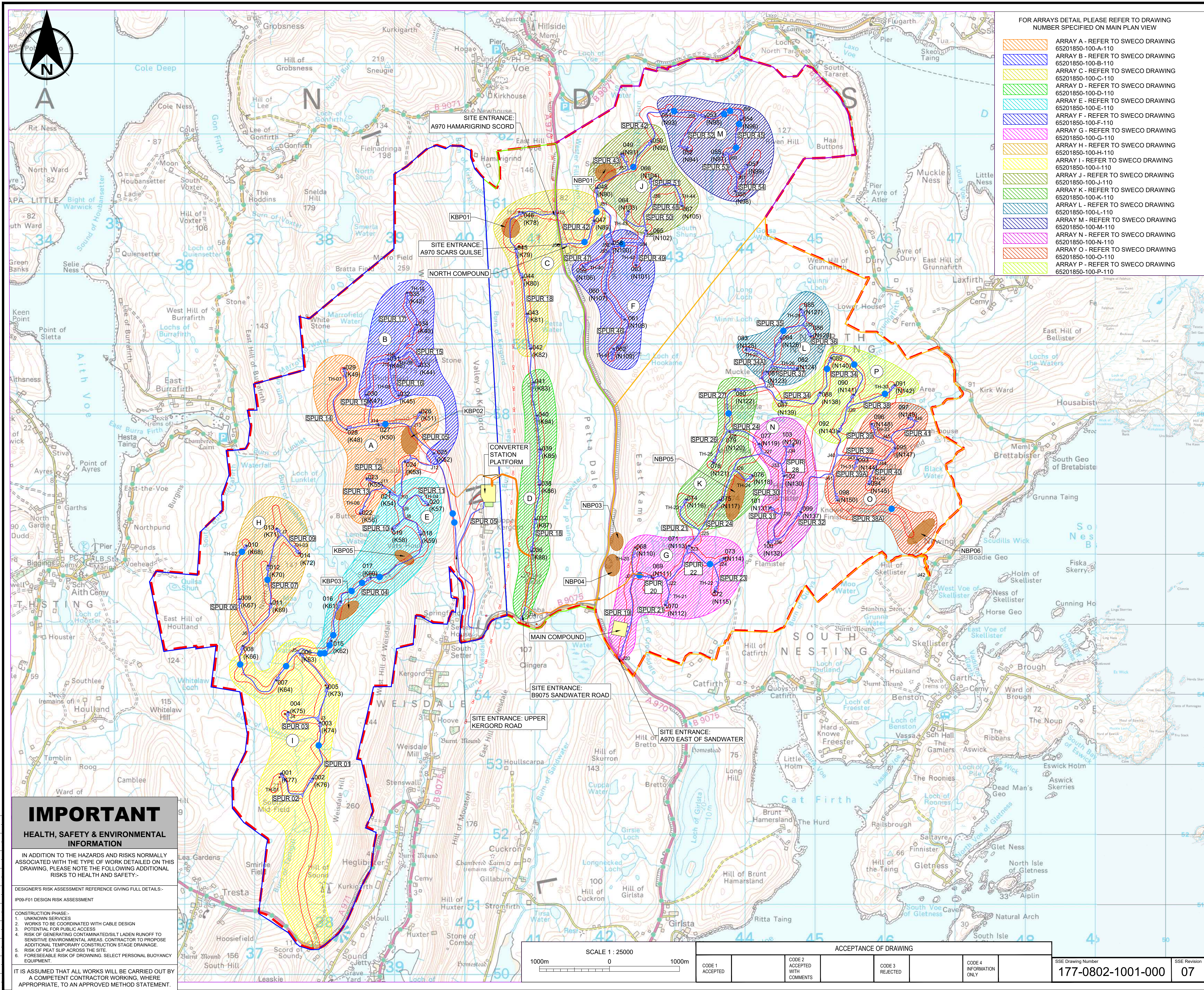
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Issue	Auditor Comments	Required Action	Action Owner	Status
	New generators are being used in Nesting, and discussions are being had about how best to manage pollution controls with these generators, that sit directly on the ground.	generators to be shared across site teams.		
Noise, Dust, and Air Quality	No complaints regarding dust had been received by SIC during the audit period.	Continued monitoring of dust conditions and implementation of control measures as needed; and ongoing liaison as required with other construction operators.	N/A	Green
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, nesting bird surveys, 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

- CONTAINS ORDNANCE SURVEY DATA RECEIVED FROM SSE ON 27.08.2020.
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES AOD UNLESS SHOWN OTHERWISE.
- TURBINE LOCATIONS BASED ON: "VIKING MICROSITING TRACKER" DATED 24.07.2020.
- 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 R.J.M.
- 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
- CROSS COUNTRY CABLE ROUTES
- ARRAY GROUPS

05	16.01.23	FOR CONSTRUCTION SSE REV07	AF	RE	RY
04	27.01.22	FOR CONSTRUCTION SSE REV06	BH	RP	CM
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

Rev. Date Amendment Details Drawn Chk'd App'd

Sweco  
2nd Floor, Quay 2  
139 Fountainbridge  
Edinburgh  
EH3 9QG  
Tel: +44 (0)131 550 6300  
Web: www.sweco.co.uk



FOR CONSTRUCTION

VIKING WIND FARM

SITE GENERAL ARRANGEMENT

Scale	Designed	Drawn	Checked	Approved
1:25000	RV	RV	RP	KS
Original Size	Date	Date	Date	Date
A1	11.09.20	11.09.20	17.09.20	17.09.20
Drawing Number	65201850-100-100			Revision
			05	

IMPORTANT

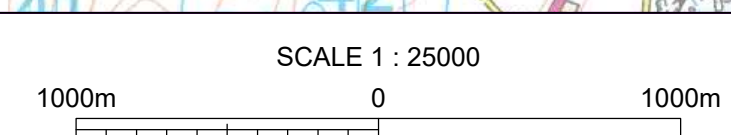
HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING ADDITIONAL RISKS TO HEALTH AND SAFETY:-

DESIGNER'S RISK ASSESSMENT REFERENCE GIVING FULL DETAILS:-  
IP09-F01 DESIGN RISK ASSESSMENT

- CONSTRUCTION PHASE:-
- UNKNOWN SERVICES
  - WORKS TO BE COORDINATED WITH CABLE DESIGN
  - POTENTIAL FOR PUBLIC ACCESS
  - RISK OF GENERATING CONTAMINATED/SILT LADEN RUNOFF TO SENSITIVE ENVIRONMENTAL AREAS. CONTRACTOR TO PROPOSE ADDITIONAL TEMPORARY CONSTRUCTION STAGE DRAINAGE.
  - RISK OF PEAT SLIP ACROSS THE SITE.
  - FORESEEABLE RISK OF DROWNING. SELECT PERSONAL BUOYANCY EQUIPMENT.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

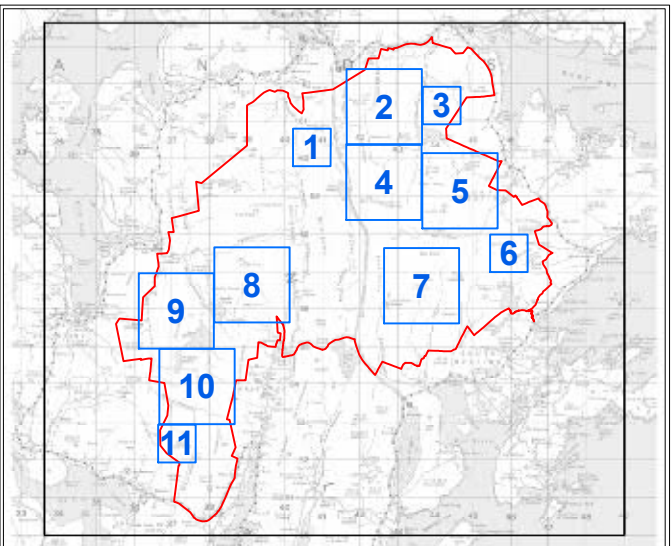
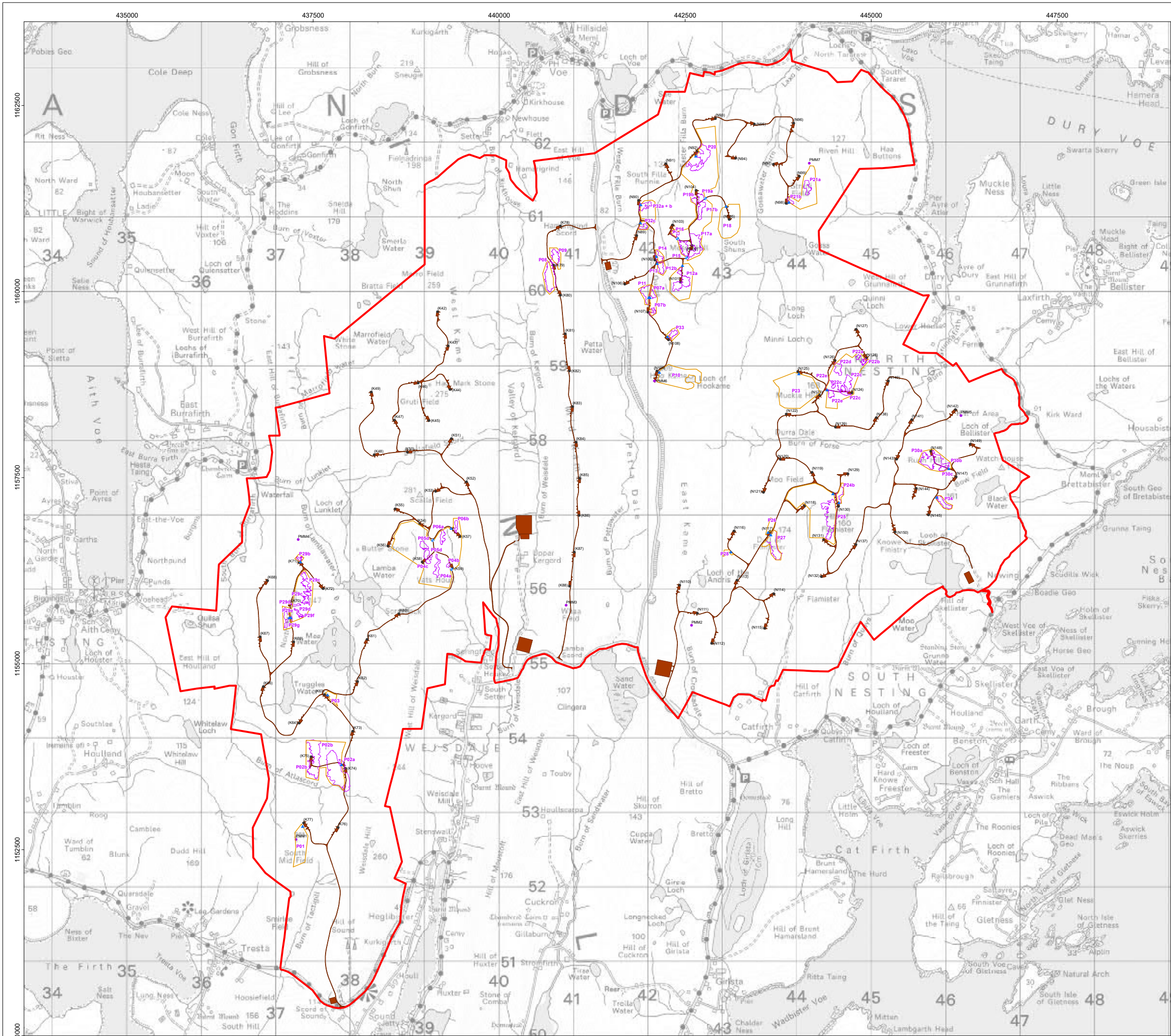


ACCEPTANCE OF DRAWING

CODE 1 ACCEPTED	CODE 2 ACCEPTED WITH COMMENTS	CODE 3 REJECTED	CODE 4 INFORMATION ONLY
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SSE Drawing Number	SSE Revision
177-0802-1001-000	07



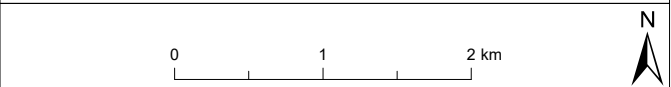


### Legend

- 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.



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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

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**Photo 1.** Hydroseeding on backfilled cable trenches and general areas at T026



**Photo 2.** Reprofilling and hydroseeding in KBP02

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023





**Photo 3.** Breaches in refuelling bund in KBP05 being repaired



**Photo 4.** Repair of lining in refuelling bund in KBP05

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023



**Photo 5.** No plant nappy at T035



**Photo 6.** Settlement ponds for diverted water from KBP03 at Maa Loch

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023





**Photo 7.** Cross country route from Mid Kames Ridge to substation



**Photo 8.** Repair of bund on the Mid Kames Ridge to substation cross country track and installation of silt fences following a silty water event in the Burn of Weisdale

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023



**Photo 9.** Cable laying by BAM on behalf of SSE Transmission near Sandwater Road



**Photo 10.** Bowsers on hardstanding in the northern compound

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023



**Photo 11.** Plant nappies beneath generators in northern compound



**Photo 12.** Plant nappies beneath generators in northern compound

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023





**Photo 13.** Backfilling and reprofiling of NBP01



**Photo 14.** Reprofilling of NBP05

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023



**Photo 15.** Removal of peat from historical peat slide at NBP05



**Photo 16.** Settlement ponds installed at NBP05

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023



**Photo 17.** Drip trays / plant nappies in place during the refuelling of generators in the substation

<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023



<b>Title:</b> Photographic Log	<b>Client:</b> Viking Energy Wind Farm
<b>Site:</b> Viking Energy Wind Farm	<b>Date:</b> 11 <sup>th</sup> October 2023