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Telephone: 07818 966555

FAO: Carolyne Paton

31 March 2022

Dear Carolyne,

**ELECTRICITY ACT 1989 SECTION 36 AND SCHEDULE 8: APPLICATION FOR THE PROPOSED ACHANY EXTENSION WIND FARM IN THE PLANNING AUTHORITY AREA OF THE HIGHLAND COUNCIL, ECU Reference ECU00001930, THC Reference 21/03695/S36: Ironside Farrar PLHRA – Stage 1 Checking Report**

Thank you for sending the Ironside Farrar Peat Landslide Hazard Risk Assessment, Stage 1 Checking Report (February 2022). We welcome Ironside Farrar's general comments that the detail SSER has provided in relation to the Achany Extension Wind Farm Environmental Impact Assessment Report (EIAR) July 2021, Volume 4 Technical Appendix 11.2 PLHRA - Peat Slide Risk Assessment (PSRA) is generally robust and accurate.

Where the recommendations require further clarification, a brief summary of comments is set out (in bold) along with the technical response. Further supporting technical detail prepared by Tony Gee and Partners LLP is also attached (see Appendix 1 – Technical Response Tony Gee and Partners).

Following The Highland Council's recent decision to raise no objection to the application, subject to removal of two turbines (Turbine 10 and Turbine 20) and associated infrastructure, the PSRA and associated figures have been revised to reflect this change.

**IRONSIDE FARRAR RECOMMENDATIONS (FEBRUARY 2022)**

**2.3 Team Competencies and Spatial Scope of Study**

**Information on the qualifications, experience and competency of the team undertaking the investigation should be provided to establish the robustness of the assessment.**

The EIAR, Volume 4 Technical Appendix 4.1: EIA Team, includes the following detail in relation to the Geology, Carbon Balance Lead:

| Person  | Role                            | Expertise   | Qualifications  |
|---|---------------------------------|---|---|
| Martin McAlinden<br>(Tony Gee and Partners LLP) | Geology and Carbon Balance Lead | Over 13 years' experience working on construction projects from initial conception through to on site delivery. Martin has worked on numerous desk studies, site investigations, interpretations designs and deliveries for major infrastructure and commercial projects. Martin's knowledge as a ground improvement contractor gives him an understanding of ground risk from a construction perspective and how to manage such risks on site. | M.Eng Civil Engineering<br>C.Eng with Institution of Civil Engineers (MICE) |

## 2.5 – Review of Desk Study

**Existing wind farms are noted within the immediate vicinity of the proposed development. Information gained from the construction phases of these windfarms could usefully be included within the assessment where relevant.**

Inclusion of this detail is not considered relevant or being of additional benefit.

## 2.7 – Integration of Desk Study and Field Surveys

**Please provide geomorphological mapping for this site, mapping should include features including but not limited to, drainage, vegetation cover, watercourses, slope curvature, erosional features etc.**

Geomorphological mapping has now been prepared, please (Appendix 1: A - TA 11.2 PSRA Figures 11.2.9a and 11.2.9b).

## 3 - Review of Hazard & Risk Assessment and proposed mitigation

**3.1 Assessment of Likelihood: Two factors have been considered: peat depth and slope angle. Further assessment of all credible criteria is required.**

Further to this recommendation, four factors have been duly considered, peat depth, slope gradient, breaks in slope and hydrological conditions, (see Appendix 1: TA11.2 B - Peat Risk data).

**3.2 Assessment of Consequence: While it is noted that only 7.3% of all probe locations returned medium or high likelihood results, to demonstrate an understanding of all possible receptors and consequences of peat slide on the site, please undertake a Consequence assessment for the site.**

A consequence assessment has been included within the PSRA which considers the exposure and scale of any peat slides. The majority of the results show the consequence of peat instability to be negligible with very few results showing low to high consequence of peat instability (see Appendix 1: TA11.2 B - Peat Risk data).

### 3.3 Calculation of Risk

**No risk assessment has been carried out for the site. ECUPBG requires a risk assessment to be undertaken. Please include a risk assessment stage.**

It is considered that a consequence assessment allows for a more accurate assessment of risk to be carried out in line with the Scottish government guidelines, which has also been included within the PSRA (see Appendix 1: TA11.2 B - Peat Risk data). The results show the vast majority of the site to be at low risk of peat instability with sporadic areas of elevated risk primarily being due to pockets of deep peat.

### 4.2 Summary Outcome of Checking Report

**The PLHRA requires resubmission there are significant shortcoming throughout the PLHRA and reworking of the PLHRA report is required to support a robust assessment.**

The PSRA has now been revised to reflect the removal of Turbine 10 and Turbine 20 as required in the Highland Council consultation response and also to address Ironside Farrar's recommendations in the Stage 1 checking report. The recommendations as outlined in the Tony Gee response -Table 1, demonstrate an overall reduction in risk associated with the instability of peat.

We trust that these clarifications address the queries raised in the Ironside Farrar checking report, however, please feel free to contact me if you require any further clarifications at this early stage in the project.

Yours sincerely,



**Karen Anderson**  
Consent Manager

cc Alison Harvey, The Highland Council  
cc Simon Hindson, The Highland Council

Enc:

Appendix 1      Technical Response Tony Gee and Partners :  
                         Peat Slide Risk Assessment, associated appendices and figures

## Appendix 1

Technical Response Tony Gee and Partners :  
Peat Slide Risk Assessment, associated appendices and figures

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**FAO: Carlyne Paton**

25 March 2022

Dear Carlyne,

**Subject: Achany Wind Farm Extension: Response to Ironside Farrar PSRA Stage 1 Checking Report, February 2022**

This letter has been prepared in response to recommendations raised in the Ironside Farrar Ltd. Peat Landslide Hazard Risk Assessment (PSRA), Achany Wind Farm Extension, Stage 1 Checking Report, dated February 2022.

The overarching aim of the checking report is to assess the adequacy of the Peat Slide Risk Assessment (PSRA) document and ensure that the PSRA follows appropriate guidelines as set out by the Scottish Government.

Ironside Farrar requested further information to be included within the submitted PSRA:

- Geomorphological Map of the Site
- The use of additional factors when calculating the likelihood of a peat landslide does not sufficiently characterise the likelihood of a peat landslide on site.
- The inclusion of a consequence assessment for the site. The PSRA ought to demonstrate a quantification of the consequence of a possible peat slide on Site.
- A risk assessment is included where risk is calculated by Risk= Likelihood X Consequence.

TG have carried out a review of the Ironside Farrar, Stage 1 Checking Report and updated the PSRA document to Revision P04 accordingly (See Appendix A). The changes made to address the recommendations outlined within the Stage 1 Checking Report have been tabulated within Table 1.

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144 West George Street, Glasgow  
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Table 1. Summary of changes to the PSRA.

| Recommendation Made by Ironside Farrar   | Response From Tony Gee   |
|--|--|
| Existing wind farms are noted within the immediate vicinity of the proposed development. Information gained from the construction phases of these windfarms could usefully be included within the assessment where relevant. | Inclusion of this additional information is not considered relevant or of additional benefit as none of the Chapter 11 EIA documents take these areas of development into account.   |
| Please include a geomorphological map in the assessment  | A geomorphological map has been included, see Appendix A - PSRA (Figures 11.2.9a and 11.2.9b).   |
| Please update the likelihood assessment so that all potential likelihood factors for the site are considered.  | <p>When calculating the likelihood of peat instability, four factors have now been considered. The four factors include; peat depth, slope gradient, breaks in slope and hydrological conditions. We would emphasise that the PSRA document is a live document and more factors will be considered as they are provided. The checking report mentions <i>"The consideration of substrate can be an important factor particularly where there may be the presence of clays or impermeable bedrock creating potential weak planes between the peat and underlying deposits."</i> Whilst this point is appreciated, we cannot yet include this information prior to an intrusive ground investigation and therefore cannot be considered at this stage.</p> <p>Other factors that could be considered include; vegetation cover, land use and existing erosional features. Due to the vegetation cover, land-use and erosional features being consistent across the site, the addition of these factors would not prove beneficial.</p> |
| Please undertake a Consequence assessment for the site.  | A consequence assessment has also been included within the PSRA which considers the exposure and scale of any peat slides. The majority of the results show the consequence of peat instability to be negligible with very few results showing low to high consequence of peat instability.  |

|   |  |
|---|--|
| Following on from the above, a full risk assessment should be undertaken, and the results provided in a resubmitted PLHRA report. | The inclusion of a consequence assessment allows for a more accurate assessment of risk to be carried out in line with the Scottish government guidelines, which has also been included within the PSRA document. The results show the vast majority of the site to be at low risk of peat instability with sporadic areas of elevated risk primarily being due to pockets of deep peat. |
|---|--|

The changes carried out on the PSRA to address the recommendations made by Ironside Farrar Ltd. and conform to the Scottish Governments Guidelines has resulted in an update to Section 6 (Construction Methodologies and Mitigation Measures) and Section 7 (Conclusion and Recommendations) of the PSRA based on the additional information provided in Section 5 (Peat Slide Risk Assessment). The addition of the recommendations outlined in Table 1 has resulted in an overall reduction in risk associated with the instability of peat.

Yours faithfully,



**Liam Ramage**

For Tony Gee and Partners LLP

c.c. Kevin McGinty

## Appendix A- Peat Side Risk Assessment

Achany Extension Wind Farm Environmental Impact Assessment Report (EIAR) July 2021,  
Volume 4 Technical Appendix 11.2 PLHRA - Peat Slide Risk Assessment (PSRA)

TA 11.2 - Appendix A - Site Photographs and Photograph Locations (not included as unchanged)

TA 11.2 - Appendix B - Peat Risk Data

TA 11.2 - Appendix C - Risk Assessment

### Figures

- Figure 11.2.1: Site Layout
- Figure 11.2.2: Superficial Geology
- Figure 11.2.3: Solid Geology
- Figure 11.2.4: Carbon and Peat Classification Plan
- Figure 11.2.5: Peat Depth Plan
- Figure 11.2.6a-6f: Proposed Layout with Peat Probes
- Figure 11.2.7a-7f: Slopes on Site
- Figure 11.2.8a-8f: Risk Coefficients
- Figure 11.2.9a-9b: Site Geomorphology



# Achany Wind Farm Extension

## Technical Appendix 11.2: Peat Slide Risk Assessment

SSE Renewables

Document no: S119051-TG-GEO-ZZ-RP-CE-0003

Revision: P04

Date: 14.03.2022





## Document Issue Record

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## Contents

|    |  |    |
|----|--|----|
| 1. | Introduction                                       | 1  |
| 2. | Desk Study   | 4  |
| 3. | Site Work  | 9  |
| 4. | Peat Instability                                   | 14 |
| 5. | Peat Stability Risk Assessment                     | 17 |
| 6. | Construction Methodologies and Mitigation Measures | 29 |
| 7. | Conclusion and Recommendations                     | 31 |

## Appendix

Appendix A – Site Photographs and Photograph Locations

Appendix B – Peat Risk Data

Appendix C- Risk Assessment

### Drawings Referenced within this Report:

- Figure 11.2.1: Site Layout
- Figure 11.2.2: Superficial Geology
- Figure 11.2.3: Solid Geology
- Figure 11.2.4: Carbon and Peat Classification Plan
- Figure 11.2.5: Peat Depth Plan
- Figure 11.2.6a-6f: Proposed Layout with Peat Probes
- Figure 11.2.7a-7f: Slopes on Site
- Figure 11.2.8a-8f: Risk Coefficients
- Figure 11.2.9a-9b: Site Geomorphology

## 1. Introduction

### 1.1. Background

Tony Gee and Partners LLP (TG) have prepared this Peat Slide Risk Assessment document on behalf of SSE Renewables (SSER) for the proposed Achany Extension Wind Farm, near Lairg in the Scottish Highlands.

### 1.2. Objectives of Report

This report summarises the findings of a preliminary sources study report (PSSR), a site walkover and multiple phases of peat probing. The aim is to provide an assessment of the ground conditions on site as they relate to the stability of peat and any potential stability issues in relation to the infrastructure layout of the Proposed Development, as included within Figure 11.2.1: Site Layout.

This report comprises:

- A desk study based on the findings of the previously produced PSSR;
- A summary of all site works including a site walkover and multiple phases of peat probing;
- A brief description on the types of peat and potential types of instability to be anticipated in peatland habitats;
- An interpretation on the conditions of peat on site which includes a qualitative risk assessment of each peat probe location;
- Identification of potential controls to be implemented during the Site's development to minimise the risk of peat instability; and
- Provide recommendations during the Site's development to mitigate any avoidable risk of potential peat instability.

The purpose of the Peat Slide Risk Assessment is to identify parts of the Site that are likely to be at risk of peat instability so that these areas can be avoided or accounted for. The main factors which influence peat stability include:

- Peat thickness;
- Groundwater;
- Peat Composition;
- Underlying geology;
- Hydrological conditions; and
- Slope angle.

A Construction Environmental Management Plan (CEMP) would be prepared for the Proposed Development. The CEMP would be submitted to The Highland Council (THC) (in consultation with NatureScot and SEPA as required) outlining site specific details of all on-site construction works, reinstatement, drainage and mitigation, and any post construction

reinstatement works together with details of their timetabling. An Outline CEMP is provided in Technical Appendix 3.1 of this EIA Report. The Outline CEMP references many of the recommendations made within this report.

This document has been produced in accordance with The Scottish Government guidelines on Peat Landslide Hazard and Risk Assessment for Proposed Electricity Generation Developments<sup>1</sup> which is referenced throughout this report.

## 1.3. Project Description

### 1.3.1. General & Historical Development

The Proposed Development would include the following key components:

- 18 no. wind turbines of up to 149.9m tip height with internal transformers;
- Crane hardstanding and associated laydown area at each wind turbine location;
- On site access tracks (of which approximately 17.15km are new access tracks and approximately 6.6km are existing tracks where upgrades may be required to facilitate delivery of the wind turbine components);
- A new on-site substation, welfare building and store;
- Extension to the existing operations building at Achany Wind Farm to accommodate additional staff;
- A network of underground cabling to connect each wind turbine to the on-site substation;
- A LiDAR unit to collect meteorological and wind speed data, and associated hard stand; and
- Any associated ancillary works required.

In addition to the permanent components, the construction phase would comprise the following temporary facilities:

- Site compound areas, including welfare facilities, site cabins, and parking;
- Batching plant facilities for temporary concrete batching plants;
- Temporary telecommunications infrastructure; and
- Borrow pits, comprising both new and reworking of borrow pits used for Achany Wind Farm.

The Site layout is shown in Figure 11.2.1: Site Layout.

The Proposed Development is located on the adjoining land to the north-west of the operational Achany Wind Farm, situated between the River Cassley and Loch Shin, near Lairg, Sutherland in the Northern Highlands.

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<sup>1</sup> The Scottish Government. (2017). Peat Landslide Hazard and Risk Assessments. *Best Practice Guide for Proposed Electricity Generation Developments*. 2nd Edition

### 1.3.2. Site description

The Proposed Development is centred around grid reference: E:246180 N: 909181 on adjoining land to the northwest of the operational Achany Wind Farm. This is approximately 1.5km from the River Cassley which runs parallel to the south-western Site boundary. The river represents the lowest point within Glencassley from where the land increases steeply in elevation to the east and west. Lairg is the closest settlement to the Site which is located approximately 11km to the southeast. The A839 single carriageway runs along the Site's southern extent, connecting the Achany and Rosehall wind farms, to the road network.

### 1.4. Available Information

The following sources of information have been produced alongside the Peat Slide Risk Assessment and have been utilised in the development of this report:

- Peat probing survey data from four phases of probing (one phase of historic peat probing conducted in 2012 and an additional three phases of peat probing conducted by Tony Gee in 2020)
- Borrow Pit Appraisal developed by Tony Gee (Technical Appendix 11.1)
- Peat Management Plan developed by Tony Gee (Technical Appendix 11.3)
- Carbon Calculation Report by Tony Gee (Technical Appendix 11.4)

## 2. Desk Study

### 2.1. Topography and Geomorphology

The Site is located on a relatively high undulation with elevations ranging from 60mAOD, at the Site's south extents to an average of 250mAOD across much of the Site's remainder. Five peaks over 320mAOD scatter the Site with the tallest being "Carn nam Bo Maola" at 494mAOD. The site geomorphology has been illustrated within Figures 11.2.9a and 11.2.9b: Site Geomorphology.

### 2.2. British Geological Society

BGS geoindex<sup>2</sup>, BGS Lexicon<sup>3</sup> and BGS 1:50,000 series sheet 102E "Lairg" map<sup>4</sup> were utilised to better understand the geological conditions on Site. The BGS sources provide information relating to the superficial and bedrock geology as well as a brief description of the associated units and structural geological features in the area.

#### 2.2.1. Superficial Geology

BGS shows varying superficial deposits at surface across much of the proposed Site. Quaternary peat blankets most of the Site, in a north-westerly trend towards the eastern extent of the Site, where the topography begins to plateau, surrounding the hill lochs. Towards the south/south-west of the Site Glacial Till become more prevalent comprising undifferentiated till and hummocky ice-contact glacial deposits. The north-western extent of the Site hosts no superficial deposits except for small amounts of peat in places. Glacial till is anticipated beneath the peat where topographical lows are encountered. Alluvium deposits, comprising of clay, silt, sand and gravel, are found within the valley basin that hosts the River Cassley, bordering the Site to the west and in stream beds located across the Site.

The mapped superficial geology on Site has been included within Figure 11.2.2: Superficial Geology.

#### 2.2.2. Solid Geology

BGS depicts the Site geology to be consistent across the entirety of the study area, which is the Altnaharra Psammite Formation, a Psammitic rock formed by low grade metamorphism. BGS lexicon infers the unit as being: *"Siliceous Psammite and micaceous Psammite; generally grey to buff. Medium-fine grained, but locally gritty or pebbly (clast size up to 30 mm) layers, especially lower down in the stratigraphy. Locally Pelite or Semipelite layers up to a few metres thick; these increase in abundance upwards in the formation. Commonly deformed, then with flaggy structure. Where un-deformed, locally well-preserved sedimentary structures that include planar crossbedding, trough crossbedding, channels and abundant*

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<sup>2</sup> British Geological Survey (BGS) GeoIndex map viewer:  
<https://www.mapapps2.bgs.ac.uk/geoindex/home.html>

<sup>3</sup> British Geological Survey (BGS) Lexicon of Named Rock Units:  
[https://webapps.bgs.ac.uk/lexicon/home.cfm?\\_ga=2.91227930.1282065189.1618233122-792810342.1582906720](https://webapps.bgs.ac.uk/lexicon/home.cfm?_ga=2.91227930.1282065189.1618233122-792810342.1582906720)

<sup>4</sup> British Geological Survey, 2000, Lairg, Scotland Sheet 102E, Solid and Drift Geology, 1:50k Provisional Series.



*soft-sediment deformation structures, e.g. water escape structures and slump folds. Bed thickness where un-deformed ranges from 0.2 to 4 m thick.”* The Altnaharra Formation is thought to be deposited un-conformably upon the Lewisianoid Gneiss Complex.

Leucogranite igneous plutons are shown on the BGS maps to outcrop between the boundary of the proposed Site and the A839, towards the south-east, and therefore may be encountered beneath the Psammite.

The mapped solid geology of the Site has been included within Figure 11.2.3: Solid Geology.

### 2.2.3. Structural Geology

Due to the region’s bedrock geology being metamorphosed, the general bedding dip is difficult to distinguish across the Site as the units are heavily foliated. The study area is located within the confines of a thrust belt, developing as an imbricated fan across the north of Scotland in a south-east to north-westerly orientation.

BGS mapping indicates there to be minor faulting running parallel to the River Cassley, within the river valleys eastern side slopes. A significant fault has been recorded along the bed of Allt Bad an t-Sagairt, a minor tributary to the River Cassley, situated to the north of the Site. No fault line directly underlies the Site however faults within the region are identified as Thrust Faults with barbs on hanging wall side. The Faults also commonly share an easterly downthrow direction.

### 2.2.4. Hydrogeology

The BGS geoindex was consulted in order to obtain information of the underlying aquifer and expected groundwater conditions.

According to the online BGS geohydrology mapping tool, the Site is underlain by the Morar Group which has been classified as a low productive aquifer. It is indicated that there may be small amounts of groundwater in near surface weathered zones and secondary fractures.

## 2.3. Scottish Environmental Protection Agency (SEPA)

Data held by SEPA was used to obtain environmental information pertaining to the Site<sup>5</sup>.

### 2.3.1. Rainfall

Periods of intense and prolonged rainfall are often the cause of ground instability and land slides. SEPA’s rainfall data from the Rhian Bridge weather station<sup>6</sup>, approximately 10km north east of the Site, shows the average annual rainfall within this region between 2016 and 2020 to be 1055mm per year. Figure 1 compares annual precipitation at Rhian Bridge against other regions within Scotland.

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<sup>5</sup> Scottish Environment Protection Agency (SEPA): <https://www.sepa.org.uk>

<sup>6</sup> Scottish Environment Protection Agency (SEPA), Scottish Rainfall Data: Scottish Rainfall Data - provided by Scottish Environment Protection Agency (SEPA)

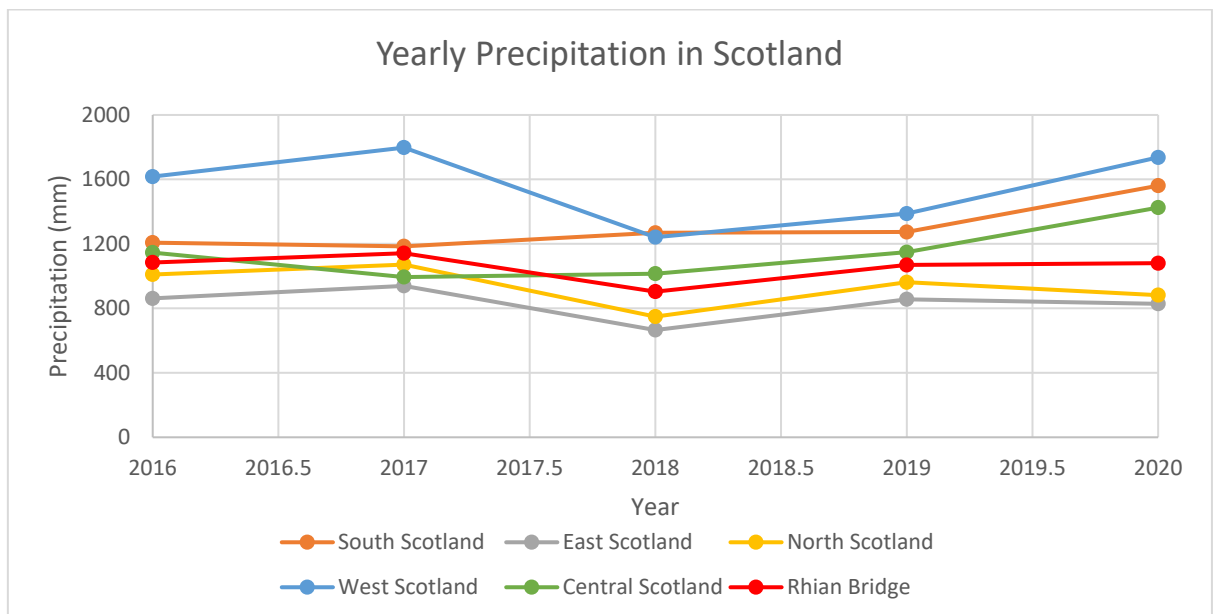


Figure 1. Yearly Rainfall in Scotland.

### 2.3.2. Hydrology

The SEPA flood map records show small sections of the Site's plateau (surrounding the small hill lochs, towards the eastern extent of the Site) to be at high risk of flooding though the likelihood of this is deemed low.

The River Cassley flows approximately 1km to the south of the Site in a south-easterly orientation but it's floodplains do not influence the Site. A minor tributary of the River Cassley, named Allt an Rasail, does intersect the Site and has a high risk of flooding within the confines of the stream valley but the floodplain is restricted and does not influence the proposed infrastructure. The Site is drained by a network of watercourses, with the water shedding in a general west to south-westerly direction, draining into the River Cassley catchment. None of the minor watercourses pose a flooding risk according to the SEPA website.

The introduction of areas of hardstanding on a greenfield site will increase the discharge of water from the developed area relative to the current state. As a result, this effect could potentially lead to an increased probability of down-stream flooding, especially in extreme rainfall events. The SEPA guidance document<sup>7</sup> identifies that such alterations to water discharge should adopt the following best practice guidance:

- Should not increase flood risk elsewhere;
- Assessment should be made of the vulnerable receptors downstream including infrastructure, property, and health and safety; and
- Long-term solutions to the potential increase in flood risk should be investigated.

<sup>7</sup>Scottish Environment Protection Agency (SEPA), 2018, Development Management Guidance on Flood Risk, version 2.

Consideration of flood risk is included within Chapter 10: Hydrology and Hydrogeology of the EIA Report.

### 2.3.3. Contamination and Landfills

The SEPA website provides landfill locations and their approximate boundaries for both currently active landfill and historic landfills.

According to the historical maps, the area has remained largely undeveloped with no evidence of any contaminated land. Therefore, the risk of encountering any contaminated land is deemed low.

The SEPA online landfill map displays no licensed waste disposal sites within the vicinity of the Proposed Development with all the landfill sites being located around the coast.

Due to the superficial peat layers at the Site, it is recommended that preventative measures (e.g. silt traps, catch fences or cut-off ditches) be implemented to prevent runoff of material from entering nearby watercourses.

## 2.4. Additional Sources

### 2.4.1. Historic Land Use Data (HLA)

The HLA map tool<sup>8</sup> offers maps and data relating to the historic land use at the Site of interest. These documents provide more information about the location and extent of previous potentially contaminative industrial uses, including mining activities.

According to the HLA mapping tool, plantation and managed woodland has been established along the River Cassley valley and to the south of the Site. In addition, rough grazing features across much of the Site.

### 2.4.2. Preliminary Unexploded Ordnance (UXO) Assessment

The Zetica website<sup>9</sup> has been used in order to gauge the regional unexploded bomb risk in the area. The risk is based on density of bombs per borough and ranked according to frequency, tonnage and type of bomb discovered in these areas.

Unexploded ordnances (UXOs) are explosive weapons such as bombs, bullets, shells, grenades, and landmines that did not explode when they were first deployed therefore still pose a risk from detonation.

The Zetica website indicative map classes the Site as within a low risk area.

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<sup>8</sup> Scotland's Historic Land Use Map (HLA Map): <https://hlamap.org.uk/> (Accessed March 2020)

<sup>9</sup> Zetica UXO: Unexploded bombs Website: <https://zeticauxo.com/> (Accessed March 2020)

#### 2.4.3. The Coal Authority

The Coal Authority Website<sup>10</sup> has been consulted as part of this study.

The Coal Authority Interactive Map shows no information related to any of the following specifications within the Site:

- Monitoring Points
- Licence Areas
- Abandoned Mines Catalogue
- Development High Risk Area
- Surface Coal Resource Areas
- Mine Entry Potential Zone of Influence
- Fissures and Breaklines
- Mine Gas Sites
- Past Surface Hazard
- Surface Mining (Past and Current)
- Shallow Coal Mine Workings
- Coal Outcrops
- Coal Mining Report Area

This is consistent with the solid geological description of the Site. As the geology affecting to the Site is >500Mya, fossil fuels are unlikely to be present.

#### 2.4.4. UK Radon Maps

The UK Radon interactive map<sup>11</sup> has been used to determine the highest radon potential within 1 km<sup>2</sup> of the Site. Radon potential is deemed less than 1% across the Site.

#### 2.4.5. National Library of Scotland (NLS)

This mapping tool<sup>12</sup> presents OS maps which were used to aid determination of historic land use, topography and existing access routes.

According to the National Library of Scotland website, when referencing historic maps, the land use has remained relatively unchanged as moorland. There has been the addition of two wind farm sites to the south east of the Proposed Development site. These are the existing Achany Wind Farm and Rosehall Wind Farm.

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<sup>10</sup> Coal Authority Map Viewer: <http://mapapps2.bgs.ac.uk/coalauthority/home.html> (Accessed March 2020)

<sup>11</sup> Public Health England, UK maps of Radon viewer: <https://www.ukradon.org/information/ukmaps> (Accessed March 2020)

<sup>12</sup> National Library of Scotland- Digital historic maps database Website: <https://www.nls.uk/> (Accessed March 2020)

### 3. Site Work

#### 3.1. Site Walkover

A site walkover was undertaken between the 3rd and 13th of August 2020, in parallel with the phase 1 peat probing exercise. Separate Peat Probing exercises were undertaken in September and December of 2020. A full set of Photographs from the initial walkover and an illustrated plan highlighting where each picture was taken has been included within Appendix A.

The Site features two significant hills located towards the north, Beinn Sgeireach and Carn nam Bo Maola with summits of 476 and 494 mAOD respectively. Situated between the two hills is boggy marshland. The marshland varies in elevation from 260 to approximately 360 m OAD. Within the marsh, peat was generally < 1.0m in thickness although sporadic areas recorded depths in excess of 2.5m. The peat could generally be described as pseudo-fibrous in this area. A stream, named Allt Bad at-Sagairt runs in a west south westerly direction towards the River Cassley which flows in a south south-easterly direction and is situated towards the Site's western extent. Photo 1 shows this marshy area along with the associated stream:



Photo 1. View to the north within the marshy basin and stream Allt Bad na t Sagairt (Photo 10 as identified within Appendix A)

Beinn Sgeireach is surrounded by rocky outcrops with the most sizable being a rocky spur which extends towards the south west, into the drainage basin. Carn nam Bo Moala has two rocky spurs, one extending to the east of the summit and the other extending to the south of the summit. All rocky outcrops surrounding these two peaks could be considered for borrow pits, see Photos 2 and 3. The dominant rock was confirmed to be Siliceous Psammite and Micaceous Psammite with significant quartz veining. Some sporadic Pelite outcrops were also present here.





Photo 2. View of northern rock Outcrops (Photo 3 as identified within Appendix A)



Photo 3. Additional view of northern rock outcrops (Photo 6 as identified within Appendix A)

The spur which extends to the east of Carn nam Bo Moala can be considered the Site's boundary between the north and the south. To the south of this ridge the land falls away from approximately 398 to 290 m OAD. A series of tributary streams drain this basin flowing into a larger stream which dissects the Site's southern extent, named Allt an Rasail. From the Ridge of Carn nam Bo Moala to the stream there is a greater frequency of rocky outcrops, however to the south of the stream the land is dominated by marshland. Photo 4 shows the rocky outcrops beneath Carn nam Bo Moala:



Photo 4. Outcrops beneath Carn nam Bo Moala (Photo 24 as identified within Appendix A)

The peat within this area was generally thicker, between 1.0 and 2.5m with sporadic areas recording depths in excess of 2.5m. Like the northern area, the peat can best be described as Pseudo-fibrous. Photo 5 depicts the southern marshy basin and associated stream / tributary. There are minor outcrops, again of Psammite however these are not as frequent as the Site's northern area. South of the stream, the ground elevation varies from 290 to 350m AoD.



Photo 5. Looking towards southern marshy basin and stream / tributary (Photo 42 as identified within Appendix A)



Overall, the site walkover confirmed the findings of the desk top study with no significant development hazards identified that were not already known. Areas have been identified for potential borrow pits, particularly to the north with the outcrops of Psammite.

### 3.2. Peat Probing Survey

#### 3.2.1. Historic Peat Probing

Peat probing was carried out by SLR to inform the 2012 application. This earlier survey included recovery of auger samples allowing limited lab testing, strength testing and logging in accordance with the Von Post criteria. A summary of the peat depths are as follows:

On the Site's western extent, the maximum thickness is 1.8m. At frequent positions across the Site the peat thickness is recorded as 0.0m, indeed overall thickness generally does not exceed 1.0m for most of the Site. This is the case for most proposed WTG positions. This is mirrored across the historic access routes where sporadic probes identify peat to 2.5m but generally do not vary from 1.0m.

The immediate north of the revised study area shows peat thickness to vary from 0.0 to 1.7m. In general, the thickest extents are found within the Site's mid to eastern extent, towards the former proposed access route where 2.5m to 3.0m is recorded.

The historic peat probing results provide a useful context for the Proposed Development, but for the most part do not reflect its infrastructure layout. Therefore, further peat probing has been carried out to develop a more representative understanding of peat conditions on site.  
Phase 1 Peat Probing

Phase 1 peat probing was undertaken between 3rd and 13th August 2020 in parallel with the site walkover survey. The strategy, as set out in the guidance document, was to probe the ground at a 100m centre to centre grid recording peat depth. Due to time constraints and weather conditions small areas were not covered during the walkover, mostly situated around the pre-existing access route.

The Phase 1 works complimented the historic information well with no contradictions noted. Indeed, areas where peat in excess of 2.5 to 3.0m historically were expanded upon confirming their extents more accurately. The thickest extents were recorded to the Site's northern extents, immediately north and south of Carn nam Bo Maola. This corresponds to the marshy areas identified in the walkover survey. Isolated areas of 6m+ depths were recorded in this area too. Overall, within the Site's northern area the peat thickness averages at approximately 1.0m in thickness.

The Site's southern extents contain significantly thicker peat deposits. This relates to the southern marsh area noted during the site walkover. The average peat thickness in the southern extent is 2-3m, with isolated areas reaching 5.8m in thickness. These deeper pockets are primarily located at borrow pit locations such as borrow pit 2 which exhibited an average peat thickness of 0.94m  
Phase 2 Peat Probing

Phase 2 Peat Probing was performed in September 2020. Phase 2 peat probing targeted the planned WTG positions in the following pattern:

- 1 No. at WTG Central position



- 4 No. at a distance of 10m from centre
- 4 No. at a distance of 20m from centre
- 4 No. at a distance of 30m from centre.

11 No. positions were probed during the phase 2 investigation. Overall, the peat depth was generally within the <1m thickness bracket, however sporadic areas of 3m excess were recorded.

### 3.2.2. Phase 3 Peat Probing

Phase 3 peat probing was carried out in December 2020. This phase targeted the revised WTG positions in a manner matching Phase 2 works. In addition, the proposed tracks were probed at the following pattern:

- 1 No. probe at track centre, 50m centre to centre; and
- 1 No. probe at 20m offset either side of centre again at 50m centre to centre.

The proposed borrow pit locations, substation and construction compounds were also targeted during phase 3 in a grid pattern covering their planned extents.

To summarise, the Site's northerly proposed borrow pit locations, BP3, BP4 and BP5, shows limited peat deposits with average peat depths being 0.41m, 0.45m and 0.42m, respectively. The proposed southern borrow pits, BP1 and BP2, recorded average peat depths of 0.87m and 0.94, respectively.

Probes at the proposed welfare / batching plant/ temporary construction compound area recorded average peat depth of 0.31m.

For the proposed access tracks, the most northerly tracks averaged 0.5m peat depth. As the tracks head south towards WTG positions T03 to T09, the average thickness increases to 1.0 to 1.5m. Heading south again towards WTG T17, this again reduces to 0.5m average. However, from WTG T17 to the Site's southern extent, thickness varies from 0.5m to 3m, in particular at the spurs for WTG's T18 and T19.

With regards to the WTG positions, the new positions for WTG T04 and T05 recorded sporadic peat deposits in excess of 3m which have subsequently been micrositied to avoid areas of deep peat. The remaining northerly positions averaged 0.5m to 1.0m in thickness where peat is surrounding the WTG positions. WTG T17 recorded an average peat thickness of 1m with WTGs T18 and T19 recording 0.5m average thickness.

All peat probing depths have been included on Figure 11.2.5: Peat Depth Plan and Figures 11.2.6a-6f: Proposed Layout with Peat Probes.

## 4. Peat Instability

Peat stability can be influenced by a number of factors. This section reviews the nature of peat and the factors that can trigger destabilisation.

### 4.1. Peat Characteristics

Peat can be found in the upland and lowland areas of the UK and comprises of the partial decomposition of in-situ plant matter that has accumulated in wet acidic conditions such as a bog. When the plants die, they only partly decay as their remains are preserved in water due to the boggy environment. This process excludes oxygen from fully decaying the plant matter and subsequently limits decomposition. Consequently, instead of fully decaying, the partially decomposed plant matter is incorporated into the underlying material and the peat gradually increases in thickness as a result.

Peats characteristic properties are generally consistent across the globe with a low density, high moisture content, high compressibility and low shear strength. The degree of decomposition and residual plant fabric and structure has a strong influence on the characteristic properties of peat. In general, it is this structure that affects the retention of water and is the key indicator in differentiating different types of peat.

The dominant peat habitat in Scotland is blanket bog, where the environment is generally wetter in comparison to elsewhere in the UK. Blanket bogs accumulate in the gentle slopes of upland areas and is considered to be hydrologically disconnected from the underlying superficial material.

Within the peat profile there are two distinct layers which are indicative of the degree of decomposition; the upper acrotelm layer and the lower catotelm layer. The acrotelm is typically less than 0.5m thick and comprises of plant fibres and rootlets. Beneath the acrotelm is the catotelm which has various stages of decomposition as the acrotelm slowly becomes assimilated into the catotelm layer.

The position of the water table within the peat controls the rate of accumulation versus decomposition. This has a direct impact on the peat's overall stability and therefore peat drainage must be considered throughout the project development.

## 4.2. Peat Stability- Factors to be Considered

The main factors influencing peat stability include:

- Peat depth, especially in areas over impermeable rock or cohesive soils;
- Slope gradients in excess of 4°;
- Breaks in the slope profile;
- Local hydrology;
- Pre-existing slope instability;
- Undermined slopes;
- The presence of forestry and artificial drainage;
- Recent climate activity including rainfall; and
- Agricultural and human activity such as construction.

## 4.3. Peat Mass Stability

Areas which have been subject to peat instability in the past have an increased risk of future instability which could impact the wind-farm both during and after construction. It is therefore crucial that any instability is identified as part of this Peat Slide Risk Assessment.

### 4.3.1. Types of Failure

The main indicator of potential peat instability is the development of tension cracks along the peat surface which can later result in the mass movement of peat. The two main types of peat failures include:

- Bog Bursts; and
- Peat Slides.

#### *Bog Bursts*

Bog bursts involve the mass movement of peat in areas where shallow groundwater and rainwater accumulates to form ponding and the subsequent development of blanket bogs or raised mires. The peaty banks of the ponds can then become weak over time due to the accumulation of water and the degradation of the surrounding peat to the point that the pond bursts the peat resulting in the outflow of saturated peat and lowering of the water table.<sup>13</sup>

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<sup>13</sup>Stastney, P., Young, D. S. and Branch, N. P. (2018) The identification of Late Holocene bog bursts at Littleton bog, Ireland: ecohydrological changes display complex climatic and non-climatic drivers. *The Holocene*, 28 (4). pp. 570582. ISSN 09596836

The “Peat Landslide Hazard and Risk Assessments: Best Practice Guide for Proposed Electricity Generation Developments”, produced by the Scottish Government, identifies potential factors which may result in bog bursts developing. These factors include:

- Peat thickness exceeding 1.5m;
- Slope gradients ranging from 2° to 10°;
- Persistently raised groundwater to within 1m of existing ground level;
- High rate of humification within the lower catotelm; and
- Low shear strength of the acrotelm layer.

### *Peat Slides*

Peat slides generally occur as a translational shear failure along the interface between the peat and the underlying material and results in the sliding of detached peat blocks along the surface.

The “Peat Landslide Hazard and Risk Assessments: Best Practice Guide for Proposed Electricity Generation Developments”, produced by the Scottish Government, identifies potential factors which may result in peat slides developing. These factors include:

- Peat up to 2m in thickness;
- Slope gradients ranging from 5° to 15°;
- Natural or artificial drainage cut into the peat landscape which induces groundwater to flow along the interface between the peat and the underlying substrate;
- High rates of humification of the lower catotelm along the interface between the peat and the underlying substrate; and
- Low shear strength of the acrotelm layer.

## 5. Peat Stability Risk Assessment

It is crucial during the development of a proposed wind farm that the location of deep peat deposits (those that exceed 1.0m in thickness) are identified and considered when establishing both the wind farm's final layout and the construction methodology.

The method of risk and hazard assessment has been developed in line with the Scottish Governments: "Peat Landslide Hazard and Risk Assessments: Best Practice Guide for Proposed Electricity Generation Developments."

### 5.1. Likelihood of Peat Instability

A quantitative assessment of peat conditions on site, as determined at every probe location, has been undertaken by Tony Gee. The following factors are considered to have the greatest influence on the overall stability of peat:

- Peat depth;
- Slope angle;
- Slope breaks; and
- The hydrological condition of peat.

This quantitative methodology used to determine the baseline conditions comprises of a scoring matrix whereby factors and influences are multiplied together to produce a Likelihood Rating Score which corresponds to the probability of peat instability and ranges from Negligible to High Risk.

Sections 5.1 outlines the approach taken and the score allocation for main factors that influence peat stability.

#### 5.1.1. Peat Thickness

The thickness ranges used to interpret the probing data reflect the risk of instability associated with peat slides and bog slides, as mentioned in section 4.3.1. Where peat thickness is less than 0.5m, this is considered to be the organic acrotelm layer which is bound together by organic material such as plant roots. This layer is considered to present the lowest likelihood of instability within the peat. Table 1 highlights the peat thickness coefficient applied to the associated peat thickness.

Figure 11.2.6a-6f: Proposed Layout with Peat Probes, illustrates peat depths across the entire site and more specifically across the layout of proposed infrastructure locations.

Table 1. Coefficients for Peat Thickness.

| Peat Thickness                              | Peat Thickness Coefficient |
|---|----------------------------|
| No Peat                                     | 0                          |
| Peaty Soil $\leq 0.5\text{m}$ )             | 1                          |
| Very Thin Peat ( $0.5 - \leq 1.0\text{m}$ ) | 2                          |
| Thin Peat ( $1.0 - \leq 1.5\text{m}$ )      | 3                          |
| Thick Peat ( $1.5 - \leq 2.0\text{m}$ )     | 4                          |
| Very Thick Peat ( $> 2.0\text{m}$ )         | 5                          |

#### 5.1.2. Slope Angle

Slope gradients were not ascertained during the peat probing surveys. Instead, LIDAR survey data has now been obtained to establish the slope gradient at each probe location across the Site.

The slope gradient data reflects the efforts during the design evolution stage of locating turbines on areas of low relief with the slope angle across all turbine locations averaging at  $6^\circ$ .

The coefficients for slope gradients have been assigned to ensure that the potential for both peat slides (gradients  $5^\circ - 15^\circ$ ) and bog bursts (gradients  $2^\circ - 10^\circ$ ) are accounted for.

Table 2 includes the slope angle coefficient applied to a given range of slope gradients. It is clear that the steeper the gradient, the higher the likelihood of peat instability and therefore an increase in coefficient over the range of  $0^\circ$  to  $>12^\circ$  has been adopted.

Figure 11.2.7a-7f: Slopes on Site illustrates the topography of the Site, identifying areas of gentle and steep slopes.

Table 2. Coefficient for slope angle.

| Slope Angle (°) | Slope Angle Coefficient |
|-----------------|-------------------------|
| Slope <2°       | 1                       |
| 2° ≤ Slope <4°  | 2                       |
| 4° ≤ Slope <8°  | 3                       |
| 8° ≤ Slope <12° | 4                       |
| >12° Slope      | 5                       |

### 5.1.3. Slope Breaks

In addition to the localised slope gradient, significant slope breaks or changes in gradient can be considered an influencing factor in peat instability with historic peat slides being attributed to concave breaks in slope, convex breaks in slope and areas of cutting.

When considering convex slopes, there is a reduction in frontal and lateral resistance which has the potential to facilitate in a transitional failure within the peat. The excavation of turbine bases, hardstandings and cuttings for access tracks could encourage peat instability. As well as a reduction in confinement, a track cutting on sidelong ground may temporarily result in a stable slope buttress due to the favourable downslope conditions allowing drainage of the peat and reducing pore pressure. However, this frontal mound of peat can fail due to a lack of retention and the development of excessive pore water pressure in the mass of peat upslope.

The slope break parameters have been valued between 1.0 and 2.0, from no notable change in slope to areas of cutting. For the purposes of the risk assessment, areas of cutting generated by construction activities have been discounted. These will be assessed separately and safe excavation angles will be provided at detailed design stage to minimise the potential for peat instability during construction. Applying a marginal factor to concave and convex slopes reflect increasingly onerous conditions as a consequence of sub-surface hydrology and changes in ground stresses. The applied coefficients for slope breaks have been included within Table 3.

Table 3. Coefficient for slope break.

| Slope Break Description | Slope Break Coefficient |
|-------------------------|-------------------------|
| Negligible              | 1                       |
| Concave change in grade | 1.4                     |
| Convex change in grade  | 1.7                     |
| Cutting                 | 2                       |

#### 5.1.4. Hydrological Condition

With regards to the distribution of precipitation, it has been documented that peat slides may be triggered along natural drainage lines or in association with artificial drainage. Any blockages within drainage paths, either due to natural blockages or during construction, can reduce the natural strength of the peat and create a buoyancy effect or cause liquifaction due to elevated pore water pressures along the interface between the peat and the underlying material.

Areas of peatland, where there is limited drainage (Blanket bogs) and precipitation is allowed to accumulate are considered to be more susceptible to instability, due to elevated groundwater levels, than peatland that is drained (Peat hags). Drainage ditches and cuttings will be created as part of the construction works on site. This can result in the build-up of groundwater in specific areas of peat and result in an increased potential for instability. Infilling or vegetating the drainage ditches and cutting slopes will slow the movement of groundwater down and act as a store of water from upslope areas. Initially, these areas will improve slope stability by facilitating the removal of excess pore water during periods of increased rainfall. However, over time the infilled and/or vegetated drainage ditches and cutting slopes will degrade if not maintained which will result in pore water pressure upslope exceeding critical levels during prolonged rainfall and increase the potential for instability.

The assessment of the peatland hydrological condition is based on visual observations carried out during the site walkover survey as well as a high level review of satellite imagery and topographical maps. The coefficient values used to grade the adequacy of the hydrology range from 0.5 to 3. An increase in coefficient is indicative of poorer groundwater conditions that will increase the likelihood of peat instability occurring. For instance, peat slides are less likely in areas of well drained peat. In these areas, thick peat does not tend to accumulate. Thick peat tends to accumulate in areas of poorly drained ground on sloping terrain which results in the increased likelihood of peat instability. The applied coefficients for the hydrological condition of peat has been included within Table 4.

Table 4. Coefficient for hydrological condition.

| Hydrological Feature                   | Hydrological Coefficient |
|--|--------------------------|
| Well drained by drainage network       | 0.5                      |
| Boggy, stream heads, diffused drainage | 1                        |
| Saturated with standing water          | 2                        |
| Blocked drainage path                  | 3                        |



#### 5.1.5. Likelihood Assessment

The calculated likelihood rating score was derived by:

$$\text{Likelihood Score} = \text{Peat Thickness Coefficient} \times \text{Slope Angle Coefficient} \times \text{Slope Break Coefficient} \times \text{Hydrological Condition Coefficient}$$

The likelihood rating score is a measure of the probability of peat instability which highlights areas of potential concern.

Table 5 highlights the Likelihood of Peat Instability class applied, which is dependant on the Likelihood Rating Score value.

Table 5. Likelihood Rating

| Likelihood Rating Score | Likelihood of Peat Instability |
|-------------------------|--------------------------------|
| ≤5                      | Negligible                     |
| 5 – 12                  | Unlikely                       |
| 12 – 19                 | Likely                         |
| 20-25                   | Probable                       |
| >25                     | Almost Certain                 |

As the project develops to detailed design stage and ground conditions are better understood following fully intrusive ground investigation works, it is recommended that the likelihood calculations should include the influence that substrate has on the stability of peat. The substrate can have a large impact on the stability of peat and is therefore considered a valuable consideration for peat stability.

All peat slide likelihood calculations at each peat probe location have been included within Appendix B. 3617 No. peat probing locations were analysed. Historic peat probes located outside the site boundary and topographical survey area have been omitted as the slope gradient could not be accounted for. However, there were approximately 100 of these and their omission is not important to the calculations of peat stability on site.

The likelihood of peat instability identified across the entire site have been summarised in Table 6. The average likelihood of peat instability score for each proposed turbine, borrow-pit and infrastructural location (excluding access tracks) has been included within Table 7.

Table 6. Summary of likelihood of peat instability results for all probed locations.

| Likelihood of Peat Instability | No. of Probes | Percentage of probes |
|--------------------------------|---------------|----------------------|
| Negligible                     | 3007          | 83.1%                |
| Unlikely                       | 562           | 15.5%                |
| Likely                         | 42            | 1.1%                 |
| Probable                       | 4             | <0.1%                |
| Almost Certain                 | 2             | <0.1%                |
| <b>TOTAL</b>                   | <b>3617</b>   | <b>100%</b>          |

Table 7. Average peat likelihood rating score for each wind farm infrastructural element, excluding access roads.

| Location ID | Peat Thickness (m) | Slope (°) | Avg. Likelihood Rating Score | Potential Instability | Acceptable Location |
|-------------|--------------------|-----------|------------------------------|-----------------------|---------------------|
| T1          | 0.3                | 10.4      | 2                            | Negligible            | Yes                 |
| T2          | 0.3                | 5.2       | 1.5                          | Negligible            | Yes                 |
| T3          | 0.3                | 3.9       | 1.0                          | Negligible            | Yes                 |
| T4          | 1.7                | 4.9       | 1.5                          | Negligible            | Yes                 |
| T5          | 0.1                | 4.9       | 2.1                          | Negligible            | Yes                 |
| T6          | 0.5                | 7.3       | 4.5                          | Negligible            | Yes                 |
| T7          | 1.1                | 2.4       | 1                            | Negligible            | Yes                 |
| T8          | 1.7                | 7.2       | 6                            | Unlikely*             | Yes                 |
| T9          | 0.5                | 2.3       | 2.8                          | Negligible            | Yes                 |
| T11         | 0.5                | 8.0       | 4.5                          | Negligible            | Yes                 |
| T12         | 0.7                | 2.7       | 3                            | Negligible            | Yes                 |
| T13         | 0.4                | 5.0       | 1.5                          | Negligible            | Yes                 |
| T14         | 0.2                | 8.4       | 2                            | Negligible            | Yes                 |
| T15         | 0.3                | 2.4       | 1                            | Negligible            | Yes                 |
| T16         | 0.3                | 8.9       | 2                            | Negligible            | Yes                 |
| T17         | 0.7                | 6.9       | 1.5                          | Negligible            | Yes                 |
| T18         | 0.7                | 4.3       | 4.5                          | Negligible            | Yes                 |
| T19         | 0.5                | 8.3       | 2                            | Negligible            | Yes                 |
| BP5         | 0.4                | 6.9       | 1.5                          | Negligible            | Yes                 |
| BP4         | 0.4                | 16.2      | 2.5                          | Negligible            | Yes                 |
| BP3         | 0.4                | 11.2      | 8                            | Unlikely              | Yes                 |

|  |     |     |     |            |     |
|--|-----|-----|-----|------------|-----|
| BP2                                    | 0.9 | 4.3 | 1.5 | Negligible | Yes |
| BP1                                    | 0.9 | 9.5 | 4   | Negligible | Yes |
| Welfare, Batch plant + Temp. Cons. (2) | 0.3 | 5.5 | 3   | Negligible | Yes |

\*The likelihood of peat instability rating at this location was previously “likely” but has been reviewed within section 5.3.1. The calculations show Turbine 8 to be at unlikely likelihood of instability.

Table 7 highlights that all 18 No. turbines are positioned on areas where there is a “negligible” or “unlikely” likelihood of peat instability.

All of the proposed borrow-pit locations (5 No. in total) are located on areas where there is a “negligible” or “unlikely” likelihood of peat instability. Peat thickness remains <1.0m at all borrow-pit locations though slope gradient does reach 16.2° and localised instability may still pose a risk dependant on deeper pockets of peat being situated across the borrow-pit area.

There are a number of areas identified as a “likely” likelihood of peat instability across the Site area. These locations have been identified within Figures 11.2.8a-8f: Risk Coefficients. The areas identified to be at elevated likelihood of peat instability are not anticipated to impact the wind farms development as construction works avoid these areas.

The drawings indicate that Turbine 8 is surrounded by an area at “likely” likelihood of peat instability. In this instance, due to Turbine 8 only marginally making into the “likely” likelihood category, this element of risk can be designed out at detailed design stage without the need to microsite any locations. A further assessment regarding the stability of peat beneath Turbine 8 has been carried out, in the section titled “Preliminary Stability Analysis”, which has justified the reduction in likelihood from “likely” to “unlikely”.

### *Preliminary Stability Analysis*

Following initial concern regarding the slope angle combined with depth of peat encompassing Turbine 8 highlighting the area to be at “likely” likelihood of peat instability, an additional stability analysis has been conducted in assessing the stability of the slope at this location by calculating the FoS (F) which is the ratio of the sum of resisting forces (shear strength) and the sum of the destabilising forces (shear stress):

$$F = \frac{c' + (y - m y_w)z \cos^2 \beta \tan \Phi'}{y z \sin \beta \cos \beta}$$

In this equation,  $c'$  is the effective cohesion,  $y$  is the unit weight of saturated peat,  $y_w$  is the unit weight of water,  $m$  is the height of the water table as a fraction of the peat depth,  $z$  is the peat depth in the direction of normal stress,  $\beta$  is the angle of the slope from the horizontal and  $\Phi'$  is the effective angle of internal friction.

The factor of Safety (FoS),  $F$ , represents the ratio of the forces resisting a slide divided by the forces causing the material to slide. If  $F > 1$  then the slope is stable and if  $F > 1.3$  then there is a degree of comfort that the slope will not fail.

The unit weight of water,  $\gamma_w$ , is  $9.81\text{kN/m}^3$ . The bulk density of peat varies with the level of decomposition. Past experience would suggest that a typical in situ undrained bulk density of  $12\text{kN/m}^3$  is acceptable. This typical value has been used in the FoS calculations.

On-site observations conclude that the peat is not saturated for the most part with saturated areas being isolated to blanket bog regions on the eastern edge of the Site and sporadic sections of the main site area. Consequently, a water table ratio,  $m$ , of 0.9 has been chosen.

The angle of internal friction in peat also varies, decreasing with increasing decomposition and moisture content. Based on engineering judgement, a conservative internal angle of friction has been adopted. For the FoS calculations a  $\phi'$  value of  $5^\circ$  has been selected in line with the conservative approach.

Literature values for  $c'$  in peat vary widely, ranging from  $4.5\text{kN/m}^2$  to  $60\text{kN/m}^2$ . In order to have greater confidence in the FoS calculation, the lower  $4.5\text{kN/m}^2$  value has been adopted which is likely conservative for a fibrous peat.

With regards to the peat thickness and slope angle across Turbine 8, the maximum values have been adopted based on the data included within Appendix B- Peat Slide Data. In this instance, a peat thickness of 1.7m and a slope angle of  $8.2^\circ$  have been used.

Utilising all of the parameters mentioned a FoS of  $>1.8$  has been calculated and there is therefore a degree of comfort that the peat adjacent to Turbine 8 will not fail and considered a low likelihood of peat instability.

### Access Track

The calculated likelihood of peat instability rating associated to access tracks have been summarised in Table 8. The majority of the probe locations along the proposed access track show a “negligible” potential for peat instability, with some areas of “likely” and “probable” likelihood. Figures 11.2.8a-8f: Risk Coefficients identifies areas at increased likelihood of peat instability along the access track. In most instances, the track can be micrositied to overcome any increased risk of destabilising peat. The ground investigation will better inform the detailed design of the access track and will inform the use of floated access tracks in places.

Table 8. Summary of likelihood of peat instability results for access tracks.

| Likelihood of Peat Instability | No. of Probes | Percentage of probes |
|--------------------------------|---------------|----------------------|
| Negligible                     | 598           | 57.5%                |
| Unlikely                       | 362           | 35.2%                |
| Likely                         | 73            | 7%                   |
| Probable                       | 3             | 0.3%                 |
| <b>TOTAL</b>                   | <b>1031</b>   | <b>100%</b>          |

## 5.2. Consequence of Peat Instability

In the potential case that peat destabilises, the consequence of this destabilisation must be better understood. Factors that control the consequence of peat instability include the scale of the peat failure (volume of failed peat) and the exposure of sensitive receptors to the risk of peat instability.

### 5.2.1. Scale

As section 4.3.1 highlights, there are two main forms of peat failure; bog bursts and peat slides. Bog bursts are large failures that occur in deep peats, subsequently distributing large volumes of peat. Peat slides are localised and limited in volume, typically moving over a short distance with the peat mass remaining relatively intact. However, peat slides have the potential to affect adjacent or downslope peat which is sensitive to disturbance, resulting in the trigger of larger scale debris type flows of material.

In addition to the failure mechanism, the scale of peat instability is linked to the volume of peat with the potential for failure and the relief of the site which has a direct impact on the consequence of destabilised peat. Subsequently, the scale of peat instability is calculated by:

$$\text{Scale} = \text{Peat Thickness} \times \text{Slope Angle}$$

### 5.2.2. Exposure

There are a number of elements potentially exposed to the risk of peat instability including:

- Construction works, including temporary and permanent access tracks, crane hardstandings, turbine locations and all other wind farm infrastructure, including substation and laydown areas;
- Environmentally sensitive areas.

The consequence of these elements being exposed to the risk include:

- Contamination of watercourses or private water supplies;
- Injury or death of construction personnel or remote persons;
- Disruption to the construction process;
- Damage to construction works or plant;
- Damage to remote infrastructure/ habitation;
- Blockage of temporary drainage;
- Injury or death of wildlife;
- Degradation or erosion of peat habitats; and
- Visual landscape changes.

The assessment of the exposure is based on the impact any peat instability has on receptors. The coefficient values used to grade the exposure range from 0.5 to 3. An increase in

coefficient is indicative of an increase in consequence and risk of peat instability. The applied coefficients for the exposure has been included within Table 9.

Table 9. Exposure coefficient.

| Exposure Receptor                                       | Exposure Coefficient |
|---|----------------------|
| Outside construction area and away from Sensitive Areas | 0.5                  |
| Potential to disrupt construction                       | 1.2                  |
| Potential to disrupt minor watercourses                 | 1.4                  |
| Potential to impact environmentally sensitive areas     | 2                    |
| Potential to interfere with dwellings                   | 3                    |

### 5.2.3. Consequence Assessment

The determination of consequence must consider the scale and effect of the failure. For instance, a large volume of peat that fails will have the potential to affect a large area and affect more receptors as opposed to a smaller volume of failed peat. Subsequently, the consequence of peat instability is calculated by:

$$\text{Consequence} = \text{Scale} \times \text{Exposure}$$

Table 10 highlights the consequence of peat instability class applied, which is dependant on the Consequence Rating Score value.

Table 10. Consequence Rating.

| Consequence Rating Score | Consequence of Peat Instability |
|--------------------------|---------------------------------|
| 0-20                     | Negligible                      |
| 20 – 40                  | Low                             |
| 40 – 60                  | Medium                          |
| 60-80                    | High                            |
| >80                      | Extremely High                  |

### 5.3. Risk Rating

The Scottish Government's Peat Landslide Hazard and Risk Assessments document recommends that the risk rating considers the likelihood and the consequence of peat instability. This philosophy can be applied to the assessment of risk carried out so far with the following formula:

$$\text{Risk Coefficient} = \text{Likelihood Rating} \times \text{Consequence Rating}$$

In order to assess the levels of risk associated with peat across the site, the likelihood rating and consequence rating have been normalised to a practical numerical scale where by the calculation of risk rating can be applied to the potential for peat instability and highlight the action required. Table 11 outlines the normalisation of the likelihood and consequence ratings which are then multiplied together to give the risk rating score, as outlined in Table 12. Table 13 highlights the potential stability risk and action required in association with the risk rating score.

Table 11. Risk Rating Normalisation.

| Likelihood Rating |                  | Consequence Rating |                  |
|-------------------|------------------|--------------------|------------------|
| Current Scale     | Normalised Scale | Current Scale      | Normalised Scale |
| <5                | 1                | <20                | 1                |
| 5-12              | 2                | 20-40              | 2                |
| 12-19             | 3                | 40-60              | 3                |
| 20-25             | 4                | 60-80              | 4                |
| >25               | >5               | >80                | >5               |

Table 12. Indicative Risk Levels.

|  |                    | Adverse Consequence |          |            |         |                |
|--|--------------------|---------------------|----------|------------|---------|----------------|
|  |                    | Extremely High (5)  | High (4) | Medium (3) | Low (2) | Negligible (1) |
| Peat Landslide Likelihood or Probability | Almost Certain (5) | >25                 | 20       | 15         | 10      | 5              |
|  | Probable (4)       | 20                  | 16       | 12         | 8       | 4              |
|  | Likely (3)         | 15                  | 12       | 9          | 6       | 3              |
|  | Unlikely (2)       | 10                  | 8        | 6          | 4       | 2              |
|  | Negligible (1)     | 5                   | 4        | 3          | 2       | 1              |

Table 13. Risk Rating.

| Risk Rating Score | Potential Stability Risk | Action   |
|-------------------|--------------------------|--|
| ≤4                | Negligible               | Project should proceed with monitoring and mitigation of peat landslide hazards at these locations as appropriate.   |
| 5 - 10            | Low                      | Project may proceed pending further investigation to refine assessment and mitigation hazard through relocation or re-design at these locations.                                       |
| 12 - 16           | Medium                   | Project should not proceed unless risk can be avoided or mitigated at these locations, without significant environmental impact, in order to reduce risk ranking to low or negligible. |
| >20               | High/Extremely High      | Avoid project development at these areas.  |

### 5.3.1. Hazard Score Development

Across the entirety of the Site only 2% of all 3617 No. probe locations have presented a “medium”, “high” or “extremely high” likelihood of peat instability. During the scheme development, the infrastructure has been sited away from these areas, therefore the likely risks are low or negligible. Due to the remote nature of the Site, the main impact of any peat instability would not affect the environment, ecology and the public or infrastructure associated with the proposed development. The majority of the sensitive receptors on-site relate to the minor watercourses that network across the Site. The proposed mitigation measures in section 6 would limit the potential for any slope failures into watercourses and drainage features and hence limit such impacts.

As discussed in section 7, it is recommended that fully intrusive GI should be conducted in order to better understand the ground conditions on site. This will allow for a fuller analysis of peat stability and allow for a more accurate decision to be made if infrastructure is to be relocated on site to accommodate for deep peat. Following on from additional GI, the peat slide risk assessment should be re-visited in line with the findings of the GI to inform detailed design stage.



## 6. Construction Methodologies and Mitigation Measures

At this stage in the projects development, it is anticipated that the majority of the new access tracks developed on-site will be founded track as thin peat deposits, <1.0m thick, are excavated out. It is currently estimated that approximately 15.13km of track will be cut and 2.02km of track will be floated. The track alignment could be micrositied within a 50m Limit of Deviation (LOD) from the proposed alignment during construction. Once peat characteristics and extents are better understood following on from a ground investigation, the findings will aid in determining peat safe excavation profiles and temporary storage of excavated peat for re-use. Micrositing of the access track would only take place with the approval of the Environmental Clerk of Works (ECoW) and Geotechnical Clerk of Works (GCoW). Based on the findings of this PSRA, the majority of the Site is at “Negligible” and “Low” risk of peat instability though the potential for instable peat can not be discounted if unforeseen ground conditions are encountered.

Considerations for construction methodologies and mitigation measures to combat the potential for peat instability are presented in this section of the PSRA.

### 6.1. Construction Methodologies

The following is a list of controls that should be considered for incorporation into the development of construction methodologies for the works in all areas of peat during detailed design stage:

- An appropriate and qualified engineering geologist or geotechnical engineer should be appointed during the ground investigation and the construction phase to provide advice during the setting out of the GI, micrositing of infrastructure and construction phases of works;
- A geotechnical risk register is developed and maintained by an appointed geotechnical engineer. This will be re-visited and re-appraised during detailed design;
- A robust design of drainage systems and associated silt barriers to minimise sedimentation into the natural watercourses. A method statement should be prepared in advance to mitigate against peat instability occurring and should include the use of check dams and erosion protection to limit flows and prevent contamination of watercourses;
- A minimisation of “undercutting” of peat slopes, but where this cannot be avoided, a more detailed assessment of the area of concern by an appointed geotechnical engineer would be required;
- Careful micro-siting of turbine bases, crane hardstandings and access track alignments to minimise impact on the prevailing hydrology;
- Although the risk of a peat slide is considered “Negligible” to “Low” for the majority of the Site, it is recommended that methodologies should be developed as a contingency to minimise the effects to watercourses in the unlikely event of peat instability;
- The use of floating track or in areas of deep peat >1.0m. However, floating tracks should not be constructed on slopes >10°; and

- The stripping of superficial deposits (peat, topsoil and subsoil) to expose a suitable founding level such a granular material or rock, where necessary. Stripped material should be stored for future reinstatement on site.

Notwithstanding any of the above comments, detailed design and construction practices would need to consider the particular ground conditions and the specific works at each location throughout the construction period.

## 6.2. Mitigation Measures

Based on previous experience and good practice in the development of wind farm layouts, the findings of the peat probing surveys have been considered and incorporated throughout the development of the wind farm's layout.

Wind farm tracks and other construction elements have been designed to avoid areas of deeper peat and areas of unsuitably steep sloping ground where practicable; minimising the generation of excavated soil and peat volumes.

The following list of mitigation measures is provided to minimise the risk of potentially inducing peat landslides during construction of the proposed development.

### 6.2.1. General

- Raise Health and Safety awareness of the peat environment at the Proposed Development for construction staff by incorporating the issue into the Site Induction. Include peat slide risk assessment information (e.g. peat instability indicators, best practice and emergency procedures) in toolbox talks with relevant operatives e.g. plant drivers;
- Introduce a 'Peat Hazard Emergency Plan' to provide instructions for site staff in the event of a peat slide or discovery of peat instability indicators;
- For sections of track that require track side cuttings into peat, suitable support measures will need to be designed to maintain the stability of the adjacent peat terrain;
- Refine/optimize the design through the pre-construction phase following completion of a detailed ground investigation; and
- Develop methodologies to ensure that accelerated degradation and erosion of exposed peat deposits does not occur. The breakup of the peat top mat has significant implications for the morphology, and thus hydrology, of the peat (e.g. minimise off-track plant movements within areas of peat).

### 6.2.2. Drainage Measures

Drainage design for the proposed development is a critical mitigation measure in maintaining the hydrological conditions on site. In order to maintain hydrological conditions, the following requirements of the drainage measures should be met:

- Development of drainage systems that will not create areas of concentrated flow or cause over- or under-saturation of peat habitats;

- Development of robust drainage systems that would require minimal maintenance; and
- Development of drainage systems that will minimise an increase in sedimentation into natural watercourses such as; silt traps, silt fences and sediment ponds.

Additional mitigation measures regarding drainage systems that will safeguard the water environment are given in Chapter 10 (Hydrology and Hydrogeology) of this EIA report.

## 7. Conclusion and Recommendations

### 7.1. Conclusions

It was highlighted during the multiple phases of peat probing that peat thickness across the majority of the Site is between 0.5m to 1.0m in thickness with sporadic deeper pockets of peat in places >3.0m thick generally observed within flatter areas.

BGS mapping suggests that the thin peat and peaty soils are underlain by glacial material and weathered rock. Rock is anticipated to be close to surface level towards the northern half of the Site, in close proximity to the two main hills that are located on site; Beinn Sgeireach and Carn nam Bo Maola. This was confirmed during a site walkover where rocky outcrops were noted in the northern half of the Site. The bedrock geology underlain the Site comprises predominantly of interbedded Psammite, Pelite and Semi-Pelite. Towards the southern extents of the Site Leucogranite may feature in localised regions.

A total of 3617 No. peat probes were analysed to inform the Qualitative Risk Assessment of peat stability across the Site area. It was noted that 12.2% (443 probes) of all probes recorded a no peat; 48.4% (1751 probes) were less than 0.5m thick; 751 probes were 0.5-1.0m thickness, 9.5% (344 probes) were between 1.0m and 1.5m thickness, 4.8% (173 probes) were between 1.5m and 2.0m thickness and 4.3% (155 probes) were greater than 2.0m thickness.

The preliminary analysis of peat stability has taken into account the distribution of peat and the thicknesses encountered across the Site when considering the layout of the proposed development.

A risk assessment was undertaken to determine the baseline peat stability conditions in areas of proposed wind farm infrastructure. The risk assessment is based on the Scottish Governments: "Peat Landslide Hazard and Risk Assessments: Best Practice Guide for Proposed Electricity Generation Developments." This approach considers the likelihood and consequence of peat instability in order to determine the overall risk of a peat slide.

The likelihood of peat instability considers peat thickness, slope angle, breaks in slope and hydrological conditions of peat at a given probe location. The consequence of peat instability considers the scale of a peat failure and the consequence any peat failures would have on the environment and surrounding area. The consequence is then multiplied by the likelihood to calculate the overall risk. The results of this analysis categorised the baseline risk rating of the Proposed Development to be "Negligible" to "Low." Following initial concern regarding the slope angle combined with depth of peat encompassing Turbine 8, an additional stability assessment was carried out at this location which highlighted that the likelihood of peat instability at this location is unlikely.

Once a ground investigation has been conducted, the issue of peat stability will be re-visited. In this instance, a more thorough preliminary stability assessment will be carried out as there will be a better understanding regarding the engineering properties of the peat and the superficial geology underlying the peat.

## 7.2. Recommendations

This report should be considered as a live document and the first stage in the development of a fundamental understanding of the various inter-relationships that govern and control the stability of the peatlands at the proposed Achany Extension Wind Farm.

With regards to peat stability and notwithstanding the construction methodology and mitigation measures outlined in Section 5, further recommendations relating to proposed construction elements are listed below:

### 7.2.1. Turbines

Peat will be excavated and removed from each turbine footprint and as such will not be present or subject to loading and subsequently reducing the risk of instability, assuming the perimeter of the turbine excavation is treated appropriately and excavated faces are appropriately graded to minimise slope failure. This also includes not stockpiling material upslope of any excavations.

It is anticipated that gravity pad foundations will be adopted, founding on a sound bearing stratum which would be the preferred solution when founding turbines. Although gravity pad foundations are the preferred solution, this is subject to a ground investigation confirming ground conditions. Therefore piled foundations cannot be discounted at this stage in the project's development.

If the risk of peat instability is too high once a better understanding of peat conditions is gained from GI then micro-siting of the turbine locations will be required.

### 7.2.2. Access Track

The main recommendations for the design and construction of access tracks over peat are listed as follows:

- Identify all existing drainage features within track corridors; these drainage features should be maintained during the construction and operational phases of the proposed development;
- Install cross drains at regular intervals to maintain interstitial groundwater flow through peat beneath the tracks where track settlement could reduce the natural permeability of the underlying material;
- Install additional drainage up slope of any access track to alleviate the track of potential ponding and not over exert any track drainage;
- Install small dams along the track drainage ditches to slow down the velocity of groundwater which can result in the erosion of peat;
- The running surface of the track should be cambered slightly to shed water away from the track surface; and

- Where peat thickness is <1.0m cut tracks will be developed. Where peat exceeds this, floating tracks should be considered.

#### 7.2.3. Additional Ground Investigation Requirements

In order to better inform the detailed design of the proposed wind farm development, additional ground investigation works are recommended at areas of proposed infrastructure to help facilitate the geotechnical design of the various foundations and access track, particularly the vertical and horizontal alignment and the design of any potential river/stream crossings. The ground investigation will also establish ground conditions including peat properties and the engineering parameters of the underlying soil and rock. This will allow for a more detailed peat slide risk assessment to be developed as the development progresses.

In relation to the exploration of peat conditions on site, the ground investigation will include cone penetrometer tests, trial pits and boreholes. In-situ hand shear vane testing will be carried out within the trial pits and samples of peat will be obtained from exploratory holes to conduct laboratory testing on. The tests will include moisture content and organic matter content testing.

#### 7.2.4. Further Works

- Development of the CEMP for mitigation measures including, but not limited to, the use of check dams and erosion protection to limit flow and prevent contamination of watercourses;
- Appoint an appropriately qualified and experienced engineering geologist or geotechnical engineer to advise during the setting out of the GI, micro-siting and construction phases of the works.

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## Appendix B – Peat Risk Data

| ID    | Easting | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|-------|---------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 1.00  | 240695  | 916858    | 0.00           | No Peat                    | 0                | 1.5       | 1                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 2.00  | 240693  | 916860    | 0.40           | Peaty Soil                 | 1                | 1.5       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.6   | 0.5      | 0                        | 0.02                                  | 0.02             |
| 3.00  | 240708  | 916824    | 0.40           | Peaty Soil                 | 1                | 1.3       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.5   | 0.5      | 0                        | 0.02                                  | 0.02             |
| 4.00  | 240711  | 916770    | 0.90           | V. Thin Peat               | 2                | 4.6       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.1   | 0.5      | 2                        | 0.13                                  | 0.77             |
| 5.00  | 240701  | 916719    | 1.40           | Thin Peat                  | 3                | 4.9       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.8   | 0.5      | 3                        | 0.21                                  | 1.92             |
| 6.00  | 240700  | 916678    | 0.70           | V. Thin Peat               | 2                | 2.6       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.8   | 0.5      | 1                        | 0.06                                  | 0.23             |
| 7.00  | 240706  | 916612    | 0.60           | V. Thin Peat               | 2                | 2.4       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.4   | 0.5      | 1                        | 0.04                                  | 0.18             |
| 8.00  | 240749  | 916583    | 0.30           | Peaty Soil                 | 1                | 4.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 0.5      | 1                        | 0.04                                  | 0.12             |
| 9.00  | 240817  | 916537    | 0.40           | Peaty Soil                 | 1                | 4.8       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.9   | 0.5      | 1                        | 0.06                                  | 0.18             |
| 10.00 | 240887  | 916512    | 2.00           | Thick Peat                 | 4                | 1.5       | 1                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.1   | 0.5      | 2                        | 0.10                                  | 0.39             |
| 11.00 | 240928  | 916490    | 0.50           | Peaty Soil                 | 1                | 4.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.2   | 0.5      | 1                        | 0.07                                  | 0.21             |
| 12.00 | 240969  | 916468    | 0.60           | V. Thin Peat               | 2                | 5.8       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.5   | 0.5      | 2                        | 0.11                                  | 0.65             |
| 13.00 | 241000  | 916440    | 0.40           | Peaty Soil                 | 1                | 2.7       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.1   | 0.5      | 1                        | 0.03                                  | 0.07             |
| 16.00 | 241124  | 916362    | 1.50           | Thin Peat                  | 3                | 2.6       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.9   | 0.5      | 2                        | 0.12                                  | 0.73             |
| 17.00 | 241138  | 916298    | 0.00           | No Peat                    | 0                | 3.4       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 18.00 | 241173  | 916294    | 1.10           | Thin Peat                  | 3                | 3.1       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.4   | 0.5      | 2                        | 0.11                                  | 0.64             |
| 19.00 | 241201  | 916272    | 1.50           | Thin Peat                  | 3                | 3.4       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.1   | 0.5      | 3                        | 0.16                                  | 0.95             |
| 20.00 | 241259  | 916294    | 1.50           | Thin Peat                  | 3                | 2.3       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.5   | 0.5      | 2                        | 0.11                                  | 0.65             |
| 21.00 | 241298  | 916311    | 1.50           | Thin Peat                  | 3                | 7.3       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 11.0  | 0.5      | 5                        | 0.34                                  | 3.08             |
| 22.00 | 241353  | 916330    | 0.70           | V. Thin Peat               | 2                | 6.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.3   | 0.5      | 2                        | 0.13                                  | 0.80             |
| 23.00 | 241410  | 916349    | 1.40           | Thin Peat                  | 3                | 1.5       | 1                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.1   | 0.5      | 1                        | 0.07                                  | 0.20             |
| 24.00 | 241442  | 916356    | 1.30           | Thin Peat                  | 3                | 7.0       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 9.1   | 0.5      | 5                        | 0.28                                  | 2.55             |
| 25.00 | 241473  | 916366    | 0.40           | Peaty Soil                 | 1                | 4.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 26.00 | 241509  | 916377    | 1.10           | Thin Peat                  | 3                | 0.9       | 1                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 0.5      | 1                        | 0.03                                  | 0.09             |
| 27.00 | 241545  | 916386    | 1.90           | Thick Peat                 | 4                | 5.6       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 10.7  | 0.5      | 5                        | 0.33                                  | 4.01             |
| 28.00 | 241572  | 916393    | 1.00           | V. Thin Peat               | 2                | 4.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.3   | 0.5      | 2                        | 0.13                                  | 0.80             |
| 29.00 | 241627  | 916412    | 0.50           | Peaty Soil                 | 1                | 3.0       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.09             |
| 30.00 | 241676  | 916381    | 0.40           | Peaty Soil                 | 1                | 4.6       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.9   | 0.5      | 1                        | 0.06                                  | 0.17             |
| 31.00 | 241730  | 916301    | 0.00           | No Peat                    | 0                | 5.4       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 32.00 | 241738  | 916273    | 0.60           | V. Thin Peat               | 2                | 7.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.6   | 0.5      | 2                        | 0.14                                  | 0.87             |
| 33.00 | 241747  | 916217    | 0.30           | Peaty Soil                 | 1                | 4.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.14             |
| 34.00 | 241750  | 916156    | 0.40           | Peaty Soil                 | 1                | 5.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.0   | 0.5      | 1                        | 0.06                                  | 0.19             |
| 35.00 | 241754  | 916096    | 0.20           | Peaty Soil                 | 1                | 6.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.11             |
| 36.00 | 241761  | 916041    | 0.50           | Peaty Soil                 | 1                | 6.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.0   | 0.5      | 2                        | 0.09                                  | 0.28             |
| 37.00 | 241763  | 915971    | 0.30           | Peaty Soil                 | 1                | 8.9       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.7   | 0.5      | 1                        | 0.08                                  | 0.34             |
| 38.00 | 241768  | 915911    | 1.00           | V. Thin Peat               | 2                | 6.8       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 6.8   | 0.5      | 3                        | 0.21                                  | 1.27             |
| 39.00 | 241744  | 915856    | 0.70           | V. Thin Peat               | 2                | 7.6       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.3   | 0.5      | 3                        | 0.17                                  | 1.00             |
| 40.00 | 241725  | 915813    | 1.90           | Thick Peat                 | 4                | 6.2       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 11.9  | 0.5      | 6                        | 0.37                                  | 4.45             |
| 41.00 | 241719  | 915809    | 0.60           | V. Thin Peat               | 2                | 6.8       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.1   | 0.5      | 2                        | 0.13                                  | 0.77             |
| 42.00 | 241676  | 915767    | 1.20           | Thin Peat                  | 3                | 6.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 7.5   | 0.5      | 4                        | 0.23                                  | 2.11             |
| 43.00 | 241673  | 915749    | 0.40           | Peaty Soil                 | 1                | 6.8       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.7   | 0.5      | 1                        | 0.09                                  | 0.26             |
| 44.00 | 241626  | 915722    | 0.60           | V. Thin Peat               | 2                | 5.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.59             |
| 45.00 | 241540  | 915709    | 0.30           | Peaty Soil                 | 1                | 5.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 46.00 | 241437  | 915694    | 0.30           | Peaty Soil                 | 1                | 5.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.6   | 0.5      | 1                        | 0.05                                  | 0.15             |
| 47.00 | 241353  | 915666    | 0.80           | V. Thin Peat               | 2                | 8.2       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 6.5   | 0.5      | 3                        | 0.20                                  | 1.63             |
| 48.00 | 241312  | 915634    | 1.20           | Thin Peat                  | 3                | 7.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 8.6   | 0.5      | 4                        | 0.27                                  | 2.42             |
| 49.00 | 241264  | 915594    | 0.90           | V. Thin Peat               | 2                | 7.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 7.1   | 0.5      | 4                        | 0.22                                  | 1.34             |
| 50.00 | 241283  | 915535    | 0.90           | V. Thin Peat               | 2                | 8.0       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 7.2   | 0.5      | 4                        | 0.22                                  | 1.34             |
| 51.00 | 241333  | 915476    | 0.50           | Peaty Soil                 | 1                | 7.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.5   | 0.5      | 2                        | 0.11                                  | 0.33             |
| 52.00 | 241373  | 915435    | 1.50           | Thin Peat                  | 3                | 8.1       | 4                 | 1                             | 1                          | 12.00                   | 2.4                                  | 12.2  | 0.5      | 6                        | 0.38                                  | 4.56             |
| 53.00 | 241411  | 915394    | 0.00           | No Peat                    | 0                | 6.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 54.00 | 241440  | 915341    | 0.60           | V. Thin Peat               | 2                | 8.2       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 4.9   | 0.5      | 2                        | 0.15                                  | 1.23             |
| 55.00 | 241418  | 915293    | 0.40           | Peaty Soil                 | 1                | 6.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.8   | 0.5      | 1                        | 0.09                                  | 0.26             |
| 56.00 | 241461  | 915243    | 0.50           | Peaty Soil                 | 1                | 7.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.5   | 0.5      | 2                        | 0.11                                  | 0.33             |
| 57.00 | 241462  | 915239    | 1.60           | Thick Peat                 | 4                | 7.7       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 12.3  | 0.5      | 6                        | 0.39                                  | 4.62             |
| 58.00 | 241492  | 915213    | 0.80           | V. Thin Peat               | 2                | 9.5       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 7.6   | 0.5      | 4                        | 0.24                                  | 1.90             |
| 59.00 | 241516  | 915172    | 1.00           | V. Thin Peat               | 2                | 6.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 6.9   | 0.5      | 3                        | 0.22                                  | 1.29             |
| 60.00 | 241538  | 915127    | 1.10           | Thin Peat                  | 3                | 6.3       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.9   | 0.5      | 3                        | 0.22                                  | 1.95             |
| 61.00 | 241542  | 915066    | 0.80           | V. Thin Peat               | 2                | 7.2       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.8   | 0.5      | 3                        | 0.18                                  | 1.09             |
| 62.00 | 241551  | 915005    | 0.20           | Peaty Soil                 | 1                | 5.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 0.5      | 0                        | 0.03                                  | 0.09             |
| 63.00 | 241565  | 914956    | 0.70           | V. Thin Peat               | 2                | 6.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.2   | 0.5      | 2                        | 0.13                                  | 0.79             |
| 64.00 | 241577  | 914923    | 1.60           | Thick Peat                 | 4                | 7.4       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 11.9  | 0.5      | 6                        | 0.37                                  | 4.46             |
| 65.00 | 241614  | 914918    | 1.20           | Thin Peat                  | 3                | 7.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 8.6   | 0.5      | 4                        | 0.27                                  | 2.42             |
| 66.00 | 241628  | 914883    | 0.90           | V. Thin Peat               | 2                | 5.2       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.7   | 0.5      | 2                        | 0.15                                  | 0.88             |
| 67.00 | 241649  | 914824    | 0.80           | V. Thin Peat               | 2                | 1.8       | 1                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.09             |
| 68.00 | 241666  | 914774    | 0.40           | Peaty Soil                 | 1                | 4.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.9   | 0.5      | 1                        | 0.06                                  | 0.18             |
| 69.00 | 241688  | 914720    | 0.00           | No Peat                    | 0                | 6.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 70.00 | 241722  | 914672    | 0.60           | V. Thin Peat               | 2                | 6.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.1   | 0.5      | 2                        | 0.13                                  | 0.78             |
| 71.00 | 241759  | 914629    | 0.40           | Peaty Soil                 | 1                | 7.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.8   | 0.5      | 1                        | 0.09                                  | 0.26             |
| 72.00 | 241806  | 914589    | 0.00           | No Peat                    | 0                | 6.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 73.00 | 241850  | 914524    | 0.80           | V. Thin Peat               | 2                | 4.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.8   | 0.5      | 2                        | 0.12                                  | 0.71             |
| 74.00 | 241874  | 914498    | 0.60           | V. Thin Peat               | 2                | 4.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 2.6   | 0.5      | 1                        | 0.08                                  | 0.49             |
| 75.00 | 241904  | 914427    | 0.50           | Peaty Soil                 | 1                | 8.8       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 4.4   | 0.5      | 2                        | 0.14                                  | 0.55             |
| 76.00 | 241967  | 914365    | 0.90           | V. Thin Peat               | 2                | 4.5       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.0   | 0.5      | 2                        | 0.13                                  | 0.76             |
| 77.00 | 242009  | 914333    | 2.50           | V. Thick Peat              | 5                | 3.4       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 8.4   | 0.5      | 4                        | 0.26                                  | 2.62             |
| 78.00 | 242043  | 914310    | 2.50           | V. Thick Peat              | 5                | 5.7       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 14.3  | 0.5      | 7                        | 0.45                                  | 6.73             |
| 79.00 | 242088  | 914285    | 2.50           | V. Thick Peat              | 5                | 7.6       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 19.1  | 0.5      | 10                       | 0.60                                  | 8.95             |
| 80.00 | 242130  | 914249    | 0.40           | Peaty Soil                 | 1                | 6.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.7   | 0.5      | 1                        | 0.09                                  | 0.26             |
| 81.00 | 242160  | 914234    | 0.00           | No Peat                    | 0                | 6.1       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 82.00 | 242213  | 914180    | 1.20           | Thin Peat                  | 3                | 7.7       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 9.2   | 0.5      | 5                        | 0.29                                  | 2.60             |
| 83.00 | 242234  | 914113    | 0.10           | Peaty Soil                 | 1                | 15.4      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 1.5   | 0.5      | 1                        | 0.05                                  | 0.24             |
| 84.00 | 242247  | 914060    | 0.00           | No Peat                    | 0                | 5.8       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 85.00 | 242252  | 914032    | 1.60           | Thick Peat                 | 4                | 11.1      | 4                 | 1                             | 1                          | 16.00                   | 3.2                                  | 17.8  | 0.5      | 9                        | 0.56                                  | 8.89             |
| 86.00 | 242255  | 914001    | 1.40           | Thin Peat                  | 3                | 3.2       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.5   | 0.5      | 2                        | 0.14                                  | 0.84             |
| 87.00 | 242264  | 913981    | 0.60           | V. Thin Peat               | 2                | 7.6       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.6   | 0.5      | 2                        | 0.14                                  | 0.86             |
| 88.00 | 242270  | 913963    | 0.10           | Peaty Soil                 | 1                | 6.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.6   | 0.5      | 0                        |                                       |                  |



| ID     | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|--------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 115.00 | 243255   | 914132    | 0.00           | No Peat                    | 0                | 5.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 116.00 | 243263   | 914138    | 0.60           | V. Thin Peat               | 2                | 5.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.4   | 0.5      | 2                        | 0.11                                  | 0.64             |
| 117.00 | 243325   | 914151    | 0.70           | V. Thin Peat               | 2                | 18.3      | 5                 | 1                             | 1                          | 10.00                   | 2                                    | 12.8  | 0.5      | 6                        | 0.40                                  | 4.00             |
| 118.00 | 243357   | 914168    | 1.10           | Thin Peat                  | 3                | 6.7       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 7.4   | 0.5      | 4                        | 0.23                                  | 2.08             |
| 119.00 | 243419   | 914133    | 0.90           | V. Thin Peat               | 2                | 6.0       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.4   | 0.5      | 3                        | 0.17                                  | 1.01             |
| 120.00 | 243512   | 914193    | 0.00           | No Peat                    | 0                | 8.0       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 121.00 | 243572   | 914204    | 1.20           | Thin Peat                  | 3                | 7.5       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 8.9   | 0.5      | 4                        | 0.28                                  | 2.52             |
| 122.00 | 243648   | 914169    | 1.10           | Thin Peat                  | 3                | 5.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 5.8   | 0.5      | 3                        | 0.18                                  | 1.62             |
| 123.00 | 243696   | 914157    | 2.60           | V. Thick Peat              | 5                | 4.1       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 10.6  | 0.5      | 5                        | 0.33                                  | 4.97             |
| 124.00 | 243765   | 914141    | 1.10           | Thin Peat                  | 3                | 5.5       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.1   | 0.5      | 3                        | 0.19                                  | 1.72             |
| 125.00 | 243789   | 914141    | 0.00           | No Peat                    | 0                | 7.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 126.00 | 243523   | 913722    | 0.30           | Peaty Soil                 | 1                | 6.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.9   | 0.5      | 1                        | 0.06                                  | 0.18             |
| 127.00 | 243518   | 913641    | 0.00           | No Peat                    | 0                | 6.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 128.00 | 243516   | 913642    | 0.00           | No Peat                    | 0                | 9.7       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 129.00 | 243407   | 913593    | 0.50           | Peaty Soil                 | 1                | 7.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.5   | 0.5      | 2                        | 0.11                                  | 0.33             |
| 130.00 | 243305   | 913595    | 0.00           | No Peat                    | 0                | 6.4       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 131.00 | 243308   | 913596    | 0.30           | Peaty Soil                 | 1                | 3.4       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.0   | 0.5      | 1                        | 0.03                                  | 0.06             |
| 132.00 | 243341   | 913521    | 0.20           | Peaty Soil                 | 1                | 3.5       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 0.5      | 0                        | 0.02                                  | 0.04             |
| 133.00 | 243426   | 913458    | 0.20           | Peaty Soil                 | 1                | 2.7       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.5   | 0.5      | 0                        | 0.02                                  | 0.03             |
| 134.00 | 243512   | 913358    | 0.40           | Peaty Soil                 | 1                | 6.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.4   | 0.5      | 1                        | 0.07                                  | 0.22             |
| 135.00 | 243570   | 913317    | 0.40           | Peaty Soil                 | 1                | 3.4       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.4   | 0.5      | 1                        | 0.04                                  | 0.09             |
| 136.00 | 243624   | 913326    | 0.20           | Peaty Soil                 | 1                | 3.2       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.6   | 0.5      | 0                        | 0.02                                  | 0.04             |
| 137.00 | 243677   | 913284    | 0.20           | Peaty Soil                 | 1                | 3.9       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.8   | 0.5      | 0                        | 0.02                                  | 0.05             |
| 138.00 | 243749   | 913247    | 0.90           | V. Thin Peat               | 2                | 3.5       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.1   | 0.5      | 2                        | 0.10                                  | 0.39             |
| 139.00 | 243763   | 913209    | 1.10           | Thin Peat                  | 3                | 2.9       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.61             |
| 140.00 | 243771   | 913163    | 1.10           | Thin Peat                  | 3                | 7.1       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 7.8   | 0.5      | 4                        | 0.24                                  | 2.20             |
| 141.00 | 243789   | 913108    | 2.90           | V. Thick Peat              | 5                | 3.8       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 10.9  | 0.5      | 5                        | 0.34                                  | 3.40             |
| 142.00 | 243790   | 913103    | 3.00           | V. Thick Peat              | 5                | 4.6       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 13.7  | 0.5      | 7                        | 0.43                                  | 6.43             |
| 143.00 | 243814   | 913058    | 1.90           | Thick Peat                 | 4                | 4.4       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 8.4   | 0.5      | 4                        | 0.26                                  | 3.16             |
| 144.00 | 243868   | 912999    | 0.30           | Peaty Soil                 | 1                | 5.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.14             |
| 145.00 | 243876   | 912927    | 2.30           | V. Thick Peat              | 5                | 2.8       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 6.4   | 0.5      | 3                        | 0.20                                  | 2.01             |
| 146.00 | 243869   | 912901    | 1.00           | V. Thin Peat               | 2                | 4.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.3   | 0.5      | 2                        | 0.13                                  | 0.81             |
| 147.00 | 243870   | 912881    | 0.60           | V. Thin Peat               | 2                | 5.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.60             |
| 148.00 | 243886   | 912779    | 0.60           | V. Thin Peat               | 2                | 5.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.1   | 0.5      | 2                        | 0.10                                  | 0.58             |
| 149.00 | 243887   | 912714    | 0.80           | V. Thin Peat               | 2                | 7.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 6.4   | 0.5      | 3                        | 0.20                                  | 1.19             |
| 150.00 | 243907   | 912629    | 0.50           | Peaty Soil                 | 1                | 6.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.0   | 0.5      | 2                        | 0.09                                  | 0.28             |
| 151.00 | 243903   | 912559    | 0.60           | V. Thin Peat               | 2                | 2.7       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.6   | 0.5      | 1                        | 0.05                                  | 0.20             |
| 152.00 | 243892   | 912480    | 0.60           | V. Thin Peat               | 2                | 5.0       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.0   | 0.5      | 1                        | 0.09                                  | 0.56             |
| 153.00 | 243891   | 912405    | 0.30           | Peaty Soil                 | 1                | 5.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.14             |
| 154.00 | 243896   | 912312    | 0.40           | Peaty Soil                 | 1                | 4.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 155.00 | 243960   | 912253    | 0.80           | V. Thin Peat               | 2                | 3.4       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.7   | 0.5      | 1                        | 0.08                                  | 0.34             |
| 156.00 | 244052   | 912219    | 1.00           | V. Thin Peat               | 2                | 3.7       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.7   | 0.5      | 2                        | 0.11                                  | 0.46             |
| 157.00 | 244138   | 912177    | 0.90           | V. Thin Peat               | 2                | 4.4       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.9   | 0.5      | 2                        | 0.12                                  | 0.73             |
| 158.00 | 244193   | 912191    | 0.70           | V. Thin Peat               | 2                | 1.7       | 1                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.07             |
| 159.00 | 244268   | 912147    | 0.70           | V. Thin Peat               | 2                | 4.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.0   | 0.5      | 1                        | 0.09                                  | 0.56             |
| 160.00 | 244445   | 912048    | 0.30           | Peaty Soil                 | 1                | 6.7       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 2.0   | 0.5      | 1                        | 0.06                                  | 0.26             |
| 161.00 | 244474   | 911978    | 0.60           | V. Thin Peat               | 2                | 5.7       | 3                 | 1                             | 1.4                        | 8.40                    | 1.68                                 | 3.4   | 0.5      | 2                        | 0.11                                  | 0.90             |
| 162.00 | 244527   | 911940    | 1.00           | V. Thin Peat               | 2                | 3.1       | 2                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 3.1   | 0.5      | 2                        | 0.10                                  | 0.55             |
| 163.00 | 244440   | 911730    | 0.20           | Peaty Soil                 | 1                | 3.5       | 2                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 0.7   | 0.5      | 0                        | 0.02                                  | 0.06             |
| 164.00 | 244397   | 911662    | 0.70           | V. Thin Peat               | 2                | 4.1       | 3                 | 1                             | 1.4                        | 8.40                    | 1.68                                 | 2.9   | 0.5      | 1                        | 0.09                                  | 0.76             |
| 165.00 | 244377   | 911612    | 0.90           | V. Thin Peat               | 2                | 5.1       | 3                 | 1                             | 1.4                        | 8.40                    | 1.68                                 | 4.6   | 0.5      | 2                        | 0.14                                  | 1.20             |
| 166.00 | 244344   | 911569    | 0.50           | Peaty Soil                 | 1                | 2.0       | 2                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 1.0   | 0.5      | 1                        | 0.03                                  | 0.09             |
| 167.00 | 244309   | 911480    | 0.80           | V. Thin Peat               | 2                | 0.9       | 1                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 0.7   | 0.5      | 0                        | 0.02                                  | 0.06             |
| 168.00 | 244289   | 911417    | 0.70           | V. Thin Peat               | 2                | 3.0       | 2                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 2.1   | 0.5      | 1                        | 0.07                                  | 0.37             |
| 169.00 | 244281   | 911286    | 1.10           | Thin Peat                  | 3                | 5.2       | 3                 | 1                             | 1.4                        | 12.60                   | 2.52                                 | 5.7   | 0.5      | 3                        | 0.18                                  | 2.26             |
| 170.00 | 244283   | 911240    | 1.00           | V. Thin Peat               | 2                | 3.2       | 2                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.55             |
| 171.00 | 244295   | 911126    | 0.60           | V. Thin Peat               | 2                | 1.3       | 1                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 0.8   | 0.5      | 0                        | 0.02                                  | 0.07             |
| 172.00 | 244323   | 910973    | 1.00           | V. Thin Peat               | 2                | 1.8       | 1                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 1.8   | 1.2      | 2                        | 0.14                                  | 0.38             |
| 173.00 | 244294   | 910872    | 0.30           | Peaty Soil                 | 1                | 1.7       | 1                 | 1                             | 1.4                        | 1.40                    | 0.28                                 | 0.5   | 1.2      | 1                        | 0.04                                  | 0.05             |
| 174.00 | 246170   | 907913    | 0.90           | V. Thin Peat               | 2                | 3.2       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.9   | 0.5      | 1                        | 0.09                                  | 0.36             |
| 175.00 | 246074   | 907862    | 2.50           | V. Thick Peat              | 5                | 3.6       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 9.0   | 0.5      | 4                        | 0.28                                  | 2.80             |
| 176.00 | 246071   | 907861    | 2.50           | V. Thick Peat              | 5                | 7.5       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 18.6  | 0.5      | 9                        | 0.58                                  | 8.74             |
| 177.00 | 245990   | 907800    | 2.50           | V. Thick Peat              | 5                | 4.5       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 11.2  | 1.4      | 16                       | 0.98                                  | 14.73            |
| 178.00 | 246050   | 907716    | 2.00           | Thick Peat                 | 4                | 8.1       | 4                 | 1                             | 1                          | 16.00                   | 3.2                                  | 16.1  | 0.5      | 8                        | 0.50                                  | 8.06             |
| 179.00 | 246134   | 907658    | 2.50           | V. Thick Peat              | 5                | 3.1       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 7.8   | 1.4      | 11                       | 0.68                                  | 6.82             |
| 180.00 | 246232   | 907602    | 2.50           | V. Thick Peat              | 5                | 6.5       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 16.3  | 1.4      | 23                       | 1.42                                  | 21.36            |
| 181.00 | 246328   | 907571    | 1.90           | Thick Peat                 | 4                | 5.5       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 10.5  | 1.4      | 15                       | 0.92                                  | 11.06            |
| 182.00 | 246415   | 907510    | 0.80           | V. Thin Peat               | 2                | 4.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.4   | 1.2      | 4                        | 0.26                                  | 1.54             |
| 183.00 | 246502   | 907456    | 1.00           | V. Thin Peat               | 2                | 5.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.7   | 1.2      | 7                        | 0.43                                  | 2.57             |
| 184.00 | 246574   | 907426    | 0.60           | V. Thin Peat               | 2                | 7.5       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.5   | 1.2      | 5                        | 0.34                                  | 2.01             |
| 185.00 | 246668   | 907389    | 0.60           | V. Thin Peat               | 2                | 8.1       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 4.8   | 1.2      | 6                        | 0.36                                  | 2.90             |
| 186.00 | 246746   | 907326    | 0.90           | V. Thin Peat               | 2                | 8.4       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 7.5   | 0.5      | 4                        | 0.23                                  | 1.88             |
| 187.00 | 246839   | 907277    | 1.00           | V. Thin Peat               | 2                | 3.2       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.2   | 1.2      | 4                        | 0.24                                  | 0.95             |
| 188.00 | 246941   | 907207    | 0.30           | Peaty Soil                 | 1                | 8.0       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.4   | 1.2      | 3                        | 0.18                                  | 0.72             |
| 189.00 | 247040   | 907186    | 0.30           | Peaty Soil                 | 1                | 11.9      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.6   | 1.4      | 5                        | 0.31                                  | 1.25             |
| 190.00 | 247145   | 907134    | 0.90           | V. Thin Peat               | 2                | 9.0       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 8.1   | 1.4      | 11                       | 0.71                                  | 5.65             |
| 191.00 | 247230   | 907085    | 0.90           | V. Thin Peat               | 2                | 8.4       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 7.6   | 1.2      | 9                        | 0.57                                  | 4.54             |
| 192.00 | 247327   | 906989    | 0.40           | Peaty Soil                 | 1                | 4.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.6   | 1.2      | 2                        | 0.12                                  | 0.36             |
| 193.00 | 247389   | 906940    | 0.10           | Peaty Soil                 | 1                | 6.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.6   | 1.2      | 1                        | 0.05                                  | 0.15             |
| 194.00 | 247462   | 906855    | 0.20           | Peaty Soil                 | 1                | 10.2      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.0   | 1.2      | 2                        | 0.15                                  | 0.61             |
| 195.00 | 247521   | 906769    | 2.10           | V. Thick Peat              | 5                | 6.6       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 13.8  | 1.2      | 17                       | 1.04                                  | 15.53            |
| 196.00 | 247587   | 906692    | 0.70           | V. Thin Peat               | 2                | 6.8       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.8   | 1.2      | 6                        | 0.36                                  | 2.16             |
| 197.00 | 247639   | 906630    | 0.40           | Peaty Soil                 | 1                | 4.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.6   | 1.2      | 2                        | 0.12                                  | 0.37             |
| 198.00 | 247715   | 906514    | 1.00           | V. Thin Peat               | 2                | 5.2       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.2   | 1.2      | 6                        | 0.39                                  | 2.35             |
| 199.00 | 247781   | 906414    | 1.80           | Thick Peat                 | 4                | 9.5       | 4                 | 1                             | 1                          | 16.00                   | 3.2                                  | 1     |          |                          |                                       |                  |

| ID     | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|--------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 227.00 | 247300   | 906672    | 0.00           | No Peat                    | 0                | 4.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 228.00 | 247210   | 906744    | 0.70           | V. Thin Peat               | 2                | 6.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.3   | 1.2      | 5                        | 0.32                                  | 1.93             |
| 229.00 | 247075   | 906840    | 2.50           | V. Thick Peat              | 5                | 3.9       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 9.7   | 0.5      | 5                        | 0.30                                  | 3.03             |
| 231.00 | 246776   | 907002    | 0.50           | Peaty Soil                 | 1                | 10.7      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 5.4   | 1.2      | 6                        | 0.40                                  | 1.61             |
| 232.00 | 246731   | 907053    | 0.80           | V. Thin Peat               | 2                | 4.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.4   | 0.5      | 2                        | 0.11                                  | 0.64             |
| 233.00 | 246593   | 907126    | 0.50           | Peaty Soil                 | 1                | 4.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.0   | 0.5      | 1                        | 0.06                                  | 0.19             |
| 234.00 | 246433   | 907185    | 0.20           | Peaty Soil                 | 1                | 0.3       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.1   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 235.00 | 246319   | 907245    | 0.20           | Peaty Soil                 | 1                | 8.7       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.22             |
| 236.00 | 246287   | 907286    | 0.00           | No Peat                    | 0                | 6.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 237.00 | 246234   | 907365    | 1.60           | Thick Peat                 | 4                | 5.2       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 8.2   | 0.5      | 4                        | 0.26                                  | 3.09             |
| 238.00 | 246201   | 907425    | 2.10           | V. Thick Peat              | 5                | 5.1       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 10.8  | 0.5      | 5                        | 0.34                                  | 5.04             |
| 239.00 | 246078   | 907520    | 1.50           | Thin Peat                  | 3                | 6.8       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 10.1  | 1.4      | 14                       | 0.89                                  | 7.99             |
| 240.00 | 246055   | 907524    | 0.60           | V. Thin Peat               | 2                | 6.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.7   | 1.4      | 5                        | 0.32                                  | 1.93             |
| 241.00 | 246019   | 907541    | 0.40           | Peaty Soil                 | 1                | 6.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.5   | 1.4      | 3                        | 0.21                                  | 0.64             |
| 242.00 | 246017   | 907564    | 0.00           | No Peat                    | 0                | 8.6       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 243.00 | 246017   | 907601    | 2.30           | V. Thick Peat              | 5                | 6.6       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 15.1  | 1.4      | 21                       | 1.32                                  | 19.80            |
| 244.00 | 246017   | 907624    | 0.10           | Peaty Soil                 | 1                | 8.3       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 0.8   | 1.4      | 1                        | 0.07                                  | 0.29             |
| 245.00 | 245984   | 907700    | 0.30           | Peaty Soil                 | 1                | 10.1      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.0   | 1.4      | 4                        | 0.27                                  | 1.07             |
| 246.00 | 245940   | 907761    | 0.20           | Peaty Soil                 | 1                | 7.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.4   | 1.4      | 2                        | 0.12                                  | 0.37             |
| 247.00 | 245889   | 907819    | 2.80           | V. Thick Peat              | 5                | 4.8       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 13.5  | 1.4      | 19                       | 1.19                                  | 17.78            |
| 248.00 | 246001   | 907803    | 2.50           | V. Thick Peat              | 5                | 7.3       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 18.1  | 1.4      | 25                       | 1.59                                  | 23.80            |
| 249.00 | 246063   | 907905    | 1.70           | Thick Peat                 | 4                | 8.1       | 4                 | 1                             | 1                          | 16.00                   | 3.2                                  | 13.8  | 0.5      | 7                        | 0.43                                  | 6.88             |
| 250.00 | 246066   | 907938    | 0.20           | Peaty Soil                 | 1                | 5.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 1.4      | 1                        | 0.09                                  | 0.27             |
| 251.00 | 246071   | 907970    | 0.80           | V. Thin Peat               | 2                | 6.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.5   | 1.4      | 8                        | 0.48                                  | 2.90             |
| 252.00 | 246111   | 908027    | 0.60           | V. Thin Peat               | 2                | 6.6       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.0   | 1.4      | 6                        | 0.35                                  | 2.07             |
| 253.00 | 246120   | 908045    | 0.00           | No Peat                    | 0                | 6.1       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 254.00 | 246138   | 908096    | 0.60           | V. Thin Peat               | 2                | 5.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.5   | 1.2      | 4                        | 0.27                                  | 1.59             |
| 255.00 | 246154   | 908129    | 0.00           | No Peat                    | 0                | 7.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 256.00 | 246171   | 908193    | 0.20           | Peaty Soil                 | 1                | 4.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.9   | 1.2      | 1                        | 0.07                                  | 0.20             |
| 257.00 | 246186   | 908223    | 0.00           | No Peat                    | 0                | 6.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 258.00 | 246197   | 908266    | 0.00           | No Peat                    | 0                | 7.8       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 259.00 | 246139   | 908277    | 0.90           | V. Thin Peat               | 2                | 2.6       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.4   | 1.2      | 3                        | 0.18                                  | 0.71             |
| 260.00 | 246109   | 908252    | 0.00           | No Peat                    | 0                | 7.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 261.00 | 246069   | 908221    | 0.00           | No Peat                    | 0                | 8.1       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 262.00 | 246043   | 908193    | 0.20           | Peaty Soil                 | 1                | 6.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 1.4      | 2                        | 0.11                                  | 0.33             |
| 263.00 | 245995   | 908124    | 0.20           | Peaty Soil                 | 1                | 6.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 1.4      | 2                        | 0.11                                  | 0.32             |
| 264.00 | 245972   | 908086    | 0.20           | Peaty Soil                 | 1                | 6.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 1.4      | 2                        | 0.11                                  | 0.32             |
| 265.00 | 245955   | 908076    | 0.90           | V. Thin Peat               | 2                | 6.0       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.4   | 1.4      | 8                        | 0.47                                  | 2.82             |
| 266.00 | 245940   | 908057    | 0.40           | Peaty Soil                 | 1                | 4.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.0   | 1.4      | 3                        | 0.17                                  | 0.52             |
| 267.00 | 245912   | 907976    | 0.10           | Peaty Soil                 | 1                | 5.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.6   | 1.4      | 1                        | 0.05                                  | 0.15             |
| 268.00 | 245903   | 907935    | 1.90           | Thick Peat                 | 4                | 6.9       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 13.1  | 1.4      | 18                       | 1.15                                  | 13.78            |
| 269.00 | 245860   | 907908    | 1.10           | Thin Peat                  | 3                | 1.8       | 1                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.0   | 1.4      | 3                        | 0.18                                  | 0.53             |
| 270.00 | 245864   | 907946    | 0.20           | Peaty Soil                 | 1                | 7.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.4   | 1.4      | 2                        | 0.13                                  | 0.38             |
| 271.00 | 245838   | 907975    | 0.10           | Peaty Soil                 | 1                | 9.2       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 0.9   | 1.4      | 1                        | 0.08                                  | 0.32             |
| 272.00 | 245833   | 908051    | 0.00           | No Peat                    | 0                | 2.9       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 273.00 | 245816   | 908105    | 0.00           | No Peat                    | 0                | 3.8       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 274.00 | 245845   | 908185    | 0.20           | Peaty Soil                 | 1                | 4.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.8   | 1.4      | 1                        | 0.07                                  | 0.22             |
| 275.00 | 245867   | 908223    | 0.20           | Peaty Soil                 | 1                | 8.2       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.6   | 1.2      | 2                        | 0.12                                  | 0.49             |
| 276.00 | 245874   | 908232    | 1.50           | Thin Peat                  | 3                | 12.3      | 5                 | 1                             | 1                          | 15.00                   | 3                                    | 18.5  | 1.2      | 22                       | 1.39                                  | 20.79            |
| 277.00 | 245880   | 908240    | 0.20           | Peaty Soil                 | 1                | 3.4       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 1.2      | 1                        | 0.05                                  | 0.10             |
| 278.00 | 245904   | 908272    | 0.00           | No Peat                    | 0                | 5.4       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 279.00 | 245951   | 908314    | 0.80           | V. Thin Peat               | 2                | 13.0      | 5                 | 1                             | 1                          | 10.00                   | 2                                    | 10.4  | 1.4      | 15                       | 0.91                                  | 9.13             |
| 280.00 | 245984   | 908336    | 0.10           | Peaty Soil                 | 1                | 4.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.4   | 1.4      | 1                        | 0.04                                  | 0.11             |
| 281.00 | 246017   | 908366    | 0.00           | No Peat                    | 0                | 7.8       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 282.00 | 246040   | 908374    | 1.20           | Thin Peat                  | 3                | 3.9       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.7   | 1.4      | 7                        | 0.41                                  | 2.48             |
| 283.00 | 246089   | 908383    | 2.50           | V. Thick Peat              | 5                | 8.0       | 4                 | 1                             | 1                          | 20.00                   | 4                                    | 20.0  | 1.4      | 28                       | 1.75                                  | 35.05            |
| 284.00 | 246122   | 908388    | 1.30           | Thin Peat                  | 3                | 4.6       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 5.9   | 1.4      | 8                        | 0.52                                  | 4.68             |
| 285.00 | 246160   | 908404    | 0.20           | Peaty Soil                 | 1                | 7.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.6   | 1.4      | 2                        | 0.14                                  | 0.42             |
| 286.00 | 246228   | 908400    | 0.30           | Peaty Soil                 | 1                | 5.8       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 1.2      | 2                        | 0.13                                  | 0.39             |
| 287.00 | 246270   | 908399    | 0.20           | Peaty Soil                 | 1                | 5.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 1.2      | 1                        | 0.08                                  | 0.23             |
| 288.00 | 246319   | 908408    | 0.00           | No Peat                    | 0                | 0.3       | 1                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 289.00 | 246353   | 908442    | 0.80           | V. Thin Peat               | 2                | 4.4       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.5   | 1.2      | 4                        | 0.27                                  | 1.59             |
| 290.00 | 246375   | 908466    | 0.10           | Peaty Soil                 | 1                | 4.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.4   | 1.2      | 0                        | 0.03                                  | 0.09             |
| 291.00 | 246430   | 908503    | 0.10           | Peaty Soil                 | 1                | 15.2      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 1.5   | 1.2      | 2                        | 0.11                                  | 0.57             |
| 292.00 | 246500   | 908512    | 1.10           | Thin Peat                  | 3                | 1.2       | 1                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 1.2      | 2                        | 0.10                                  | 0.29             |
| 293.00 | 246559   | 908547    | 0.20           | Peaty Soil                 | 1                | 11.1      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.2   | 1.2      | 3                        | 0.17                                  | 0.67             |
| 294.00 | 246588   | 908554    | 0.50           | Peaty Soil                 | 1                | 0.1       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.1   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 295.00 | 246648   | 908573    | 0.70           | V. Thin Peat               | 2                | 2.5       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.7   | 1.2      | 2                        | 0.13                                  | 0.52             |
| 296.00 | 246679   | 908617    | 0.30           | Peaty Soil                 | 1                | 0.3       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.1   | 1.2      | 0                        | 0.01                                  | 0.01             |
| 297.00 | 246701   | 908646    | 0.70           | V. Thin Peat               | 2                | 11.1      | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 7.8   | 0.5      | 4                        | 0.24                                  | 1.94             |
| 298.00 | 242029   | 914523    | 0.50           | Peaty Soil                 | 1                | 4.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.4   | 0.5      | 1                        | 0.07                                  | 0.22             |
| 299.00 | 242050   | 914578    | 0.00           | No Peat                    | 0                | 1.0       | 1                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 300.00 | 242079   | 914612    | 0.00           | No Peat                    | 0                | 3.5       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 302.00 | 242125   | 914703    | 0.00           | No Peat                    | 0                | 5.0       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 304.00 | 242179   | 914781    | 0.90           | V. Thin Peat               | 2                | 1.2       | 1                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.1   | 0.5      | 1                        | 0.03                                  | 0.07             |
| 305.00 | 242219   | 914802    | 0.00           | No Peat                    | 0                | 3.3       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 306.00 | 242259   | 914817    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 307.00 | 242305   | 915287    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 308.00 | 242259   | 914816    | 0.00           | No Peat                    | 0                | 7.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 310.00 | 242273   | 914816    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 311.00 | 242368   | 914761    | 0.00           | No Peat                    | 0                | 4.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 312.00 | 242457   | 914723    | 0.30           | Peaty Soil                 | 1                | 2.3       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 0.5      | 0                        | 0.02                                  | 0.04             |
| 313.00 | 242513   | 914705    | 0.00           | No Peat                    | 0                | 8.2       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 314.00 | 242600   | 914683    | 0.50           | Peaty Soil                 | 1                | 8.4       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 4.2   | 0.5      | 2                        | 0.13                                  | 0.52             |
| 315.00 | 242671   | 914647    | 0.50           | Peaty Soil                 | 1                | 5.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.7   | 0.5      | 1                        | 0.08                                  | 0.25             |
| 316.00 | 242731   | 914649    | 0.00           | No Peat                    | 0                | 8.7       | 4                 | 1                             |                            |                         |                                      |       |          |                          |                                       |                  |

| ID     | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |      |
|--------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|------|
| 345.00 | 246191   | 910430    | 1.20           | Thin Peat                  | 3                | 5.6       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.8   | 1.2      | 8                        | 0.51                                  | 4.58             |      |
| 347.00 | 246118   | 910473    | 0.40           | Peaty Soil                 | 1                | 4.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.6   | 1.2      | 2                        | 0.12                                  | 0.37             |      |
| 348.00 | 246124   | 910516    | 1.30           | Thin Peat                  | 3                | 1.0       | 1                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 1.2      | 2                        | 0.10                                  | 0.30             |      |
| 349.00 | 246106   | 910562    | 0.40           | Peaty Soil                 | 1                | 4.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 1.2      | 2                        | 0.12                                  | 0.37             |      |
| 350.00 | 246115   | 910604    | 1.10           | Thin Peat                  | 3                | 1.3       | 1                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.4   | 1.2      | 2                        | 0.11                                  | 0.33             |      |
| 351.00 | 246115   | 910646    | 0.00           | No Peat                    | 0                | 4.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |      |
| 352.00 | 246055   | 910670    | 2.50           | V. Thick Peat              | 5                | 3.5       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 8.7   | 1.4      | 12                       | 0.76                                  | 7.64             |      |
| 354.00 | 245979   | 910716    | 0.20           | Peaty Soil                 | 1                | 4.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.9   | 1.2      | 1                        | 0.06                                  | 0.19             |      |
| 355.00 | 245950   | 910756    | 0.20           | Peaty Soil                 | 1                | 8.6       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.7   | 1.2      | 2                        | 0.13                                  | 0.51             |      |
| 356.00 | 245929   | 910791    | 1.90           | Thick Peat                 | 4                | 9.2       | 4                 | 1                             | 1                          | 16.00                   | 3.2                                  | 17.4  | 1.2      | 21                       | 1.31                                  | 20.93            |      |
| 357.00 | 245880   | 910810    | 0.80           | V. Thin Peat               | 2                | 3.8       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.1   | 1.4      | 4                        | 0.27                                  | 1.07             |      |
| 358.00 | 245830   | 910822    | 0.80           | V. Thin Peat               | 2                | 4.6       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.7   | 1.4      | 5                        | 0.32                                  | 1.92             |      |
| 359.00 | 245782   | 910834    | 0.30           | Peaty Soil                 | 1                | 2.7       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.8   | 1.4      | 1                        | 0.07                                  | 0.14             |      |
| 360.00 | 245724   | 910853    | 0.20           | Peaty Soil                 | 1                | 6.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 1.4      | 2                        | 0.11                                  | 0.33             |      |
| 361.00 | 245682   | 910869    | 0.20           | Peaty Soil                 | 1                | 5.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.1   | 1.4      | 2                        | 0.09                                  | 0.28             |      |
| 362.00 | 245641   | 910890    | 0.20           | Peaty Soil                 | 1                | 4.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.8   | 1.2      | 1                        | 0.06                                  | 0.18             |      |
| 363.00 | 245597   | 910899    | 0.20           | Peaty Soil                 | 1                | 3.4       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 1.2      | 1                        | 0.05                                  | 0.10             |      |
| 364.00 | 245553   | 910918    | 0.20           | Peaty Soil                 | 1                | 4.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.8   | 1.2      | 1                        | 0.06                                  | 0.18             |      |
| 365.00 | 245510   | 910946    | 0.50           | Peaty Soil                 | 1                | 3.9       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 2.0   | 1.4      | 3                        | 0.17                                  | 0.34             |      |
| 366.00 | 245463   | 910964    | 0.00           | No Peat                    | 0                | 7.4       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |      |
| 367.00 | 245419   | 910973    | 0.20           | Peaty Soil                 | 1                | 5.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.1   | 1.4      | 2                        | 0.10                                  | 0.29             |      |
| 368.00 | 245358   | 910964    | 0.40           | Peaty Soil                 | 1                | 1.0       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.4   | 1.4      | 1                        | 0.04                                  | 0.04             |      |
| 369.00 | 245312   | 910970    | 0.00           | No Peat                    | 0                | 2.8       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |      |
| 370.00 | 245273   | 910990    | 0.00           | No Peat                    | 0                | 7.0       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 372.00 | 245236   | 911047    | 0.40           | Peaty Soil                 | 1                | 6.6       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 2.6      | 1.2                      | 3                                     | 0.20             | 0.83 |
| 373.00 | 245216   | 911078    | 0.40           | Peaty Soil                 | 1                | 7.4       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 3.0      | 1.2                      | 4                                     | 0.22             | 0.94 |
| 374.00 | 245147   | 911139    | 0.00           | No Peat                    | 0                | 6.1       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 376.00 | 245072   | 911142    | 0.00           | No Peat                    | 0                | 3.4       | 2                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 377.00 | 245025   | 911135    | 0.00           | No Peat                    | 0                | 6.0       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 378.00 | 244973   | 911141    | 0.00           | No Peat                    | 0                | 2.0       | 2                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 379.00 | 244920   | 911151    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 380.00 | 244871   | 911154    | 0.00           | No Peat                    | 0                | 1.0       | 1                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 0.5                      | 0                                     | 0.00             | 0.00 |
| 381.00 | 244787   | 911139    | 0.00           | No Peat                    | 0                | 1.3       | 1                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 0.5                      | 0                                     | 0.00             | 0.00 |
| 382.00 | 244758   | 911053    | 0.00           | No Peat                    | 0                | 3.3       | 2                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 383.00 | 244767   | 910946    | 0.00           | No Peat                    | 0                | 6.0       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 384.00 | 244760   | 910913    | 0.30           | Peaty Soil                 | 1                | 8.2       | 4                 | 1                             | 1                          | 1.4                     | 5.60                                 | 1.12  | 2.5      | 1.2                      | 3                                     | 0.18             | 1.03 |
| 385.00 | 244772   | 910872    | 0.30           | Peaty Soil                 | 1                | 2.7       | 2                 | 1                             | 1                          | 1.4                     | 2.80                                 | 0.56  | 0.8      | 1.2                      | 1                                     | 0.06             | 0.17 |
| 386.00 | 244788   | 910833    | 0.00           | No Peat                    | 0                | 8.5       | 4                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 387.00 | 244761   | 910782    | 0.00           | No Peat                    | 0                | 7.2       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 388.00 | 244730   | 910749    | 0.00           | No Peat                    | 0                | 4.6       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 389.00 | 244695   | 910718    | 0.30           | Peaty Soil                 | 1                | 4.0       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 1.2      | 1.2                      | 1                                     | 0.09             | 0.38 |
| 390.00 | 244691   | 910680    | 0.00           | No Peat                    | 0                | 4.0       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 391.00 | 244661   | 910624    | 0.30           | Peaty Soil                 | 1                | 4.2       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 1.3      | 1.2                      | 2                                     | 0.09             | 0.39 |
| 392.00 | 244700   | 910617    | 0.30           | Peaty Soil                 | 1                | 6.3       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 1.9      | 1.2                      | 2                                     | 0.14             | 0.59 |
| 393.00 | 244742   | 910646    | 0.20           | Peaty Soil                 | 1                | 4.9       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 1.0      | 1.2                      | 1                                     | 0.07             | 0.31 |
| 394.00 | 244789   | 910663    | 0.20           | Peaty Soil                 | 1                | 5.2       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 1.0      | 1.2                      | 1                                     | 0.08             | 0.32 |
| 395.00 | 244834   | 910687    | 0.00           | No Peat                    | 0                | 5.2       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 396.00 | 244871   | 910718    | 0.00           | No Peat                    | 0                | 8.3       | 4                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 397.00 | 244908   | 910733    | 0.20           | Peaty Soil                 | 1                | 6.9       | 3                 | 1                             | 1                          | 1.4                     | 4.20                                 | 0.84  | 1.4      | 1.2                      | 2                                     | 0.10             | 0.44 |
| 398.00 | 244958   | 910733    | 0.00           | No Peat                    | 0                | 4.9       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 399.00 | 245013   | 910726    | 0.00           | No Peat                    | 0                | 7.9       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 400.00 | 245061   | 910724    | 0.00           | No Peat                    | 0                | 4.3       | 3                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 401.00 | 245101   | 910711    | 0.00           | No Peat                    | 0                | 4.4       | 3                 | 1                             | 1                          | 1                       | 0.00                                 | 0     | 0.0      | 1.2                      | 0                                     | 0.00             | 0.00 |
| 402.00 | 245133   | 910671    | 0.00           | No Peat                    | 0                | 6.5       | 3                 | 1                             | 1                          | 1                       | 0.00                                 | 0     | 0.0      | 1.4                      | 0                                     | 0.00             | 0.00 |
| 403.00 | 245133   | 910670    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 1                       | 0.00                                 | 0     | 0.0      | 1.4                      | 0                                     | 0.00             | 0.00 |
| 404.00 | 245174   | 910641    | 0.00           | No Peat                    | 0                | 5.5       | 3                 | 1                             | 1                          | 1                       | 0.00                                 | 0     | 0.0      | 1.4                      | 0                                     | 0.00             | 0.00 |
| 405.00 | 245202   | 910587    | 0.80           | V. Thin Peat               | 2                | 3.8       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 3.0   | 1.4      | 4                        | 0.27                                  | 1.07             |      |
| 406.00 | 245205   | 910553    | 0.00           | No Peat                    | 0                | 3.7       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |      |
| 407.00 | 244725   | 911001    | 1.10           | Thin Peat                  | 3                | 6.9       | 3                 | 1                             | 1                          | 1.4                     | 12.60                                | 2.52  | 7.6      | 1.2                      | 9                                     | 0.57             | 7.14 |
| 408.00 | 245204   | 910506    | 2.30           | V. Thick Peat              | 5                | 4.9       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 11.2  | 1.4      | 16                       | 0.98                                  | 14.67            |      |
| 409.00 | 245224   | 910472    | 2.60           | V. Thick Peat              | 5                | 3.2       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 8.2   | 1.4      | 11                       | 0.72                                  | 7.17             |      |
| 410.00 | 245256   | 910422    | 1.20           | Thin Peat                  | 3                | 7.7       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 9.2   | 1.2      | 11                       | 0.69                                  | 6.24             |      |
| 411.00 | 245290   | 910413    | 0.00           | No Peat                    | 0                | 3.2       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |      |
| 412.00 | 245315   | 910389    | 1.10           | Thin Peat                  | 3                | 3.7       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.1   | 1.2      | 5                        | 0.31                                  | 1.84             |      |
| 413.00 | 245347   | 910353    | 0.80           | V. Thin Peat               | 2                | 2.3       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.8   | 1.2      | 2                        | 0.14                                  | 0.54             |      |
| 414.00 | 245218   | 910259    | 0.30           | Peaty Soil                 | 1                | 7.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.2   | 1.2      | 3                        | 0.16                                  | 0.49             |      |
| 415.00 | 245104   | 910243    | 0.30           | Peaty Soil                 | 1                | 3.8       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.1   | 1.2      | 1                        | 0.08                                  | 0.17             |      |
| 416.00 | 245161   | 910161    | 0.40           | Peaty Soil                 | 1                | 2.1       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.9   | 1.2      | 1                        | 0.06                                  | 0.13             |      |
| 417.00 | 245480   | 910193    | 0.40           | Peaty Soil                 | 1                | 2.1       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.8   | 1.2      | 1                        | 0.06                                  | 0.12             |      |
| 418.00 | 245430   | 910287    | 0.00           | No Peat                    | 0                | 0.4       | 1                 | 1                             | 0                          | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |      |
| 419.00 | 245472   | 910266    | 0.20           | Peaty Soil                 | 1                | 1.7       | 1                 | 1                             | 1                          | 1.00                    | 0.2                                  | 0.3   | 1.2      | 0                        | 0.03                                  | 0.03             |      |
| 420.00 | 245502   | 910242    | 0.40           | Peaty Soil                 | 1                | 7.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.9   | 1.2      | 3                        | 0.22                                  | 0.65             |      |
| 421.00 | 245557   | 910219    | 0.30           | Peaty Soil                 | 1                | 3.1       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.9   | 1.2      | 1                        | 0.07                                  | 0.14             |      |
| 422.00 | 245592   | 910202    | 0.20           | Peaty Soil                 | 1                | 2.3       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.5   | 1.2      | 1                        | 0.03                                  | 0.07             |      |
| 425.00 | 245687   | 910141    | 0.30           | Peaty Soil                 | 1                | 6.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.8   | 1.2      | 2                        | 0.13                                  | 0.40             |      |
| 426.00 | 245713   | 910115    | 0.80           | V. Thin Peat               | 2                | 4.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.3   | 1.2      | 4                        | 0.25                                  | 1.48             |      |
| 427.00 | 245738   | 910076    | 1.10           | Thin Peat                  | 3                | 9.4       | 4                 | 1                             | 1                          | 12.00                   | 2.4                                  | 10.3  | 0.5      | 5                        | 0.32                                  | 3.87             |      |
| 428.00 | 245765   | 910043    | 0.80           | V. Thin Peat               | 2                | 5.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.2   | 1.2      | 5                        | 0.32                                  | 1.91             |      |
| 429.00 | 245785   | 910008    | 0.40           | Peaty Soil                 | 1                | 4.6       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.9   | 1.2      | 2                        | 0.14                                  | 0.42             |      |
| 431.00 | 244902   | 911405    | 4.00           | V. Thick Peat              | 5                | 3.1       | 2                 | 1                             | 1                          | 1.4                     | 14.00                                | 2.8   | 12.3     | 0.5                      | 6                                     | 0.38             | 5.36 |
| 432.00 | 245852   | 909893    | 0.20           | Peaty Soil                 | 1                | 5.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.1   | 1.2      | 1                        | 0.08                                  | 0.24             |      |
| 433.00 | 245867   | 909857    | 0.00           | No Peat                    | 0                | 3.2       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |      |
| 434.00 | 245896   | 909821    | 1.20           | Thin Peat                  | 3                | 3.2       | 2                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.8   | 0.5      | 2                        | 0.12                                  | 0.72             |      |
| 435.00 | 245926   | 909760    | 0.00           | No Peat                    | 0                | 3.1       | 2                 | 1                             | 1                          | 1.4                     | 0.00                                 | 0     | 0.0      | 0.5                      |                                       |                  |      |

| ID     | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|--------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 468.00 | 244197   | 909501    | 0.00           | No Peat                    | 0                | 10.9      | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 469.00 | 244204   | 909580    | 0.00           | No Peat                    | 0                | 6.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 470.00 | 244212   | 909659    | 0.00           | No Peat                    | 0                | 2.2       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 471.00 | 244213   | 909827    | 0.20           | Peaty Soil                 | 1                | 9.5       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.9   | 0.5      | 1                        | 0.06                                  | 0.24             |
| 472.00 | 244208   | 909894    | 0.20           | Peaty Soil                 | 1                | 6.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 0.5      | 1                        | 0.04                                  | 0.12             |
| 477.00 | 244149   | 910147    | 0.00           | No Peat                    | 0                | 3.8       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 478.00 | 244168   | 910212    | 0.00           | No Peat                    | 0                | 5.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 479.00 | 244185   | 910276    | 0.00           | No Peat                    | 0                | 3.8       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 480.00 | 244190   | 910312    | 0.00           | No Peat                    | 0                | 3.4       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 481.00 | 244195   | 910371    | 0.00           | No Peat                    | 0                | 4.9       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 482.00 | 244201   | 910446    | 0.20           | Peaty Soil                 | 1                | 6.9       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 1.4   | 0.5      | 1                        | 0.04                                  | 0.18             |
| 483.00 | 244198   | 910511    | 0.50           | Peaty Soil                 | 1                | 9.4       | 4                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 4.7   | 0.5      | 2                        | 0.15                                  | 0.82             |
| 484.00 | 244191   | 910577    | 0.20           | Peaty Soil                 | 1                | 5.5       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 1.1   | 1.2      | 1                        | 0.08                                  | 0.35             |
| 485.00 | 244181   | 910613    | 0.50           | Peaty Soil                 | 1                | 1.4       | 1                 | 1                             | 1.4                        | 1.40                    | 0.28                                 | 0.7   | 1.2      | 1                        | 0.05                                  | 0.07             |
| 486.00 | 244157   | 910672    | 0.70           | V. Thin Peat               | 2                | 1.4       | 1                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 0.9   | 0.5      | 0                        | 0.03                                  | 0.08             |
| 487.00 | 244126   | 910725    | 1.10           | Thin Peat                  | 3                | 4.4       | 3                 | 1                             | 1.4                        | 12.60                   | 2.52                                 | 4.8   | 0.5      | 2                        | 0.15                                  | 1.91             |
| 488.00 | 244107   | 910780    | 0.40           | Peaty Soil                 | 1                | 8.5       | 4                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 3.4   | 0.5      | 2                        | 0.11                                  | 0.60             |
| 489.00 | 244099   | 910851    | 0.40           | Peaty Soil                 | 1                | 4.0       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 1.6   | 0.5      | 1                        | 0.05                                  | 0.21             |
| 495.00 | 244092   | 911177    | 0.70           | V. Thin Peat               | 2                | 5.2       | 3                 | 1                             | 1.4                        | 8.40                    | 1.68                                 | 3.6   | 0.5      | 2                        | 0.11                                  | 0.95             |
| 496.00 | 244041   | 911300    | 0.60           | V. Thin Peat               | 2                | 5.4       | 3                 | 1                             | 1.4                        | 8.40                    | 1.68                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.85             |
| 497.00 | 244028   | 911371    | 0.40           | Peaty Soil                 | 1                | 3.1       | 2                 | 1                             | 1.4                        | 2.80                    | 0.56                                 | 1.2   | 0.5      | 1                        | 0.04                                  | 0.11             |
| 498.00 | 244017   | 911432    | 0.30           | Peaty Soil                 | 1                | 7.6       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 2.3   | 0.5      | 1                        | 0.07                                  | 0.30             |
| 499.00 | 243999   | 911504    | 0.30           | Peaty Soil                 | 1                | 6.4       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 1.9   | 0.5      | 1                        | 0.06                                  | 0.25             |
| 500.00 | 243893   | 911557    | 0.20           | Peaty Soil                 | 1                | 8.2       | 4                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 1.6   | 0.5      | 1                        | 0.05                                  | 0.29             |
| 501.00 | 243769   | 911569    | 0.20           | Peaty Soil                 | 1                | 3.6       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 0.5      | 0                        | 0.02                                  | 0.04             |
| 502.00 | 243709   | 911587    | 1.20           | Thin Peat                  | 3                | 4.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 5.1   | 0.5      | 3                        | 0.16                                  | 1.43             |
| 503.00 | 243781   | 911650    | 0.20           | Peaty Soil                 | 1                | 6.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 0.5      | 1                        | 0.04                                  | 0.12             |
| 504.00 | 243697   | 911628    | 0.70           | V. Thin Peat               | 2                | 4.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.3   | 0.5      | 2                        | 0.10                                  | 0.61             |
| 505.00 | 243684   | 911689    | 0.60           | V. Thin Peat               | 2                | 6.8       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.1   | 0.5      | 2                        | 0.13                                  | 0.77             |
| 506.00 | 243757   | 911749    | 0.20           | Peaty Soil                 | 1                | 5.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.11             |
| 507.00 | 243639   | 911755    | 0.20           | Peaty Soil                 | 1                | 5.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 0.5      | 1                        | 0.03                                  | 0.10             |
| 508.00 | 243734   | 911845    | 0.20           | Peaty Soil                 | 1                | 6.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.12             |
| 509.00 | 243629   | 911772    | 0.90           | V. Thin Peat               | 2                | 6.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 5.7   | 0.5      | 3                        | 0.18                                  | 1.07             |
| 510.00 | 243576   | 911807    | 0.20           | Peaty Soil                 | 1                | 3.6       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 0.5      | 0                        | 0.02                                  | 0.04             |
| 511.00 | 243638   | 911873    | 0.30           | Peaty Soil                 | 1                | 4.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.3   | 0.5      | 1                        | 0.04                                  | 0.13             |
| 512.00 | 243559   | 911871    | 0.20           | Peaty Soil                 | 1                | 6.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.11             |
| 518.00 | 243477   | 912104    | 0.00           | No Peat                    | 0                | 5.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 519.00 | 243487   | 912143    | 0.60           | V. Thin Peat               | 2                | 4.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 2.8   | 0.5      | 1                        | 0.09                                  | 0.53             |
| 520.00 | 243503   | 912160    | 0.60           | V. Thin Peat               | 2                | 6.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.8   | 0.5      | 2                        | 0.12                                  | 0.71             |
| 521.00 | 243409   | 912133    | 0.60           | V. Thin Peat               | 2                | 4.5       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 2.7   | 0.5      | 1                        | 0.09                                  | 0.51             |
| 522.00 | 243500   | 912212    | 1.30           | Thin Peat                  | 3                | 5.4       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 7.0   | 0.5      | 4                        | 0.22                                  | 1.97             |
| 523.00 | 243453   | 912261    | 1.10           | Thin Peat                  | 3                | 5.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 5.7   | 0.5      | 3                        | 0.18                                  | 1.60             |
| 524.00 | 243378   | 912329    | 0.60           | V. Thin Peat               | 2                | 6.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.8   | 0.5      | 2                        | 0.12                                  | 0.71             |
| 525.00 | 243388   | 912228    | 0.00           | No Peat                    | 0                | 6.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 526.00 | 243292   | 912258    | 0.20           | Peaty Soil                 | 1                | 3.5       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 0.7   | 0.5      | 0                        | 0.02                                  | 0.04             |
| 527.00 | 243273   | 912371    | 0.30           | Peaty Soil                 | 1                | 6.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.8   | 0.5      | 1                        | 0.06                                  | 0.17             |
| 528.00 | 243262   | 912443    | 0.30           | Peaty Soil                 | 1                | 8.7       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.6   | 0.5      | 1                        | 0.08                                  | 0.33             |
| 529.00 | 243347   | 912432    | 0.30           | Peaty Soil                 | 1                | 8.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.4   | 0.5      | 1                        | 0.07                                  | 0.22             |
| 530.00 | 243234   | 912535    | 0.50           | Peaty Soil                 | 1                | 3.1       | 2                 | 1                             | 1                          | 2.00                    | 0.4                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.10             |
| 531.00 | 243150   | 912485    | 0.70           | V. Thin Peat               | 2                | 6.2       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.3   | 0.5      | 2                        | 0.13                                  | 0.81             |
| 532.00 | 243319   | 912523    | 0.40           | Peaty Soil                 | 1                | 6.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.7   | 0.5      | 1                        | 0.08                                  | 0.25             |
| 533.00 | 243206   | 912648    | 0.20           | Peaty Soil                 | 1                | 4.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.9   | 0.5      | 0                        | 0.03                                  | 0.08             |
| 540.00 | 243352   | 912782    | 0.00           | No Peat                    | 0                | 5.4       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 541.00 | 243182   | 912839    | 1.50           | Thin Peat                  | 3                | 4.3       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.4   | 0.5      | 3                        | 0.20                                  | 1.80             |
| 542.00 | 243087   | 912782    | 0.60           | V. Thin Peat               | 2                | 7.8       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.7   | 0.5      | 2                        | 0.15                                  | 0.88             |
| 543.00 | 243159   | 912975    | 0.20           | Peaty Soil                 | 1                | 9.4       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.9   | 0.5      | 1                        | 0.06                                  | 0.24             |
| 544.00 | 243233   | 912915    | 0.00           | No Peat                    | 0                | 6.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 545.00 | 243063   | 912877    | 0.40           | Peaty Soil                 | 1                | 5.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.3   | 0.5      | 1                        | 0.07                                  | 0.21             |
| 546.00 | 243210   | 913013    | 0.00           | No Peat                    | 0                | 6.9       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 547.00 | 243307   | 912978    | 0.00           | No Peat                    | 0                | 6.1       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 548.00 | 243396   | 912951    | 0.00           | No Peat                    | 0                | 4.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 549.00 | 243378   | 913044    | 0.00           | No Peat                    | 0                | 10.6      | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 550.00 | 243285   | 913079    | 0.00           | No Peat                    | 0                | 8.5       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 551.00 | 243103   | 913034    | 0.50           | Peaty Soil                 | 1                | 6.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.4   | 0.5      | 2                        | 0.11                                  | 0.32             |
| 552.00 | 243045   | 912975    | 0.40           | Peaty Soil                 | 1                | 10.0      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 4.0   | 0.5      | 2                        | 0.13                                  | 0.50             |
| 553.00 | 243038   | 913068    | 0.50           | Peaty Soil                 | 1                | 6.8       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.4   | 0.5      | 2                        | 0.11                                  | 0.32             |
| 554.00 | 242981   | 913167    | 1.10           | Thin Peat                  | 3                | 7.1       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 7.9   | 0.5      | 4                        | 0.25                                  | 2.21             |
| 555.00 | 242924   | 913103    | 0.80           | V. Thin Peat               | 2                | 8.2       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 6.6   | 0.5      | 3                        | 0.21                                  | 1.65             |
| 556.00 | 243093   | 913139    | 0.20           | Peaty Soil                 | 1                | 10.5      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.1   | 0.5      | 1                        | 0.07                                  | 0.26             |
| 564.00 | 242873   | 913292    | 0.20           | Peaty Soil                 | 1                | 9.8       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.0   | 0.5      | 1                        | 0.06                                  | 0.24             |
| 565.00 | 242796   | 913320    | 0.10           | Peaty Soil                 | 1                | 8.3       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 0.8   | 0.5      | 0                        | 0.03                                  | 0.10             |
| 566.00 | 242954   | 913369    | 0.00           | No Peat                    | 0                | 7.9       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 567.00 | 242864   | 913397    | 0.10           | Peaty Soil                 | 1                | 7.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.8   | 0.5      | 0                        | 0.02                                  | 0.07             |
| 568.00 | 242747   | 913347    | 0.30           | Peaty Soil                 | 1                | 8.1       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.4   | 0.5      | 1                        | 0.08                                  | 0.30             |
| 569.00 | 242700   | 913356    | 0.00           | No Peat                    | 0                | 7.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 570.00 | 242686   | 913438    | 0.00           | No Peat                    | 0                | 8.5       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 579.00 | 242787   | 913556    | 0.30           | Peaty Soil                 | 1                | 6.9       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.1   | 0.5      | 1                        | 0.07                                  | 0.20             |
| 580.00 | 242831   | 913593    | 1.50           | Thin Peat                  | 3                | 8.5       | 4                 | 1                             | 1                          | 12.00                   | 2.4                                  | 12.7  | 0.5      | 6                        | 0.40                                  | 4.77             |
| 581.00 | 242842   | 913623    | 0.00           | No Peat                    | 0                | 7.3       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 582.00 | 242869   | 913639    | 0.00           | No Peat                    | 0                | 7.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 583.00 | 242906   | 913679    | 0.00           | No Peat                    | 0                | 7.0       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 584.00 | 242801   | 913686    | 0.00           | No Peat                    | 0                | 7.6       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 585.00 | 242704   | 913727    | 0.00           | No Peat                    | 0                | 8.1       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 594.00 | 243136   | 913762    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 595.00 | 243118   | 913856    | 0.00           | No Peat                    | 0                | 5.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 596.00 | 243206   | 91382     |                |                            |                  |           |                   |                               |                            |                         |                                      |       |          |                          |                                       |                  |



| ID     | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|--------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 633.00 | 243611   | 912599    | 0.60           | V. Thin Peat               | 2                | 5.0       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.0   | 0.5      | 2                        | 0.09                                  | 0.57             |
| 634.00 | 243376   | 912691    | 0.00           | No Peat                    | 0                | 5.9       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 635.00 | 243410   | 912622    | 0.50           | Peaty Soil                 | 1                | 5.1       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.6   | 0.5      | 1                        | 0.08                                  | 0.24             |
| 636.00 | 243469   | 912656    | 0.40           | Peaty Soil                 | 1                | 4.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.8   | 0.5      | 1                        | 0.06                                  | 0.17             |
| 637.00 | 243707   | 912602    | 1.20           | Thin Peat                  | 3                | 6.1       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 7.3   | 0.5      | 4                        | 0.23                                  | 2.06             |
| 638.00 | 243734   | 912660    | 0.20           | Peaty Soil                 | 1                | 5.8       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.11             |
| 639.00 | 243643   | 912695    | 0.30           | Peaty Soil                 | 1                | 5.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 640.00 | 243712   | 912766    | 1.10           | Thin Peat                  | 3                | 6.2       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.8   | 0.5      | 3                        | 0.21                                  | 1.92             |
| 641.00 | 243618   | 912835    | 0.90           | V. Thin Peat               | 2                | 8.3       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 7.5   | 0.5      | 4                        | 0.23                                  | 1.88             |
| 650.00 | 243657   | 912330    | 1.20           | Thin Peat                  | 3                | 4.9       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 5.8   | 0.5      | 3                        | 0.18                                  | 1.64             |
| 651.00 | 243657   | 912330    | 2.40           | V. Thick Peat              | 5                | 6.8       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 16.2  | 0.5      | 8                        | 0.51                                  | 7.61             |
| 652.00 | 243666   | 912288    | 1.00           | V. Thin Peat               | 2                | 8.7       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 8.7   | 0.5      | 4                        | 0.27                                  | 2.17             |
| 653.00 | 243665   | 912284    | 1.00           | V. Thin Peat               | 2                | 8.0       | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 8.0   | 0.5      | 4                        | 0.25                                  | 2.01             |
| 654.00 | 243689   | 912283    | 0.90           | V. Thin Peat               | 2                | 5.4       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.8   | 0.5      | 2                        | 0.15                                  | 0.90             |
| 655.00 | 243710   | 912216    | 1.40           | Thin Peat                  | 3                | 7.5       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 10.5  | 0.5      | 5                        | 0.33                                  | 2.96             |
| 656.00 | 243710   | 912217    | 1.40           | Thin Peat                  | 3                | 14.5      | 5                 | 1                             | 1                          | 15.00                   | 3                                    | 20.3  | 0.5      | 10                       | 0.63                                  | 9.52             |
| 657.00 | 243711   | 912216    | 0.20           | Peaty Soil                 | 1                | 10.7      | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.1   | 0.5      | 1                        | 0.07                                  | 0.27             |
| 658.00 | 243662   | 912223    | 1.10           | Thin Peat                  | 3                | 5.7       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.3   | 0.5      | 3                        | 0.20                                  | 1.77             |
| 659.00 | 243582   | 912076    | 0.00           | No Peat                    | 0                | 8.0       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 660.00 | 243822   | 912271    | 0.30           | Peaty Soil                 | 1                | 6.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.0   | 0.5      | 1                        | 0.06                                  | 0.18             |
| 661.00 | 243735   | 912120    | 0.20           | Peaty Soil                 | 1                | 14.0      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 2.8   | 0.5      | 1                        | 0.09                                  | 0.44             |
| 662.00 | 243782   | 912124    | 0.20           | Peaty Soil                 | 1                | 5.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 0.5      | 1                        | 0.03                                  | 0.10             |
| 663.00 | 243833   | 912121    | 0.20           | Peaty Soil                 | 1                | 17.5      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 3.5   | 0.5      | 2                        | 0.11                                  | 0.55             |
| 664.00 | 243794   | 912182    | 0.20           | Peaty Soil                 | 1                | 15.4      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 3.1   | 0.5      | 2                        | 0.10                                  | 0.48             |
| 665.00 | 243838   | 912175    | 0.10           | Peaty Soil                 | 1                | 6.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.6   | 0.5      | 0                        | 0.02                                  | 0.06             |
| 666.00 | 243938   | 912146    | 0.30           | Peaty Soil                 | 1                | 8.3       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.5   | 0.5      | 1                        | 0.08                                  | 0.31             |
| 667.00 | 243849   | 912070    | 0.10           | Peaty Soil                 | 1                | 14.0      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 1.4   | 0.5      | 1                        | 0.04                                  | 0.22             |
| 668.00 | 243866   | 912021    | 0.00           | No Peat                    | 0                | 7.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 669.00 | 243862   | 912008    | 1.40           | Thin Peat                  | 3                | 7.3       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 10.3  | 0.5      | 5                        | 0.32                                  | 2.89             |
| 679.00 | 243963   | 911623    | 0.00           | No Peat                    | 0                | 9.1       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 680.00 | 243952   | 911688    | 0.00           | No Peat                    | 0                | 5.0       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 681.00 | 243980   | 911560    | 0.40           | Peaty Soil                 | 1                | 6.8       | 3                 | 1                             | 1                          | 4.20                    | 0.84                                 | 2.7   | 0.5      | 1                        | 0.08                                  | 0.36             |
| 689.00 | 243827   | 911268    | 0.30           | Peaty Soil                 | 1                | 10.5      | 4                 | 1                             | 1                          | 5.60                    | 1.12                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.55             |
| 690.00 | 243860   | 911356    | 0.30           | Peaty Soil                 | 1                | 10.7      | 4                 | 1                             | 1                          | 5.60                    | 1.12                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.56             |
| 691.00 | 243941   | 911328    | 0.40           | Peaty Soil                 | 1                | 5.4       | 3                 | 1                             | 1                          | 4.20                    | 0.84                                 | 2.1   | 0.5      | 1                        | 0.07                                  | 0.28             |
| 702.00 | 244172   | 911157    | 0.60           | V. Thin Peat               | 2                | 5.2       | 3                 | 1                             | 1                          | 8.40                    | 1.68                                 | 3.1   | 0.5      | 2                        | 0.10                                  | 0.82             |
| 703.00 | 244119   | 911260    | 0.70           | V. Thin Peat               | 2                | 7.0       | 3                 | 1                             | 1                          | 8.40                    | 1.68                                 | 4.9   | 0.5      | 2                        | 0.15                                  | 1.29             |
| 704.00 | 244083   | 911331    | 0.40           | Peaty Soil                 | 1                | 6.5       | 3                 | 1                             | 1                          | 4.20                    | 0.84                                 | 2.6   | 0.5      | 1                        | 0.08                                  | 0.34             |
| 705.00 | 244100   | 911320    | 0.70           | V. Thin Peat               | 2                | 12.7      | 5                 | 1                             | 1                          | 14.00                   | 2.8                                  | 8.9   | 0.5      | 4                        | 0.28                                  | 3.89             |
| 706.00 | 244165   | 911305    | 0.00           | No Peat                    | 0                | 8.8       | 4                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 707.00 | 244229   | 911350    | 0.40           | Peaty Soil                 | 1                | 6.5       | 3                 | 1                             | 1                          | 4.20                    | 0.84                                 | 2.6   | 0.5      | 1                        | 0.08                                  | 0.34             |
| 708.00 | 244261   | 911392    | 0.40           | Peaty Soil                 | 1                | 8.2       | 4                 | 1                             | 1                          | 5.60                    | 1.12                                 | 3.3   | 0.5      | 2                        | 0.10                                  | 0.57             |
| 709.00 | 244327   | 911469    | 0.00           | No Peat                    | 0                | 7.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 710.00 | 244460   | 911624    | 0.00           | No Peat                    | 0                | 7.2       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 711.00 | 244322   | 911773    | 0.20           | Peaty Soil                 | 1                | 5.9       | 3                 | 1                             | 1                          | 4.20                    | 0.84                                 | 1.2   | 0.5      | 1                        | 0.04                                  | 0.16             |
| 712.00 | 244315   | 911848    | 0.30           | Peaty Soil                 | 1                | 11.9      | 4                 | 1                             | 1                          | 5.60                    | 1.12                                 | 3.6   | 0.5      | 2                        | 0.11                                  | 0.63             |
| 713.00 | 244252   | 912079    | 0.00           | No Peat                    | 0                | 7.7       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 721.00 | 243961   | 912731    | 1.60           | Thick Peat                 | 4                | 7.4       | 3                 | 1                             | 1                          | 12.00                   | 2.4                                  | 11.8  | 0.5      | 6                        | 0.37                                  | 4.41             |
| 722.00 | 243932   | 912781    | 1.10           | Thin Peat                  | 3                | 8.3       | 4                 | 1                             | 1                          | 12.00                   | 2.4                                  | 9.2   | 0.5      | 5                        | 0.29                                  | 3.44             |
| 723.00 | 243912   | 912832    | 0.60           | V. Thin Peat               | 2                | 5.3       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.60             |
| 724.00 | 243821   | 913044    | 2.20           | V. Thick Peat              | 5                | 4.0       | 2                 | 1                             | 1                          | 10.00                   | 2                                    | 8.7   | 0.5      | 4                        | 0.27                                  | 2.73             |
| 725.00 | 243861   | 913048    | 2.40           | V. Thick Peat              | 5                | 10.1      | 4                 | 1                             | 1                          | 20.00                   | 4                                    | 24.3  | 0.5      | 12                       | 0.76                                  | 15.16            |
| 726.00 | 243883   | 913055    | 1.50           | Thin Peat                  | 3                | 11.9      | 4                 | 1                             | 1                          | 12.00                   | 2.4                                  | 17.8  | 0.5      | 9                        | 0.56                                  | 6.67             |
| 737.00 | 243529   | 913499    | 0.90           | V. Thin Peat               | 2                | 7.5       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 6.7   | 0.5      | 3                        | 0.21                                  | 1.26             |
| 738.00 | 243461   | 913599    | 0.30           | Peaty Soil                 | 1                | 7.7       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 2.3   | 0.5      | 1                        | 0.07                                  | 0.22             |
| 739.00 | 243445   | 913625    | 0.80           | V. Thin Peat               | 2                | 7.7       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 6.2   | 0.5      | 3                        | 0.19                                  | 1.15             |
| 747.00 | 243118   | 914080    | 0.40           | Peaty Soil                 | 1                | 8.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.30             |
| 748.00 | 243120   | 914103    | 0.90           | V. Thin Peat               | 2                | 7.9       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 7.1   | 0.5      | 4                        | 0.22                                  | 1.33             |
| 759.00 | 242807   | 914075    | 0.20           | Peaty Soil                 | 1                | 13.4      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 2.7   | 0.5      | 1                        | 0.08                                  | 0.42             |
| 760.00 | 242784   | 913999    | 0.20           | Peaty Soil                 | 1                | 7.5       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.14             |
| 761.00 | 242756   | 913932    | 0.20           | Peaty Soil                 | 1                | 9.1       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.8   | 0.5      | 1                        | 0.06                                  | 0.23             |
| 762.00 | 242738   | 913876    | 0.20           | Peaty Soil                 | 1                | 13.5      | 5                 | 1                             | 1                          | 5.00                    | 1                                    | 2.7   | 0.5      | 1                        | 0.08                                  | 0.42             |
| 770.00 | 243162   | 913184    | 1.20           | Thin Peat                  | 3                | 10.9      | 4                 | 1                             | 1                          | 12.00                   | 2.4                                  | 13.1  | 0.5      | 7                        | 0.41                                  | 4.91             |
| 781.00 | 243361   | 912450    | 0.40           | Peaty Soil                 | 1                | 4.4       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 782.00 | 243320   | 912382    | 0.40           | Peaty Soil                 | 1                | 8.0       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.30             |
| 783.00 | 243278   | 912347    | 0.60           | V. Thin Peat               | 2                | 24.7      | 5                 | 1                             | 1                          | 10.00                   | 2                                    | 14.8  | 0.5      | 7                        | 0.46                                  | 4.63             |
| 784.00 | 243281   | 912214    | 0.10           | Peaty Soil                 | 1                | 4.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 0.4   | 0.5      | 0                        | 0.01                                  | 0.04             |
| 785.00 | 243338   | 912122    | 0.60           | V. Thin Peat               | 2                | 10.5      | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 6.3   | 0.5      | 3                        | 0.20                                  | 1.58             |
| 786.00 | 243365   | 912079    | 0.00           | No Peat                    | 0                | 4.3       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 787.00 | 243417   | 911961    | 0.00           | No Peat                    | 0                | 7.5       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 795.00 | 244688   | 911131    | 0.90           | V. Thin Peat               | 2                | 7.7       | 3                 | 1                             | 1                          | 8.40                    | 1.68                                 | 6.9   | 0.5      | 3                        | 0.22                                  | 1.81             |
| 796.00 | 244658   | 911179    | 2.20           | V. Thick Peat              | 5                | 4.5       | 3                 | 1                             | 1                          | 21.00                   | 4.2                                  | 9.8   | 0.5      | 5                        | 0.31                                  | 6.43             |
| 817.00 | 245497   | 910756    | 0.80           | V. Thin Peat               | 2                | 10.6      | 4                 | 1                             | 1                          | 8.00                    | 1.6                                  | 8.5   | 1.4      | 12                       | 0.74                                  | 5.92             |
| 833.00 | 245662   | 910295    | 0.30           | Peaty Soil                 | 1                | 8.1       | 4                 | 1                             | 1                          | 4.00                    | 0.8                                  | 2.4   | 1.2      | 3                        | 0.18                                  | 0.73             |
| 845.00 | 244632   | 911716    | 1.00           | V. Thin Peat               | 2                | 3.9       | 2                 | 1                             | 1                          | 5.60                    | 1.12                                 | 3.9   | 0.5      | 2                        | 0.12                                  | 0.68             |
| 851.00 | 244582   | 911802    | 0.40           | Peaty Soil                 | 1                | 7.9       | 3                 | 1                             | 1                          | 4.20                    | 0.84                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.42             |
| 873.00 | 244150   | 910942    | 0.20           | Peaty Soil                 | 1                | 1.0       | 1                 | 1                             | 1                          | 1.40                    | 0.28                                 | 0.2   | 0.5      | 0.10                     | 0.01                                  | 0.01             |
| 884.00 | 244311   | 911880    | 0.90           | V. Thin Peat               | 2                | 9.1       | 4                 | 1                             | 1                          | 11.20                   | 2.24                                 | 8.2   | 0.5      | 4                        | 0.26                                  | 2.88             |
| 895.00 | 243921   | 912502    | 0.30           | Peaty Soil                 | 1                | 5.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.6   | 0.5      | 1                        | 0.05                                  | 0.15             |
| 896.00 | 243955   | 912686    | 0.80           | V. Thin Peat               | 2                | 6.1       | 3                 | 1                             | 1                          | 6.00                    | 1.2                                  | 4.9   | 0.5      | 2                        | 0.15                                  | 0.91             |
| 917.00 | 242847   | 913661    | 0.20           | Peaty Soil                 | 1                | 6.2       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.2   | 0.5      | 1                        | 0.04                                  | 0.12             |
| 919.00 | 242862   | 913663    | 0.20           | Peaty Soil                 | 1                | 4.8       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.0   | 0.5      | 0                        | 0.03                                  | 0.09             |
| 920.00 | 242878   | 913534    | 0.00           | No Peat                    | 0                | 3.2       | 2                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 921.00 | 243066   | 913339    | 0.40           | Peaty Soil                 | 1                | 4.3       | 3                 | 1                             | 1                          | 3.00                    | 0.6                                  | 1.7   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 922.00 | 243096   | 913345    | 0.60           | V. Thin Peat               | 2                | 2.2       | 2                 | 1                             | 1                          | 4.00                    | 0.8                                  | 1.3   | 0.5      | 1                        | 0.04                                  | 0.16             |
| 923.00 | 243080</ |           |                |                            |                  |           |                   |                               |                            |                         |                                      |       |          |                          |                                       |                  |

| ID      | Easting | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|---------|---------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 1030.00 | 245659  | 910679    | 0.00           | No Peat                    | 0                | 7.3       | 3                 | 1                             | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1044.00 | 243174  | 911637    | 1.30           | Thin Peat                  | 3                | 4.6       | 3                 | 1                             | 1                          | 9.00                    | 1.8                                  | 6.0   | 0.5      | 3                        | 0.19                                  | 1.70             |
| 1047.00 | 243035  | 911635    | 2.50           | V. Thick Peat              | 5                | 7.3       | 3                 | 1                             | 1                          | 15.00                   | 3                                    | 18.2  | 0.5      | 9                        | 0.57                                  | 8.55             |
| 1068.00 | 241942  | 911122    | 0.00           | No Peat                    | 0                | 7.3       | 3                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1073.00 | 243426  | 912666    | 0.00           | No Peat                    | 0                | 7.8       | 3                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1075.00 | 244332  | 911716    | 0.10           | Peaty Soil                 | 1                | 9.3       | 4                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 0.9   | 0.5      | 0                        | 0.03                                  | 0.16             |
| 1076.00 | 244732  | 911716    | 0.30           | Peaty Soil                 | 1                | 16.6      | 5                 | 1                             | 1.4                        | 7.00                    | 1.4                                  | 5.0   | 0.5      | 2                        | 0.16                                  | 1.09             |
| 1077.00 | 244232  | 911716    | 0.50           | Peaty Soil                 | 1                | 7.5       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 3.7   | 0.5      | 2                        | 0.12                                  | 0.49             |
| 1078.00 | 244832  | 911716    | 0.30           | Peaty Soil                 | 1                | 13.5      | 5                 | 1                             | 1.4                        | 7.00                    | 1.4                                  | 4.0   | 0.5      | 2                        | 0.13                                  | 0.89             |
| 1079.00 | 244932  | 911716    | 0.10           | Peaty Soil                 | 1                | 15.4      | 5                 | 1                             | 1.4                        | 7.00                    | 1.4                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.34             |
| 1080.00 | 245032  | 911716    | 0.40           | Peaty Soil                 | 1                | 7.5       | 3                 | 1                             | 1.4                        | 4.20                    | 0.84                                 | 3.0   | 0.5      | 2                        | 0.09                                  | 0.40             |
| 1081.00 | 245132  | 911716    | 0.10           | Peaty Soil                 | 1                | 8.1       | 4                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 0.8   | 0.5      | 0                        | 0.03                                  | 0.14             |
| 1082.00 | 245232  | 911716    | 1.20           | Thin Peat                  | 3                | 14.8      | 5                 | 1                             | 1.4                        | 21.00                   | 4.2                                  | 17.8  | 0.5      | 9                        | 0.55                                  | 11.65            |
| 1083.00 | 245332  | 911716    | 0.20           | Peaty Soil                 | 1                | 26.6      | 5                 | 1                             | 1.4                        | 7.00                    | 1.4                                  | 5.3   | 0.5      | 3                        | 0.17                                  | 1.16             |
| 1084.00 | 245432  | 911716    | 0.10           | Peaty Soil                 | 1                | 13.8      | 5                 | 1                             | 1.4                        | 7.00                    | 1.4                                  | 1.4   | 0.5      | 1                        | 0.04                                  | 0.30             |
| 1085.00 | 244882  | 911976    | 0.50           | Peaty Soil                 | 1                | 10.4      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 5.2   | 0.5      | 3                        | 0.16                                  | 0.45             |
| 1086.00 | 244632  | 912062    | 0.10           | Peaty Soil                 | 1                | 11.1      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 1.1   | 0.5      | 1                        | 0.03                                  | 0.10             |
| 1087.00 | 244732  | 912062    | 0.30           | Peaty Soil                 | 1                | 10.6      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.28             |
| 1088.00 | 244032  | 911889    | 0.90           | V. Thin Peat               | 2                | 7.4       | 3                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 6.6   | 0.5      | 3                        | 0.21                                  | 0.87             |
| 1089.00 | 245382  | 911802    | 0.10           | Peaty Soil                 | 1                | 9.6       | 4                 | 1                             | 1.4                        | 5.60                    | 1.12                                 | 1.0   | 0.5      | 0                        | 0.03                                  | 0.17             |
| 1090.00 | 244532  | 911542    | 1.00           | V. Thin Peat               | 2                | 9.5       | 4                 | 0.50                          | 1.4                        | 5.60                    | 1.12                                 | 9.5   | 0.5      | 5                        | 0.30                                  | 1.66             |
| 1091.00 | 244632  | 911542    | 2.30           | V. Thick Peat              | 5                | 3.9       | 2                 | 0.50                          | 1.4                        | 7.00                    | 1.4                                  | 9.0   | 0.5      | 4                        | 0.28                                  | 1.97             |
| 1092.00 | 244582  | 911629    | 1.50           | Thin Peat                  | 3                | 6.1       | 3                 | 0.50                          | 1.4                        | 6.30                    | 1.26                                 | 9.1   | 0.5      | 5                        | 0.29                                  | 1.80             |
| 1093.00 | 244482  | 911629    | 0.40           | Peaty Soil                 | 1                | 13.0      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 5.2   | 0.5      | 3                        | 0.16                                  | 0.57             |
| 1094.00 | 244432  | 911542    | 1.30           | Thin Peat                  | 3                | 7.1       | 3                 | 0.50                          | 1.4                        | 6.30                    | 1.26                                 | 9.3   | 0.5      | 5                        | 0.29                                  | 1.83             |
| 1095.00 | 244332  | 911542    | 0.50           | Peaty Soil                 | 1                | 9.3       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 4.6   | 0.5      | 2                        | 0.15                                  | 0.41             |
| 1096.00 | 244732  | 911542    | 1.00           | V. Thin Peat               | 2                | 16.6      | 5                 | 0.50                          | 1.4                        | 7.00                    | 1.4                                  | 16.6  | 0.5      | 8                        | 0.52                                  | 3.62             |
| 1097.00 | 244232  | 911542    | 0.60           | V. Thin Peat               | 2                | 7.5       | 3                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 4.5   | 0.5      | 2                        | 0.14                                  | 0.59             |
| 1098.00 | 244832  | 911542    | 0.80           | V. Thin Peat               | 2                | 13.5      | 5                 | 0.50                          | 1.4                        | 7.00                    | 1.4                                  | 10.8  | 0.5      | 5                        | 0.34                                  | 2.36             |
| 1099.00 | 244932  | 911542    | 0.30           | Peaty Soil                 | 1                | 15.4      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 4.6   | 0.5      | 2                        | 0.14                                  | 0.51             |
| 1100.00 | 245032  | 911542    | 0.10           | Peaty Soil                 | 1                | 7.5       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 0.8   | 0.5      | 0                        | 0.02                                  | 0.05             |
| 1101.00 | 245132  | 911542    | 0.50           | Peaty Soil                 | 1                | 8.1       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 4.0   | 0.5      | 2                        | 0.13                                  | 0.35             |
| 1102.00 | 245232  | 911542    | 0.10           | Peaty Soil                 | 1                | 14.8      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 1.5   | 0.5      | 1                        | 0.05                                  | 0.16             |
| 1103.00 | 245332  | 911542    | 0.30           | Peaty Soil                 | 1                | 26.6      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 8.0   | 0.5      | 4                        | 0.25                                  | 0.87             |
| 1104.00 | 245432  | 911542    | 0.50           | Peaty Soil                 | 1                | 13.8      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 6.9   | 0.5      | 3                        | 0.22                                  | 0.75             |
| 1105.00 | 245532  | 911542    | 0.10           | Peaty Soil                 | 1                | 7.1       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 0.7   | 0.5      | 0                        | 0.02                                  | 0.05             |
| 1106.00 | 245632  | 911542    | 0.20           | Peaty Soil                 | 1                | 11.0      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 2.2   | 0.5      | 1                        | 0.07                                  | 0.19             |
| 1107.00 | 244382  | 911629    | 1.50           | Thin Peat                  | 3                | 7.1       | 3                 | 0.50                          | 1.4                        | 6.30                    | 1.26                                 | 10.6  | 0.5      | 5                        | 0.33                                  | 2.09             |
| 1108.00 | 244282  | 911629    | 1.50           | Thin Peat                  | 3                | 3.2       | 2                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 4.8   | 0.5      | 2                        | 0.15                                  | 0.63             |
| 1109.00 | 244682  | 911629    | 0.10           | Peaty Soil                 | 1                | 4.9       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 0.5   | 0.5      | 0                        | 0.02                                  | 0.03             |
| 1110.00 | 244782  | 911629    | 0.20           | Peaty Soil                 | 1                | 15.9      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 3.2   | 0.5      | 2                        | 0.10                                  | 0.35             |
| 1111.00 | 244882  | 911629    | 0.20           | Peaty Soil                 | 1                | 10.4      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 2.1   | 0.5      | 1                        | 0.06                                  | 0.18             |
| 1112.00 | 244982  | 911629    | 0.10           | Peaty Soil                 | 1                | 11.2      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 1.1   | 0.5      | 1                        | 0.03                                  | 0.10             |
| 1113.00 | 245082  | 911629    | 0.10           | Peaty Soil                 | 1                | 19.9      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 2.0   | 0.5      | 1                        | 0.06                                  | 0.22             |
| 1114.00 | 245182  | 911629    | 0.30           | Peaty Soil                 | 1                | 19.4      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 5.8   | 0.5      | 3                        | 0.18                                  | 0.64             |
| 1115.00 | 244932  | 911022    | 0.10           | Peaty Soil                 | 1                | 15.4      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 1.5   | 1.4      | 2                        | 0.13                                  | 0.34             |
| 1116.00 | 245032  | 911022    | 0.10           | Peaty Soil                 | 1                | 7.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.8   | 1.4      | 1                        | 0.07                                  | 0.10             |
| 1117.00 | 245132  | 911022    | 0.30           | Peaty Soil                 | 1                | 8.1       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.4   | 1.4      | 3                        | 0.21                                  | 0.42             |
| 1118.00 | 245232  | 911022    | 0.40           | Peaty Soil                 | 1                | 14.8      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 5.9   | 1.4      | 8                        | 0.52                                  | 1.29             |
| 1119.00 | 245332  | 911022    | 0.20           | Peaty Soil                 | 1                | 26.6      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 5.3   | 1.4      | 7                        | 0.47                                  | 1.16             |
| 1120.00 | 245432  | 911022    | 0.30           | Peaty Soil                 | 1                | 13.8      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 4.1   | 1.4      | 6                        | 0.36                                  | 0.90             |
| 1121.00 | 245532  | 911022    | 0.40           | Peaty Soil                 | 1                | 7.1       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.8   | 1.4      | 4                        | 0.25                                  | 0.37             |
| 1122.00 | 245632  | 911022    | 1.10           | Thin Peat                  | 3                | 11.0      | 4                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 12.1  | 1.4      | 17                       | 1.06                                  | 6.38             |
| 1123.00 | 244382  | 911109    | 0.80           | V. Thin Peat               | 2                | 7.1       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.7   | 1.4      | 8                        | 0.50                                  | 1.49             |
| 1124.00 | 244682  | 911109    | 1.50           | Thin Peat                  | 3                | 4.9       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 7.3   | 1.4      | 10                       | 0.64                                  | 2.89             |
| 1125.00 | 244782  | 911109    | 0.20           | Peaty Soil                 | 1                | 15.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 3.2   | 1.4      | 4                        | 0.28                                  | 0.70             |
| 1126.00 | 244882  | 911109    | 0.50           | Peaty Soil                 | 1                | 10.4      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 5.2   | 1.4      | 7                        | 0.45                                  | 0.91             |
| 1127.00 | 244982  | 911109    | 0.30           | Peaty Soil                 | 1                | 11.2      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 3.4   | 1.4      | 5                        | 0.29                                  | 0.59             |
| 1128.00 | 245082  | 911109    | 0.20           | Peaty Soil                 | 1                | 19.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 4.0   | 1.4      | 6                        | 0.35                                  | 0.87             |
| 1129.00 | 245182  | 911109    | 0.20           | Peaty Soil                 | 1                | 7.4       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.5   | 1.4      | 2                        | 0.13                                  | 0.19             |
| 1130.00 | 245282  | 911109    | 0.10           | Peaty Soil                 | 1                | 4.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.4   | 1.4      | 1                        | 0.04                                  | 0.06             |
| 1131.00 | 245382  | 911109    | 0.60           | V. Thin Peat               | 2                | 9.6       | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 5.7   | 1.4      | 8                        | 0.50                                  | 2.01             |
| 1132.00 | 244532  | 910848    | 0.20           | Peaty Soil                 | 1                | 9.5       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.9   | 1.4      | 3                        | 0.17                                  | 0.33             |
| 1133.00 | 244632  | 910848    | 0.10           | Peaty Soil                 | 1                | 3.9       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.4   | 1.4      | 1                        | 0.03                                  | 0.03             |
| 1134.00 | 244582  | 910935    | 0.30           | Peaty Soil                 | 1                | 7.9       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.4   | 1.4      | 3                        | 0.21                                  | 0.31             |
| 1135.00 | 244482  | 910935    | 0.80           | V. Thin Peat               | 2                | 7.6       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 6.1   | 1.4      | 9                        | 0.53                                  | 1.60             |
| 1136.00 | 244432  | 910848    | 0.20           | Peaty Soil                 | 1                | 7.1       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.4   | 1.4      | 2                        | 0.13                                  | 0.19             |
| 1137.00 | 244332  | 910848    | 0.10           | Peaty Soil                 | 1                | 9.3       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 0.9   | 1.4      | 1                        | 0.08                                  | 0.16             |
| 1138.00 | 244732  | 910848    | 0.30           | Peaty Soil                 | 1                | 16.6      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 5.0   | 1.4      | 7                        | 0.43                                  | 1.09             |
| 1139.00 | 244832  | 910848    | 0.10           | Peaty Soil                 | 1                | 5.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.6   | 1.4      | 1                        | 0.05                                  | 0.07             |
| 1140.00 | 245182  | 909895    | 0.40           | Peaty Soil                 | 1                | 3.7       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 1.5   | 1.4      | 2                        | 0.13                                  | 0.13             |
| 1141.00 | 245282  | 909895    | 0.60           | V. Thin Peat               | 2                | 4.5       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 2.7   | 1.4      | 4                        | 0.23                                  | 0.70             |
| 1142.00 | 245382  | 909895    | 0.30           | Peaty Soil                 | 1                | 9.6       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.9   | 1.4      | 4                        | 0.25                                  | 0.50             |
| 1143.00 | 245482  | 909895    | 0.20           | Peaty Soil                 | 1                | 17.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 3.6   | 1.4      | 5                        | 0.31                                  | 0.78             |
| 1144.00 | 245582  | 909895    | 0.20           | Peaty Soil                 | 1                | 16.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 3.4   | 1.4      | 5                        | 0.30                                  | 0.74             |
| 1145.00 | 245682  | 909895    | 1.00           | V. Thin Peat               | 2                | 5.9       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.9   | 1.4      | 8                        | 0.52                                  | 1.55             |
| 1146.00 | 245782  | 909895    | 0.30           | Peaty Soil                 | 1                | 6.8       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.4      | 3                        | 0.18                                  | 0.27             |
| 1147.00 | 245882  | 909895    | 1.70           | Thick Peat                 | 4                | 8.8       | 4                 | 0.50                          | 1                          | 8.00                    | 1.6                                  | 15.0  | 1.4      | 21                       | 1.32                                  | 10.52            |
| 1148.00 | 245982  | 909895    | 1.50           | Thin Peat                  | 3                | 5.8       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 8.7   | 1.4      | 12                       | 0.76                                  | 3.41             |
| 1149.00 | 245732  | 909808    | 0.70           | V. Thin Peat               | 2                | 10.1      | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 7.1   | 1.4      | 10                       | 0.62                                  | 2.48             |
| 1150.00 | 245832  | 909808    | 0.80           | V. Thin Peat               | 2                | 7.7       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 6.1   | 1.4      | 9                        | 0.54                                  | 1.61             |
| 1151.00 | 245932  | 909808    | 1.80           | Thick Peat                 | 4                | 10.1      | 4                 | 0.50                          | 1                          | 8.00                    | 1.6                                  | 18.2  | 1.4      | 26                       | 1.59                                  | 12.76            |
| 1152.00 | 246032  | 90980     |                |                            |                  |           |                   |                               |                            |                         |                                      |       |          |                          |                                       |                  |

| ID      | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|---------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 1182.00 | 246582   | 909721    | 0.00           | No Peat                    | 0                | 15.4      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1183.00 | 246682   | 909721    | 0.00           | No Peat                    | 0                | 9.8       | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1184.00 | 246732   | 909634    | 0.00           | No Peat                    | 0                | 9.0       | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1185.00 | 246832   | 909634    | 0.00           | No Peat                    | 0                | 6.2       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1186.00 | 246782   | 909721    | 0.00           | No Peat                    | 0                | 9.2       | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1187.00 | 244632   | 909461    | 0.00           | No Peat                    | 0                | 3.9       | 2                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1188.00 | 244582   | 909548    | 0.00           | No Peat                    | 0                | 7.9       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1189.00 | 244732   | 909461    | 0.00           | No Peat                    | 0                | 16.6      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1190.00 | 244832   | 909461    | 0.00           | No Peat                    | 0                | 4.5       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1191.00 | 244932   | 909461    | 0.00           | No Peat                    | 0                | 15.4      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1192.00 | 245032   | 909461    | 0.00           | No Peat                    | 0                | 7.5       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1193.00 | 245132   | 909461    | 0.00           | No Peat                    | 0                | 8.1       | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1194.00 | 245232   | 909461    | 0.00           | No Peat                    | 0                | 4.1       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1195.00 | 245332   | 909461    | 0.10           | Peaty Soil                 | 1                | 26.6      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 2.7   | 1.2      | 3                        | 0.20                                  | 0.70             |
| 1196.00 | 245432   | 909461    | 0.80           | V. Thin Peat               | 2                | 13.8      | 5                 | 0.50                          | 1.4                        | 7.00                    | 1.4                                  | 11.0  | 1.2      | 13                       | 0.83                                  | 5.79             |
| 1197.00 | 245532   | 909461    | 0.50           | Peaty Soil                 | 1                | 7.1       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 3.6   | 1.2      | 4                        | 0.27                                  | 0.56             |
| 1198.00 | 245632   | 909461    | 0.50           | Peaty Soil                 | 1                | 11.0      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 5.5   | 1.2      | 7                        | 0.41                                  | 1.16             |
| 1199.00 | 244682   | 909548    | 0.00           | No Peat                    | 0                | 4.9       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1200.00 | 244782   | 909548    | 0.00           | No Peat                    | 0                | 15.9      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1201.00 | 244882   | 909548    | 0.00           | No Peat                    | 0                | 10.4      | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1202.00 | 244982   | 909548    | 0.00           | No Peat                    | 0                | 11.2      | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1203.00 | 245082   | 909548    | 0.00           | No Peat                    | 0                | 9.8       | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1204.00 | 245182   | 909548    | 0.00           | No Peat                    | 0                | 19.4      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1205.00 | 246932   | 909634    | 0.00           | No Peat                    | 0                | 4.7       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1206.00 | 246932   | 909461    | 0.00           | No Peat                    | 0                | 4.7       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 1.2      | 0                        | 0.00                                  | 0.00             |
| 1207.00 | 244732   | 909288    | 0.00           | No Peat                    | 0                | 16.6      | 5                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1208.00 | 244832   | 909288    | 0.00           | No Peat                    | 0                | 13.5      | 5                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1209.00 | 244932   | 909288    | 0.00           | No Peat                    | 0                | 15.4      | 5                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1210.00 | 245032   | 909288    | 0.00           | No Peat                    | 0                | 7.5       | 3                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1211.00 | 245132   | 909288    | 0.00           | No Peat                    | 0                | 8.1       | 4                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1212.00 | 245232   | 909288    | 0.00           | No Peat                    | 0                | 14.8      | 5                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1213.00 | 245332   | 909288    | 0.90           | V. Thin Peat               | 2                | 26.6      | 5                 | 0.50                          | 1                          | 5.00                    | 1                                    | 23.9  | 1.4      | 33                       | 2.09                                  | 10.47            |
| 1214.00 | 245432   | 909288    | 0.10           | Peaty Soil                 | 1                | 13.8      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 1.4   | 1.4      | 2                        | 0.12                                  | 0.30             |
| 1215.00 | 245532   | 909288    | 0.50           | Peaty Soil                 | 1                | 7.1       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 3.6   | 1.4      | 5                        | 0.31                                  | 0.47             |
| 1216.00 | 245632   | 909288    | 0.20           | Peaty Soil                 | 1                | 11.0      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.2   | 1.4      | 3                        | 0.19                                  | 0.39             |
| 1217.00 | 244682   | 909374    | 0.00           | No Peat                    | 0                | 4.9       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1218.00 | 244782   | 909374    | 0.00           | No Peat                    | 0                | 15.9      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1219.00 | 244882   | 909374    | 0.00           | No Peat                    | 0                | 10.4      | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1220.00 | 244982   | 909374    | 0.00           | No Peat                    | 0                | 11.2      | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1221.00 | 245082   | 909374    | 0.00           | No Peat                    | 0                | 19.9      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1222.00 | 245182   | 909374    | 0.00           | No Peat                    | 0                | 19.4      | 5                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1223.00 | 245282   | 909374    | 0.00           | No Peat                    | 0                | 4.5       | 3                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1224.00 | 245382   | 909374    | 0.10           | Peaty Soil                 | 1                | 9.6       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 1.0   | 0.5      | 0                        | 0.03                                  | 0.08             |
| 1225.00 | 245482   | 909374    | 0.30           | Peaty Soil                 | 1                | 17.9      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 5.4   | 0.5      | 3                        | 0.17                                  | 0.59             |
| 1226.00 | 245582   | 909374    | 0.40           | Peaty Soil                 | 1                | 16.9      | 5                 | 0.50                          | 1.4                        | 3.50                    | 0.7                                  | 6.7   | 0.5      | 3                        | 0.21                                  | 0.74             |
| 1227.00 | 245682   | 909374    | 0.40           | Peaty Soil                 | 1                | 7.0       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 2.8   | 0.5      | 1                        | 0.09                                  | 0.18             |
| 1228.00 | 245782   | 909374    | 0.40           | Peaty Soil                 | 1                | 6.8       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 2.7   | 0.5      | 1                        | 0.08                                  | 0.18             |
| 1229.00 | 245882   | 909374    | 0.00           | No Peat                    | 0                | 8.8       | 4                 | 0.50                          | 1.4                        | 0.00                    | 0                                    | 0.0   | 0.5      | 0                        | 0.00                                  | 0.00             |
| 1230.00 | 245982   | 909374    | 0.50           | Peaty Soil                 | 1                | 8.6       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 4.3   | 0.5      | 2                        | 0.13                                  | 0.38             |
| 1231.00 | 245732   | 909288    | 0.10           | Peaty Soil                 | 1                | 10.1      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.0   | 1.4      | 1                        | 0.09                                  | 0.18             |
| 1232.00 | 245832   | 909288    | 0.30           | Peaty Soil                 | 1                | 7.7       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.3   | 1.4      | 3                        | 0.20                                  | 0.30             |
| 1233.00 | 245932   | 909288    | 0.30           | Peaty Soil                 | 1                | 10.1      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 3.0   | 1.4      | 4                        | 0.27                                  | 0.53             |
| 1234.00 | 246032   | 909288    | 0.30           | Peaty Soil                 | 1                | 3.0       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.9   | 1.4      | 1                        | 0.08                                  | 0.08             |
| 1235.00 | 245182   | 908854    | 0.00           | No Peat                    | 0                | 19.4      | 5                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1236.00 | 245282   | 908854    | 0.00           | No Peat                    | 0                | 4.5       | 3                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1237.00 | 245382   | 908854    | 0.00           | No Peat                    | 0                | 1.2       | 1                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1238.00 | 245482   | 908854    | 0.00           | No Peat                    | 0                | 17.9      | 5                 | 0.50                          | 1                          | 0.00                    | 0                                    | 0.0   | 1.4      | 0                        | 0.00                                  | 0.00             |
| 1239.00 | 245582   | 908854    | 0.40           | Peaty Soil                 | 1                | 16.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 6.7   | 1.4      | 9                        | 0.59                                  | 1.48             |
| 1240.00 | 245682   | 908854    | 0.10           | Peaty Soil                 | 1                | 7.0       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.7   | 1.4      | 1                        | 0.06                                  | 0.09             |
| 1241.00 | 245782   | 908854    | 0.40           | Peaty Soil                 | 1                | 6.8       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.7   | 1.4      | 4                        | 0.24                                  | 0.36             |
| 1242.00 | 245882   | 908854    | 0.40           | Peaty Soil                 | 1                | 8.8       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 3.5   | 1.4      | 5                        | 0.31                                  | 0.62             |
| 1243.00 | 245982   | 908854    | 0.20           | Peaty Soil                 | 1                | 8.6       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.7   | 1.4      | 2                        | 0.15                                  | 0.30             |
| 1244.00 | 245732   | 908767    | 0.20           | Peaty Soil                 | 1                | 10.1      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.0   | 1.4      | 3                        | 0.18                                  | 0.35             |
| 1245.00 | 245832   | 908767    | 0.30           | Peaty Soil                 | 1                | 7.7       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.3   | 1.4      | 3                        | 0.20                                  | 0.30             |
| 1246.00 | 245932   | 908767    | 1.00           | V. Thin Peat               | 2                | 7.0       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 7.0   | 1.4      | 10                       | 0.61                                  | 1.83             |
| 1247.00 | 246032   | 908767    | 0.40           | Peaty Soil                 | 1                | 8.3       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 3.3   | 1.4      | 5                        | 0.29                                  | 0.58             |
| 1248.00 | 246132   | 908767    | 0.30           | Peaty Soil                 | 1                | 6.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.4      | 3                        | 0.17                                  | 0.26</           |

| ID      | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|---------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 1294.00 | 247332   | 906859    | 0.40           | Peaty Soil                 | 1                | 4.9       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.2      | 2                        | 0.15                                  | 0.22             |
| 1295.00 | 246682   | 906773    | 0.30           | Peaty Soil                 | 1                | 9.8       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.9   | 1.2      | 4                        | 0.22                                  | 0.44             |
| 1296.00 | 246782   | 906773    | 0.90           | V. Thin Peat               | 2                | 8.9       | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 8.0   | 1.2      | 10                       | 0.60                                  | 2.41             |
| 1297.00 | 246732   | 906686    | 1.80           | Thick Peat                 | 4                | 9.0       | 4                 | 0.50                          | 1                          | 8.00                    | 1.6                                  | 16.2  | 1.2      | 19                       | 1.22                                  | 9.75             |
| 1298.00 | 246832   | 906686    | 0.40           | Peaty Soil                 | 1                | 6.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.5   | 1.2      | 3                        | 0.19                                  | 0.28             |
| 1299.00 | 246932   | 906686    | 2.00           | Thick Peat                 | 4                | 4.7       | 3                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 9.5   | 1.2      | 11                       | 0.71                                  | 4.26             |
| 1300.00 | 246882   | 906773    | 1.90           | Thick Peat                 | 4                | 5.8       | 3                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 11.0  | 1.2      | 13                       | 0.82                                  | 4.95             |
| 1301.00 | 246982   | 906773    | 2.20           | V. Thick Peat              | 5                | 4.3       | 3                 | 0.50                          | 1                          | 7.50                    | 1.5                                  | 9.5   | 1.2      | 11                       | 0.72                                  | 5.36             |
| 1302.00 | 247082   | 906773    | 1.80           | Thick Peat                 | 4                | 5.9       | 3                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 10.6  | 1.2      | 13                       | 0.80                                  | 4.77             |
| 1303.00 | 247182   | 906773    | 1.40           | Thin Peat                  | 3                | 6.3       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 8.8   | 1.2      | 11                       | 0.66                                  | 2.96             |
| 1304.00 | 247032   | 906686    | 2.30           | V. Thick Peat              | 5                | 4.9       | 3                 | 0.50                          | 1                          | 7.50                    | 1.5                                  | 11.2  | 1.2      | 13                       | 0.84                                  | 6.32             |
| 1305.00 | 247132   | 906686    | 1.50           | Thin Peat                  | 3                | 6.5       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 9.7   | 1.2      | 12                       | 0.73                                  | 3.27             |
| 1306.00 | 247232   | 906686    | 0.70           | V. Thin Peat               | 2                | 6.0       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 4.2   | 1.2      | 5                        | 0.31                                  | 0.94             |
| 1307.00 | 247282   | 906773    | 0.20           | Peaty Soil                 | 1                | 3.4       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.7   | 1.2      | 1                        | 0.05                                  | 0.05             |
| 1308.00 | 247332   | 906686    | 0.50           | Peaty Soil                 | 1                | 4.9       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.5   | 1.2      | 3                        | 0.18                                  | 0.28             |
| 1309.00 | 247382   | 906946    | 0.10           | Peaty Soil                 | 1                | 2.0       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.2   | 1.2      | 0                        | 0.02                                  | 0.02             |
| 1310.00 | 247482   | 906946    | 0.50           | Peaty Soil                 | 1                | 4.6       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.3   | 1.2      | 3                        | 0.17                                  | 0.26             |
| 1311.00 | 247432   | 906859    | 0.70           | V. Thin Peat               | 2                | 2.3       | 2                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.6   | 1.2      | 2                        | 0.12                                  | 0.24             |
| 1312.00 | 247532   | 906859    | 0.70           | V. Thin Peat               | 2                | 3.4       | 2                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.4   | 1.2      | 3                        | 0.18                                  | 0.35             |
| 1313.00 | 247382   | 906773    | 0.50           | Peaty Soil                 | 1                | 2.0       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 1.0   | 1.2      | 1                        | 0.08                                  | 0.08             |
| 1314.00 | 247482   | 906773    | 1.20           | Thin Peat                  | 3                | 4.6       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 5.5   | 1.2      | 7                        | 0.41                                  | 1.85             |
| 1315.00 | 247582   | 906773    | 0.50           | Peaty Soil                 | 1                | 4.0       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.2      | 2                        | 0.15                                  | 0.23             |
| 1317.00 | 247532   | 906686    | 1.50           | Thin Peat                  | 3                | 3.4       | 2                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.0   | 1.2      | 6                        | 0.38                                  | 1.13             |
| 1318.00 | 247632   | 906686    | 1.00           | V. Thin Peat               | 2                | 4.0       | 2                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 4.0   | 1.2      | 5                        | 0.30                                  | 0.60             |
| 1319.00 | 246932   | 906513    | 0.40           | Peaty Soil                 | 1                | 1.9       | 1                 | 0.50                          | 1                          | 0.50                    | 0.1                                  | 0.8   | 1.2      | 1                        | 0.06                                  | 0.03             |
| 1320.00 | 246882   | 906599    | 2.00           | Thick Peat                 | 4                | 5.8       | 3                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 11.6  | 1.2      | 14                       | 0.87                                  | 5.21             |
| 1321.00 | 246982   | 906599    | 0.20           | Peaty Soil                 | 1                | 4.3       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.9   | 1.2      | 1                        | 0.07                                  | 0.10             |
| 1322.00 | 247082   | 906599    | 1.70           | Thick Peat                 | 4                | 5.9       | 3                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 10.0  | 1.2      | 12                       | 0.75                                  | 4.51             |
| 1323.00 | 247882   | 905905    | 0.90           | V. Thin Peat               | 2                | 4.5       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 4.0   | 1.2      | 5                        | 0.30                                  | 0.90             |
| 1324.00 | 247982   | 905906    | 0.50           | Peaty Soil                 | 1                | 7.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 3.6   | 1.2      | 4                        | 0.27                                  | 0.40             |
| 1325.00 | 247932   | 905819    | 0.40           | Peaty Soil                 | 1                | 2.2       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.9   | 1.2      | 1                        | 0.07                                  | 0.07             |
| 1326.00 | 248082   | 905905    | 0.20           | Peaty Soil                 | 1                | 5.0       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.0   | 1.2      | 1                        | 0.07                                  | 0.11             |
| 1327.00 | 248182   | 905906    | 0.70           | V. Thin Peat               | 2                | 7.5       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.2   | 1.2      | 6                        | 0.39                                  | 1.18             |
| 1328.00 | 248032   | 905992    | 0.60           | V. Thin Peat               | 2                | 2.1       | 2                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.3   | 1.2      | 2                        | 0.09                                  | 0.19             |
| 1329.00 | 248032   | 905819    | 0.30           | Peaty Soil                 | 1                | 2.1       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.6   | 1.2      | 1                        | 0.05                                  | 0.05             |
| 1330.00 | 248132   | 905819    | 0.40           | Peaty Soil                 | 1                | 5.1       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.2      | 2                        | 0.15                                  | 0.23             |
| 1331.00 | 248232   | 905819    | 1.50           | Thin Peat                  | 3                | 4.2       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 6.3   | 1.2      | 8                        | 0.47                                  | 2.12             |
| 1332.00 | 248332   | 905819    | 0.20           | Peaty Soil                 | 1                | 6.9       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.4   | 1.2      | 2                        | 0.10                                  | 0.15             |
| 1333.00 | 247982   | 905732    | 0.40           | Peaty Soil                 | 1                | 4.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.8   | 1.2      | 2                        | 0.13                                  | 0.20             |
| 1334.00 | 248082   | 905732    | 0.40           | Peaty Soil                 | 1                | 1.0       | 1                 | 0.50                          | 1                          | 0.50                    | 0.1                                  | 0.4   | 1.2      | 0                        | 0.03                                  | 0.02             |
| 1335.00 | 248182   | 905732    | 2.30           | V. Thick Peat              | 5                | 4.8       | 3                 | 0.50                          | 1                          | 7.50                    | 1.5                                  | 11.1  | 1.2      | 13                       | 0.83                                  | 6.23             |
| 1336.00 | 248032   | 905645    | 0.30           | Peaty Soil                 | 1                | 2.1       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.6   | 1.2      | 1                        | 0.05                                  | 0.05             |
| 1337.00 | 248132   | 905645    | 0.50           | Peaty Soil                 | 1                | 5.1       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.5   | 1.2      | 3                        | 0.19                                  | 0.29             |
| 1338.00 | 248232   | 905645    | 0.10           | Peaty Soil                 | 1                | 4.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.4   | 1.2      | 1                        | 0.03                                  | 0.05             |
| 1339.00 | 248332   | 905645    | 0.20           | Peaty Soil                 | 1                | 6.9       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.4   | 1.2      | 2                        | 0.10                                  | 0.15             |
| 1340.00 | 248282   | 905732    | 2.30           | V. Thick Peat              | 5                | 4.5       | 3                 | 0.50                          | 1                          | 7.50                    | 1.5                                  | 10.4  | 1.2      | 12                       | 0.78                                  | 5.86             |
| 1341.00 | 248382   | 905732    | 0.50           | Peaty Soil                 | 1                | 8.4       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 4.2   | 1.2      | 5                        | 0.31                                  | 0.63             |
| 1342.00 | 248482   | 905732    | 1.30           | Thin Peat                  | 3                | 2.2       | 2                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 2.9   | 1.2      | 3                        | 0.22                                  | 0.65             |
| 1343.00 | 248432   | 905645    | 0.20           | Peaty Soil                 | 1                | 6.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.2   | 1.2      | 1                        | 0.09                                  | 0.14             |
| 1344.00 | 248532   | 905645    | 2.30           | V. Thick Peat              | 5                | 8.9       | 4                 | 0.50                          | 1                          | 10.00                   | 2                                    | 20.4  | 1.2      | 24                       | 1.53                                  | 15.30            |
| 1345.00 | 248182   | 905559    | 0.20           | Peaty Soil                 | 1                | 4.8       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.0   | 1.4      | 1                        | 0.08                                  | 0.13             |
| 1346.00 | 248232   | 905472    | 0.30           | Peaty Soil                 | 1                | 4.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.3   | 1.4      | 2                        | 0.11                                  | 0.16             |
| 1347.00 | 248332   | 905472    | 1.10           | Thin Peat                  | 3                | 6.9       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 7.6   | 1.4      | 11                       | 0.66                                  | 2.98             |
| 1348.00 | 248282   | 905559    | 0.50           | Peaty Soil                 | 1                | 4.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.3   | 1.4      | 3                        | 0.20                                  | 0.30             |
| 1349.00 | 248382   | 905559    | 2.30           | V. Thick Peat              | 5                | 8.4       | 4                 | 0.50                          | 1                          | 10.00                   | 2                                    | 19.3  | 1.2      | 23                       | 1.45                                  | 14.45            |
| 1350.00 | 248482   | 905559    | 1.00           | V. Thin Peat               | 2                | 2.9       | 2                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.9   | 1.4      | 4                        | 0.26                                  | 0.51             |
| 1351.00 | 248432   | 905472    | 1.00           | V. Thin Peat               | 2                | 6.2       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 6.2   | 1.4      | 9                        | 0.55                                  | 1.64             |
| 1352.00 | 248532   | 905472    | 1.80           | Thick Peat                 | 4                | 8.9       | 4                 | 0.50                          | 1                          | 8.00                    | 1.6                                  | 16.0  | 1.4      | 22                       | 1.40                                  | 11.18            |
| 1353.00 | 243982   | 910762    | 0.50           | Peaty Soil                 | 1                | 7.6       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 3.8   | 1.4      | 5                        | 0.33                                  | 0.50             |
| 1354.00 | 243882   | 910762    | 0.80           | V. Thin Peat               | 2                | 8.7       | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 7.0   | 1.4      | 10                       | 0.61                                  | 2.45             |
| 1355.00 | 244232   | 910675    | 1.00           | V. Thin Peat               | 2                | 7.5       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 7.5   | 1.4      | 10                       | 0.65                                  | 1.96             |
| 1356.00 | 244132   | 910675    | 0.60           | V. Thin Peat               | 2                | 9.1       | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 5.5   | 1.4      | 8                        | 0.48                                  | 1.92             |
| 1357.00 | 244032   | 910675    | 0.40           | Peaty Soil                 | 1                | 7.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.9   | 1.4      | 4                        | 0.25                                  | 0.38             |
| 1358.00 | 243932   | 910675    | 0.30           | Peaty Soil                 | 1                | 6.7       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.4      | 3                        | 0.18                                  | 0.26             |
| 1359.00 | 244532   | 910502    | 0.40           | Peaty Soil                 | 1                | 9.5       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 3.8   | 1.4      | 5                        | 0.33                                  | 0.67             |
| 1360.00 | 244632   | 910502    | 0.40           | Peaty Soil                 | 1                | 3.9       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 1.6   | 1.4      | 2                        | 0.14                                  | 0.14             |
| 1361.00 | 244582   | 910588    | 0.90           | V. Thin Peat               | 2                | 7.9       | 3                 | 0.50                          | 1                          |                         |                                      |       |          |                          |                                       |                  |



| ID      | Eastings | Northings | Peat Depth (m) | Peat Thickness Coefficient | Peat Coefficient | Slope (°) | Slope Coefficient | Surface Hydrology Coefficient | Break In Slope Coefficient | Likelihood Rating Score | Likelihood Rating Score (Normalised) | Scale | Exposure | Consequence Rating Score | Consequence Rating Score (Normalised) | Risk Coefficient |
|---------|----------|-----------|----------------|----------------------------|------------------|-----------|-------------------|-------------------------------|----------------------------|-------------------------|--------------------------------------|-------|----------|--------------------------|---------------------------------------|------------------|
| 1407.00 | 246382   | 910588    | 1.00           | V. Thin Peat               | 2                | 6.0       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 6.0   | 1.4      | 8                        | 0.53                                  | 1.58             |
| 1408.00 | 246232   | 910502    | 0.70           | V. Thin Peat               | 2                | 4.1       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 2.9   | 1.4      | 4                        | 0.25                                  | 0.75             |
| 1409.00 | 246332   | 910502    | 0.80           | V. Thin Peat               | 2                | 6.2       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 4.9   | 1.4      | 7                        | 0.43                                  | 1.29             |
| 1410.00 | 246432   | 910502    | 3.50           | V. Thick Peat              | 5                | 9.3       | 4                 | 0.50                          | 1                          | 10.00                   | 2                                    | 32.6  | 1.4      | 46                       | 2.85                                  | 28.54            |
| 1411.00 | 244532   | 910328    | 0.10           | Peaty Soil                 | 1                | 9.5       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.0   | 1.4      | 1                        | 0.08                                  | 0.17             |
| 1412.00 | 244632   | 910328    | 0.40           | Peaty Soil                 | 1                | 3.9       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 1.6   | 1.4      | 2                        | 0.14                                  | 0.14             |
| 1413.00 | 244582   | 910415    | 1.00           | V. Thin Peat               | 2                | 7.9       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 7.9   | 1.4      | 11                       | 0.69                                  | 2.08             |
| 1414.00 | 244482   | 910415    | 0.20           | Peaty Soil                 | 1                | 7.6       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.5   | 1.4      | 2                        | 0.13                                  | 0.20             |
| 1415.00 | 244432   | 910328    | 0.30           | Peaty Soil                 | 1                | 7.1       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.1   | 1.4      | 3                        | 0.19                                  | 0.28             |
| 1416.00 | 244332   | 910328    | 0.10           | Peaty Soil                 | 1                | 9.3       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 0.9   | 1.4      | 1                        | 0.08                                  | 0.16             |
| 1417.00 | 244732   | 910328    | 0.30           | Peaty Soil                 | 1                | 16.6      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 5.0   | 1.4      | 7                        | 0.43                                  | 1.09             |
| 1418.00 | 245682   | 911282    | 0.10           | Peaty Soil                 | 1                | 7.0       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 0.7   | 1.4      | 1                        | 0.06                                  | 0.09             |
| 1419.00 | 245782   | 911282    | 0.40           | Peaty Soil                 | 1                | 6.8       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.7   | 1.4      | 4                        | 0.24                                  | 0.36             |
| 1420.00 | 245482   | 911109    | 0.30           | Peaty Soil                 | 1                | 17.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 5.4   | 1.4      | 8                        | 0.47                                  | 1.17             |
| 1421.00 | 245582   | 911109    | 0.70           | V. Thin Peat               | 2                | 16.9      | 5                 | 0.50                          | 1                          | 5.00                    | 1                                    | 11.8  | 1.4      | 17                       | 1.03                                  | 5.17             |
| 1422.00 | 245732   | 911195    | 0.40           | Peaty Soil                 | 1                | 10.1      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 4.0   | 1.4      | 6                        | 0.35                                  | 0.71             |
| 1423.00 | 245682   | 911109    | 0.50           | Peaty Soil                 | 1                | 7.0       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 3.5   | 1.4      | 5                        | 0.30                                  | 0.46             |
| 1424.00 | 245782   | 911109    | 1.30           | Thin Peat                  | 3                | 6.8       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 8.8   | 1.4      | 12                       | 0.77                                  | 3.47             |
| 1425.00 | 245882   | 911109    | 0.90           | V. Thin Peat               | 2                | 8.8       | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 8.0   | 1.4      | 11                       | 0.70                                  | 2.79             |
| 1426.00 | 245732   | 911022    | 0.20           | Peaty Soil                 | 1                | 10.1      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 2.0   | 1.4      | 3                        | 0.18                                  | 0.35             |
| 1427.00 | 245832   | 911022    | 1.00           | V. Thin Peat               | 2                | 0.3       | 1                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 0.3   | 1.4      | 0                        | 0.03                                  | 0.03             |
| 1428.00 | 245932   | 911022    | 0.60           | V. Thin Peat               | 2                | 2.3       | 2                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.4   | 1.4      | 2                        | 0.12                                  | 0.24             |
| 1429.00 | 245482   | 910935    | 0.20           | Peaty Soil                 | 1                | 1.3       | 1                 | 0.50                          | 1                          | 0.50                    | 0.1                                  | 0.3   | 1.4      | 0                        | 0.02                                  | 0.01             |
| 1430.00 | 245582   | 910935    | 0.40           | Peaty Soil                 | 1                | 16.9      | 5                 | 0.50                          | 1                          | 2.50                    | 0.5                                  | 6.7   | 1.4      | 9                        | 0.59                                  | 1.48             |
| 1431.00 | 245682   | 910935    | 0.40           | Peaty Soil                 | 1                | 7.0       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.8   | 1.4      | 4                        | 0.24                                  | 0.37             |
| 1432.00 | 245782   | 910935    | 0.30           | Peaty Soil                 | 1                | 6.8       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.0   | 1.4      | 3                        | 0.18                                  | 0.27             |
| 1433.00 | 245882   | 910935    | 0.80           | V. Thin Peat               | 2                | 7.4       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.9   | 1.4      | 8                        | 0.52                                  | 1.55             |
| 1434.00 | 245982   | 910935    | 0.80           | V. Thin Peat               | 2                | 7.0       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.6   | 1.4      | 8                        | 0.49                                  | 1.47             |
| 1435.00 | 245732   | 910848    | 1.10           | Thin Peat                  | 3                | 2.4       | 2                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 2.6   | 1.4      | 4                        | 0.23                                  | 0.68             |
| 1436.00 | 245832   | 910848    | 1.00           | V. Thin Peat               | 2                | 7.7       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 7.7   | 1.4      | 11                       | 0.67                                  | 2.01             |
| 1437.00 | 245932   | 910848    | 0.40           | Peaty Soil                 | 1                | 10.1      | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 4.1   | 1.4      | 6                        | 0.35                                  | 0.71             |
| 1438.00 | 246032   | 910848    | 1.00           | V. Thin Peat               | 2                | 8.3       | 4                 | 0.50                          | 1                          | 4.00                    | 0.8                                  | 8.3   | 1.4      | 12                       | 0.73                                  | 2.92             |
| 1439.00 | 246132   | 910848    | 1.50           | Thin Peat                  | 3                | 6.5       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 9.8   | 1.4      | 14                       | 0.86                                  | 3.85             |
| 1440.00 | 244282   | 911455    | 1.00           | V. Thin Peat               | 2                | 3.2       | 2                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 3.2   | 0.5      | 2                        | 0.10                                  | 0.28             |
| 1441.00 | 244182   | 911455    | 0.50           | Peaty Soil                 | 1                | 5.2       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 2.6   | 0.5      | 1                        | 0.08                                  | 0.17             |
| 1442.00 | 244082   | 911455    | 0.80           | V. Thin Peat               | 2                | 4.4       | 3                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 3.5   | 0.5      | 2                        | 0.11                                  | 0.46             |
| 1443.00 | 243982   | 911455    | 0.50           | Peaty Soil                 | 1                | 7.6       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 3.8   | 0.5      | 2                        | 0.12                                  | 0.25             |
| 1444.00 | 243882   | 911455    | 1.20           | Thin Peat                  | 3                | 8.7       | 4                 | 0.50                          | 1.4                        | 8.40                    | 1.68                                 | 10.5  | 0.5      | 5                        | 0.33                                  | 2.75             |
| 1445.00 | 243782   | 911455    | 0.40           | Peaty Soil                 | 1                | 9.5       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 3.8   | 0.5      | 2                        | 0.12                                  | 0.33             |
| 1446.00 | 243682   | 911455    | 0.30           | Peaty Soil                 | 1                | 8.4       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 2.5   | 0.5      | 1                        | 0.08                                  | 0.22             |
| 1447.00 | 244232   | 911369    | 0.60           | V. Thin Peat               | 2                | 7.5       | 3                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 4.5   | 1.4      | 6                        | 0.39                                  | 1.64             |
| 1448.00 | 244132   | 911369    | 0.40           | Peaty Soil                 | 1                | 9.1       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 3.6   | 1.4      | 5                        | 0.32                                  | 0.89             |
| 1449.00 | 244032   | 911369    | 0.60           | V. Thin Peat               | 2                | 7.2       | 3                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 4.3   | 1.4      | 6                        | 0.38                                  | 1.59             |
| 1450.00 | 243932   | 911369    | 0.60           | V. Thin Peat               | 2                | 6.7       | 3                 | 0.50                          | 1.4                        | 4.20                    | 0.84                                 | 4.0   | 1.4      | 6                        | 0.35                                  | 1.47             |
| 1451.00 | 243832   | 911369    | 0.50           | Peaty Soil                 | 1                | 6.8       | 3                 | 0.50                          | 1.4                        | 2.10                    | 0.42                                 | 3.4   | 1.4      | 5                        | 0.30                                  | 0.62             |
| 1452.00 | 243732   | 911369    | 0.30           | Peaty Soil                 | 1                | 10.3      | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 3.1   | 1.4      | 4                        | 0.27                                  | 0.76             |
| 1453.00 | 243632   | 911369    | 0.50           | Peaty Soil                 | 1                | 8.7       | 4                 | 0.50                          | 1.4                        | 2.80                    | 0.56                                 | 4.3   | 1.4      | 6                        | 0.38                                  | 1.06             |
| 1454.00 | 244282   | 911282    | 1.40           | Thin Peat                  | 3                | 3.2       | 2                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 4.5   | 1.4      | 6                        | 0.39                                  | 1.18             |
| 1455.00 | 244182   | 911282    | 0.30           | Peaty Soil                 | 1                | 5.2       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 1.6   | 1.4      | 2                        | 0.14                                  | 0.21             |
| 1456.00 | 244082   | 911282    | 0.70           | V. Thin Peat               | 2                | 4.4       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 3.1   | 1.4      | 4                        | 0.27                                  | 0.80             |
| 1457.00 | 243982   | 911282    | 0.50           | Peaty Soil                 | 1                | 7.6       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 3.8   | 1.4      | 5                        | 0.33                                  | 0.51             |
| 1458.00 | 243882   | 911282    | 0.70           | V. Thin Peat               | 2                | 1.9       | 1                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 1.3   | 1.4      | 2                        | 0.12                                  | 0.12             |
| 1459.00 | 243782   | 911282    | 0.50           | Peaty Soil                 | 1                | 8.9       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 4.4   | 1.4      | 6                        | 0.39                                  | 0.77             |
| 1460.00 | 243682   | 911282    | 0.20           | Peaty Soil                 | 1                | 8.4       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 1.7   | 1.4      | 2                        | 0.15                                  | 0.29             |
| 1462.00 | 244232   | 911195    | 0.30           | Peaty Soil                 | 1                | 7.5       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 2.2   | 1.4      | 3                        | 0.20                                  | 0.29             |
| 1463.00 | 244132   | 911195    | 1.10           | Thin Peat                  | 3                | 9.1       | 4                 | 0.50                          | 1                          | 6.00                    | 1.2                                  | 10.0  | 1.4      | 14                       | 0.88                                  | 5.27             |
| 1464.00 | 244032   | 911195    | 0.60           | V. Thin Peat               | 2                | 6.8       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 4.1   | 1.4      | 6                        | 0.36                                  | 1.07             |
| 1465.00 | 243932   | 911195    | 0.90           | V. Thin Peat               | 2                | 6.7       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 6.0   | 1.4      | 8                        | 0.53                                  | 1.58             |
| 1466.00 | 243832   | 911195    | 1.00           | V. Thin Peat               | 2                | 6.8       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 6.8   | 1.4      | 10                       | 0.59                                  | 1.78             |
| 1468.00 | 243632   | 911195    | 0.40           | Peaty Soil                 | 1                | 8.7       | 4                 | 0.50                          | 1                          | 2.00                    | 0.4                                  | 3.5   | 1.4      | 5                        | 0.30                                  | 0.61             |
| 1469.00 | 244282   | 911109    | 0.40           | Peaty Soil                 | 1                | 3.2       | 2                 | 0.50                          | 1                          | 1.00                    | 0.2                                  | 1.3   | 1.4      | 2                        | 0.11                                  | 0.11             |
| 1470.00 | 244182   | 911109    | 0.90           | V. Thin Peat               | 2                | 6.1       | 3                 | 0.50                          | 1                          | 3.00                    | 0.6                                  | 5.5   | 1.4      | 8                        | 0.48                                  | 1.43             |
| 1471.00 | 244082   | 911109    | 1.50           | Thin Peat                  | 3                | 4.4       | 3                 | 0.50                          | 1                          | 4.50                    | 0.9                                  | 6.6   | 1.4      | 9                        | 0.58                                  | 2.60             |
| 1472.00 | 243982   | 911109    | 0.50           | Peaty Soil                 | 1                | 7.6       | 3                 | 0.50                          | 1                          | 1.50                    | 0.3                                  | 3.8   | 1.4      | 5                        | 0.33                                  | 0.50             |
| 1473.00 | 246532   | 907033    | 0.60           | V. Thin Peat               | 2                | 5.6       | 3                 | 0.5                           | 1                          | 3.00                    | 0.6                                  | 3.4   | 1.4      | 5                        | 0.30                                  | 0.89             |
| 1474.00 | 246482   | 907120    | 1.30           | Thin Peat                  | 3                | 3.1       | 2                 | 0.5                           | 1                          | 3.00                    | 0.6                                  | 4.0   | 1.4      | 6                        | 0.35                                  | 1.05             |

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## Appendix C- Risk Assessment

## Scheme Title: Achany Extension Wind Farm

Risk Rating (R) = Likelihood (L) x Severity (S)

### GEOTECHNICAL RISK ASSESSMENT

| No | Hazard                     | Risk Description   | Consequence   | Risk Rating Before |   |    | Risk Management Measures   | Risk Rating After Control |   |   | Comments or further recommended actions at design / construction |
|----|----------------------------|--|---|--------------------|---|----|--|---------------------------|---|---|--|
|    |                            |  |   | L                  | S | R  |  | L                         | S | R |  |
| G1 | Peat- Low bearing capacity | Peat is an unstable material that will offer little to no stability to large structures or vehicle movement on site. | Bearing failure within formation.                                     | 5                  | 3 | 15 | <b>Design:</b> Specify excavation of soft/ loose or organic areas.<br>Prioritise areas with shallow peat for micrositng purposes<br><b>Contractor:</b> Adhere to the specification for dig out of poor formations.   | 1                         | 3 | 3 |  |
| G2 | Peat- low stiffness        |  | Excessive settlement and/or differential settlement within formation. | 5                  | 3 | 15 | <b>Design:</b> Specify excavation of soft / loose or organic areas.<br>Consider floating road design for access tracks.<br>Prioritise areas with shallow peat for micrositng purposes<br><b>Contractor:</b> Adhere to specification for dig out of poor formations.      | 2                         | 3 | 6 |  |
| G3 | Peat- unstable slopes      |  | Potential peat slide affecting infrastructure and end user.           | 4                  | 4 | 16 | <b>Design:</b> Following on from a ground investigations, slope stability analysis will be conducted to establish the safe slope angle of excavated materials.<br>The PSRA will inform the detailed design of the wind farm and minimise the risk of destabilising peat. | 2                         | 4 | 8 |  |

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| G4 | Variable Glacial Deposits- behaviour                     | Glacial deposits vary and can react differently depending on ground conditions. Heave is common in overconsolidated clays and where softer deposits occur, bearing and settlement issues may arise. | Uncertainty of behavioural conditions under bearing load.  | 3 | 4 | 12 | <p><b>Design:</b> Specify thorough classification testing on glacial soil layers where critical to design. Where ambiguity remains, perform analysis using drained and undrained cases.</p> <p><b>Contractor:</b> In situ verification of soil properties upon achieving formation level (PBT, SPT, shear vane)</p> | 2 | 3 | 6 |  |
| G5 | Variable Glacial Deposits- stiffness and settlement      |   | Excessive settlement and/or differential settlement within formation.  | 3 | 4 | 12 | <p><b>Design:</b> Specify consolidation and stiffness testing as part of laboratory schedule. Undertake thorough settlement analysis calculations prior to design approval</p> <p><b>Contractor:</b> In situ verification of soil properties upon achieving formation level (PBT, SPT, shear vane)</p>              | 2 | 3 | 6 |  |
| G6 | Localised variability of soil strata and rockhead level. |   | May result in differential settlement and/or changes to anticipated bearing capacity and settlement predictions. | 3 | 4 | 12 | <p><b>Design:</b> Perform multiple investigated locations across turbine and hardstanding areas and anticipate likely variation based on borehole and trial pit data.</p> <p><b>Contractor:</b> Verify and ensure required bearing stratum are met for gravity based foundations (PBT).</p>                         | 2 | 3 | 6 |  |

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| G7 | Localised variability of rockhead level.   | <p>It is not possible to accurately predict rock levels across the entire site and some level of uncertainty is to be expected.</p> <p>The presence of poorer strength strata cannot be discounted.</p> <p>Rock may contain minerals which can attack concrete and steel.</p> | May lead to requirement for ripping and/or blasting during excavaton.   | 4 | 3 | 12 | <p><b>Design:</b> Perform excavatability analysis if required to determine required rock excavation methods.</p> <p><b>Contractor:</b> Ensure the correct plant and knowledge is available to undertake the works. Where abiguity remains, insist upon additional ground investigation.</p> | 2 | 2 | 4 |  |
| G8 | Soil and pore fluid chemical aggressivity. |   | Any foundation structure containing concrete and/or steel could degrade substantially if chemical composition is not considered, resulting in the failure of foundations. | 3 | 5 | 15 | <p><b>Design:</b> Specify adequate chemical testing during ground investigation and apply appropriate chemical exposure classes to concrete mix detail.</p> <p><b>Contractor:</b> Ensure specification is adhered to.</p>   | 1 | 3 | 3 |  |
| G9 |  | Excessive rock fracturing within borrow pit material.   | Lower strength and durability of aggretae.  | 2 | 3 | 6  | <p><b>Design:</b> Specify adequate rock sampling and logging during GI, including rock core sampling and quality parameters.</p> <p><b>Contractor:</b> Consider the use of treatment on site, grading and or screeding.</p>   | 2 | 2 | 4 |  |

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| G10 | Borrow Pits | Variability of rock lithology and composition | Uncertainty and variability of parameters including strength, durability and chemical composition. | 2 | 3 | 6 | <p><b>Design:</b> Determination of lithology and variation over borrow pit area during GI including laboratory testing. Micro-siting of borrow pits to avoid formation boundaries if possible. Undertake geological review including walkover to determine if suitable 'stronger' strata is prevalent on site</p> <p><b>Contractor:</b> To ensure that no clear formation boundaries are crossed within excavated borrow pit, and if unavoidable to ensure each rock type is tested and utilised appropriately.</p> | 1 | 2 | 2 |  |
| G11 |             | Rock excavability                             | Potential requirement for ripping and/or blasting of rock.   | 3 | 3 | 9 | <p><b>Design:</b> Excavatability analysis to be performed for each location based on GI data. Plan for televiewer data to be incorporated into coring works to gain understanding of rock failure mechanisms. This may help in the excavation of rock strata.</p>   | 2 | 2 | 4 |  |

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| G12 |  | Fractured and Weathered Rock   | Lower quality borrow pit material being unusable for intended purposes where rock is highly weathered and/or fractured. | 3 | 3 | 9  | <p><b>Design:</b> Weathering and fracturing state to be determined during GI. Plan for televiewer data to be incorporated into the works</p> <p><b>Contractor:</b> Performing adequate GI, ensuring that extracted materials are as predicted and that any significant weathered zones encountered during excavation are noted and treated accordingly.</p> | 1 | 2 | 2 |  |
| G13 | Unsuitable Terrain                     | If soft or adverse ground conditions are not considered then vehicles could become stuck or topple over. | Possible damage to equipment or injury to persons.  | 4 | 4 | 16 | <p><b>Design:</b> Micrositing of construction activities away from potential hazardous terrain where possible.</p> <p><b>Contractor:</b> Ensure that all plant routes and access are appropriate and suitable. Continually monitor the works to determine if serviceability is being maintained.</p>  | 2 | 3 | 6 |  |
| G14 | Chemical and particulate contamination | Chemical and particulate contamination/pollution of water courses, bodies of water and grazing areas.    | Impact upon livestock, wildlife and potential drinking water supplies.  | 3 | 3 | 9  | <p><b>Design:</b> Chemical testing to be performed on soil and rock samples. Analysis of construction methods and on-site processes</p> <p>Determination of high risk waterbodies and potential impact.</p> <p><b>Contractor:</b> Ensure best practice processes are applied for prevention of construction run-off and particulate contamination.</p>      | 2 | 3 | 6 |  |

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| G15 | Changing groundwater conditions | Rising groundwater levels during construction/ excavation | Possible instability of temporary slopes or flooding of excavation areas.                                    | 3 | 4 | 12 | <p><b>Design:</b> Groundwater monitoring to be performed during, and following, ground investigation. Provision for increase in water table to be allowed for within slope stability calculations.</p> <p><b>Contractor:</b> Allow for on-site dewatering provisions within excavations. Have a suitable water management plan on site. Ensure that no run off will infiltrate existing water courses. Notify SEPA where applicable.</p> | 2 | 2 | 4 |  |
| G16 | Earthwork Construction          | Instability of new embankment slopes                      | Instability of new embankment due to use of unsuitable fill, weak sub-formation, or appropriate slope angle. | 3 | 4 | 12 | <p><b>Design:</b> Specify appropriate design slope angles and suitable fill material. Consider the use of floating roads and liaise with sub designers / suppliers</p> <p><b>Contractor:</b> Inspect sub-formation. Adhere to proposed design. Alert design team where on site ground conditions differ from those predicted within Site Investigation.</p>  | 2 | 2 | 4 |  |
|     |                                 | Instability of new cutting slopes                         | Damage to cutting due to local instability of loose material.  | 3 | 3 | 9  | <p><b>Design:</b> Select appropriate slope angles.</p> <p><b>Contractor:</b> Inspect exposed faces. Adhere to proposed design. Alert design team where on site ground conditions differ from those predicted within Site Investigation.</p>  | 1 | 2 | 2 |  |



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|  |  | Embankments/Cutting heights | Possible damage to equipment or injury to persons due to falls | 3 | 4 | 12 | <p><b>Design:</b> Reduce embankment/cutting heights where appropriate. Select appropriate slope angles for design slopes. Carry out risk assessment for edge protection where appropriate at detailed design stage. Where appropriate consider use of floating roads</p> <p><b>Contractor:</b> Ensure edge protection is installed if required and site staff are made aware of any hazards raised. Continue monitoring earthworks to ensure serviceability is being maintained.</p> | 1 | 2 | 2 |  |
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