

Environmental

Stage 1 Peat Management Plan

Project Name – Cambushinnie 400kV Substation

Project Code – LT520 (60721943)

April 2025



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1 Introduction

1.1 Background

AECOM Limited (AECOM) have been appointed by SSEN Transmission (the Applicant) to produce a Stage 1 Peat Management Plan (PMP) with respect to the to the following developments:

- Proposed Cambushinnie 400 kV substation Consent will be sought under by the applicant under the Town and Countryside
- Overhead line tie overhead Line (OHL) tie-in from the Cambushinnie 400kV substation to the existing Beauly Denny OHL, – Consent will be sought by the applicant under section 37 of the Electricity Act;
- A new haul road that bypasses the need to route construction traffic through Braco village, the applicant will progress this under a separate Planning Application.

This PMP has been prepared as an overarching document covering the management of peat for the proposed Cambushinnie 400kV substation and OHL tie-in listed above (for the purposes of this document the 'project' is defined as the proposed Cambushinnie substation and the OHL tie-in). The proposed haul road is not considered as part of this document as the areas crossed are not recorded as a peatland habitat and negligible peat, if any, is anticipated. Although, if peat is encountered for the proposed haul road the principles as outlined in this PMP would be followed.

This document has been prepared to inform the planning authority Perth and Kinross Council (PKC and statutory consultees (Scottish Environment Protection Agency (SEPA) and NatureScot) of the proposed peat management method to be employed during the construction of the Project. This will involve the formation of the substation platform; installation of drainage systems including a SUDs basin; construction of new overhead line tie-ins from the new substation to the existing overhead lines; temporary overhead line diversion to allow construction of new substation and tie-ins; upgrade of the existing access tracks and provision of new access tracks; construction of Contractors Compound areas and laydown areas; and utility provision to the new substation (e.g. power, telecommunications, water, etc). **Figure 1a** and **Figure 1b** located within **Appendix A Figures** contains a plan showing the proposed works associated with the Cambushinnie 400kV Substation.

1.2 Site Description

The Site location is as shown on **Figure 1a** and **Figure 1b**, in **Appendix A Figures**. The Site being assessed as part of this report can be split into 2 distinct areas: (1) new substation, and overhead line diversion / tie-in and (2) existing access track.

Insert 1 below shows the sites considered for the proposed new substation during the site selection process, with Site 2 being the favoured final option. For the purposes of this report when referring to the main works area, this refers to the proposed new substation, and overhead line diversion / tie-in, proposed temporary Contractor's Compound and new access track leading from the existing Braco West substation to these developments. When referring to the existing access track, this means the track which leads from the B8033 to the existing Braco West substation, where upgrading and widening works are proposed.

The main works area is located just to the southwest and west of the existing Braco West Substation, on the southern facing slopes of Feddal Hill approximately 4.0 km west of the village of Braco. The National Grid Reference (NGR) to the approximate centre of this area is NN 79267 08941. The main works area is within land used for commercial forestry. Recent site visits observed much of the main works area contained felled trees which had been recently replanted although towards the western and southern boundaries mature and semi-mature trees were still present. Within the zone of mature trees in the western extent of the main works area, windblown fallen trees are also present. Mature and semi-mature trees were also noted just outwith the main works area boundaries to the east and southeast, as well as young trees being present immediately to the northwest of the northwestern boundary. Within the northwest of the main works area the northeast – southwest trending Beauly to Denny overhead electrical line is present.

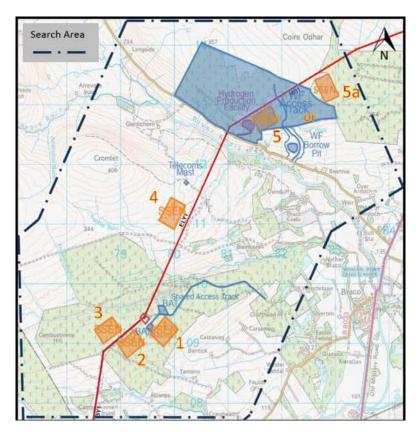
The existing access track extends from the existing Braco West Substation in the west (approximate NGR: NN 79671 09481) to the B8033 approximately 680 m southwest of the village of Braco in the east (approximate NGR: NN 82729 08923). As inferred by the name, the existing access track is currently present across the area. Observations made during a recent site visit indicated the existing access track was typically unbound comprising of gravel surfacing. Also observed were drainage ditches on either side of the access track. Along the length of the existing access track watercourses are noted to be crossed, as well as being present in the immediate vicinity. Where crossed by the existing access track this was noted to be through the use of culverts. The land surrounding the existing access track typically comprises commercial forestry with the woodland in various stages of management (i.e. felled, recently replanted, semi-mature and mature) along the route.

The Site is located within a hill range and therefore the topography varies across the Site. In general, the topography within the Site is recorded to fall from north to south, although locally the initial part of the existing access track from the existing Braco West Substation is recorded to fall from west to east.

1.3 Design Development

SSEN Transmission have developed internal guidance for the selection of new electricity transmission substation sites, with a staged approach undertaken with each stage being iterative and involving an increasing level of detail and resolution. Section 2.2 of the Environmental Appraisal for the proposed new substation¹, provides a summary of the Site Selection Process with an initial six potential sites, as identified in **Insert 1** below, reduced to three potential sites (Sites 1, 2 & 3) as part of the process. Each of the potential sites were assessed against a number of criteria including the presence of peatland, with the eventual outcome of the Site Selection Process identifying Site 2 as the preferred Option.

¹ SSEN Transmission (2025) Cambushinnie 400kV Substation – Environmental Appraisal, April 2025



Insert 1 Locations of Site assessed during Site Selection Procedure [Extract from SSEN Geo-Environmental Desk Study², [Figure 1]

As part of the Detailed Site Selection Process, SSEN Transmission produced a Geo-environmental Desk Study² which covered Sites 2 & 3 and reviewed information from the National Soil Map of Scotland³ and the Carbon and Peatland 2016 Map⁴. Based on the available information from these sources, Site 3 was suggested to be entirely underlain by peat, with Site 2 predominantly underlain by peat except for the southern extent which is recorded to be underlain by glacial till.

The ground investigation undertaken for the final site selection process to decide between Site Options 2 & 3 (discussed further in **Section 3** of this report) included boreholes, trial pits and peat probes along with various in-situ and laboratory tests. Based on the estimated peat depths from the probing alone, it was indicated that Site 2 would generate the least volume of peat during the site development and was thus considered the favoured option for the proposed substation. The results of the peat probing are discussed in detail in **Section 3** of this report.

When considering the two preferred sites for the proposed substation, the desk study produced by SSEN Transmission recorded Site 2 to fall to the southeast from approximately 250 m Above Ordnance Datum (AOD) to 235 mAOD with an average slope angle of approximately 12%. The topography at Site 3 was recorded to fall to the southeast from approximately 267 mAOD to 260 mAOD with an average slope angle ranging from 5 - 10%. Given the topography at Site 2 is steeper this would result in an increase in the footprint of the development due to the earthworks required, when compared to Site 3. However, this increase in footprint is not considered to offset the significant peat depth increase between Site 2 and Site 3, and therefore Site 2 is the most suitable option in relation to minimising peat excavation.

³ Scotland's Soils. National Soil map of Scotland. [Online] [accessed 12th August 2024] available from: National soil map of Scotland | Scotland's soils

² SSEN Transmission (2023) LT520 – Braco West Substation, Geo-Environmental Desk Study, Doc Ref. LT520-BRCW-GDS-CIV-001, Rev. 1.0, October 2023

⁴ Scotland's Soils (2016). Carbon and Peatland Map 2016. [Online] [accessed 12th August 2024] available from: National soil map of Scotland | Scotland's

1.4 Objectives

This Stage 1 PMP relates to the works associated with the construction of the new substation and associated infrastructure. The Stage 1 PMP has been prepared to satisfy the requirements of an Environmental Impact Assessment (EIA) (detailed in **Section 2** below) and to ensure that there has been systematic consideration of peat management and a quantitative assessment throughout the development process. It is acknowledged that the Proposed Cambushinnie 400 kV substation and OHL Tie-in are both considered non-EIA development, and as such Environmental Appraisals (EAs) are being undertaken for the project rather than an EIAs, however, there are no discernible differences relating to the management of peat between the principles and consideration for an EIA stage than for an EA stage, as both represent early development of the project prior to achieving planning approval.

The Stage 1 PMP provides background details on the possible peat deposits based on desk based sources, investigations on the peat extent and depth across the Site, information on the peat and substrate from ground investigation undertaken for the works, details on the approximate predicted volumes of peat that would be excavated during the construction activities associated with the works, an estimation on the characteristics of the peat that would be excavated, and the principles of how and where this excavated peat would be stored, reused and managed.

A Stage 2 PMP shall be prepared by the Principal Contractor and/or their Designer considering the management of peat for the works post-consent / pre-construction following further development and finalisation of the Project and on any further information becoming available (e.g. further ground investigation).

2 Stage 1 Peat Management Plan

This Stage 1 Peat Management Plan considers the excavation of peat and soils across the Site resulting from construction of the Project. It considers the potential for minimising excavation and disturbance to avoid or reduce any unnecessary surplus of soil and peat.

2.1 Design Principles

SEPA has provided the following hierarchy of design principles to minimise the impacts associated with excavation of peat:

- **Prevention:** The best management option for waste peat is to prevent or limit its production. This can be done through design, positioning infrastructure in shallower peat or through consideration of alternative construction methods or engineering solutions e.g. floated roads;
- **Reuse** (on site or off site for peatland restoration): Using excavated peat in construction or reinstatement (where suitable) e.g. restoration of temporary hardstanding areas, verge reinstatement, screening bunds, peatland restoration etc. SEPAs preference is for all peat excavated onsite to be reused within the site itself;
- **Recycling/Recovery/Treatment**: Where peat cannot be reused on site or off site for restoration, it may be used for agricultural benefit or treated/blended with other materials to form a soil substitute or used in other relevant works. This use would require a waste management license or registration as an exempt activity and compliance with the legal requirements;
- **Storage:** Temporary storage of peat on site (for example, during short periods in the construction phase) and then reuse. Should the peat become unsuitable for reuse during storage, it would be classed as a waste material;
- **Disposal (Waste):** Only after all other options have been explored and discounted would this option be considered and would require a licence from SEPA.

Three main stages within the development process are defined within Developments on Peatland: Guidance on the Assessment of Peat Volumes, Reuse of Excavated Peat and the Minimisation of Waste⁵and describe what data should be gathered and assessed to inform the site specific PMP:

- **Stage 1**: Environmental Impact Assessment (EIA) (or Environmental Appraisal for this project);
- Stage 2: Post-consent/pre-construction; and
- Stage 3: Construction.

This report has been prepared in accordance with the requirements for Stage 1.

As part of the development process, SEPA were contacted and provided Pre-Application Consultation advice which indicated that the Stage 1 PMP typically corresponds with the Outline PMP. One noticeable difference between the guidance provided above and the Pre-Application Consultation Advice is that disposal of peat has been stated as not being acceptable within the Pre-Application Consultation Advice. This differs from the hierarchy provided by SEPA in their Guidance Document - Developments on Peat and Off-Site Uses of Waste Peat⁶ which is still provided on SEPA's website and to which the above hierarchy has been based.

This report details the methodologies required to assess all potential surplus materials and presents estimates from the Designer of the expected volume of excavated materials and required reuse volumes for reinstatement and restoration purposes.

⁵ Scottish Renewables, SEPA (2012). Developments on Peatland: Guidance on the Assessment of Peat Volumes, Reuse of Excavated Peat and the Minimisation of Waste, Version 1.

⁶ SEPA (2017) SEPA Guidance - Developments on Peat and Off-Site Uses of Waste Peat, WST-G-052, Version 1, May 2017

2.2 Policy and Guidance for Peat Management

The significance of peatlands is most evident in their protection by various legislation, policy and local, national or international initiatives including, but not limited to:

- United Kingdom Biodiversity Framework (UKBF)7;
- Scotland's National Peatland Plan (SNH, 2015)8;
- European Council Habitats Directive 92/43/EEC (Council of the European Communities, 1992)⁹;
- Scottish Biodiversity List (SBL) (Scottish Government, 2013)¹⁰;
- European Council Water Framework Directive 2000/60/EC (Council of the European Communities, 2000)¹¹;
- Scottish Government discussion paper on the Management of Carbon-Rich Soils (Scottish Government, 2010)¹²;
- Scottish Soil Framework (Scottish Government, 2009)13;
- Climate Change Plan (2017-2032) (Scottish Government, 2017)¹⁴; .
- Scottish National Adaption Plan (2024-2029) (Scottish Government, 2024)¹⁵;
- Advising on peatland, carbon-rich soils and priority peatland habitats in development management (NatureScot, 2023)¹⁶; and
- Perth and Kinross Council Local Development Plan 2¹⁷.

SEPA has a statutory and legislative duty to ensure that where peat spoil is generated during construction; that it is stored, reused, treated or disposed of correctly; which may require authorisation or permits.

As such, the following documents were referred to for guidance during the preparation of this Stage 1 (Outline) PMP:

- Developments on Peatland: Guidance on the Assessment of Peat Volumes, Reuse of Excavated Peat and the Minimisation of Waste¹⁸;
- SEPA Regulatory Guidance Developments on Peat and Off-site Uses of Waste Peat¹⁹;

https://www.legislation.gov.uk/eudr/2000/60/contents [accessed July 2024]

⁷ United Kingdom Biodiversity Framework (UKBAP) (2024) UK Biodiversity Framework. Available at: https://data.incc.gov.uk/data/19a729f6-440e-4ac6-8894-cc72e84cc3bb/uk-biodiversity-framework.pdf [accessed July 2024]

⁸ Scottish Nature Heritage (2015) Scotland's National Peatland Plan. Available at: https://www.nature.scot/doc/scotlands-national-peatland-plan-workingour-future [accessed July 2024]

⁹ Council of the European Communities (1992) European Council Habitats Directive 92/43/EEC. Available at: https://eur-lex.europa.eu/legalcontent/EN/TXT/?uri=CELEX%3A01992L0043-20130701 [accessed July 2024]

¹⁰ Scottish Government (2013) Scottish Biodiversity List (SBL). Available at: https://www.nature.scot/doc/scottish-biodiversity-list [accessed July 2024] ¹¹ Council of the European Communities (2000) European Council Water Framework Directive 2000/60/EC. Available at:

¹² Scottish Government (2010) Scottish Government discussion paper on the Management of Carbon-Rich Soils. Available at: https://www.iucn-ukpeatlandprogramme.org/news/scottish-government-publishes-discussion-paper-carbon-rich-soils [accessed July 2024] ¹³ Scottish Government (2009) Scottish Soil Framework. Available at: https://www.gov.scot/publications/scottish-soil-

framework/#:~:text=Published%2021%20May%202009&text=This%20framework%20is%20aimed%20at,key%20stakeholders%20with%20an%20interest. [accessed July 2024]

¹⁴ Scottish Government (2017) Update to the Climate Change Plan (2018-2032). Available at: https://www.gov.scot/publications/securing-green-recoverypath-net-zero-update-climate-change-plan-20182032/ [accessed July 2024]

¹⁵ Scottish Government (2024) Climate change: Scottish National Adaptation Plan 2024-2029. Available at: <u>https://www.gov.scot/publications/scottish-</u> national-adaptation-plan-2024-2029-2/ [accessed December 2024]

¹⁶ NatureScot (2023) Advising on peatland, carbon-rich soils and priority peatland habitats in development management. Available at:

https://www.nature.scot/doc/advising-peatland-carbon-rich-soils-and-priority-peatland-habitats-development-management [accessed December 2024] ¹⁷ Perth & Kinross Council (2019) Local Development Plan 2, Adopted November 2019. Available at: <u>https://www.pkc.gov.uk/media/45242/Adopted-Local-</u> evelopment-Plan-2019/pdf/LDP 2 2019 Adopted Interactive.pdf?m=1576667143577 [accessed July 2024]

¹⁸ Scottish Renewables, SEPA (2012). Developments on Peatland: Guidance on the Assessment of Peat Volumes, Reuse of Excavated Peat and the Minimisation of Waste, Version 1.

¹⁹ SEPA (May 2017). SEPA Regulatory Guidance – Developments on Peat and Off-site Uses of Waste Peat, SEPA Guidance, WST-G-052. Version 1.

- Good Practice During Wind Farm Construction²⁰;.
- Peatland Survey. Guidance on Developments on Peatland²¹;
- Floating Roads on Peat²²;
- Constructed Tracks in the Scottish Uplands²³;
- Restoration Techniques using Peat Spoil from Construction Works²⁴; and
- Peatland Action Technical Compendium²⁵.

The 'Good Practice during Wind Farm Construction' document²⁰ was produced for wind farm developments, however, principles discussed can be considered as good practice for other similar scale developments in areas with similar infrastructure (Access Tracks) and typical ground conditions seen on wind farms, particularly peat and around the water environment.

Additionally, the publication of the National Planning Framework (NPF) 4²⁶ has illustrated the importance of more considered practices within peatlands. Policy 5 of NPF4 states:

c) Development proposals on peatland, carbon-rich soils and priority peatland habitat will only be supported for: i) Essential infrastructure and there is a specific locational need and no other suitable site; ii) The generation of energy from renewable sources that optimises the contribution of the area to greenhouse gas emissions reductions targets; iv) Restoration of peatland habitats.

d) Where development on peatland, carbon-rich soils or priority peatland habitat is proposed, a detailed site specific assessment will be required to identify: i) the baseline depth, habitat condition, quality and stability of carbon rich soils; ii) the likely effect of the development on peatland, including on soil disturbance; iii) the likely net effect of the development on climate emissions and loss of carbon.

As such, the details provided in NPF4 have been considered in this Stage 1 (Outline) PMP.

3 Ground Conditions

A Geo-Environmental Desk Study has been produced by SSEN Transmission¹ covering the two potential locations of the proposed substation considered during the early design stages. The existing access track was not included as part of the desk study produced. The desk study has therefore been reviewed and supplemented by other sources as highlighted in the below subsections.

3.1 Topography

An Ordnance Survey 5 m DTM file was obtained for the Site. This file was used to produce the contour data as shown on **Figure 2a** and **Figure 2b** within **Appendix A Figures**. A brief summary of the elevation data is also presented below.

The topographic data obtained indicates the main works area is located on the southern facing slopes of Feddal Hill. Within the area the land generally slopes southwards from approximately 260

²⁰ Scottish Renewables, Scottish Natural Heritage, SEPA, Forestry Commission Scotland, Historic Environment Scotland, Marine Scotland Science, AECoW (2019). Good Practice During Wind Farm Construction, 4th Edition.

²¹ Scottish Government, Scottish Natural Heritage, SEPA (2017). Peatland Survey. Guidance on Developments on Peatland

²² Scottish Natural Heritage, Forestry Commission Scotland (2010). Floating Roads on Peat, August 2010.

²³ Scottish Natural Heritage (2015) Constructed Tracks in the Scottish Uplands, 2nd Edition, updated September 2015

²⁴ EnviroCentre on behalf of SEPA (2011) Restoration Techniques using Peat Spoil from Construction Works, Final Report, July 2011.

²⁵ NatureScot (2024) Peatland Action – Technical Compendium [online], available: <u>https://www.nature.scot/doc/peatland-action-technical-compendium</u> [accessed July 2024].

²⁶ The Scottish Government (2024) National Planning Framework 4, available: <u>https://www.gov.scot/publications/national-planning-framework-4/</u> [accessed July 2024]

mAOD in the northwestern corner to approximately 204 mAOD in the southwestern and continues to fall southwards out with the Site boundary.

The topographic data indicates that the existing access track typically falls to the east, when the track trends east – west (i.e. from the existing Braco West Substation to a point approximately 1.90 km east of the existing substation) from approximately 250 mAOD to approximately 200 mAOD. From this point the existing access track typically trends northwest – southeast with the topography generally falling to the south from approximately 200 mAOD to approximately 130 mAOD by the B8033.

3.2 Geology and Soils Maps

The BGS GeoIndex²⁷ indicates the main works area is predominately underlain, from surface, by peat. The BGS records the peat to comprise "partially decomposed mass of semi-carbonized vegetation which has grown under waterlogged, anaerobic conditions." Within the south of the main works area the BGS records glacial till present from surface instead of peat. The BGS does not provide a description for the glacial till, however, it is anticipated to consist of a variable proportion of clay, silt, sand and gravel with cobbles and boulders. Just beyond the eastern extent of the main works area, there is an area where no superficial deposits are recorded by the BGS. This may indicate bedrock is close to surface in that area. Given the potential presence of shallow bedrock adjacent to the main works area, this may indicate that locally peat is directly overlying bedrock, which is likely to be weathered. As watercourses are recorded within the southeastern extent of the main works area there is potential for alluvial deposits to be present in the immediate vicinity of these watercourses. The alluvial deposites are described by the BGS as typically consisting of "unconsolidated clay, silt, sand and gravel deposited by a body of running water as sorted or semi-sorted sediment. They are typically described as soft to firm, compressible silty clay which can contain layers of silt, sand, peat and basal gravel."

For the existing access track, the BGS records the western extent on approaching the existing Braco West Substation to be underlain by peat. From approximately 600 m east-northeast of the existing Braco West Substation the existing access track is then recorded to be underlain by glacial till until a point approximately 500 m north-northwest of the B8033 where glaciofluvial ice contact deposits are recorded underlying the rest of the existing access track. The BGS describes the glaciofluvial ice contact as typically comprising "sand and gravel, locally with lenses of silt, clay and organic material." Recorded just to the northeast of the existing access track towards Whistlebrae a small area of peat is recorded by the BGS. As the existing access track crosses and comes into close vicinity of watercourses and waterbodies, there is the potential for the alluvial deposits to underly the access track local to these hydrology features.

The National Soil Map of Scotland²⁸ records the main works area to be predominantly underlain by Balrownie soils consisting of peaty gleyed podzols. Just within the northwestern corner of the main works area, and extending further north and west outwith the Site, the mapping indicates organic soils consisting of dystrophic blanket peat are present.

The National Soil Map of Scotland records the existing access track to be underlain by Balrownie soils consisting of peaty gleyed podzols from the existing Braco West Substation to a point approximately 1.9 km east-northeast, whereby Balrownie soils consisting of brown earths are then recorded.

The mapping provides further details on the recorded soils as follows:

- Balrownie soils, peaty gleyed podzols:
 - Parent Material: Drifts derived mainly from sandstones of Lower Old Red Sandstone age, often water-modified.

²⁷ BGS (2024) GeoIndex Onshore, Available: <u>https://mapapps2.bgs.ac.uk/geoindex/home.html</u> [accessed March 2024]

²⁸ NatureScot (2024) National Soil Map of Scotland Interactive Map Viewer, Available: <u>https://map.environment.gov.scot/Soil_maps/?layer=1#</u> [accessed March 2024]

- Land Form: Undulating uplands with gentle and strong slopes: non-rocky.
- Organic Soils, dystrophic blanket peat:
 - Parent Material: Organic deposits.
 - Land Form: Uplands and northern lowlands with gentle and strong slopes.
- Balrownie soils, brown earths:
 - Parent Material: Drifts derived mainly from sandstones of Lower Old Red Sandstone age, often water-modified.
 - Land Form: Undulating lowlands with gentle and strong slopes: non-rocky.

Review of the Carbon and Peatland 2016 Map layer⁴ of the National Soil Map of Scotland Interactive Map Viewer²⁸ indicates that there is no Class 1 or Class 2 areas of peat within the Site. The main works area is predominately underlain by Class 4 carbon and peatland soils (see description below). Locally in the northern half of the main works area, Class 5 carbon and peatland soils are also recorded.

The 2016 Carbon and Peatland Map layer⁴ indicates that the existing access track is predominately underlain by Class 0 carbon and peatland soils, with Class 5 soils recorded within the western half of the existing access track and Class 4 soils recorded as a thin strip around the Class 5 soils again within the western half. Elsewhere in the immediate vicinity of the existing access track, a small area of Class 5 soils is recorded just to the northeast at Whistlebrae.

The 2016 Carbon and Peatland map provides further details on the classifications recorded as follows:

- Class 0 Generally mineral soils where peatland habitats are not typically found.
- Class 4 Predominately mineral soils where some peat soil may be encountered. The areas are unlikely to be associated with peatland habitats or wet and acidic type soils. The area is also unlikely to contain carbon-rich soils.
- Class 5 Recorded as a peat soil, where the soil information takes precedence over the vegetation data. No peatland habitat is recorded within the area; however, the soils are likely to be carbon-rich and contain deep peat. Bare soils may also be present within the area.

3.3 Historical Mapping & Aerial Photography

A review of aerial photographs relating to the Site was undertaken using the historical aerial imagery time slider of Google Earth²⁹. The earliest available aerial photograph with good resolution was from 2005 and recorded that the main works area was within a conifer plantation with mature unfelled trees present throughout. The existing Braco West Substation had not been constructed, however, the existing access track leading to the Braco West Substation from the B8033 was present in its current day alignment.

By 2015 much of the conifers within the main works area had been felled, although many still remained particularly within the southeast and southwest of the area, and the Braco West Substation appears to be under construction with the northeast – southwest trending Beauly to Denny overhead electrical line also under construction. The access track located within the northwest of the main works area was present presumably to facilitate the construction of the Beauly to Denny overhead line as part of the Braco West Substation's development.

By 2017 construction of the Braco West Substation had been completed, as was the Beauly to Denny overhead line to the west of the existing substation. An additional branch of access track was present within the south and southwest of the main works area with all the existing tracks within the Site now present in their current day alignment.

By the most recent aerial photography available from 2021, the plantation within and surrounding the main works area was in the current day state of felling/replanting. Felling adjacent to the

²⁹ Google (2024) Google Earth [online] Available at: <u>earth.google.com/static/multi-threaded/versions/10.75.0.2/index.html?</u> [Accessed: March 2024]

existing access track had also taken place with this also noted to be in its current day state of felling/replanting. From this date, it appears the Site is in its current day state with the only differences being the planted trees developing to be larger than shown, and the unfelled forestry within the western extent of the main works area now having windblown fallen trees present.

Historic mapping obtained from Groundsure was reviewed as part of the Desk Study³⁰ produced for the proposed substation. The Desk Study is included as Appendix H of the EA for the proposed substation¹. The historic mapping available indicated the Site was typically undeveloped with mainly open moorland present from the earliest map reviewed 1862 – 1863 until around 2001, when the mapping starts to show the plantation forestry. From this date the mapping typically agreed within the aerial photography as summarised in the above paragraphs.

3.4 Field Observations

Site reconnaissance during peat probing works in March 2024 and a subsequent site walkover in May 2024 typically agreed with the information obtained through the desk-based research presented above. The main works area was partially occupied by semi-mature conifer plantation trees, with the remainder felled and containing new very young plantation. The surrounding areas to the north, south and west of the main works area are also occupied by semi-mature to mature conifer plantations. Towards the southwestern corner of the main works area windblown trees were noted. Where zones were cleared, felled stumps were still noted to be present with branches and other woodland debris noted on the ground surface. In the zones of the new plantation and semi—mature trees the furrows created as part of the plantation process were noted to be particularly prevalent.

Throughout the main works area drainage ditches and channels were frequently noted associated with the forestry land use of the area many of which can be seen from aerial imagery. In some cases, these ditches were approximately 2 m in depth. As a result of the drainage present the underfoot conditions were typically not noted as boggy or saturated, except for a strip following the line of the existing overhead line in the northwest of the main works area. Peat deposits were generally noted in the sidewalls of the ditches observed within the main works area. Towards the north and northwest of the main works area and further north outwith the Site boundary, the sidewalls contained peat across the full depth, (see **Insert 2**) which shows some agreement with the peat probing results in that zone and that deep peat deposits are present (peat probing results discussed in more detail in **Section 3.6**). To the south and west of the main works area, the peat observed in the sidewalls of the drainage ditches was not noted to be as deep, approximately 0.5 m observed overlying mineral soils (see **Insert 3**). Again this shows agreement with the peat probing results.

Observations made along the existing access track did not highlight peat exposure or peat soils within the sidewalls of drainage channels along the majority of the track. The exception to this was towards the western end of the track leading up to the existing Braco West Substation, where peat was noted in the sidewalls of drainage channels (see **Insert 4**). Along the route of the existing access track the surrounding land use was noted as being a combination of agricultural and forestry plantation in various stages of felling/replanting.

³⁰ AECOM (2025) Cambushinnie 400kV Substation, Geo-Environmental Desk Study, January 2025



Insert 2 - Photograph of peat exposure within a drainage ditch in northeast of main works area taken during site reconnaissance in March 2024



Insert 3 – Photograph of peat exposure within a drainage ditch in west of main works area (approximate NGR NN 78848 08907) taken during site walkover in May 2024



Insert 4 - Photograph of peat exposure within a ditch adjacent to the south of the existing access track towards its western extent on approach to the existing Braco West Substation (approximate NGR NN79868 09471) taken during site walkover in May 2024

3.5 Definitions of Peat

The Scottish Government Peat Landslide Hazard Best Practice Guide (2017) uses the following Joint Nature Conservation Committee (JNCC) report 455 'Towards an Assessment of the State of UK Peatlands' definition for classification of peat deposits:

- Peaty (or organo-mineral) soil: a soil with a surface organic layer less than 0.5 m deep;
- Peat: a soil with a surface organic layer greater than 0.5 m deep which has an organic matter content of more than 60 %; and
- Deep Peat: a peat soil with a surface organic layer greater than 1.0 m deep.

3.6 Peat Depth Assessment

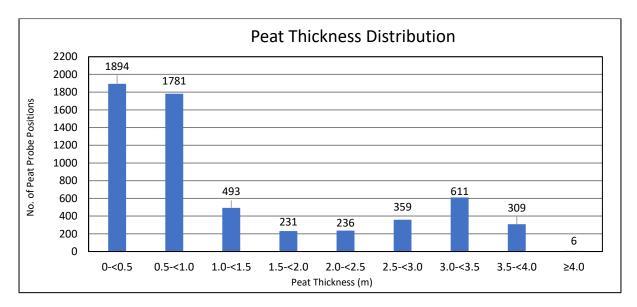
Peat depth assessments across the works areas were undertaken taking cognisance of the Peatland Survey Guidance²² available. Three phases of ground investigation to determine peat depths have been undertaken specific to the main works area, as noted below:

- The initial peat depth probing (4,795 probes) was undertaken by IGNE in November 2023 as part of a wider ground investigation which also included 17 boreholes and 20 trial pits. Probing was based on a 10 m grid generally and covered Site 2 and Site 3, as discussed in the Design Development section of this PMP (**Section 1.3**). The purpose of the peat probing was to determine the depth and extent underlying each of the potential sites, to determine which would be most favourable in relation to that aspect. The findings of Igne's 2023 Ground Investigation are included in their Factual Report dated March 2024³¹, which is included in Appendix C of AECOMs Geo-environmental Desk Study³¹.
- A further phase of peat depth probing (442 probes) was undertaken by AECOM in March 2024, based on a 10 m grid over an area extending south from the initial phase of peat probing. The purpose of the further probing was to cover areas of the wider main works area (Site 2 from the Design Development) which had not been previously investigated. Note that 847 probes were initially proposed for the further investigative works, however, due to safety concerns relating to undertaking probes within zones of windblown plantation and zones of dense semi-mature conifers this number was reduced. Also note that the probing undertaken did not extend to the full Site boundary, instead it only extended to cover the proposed works within the main works area at the time. A Technical Note providing full details on the additional probing undertaken by AECOM in March 2024 is provided as **Appendix C Peat Investigation Technical Notes**.
- A supplementary phase of peat depth probing (683 probes) was undertaken by AECOM in December 2024 and included 7 no. Russian Cores to identify composition of the peat deposits present. The supplementary probing was undertaken in 3 separate areas across the main works area, targeting areas not previously probed. The cores were taken adjacent to trial pits previously undertaken in order to obtain samples for laboratory testing and to build on the peat description which had previously been omitted. Note that ,1280 probes were initially proposed for the supplementary peat investigation works, however, this was reduced to 683 as reasoned in the following text. In the area in the southeast of the main works area, the probing was based on an original 10m x 10m grid, however, after initial probing the peat depths encountered were typically estimated to be <1.0m in thickness and as such the density of probes was reduced to typical 10m spacing in the northeast - southwest orientation and 20m spacing in the southeast - northwest orientation. The grid was increased back to a 10m grid where deposits >1.0 m were identified. In the area of the proposed OHL tie-in works, a typical 10 m probing grid was undertaken across the proposed OHL tower and working platform locations. The last area probed was to the immediate east of the main works area and south of the existing Braco West Substation. The probing was undertaken here to gain understanding of the peat depths adjacent to the main works area and was undertaken in a typical 20 m grid. Probing in this area was reduced from that initially proposed due to the presence of an underground 33 kV cable and due to the presence of dense forestry in the east of the area. A Technical Note providing full details on the supplementary probing undertaken by AECOM in December 2024 is provided as Appendix C Peat Investigation Technical Notes.
- Note it was an aspiration of the planning stage to undertake probing throughout the red line boundary of the main works area. However, due to access constraints relating to windblown

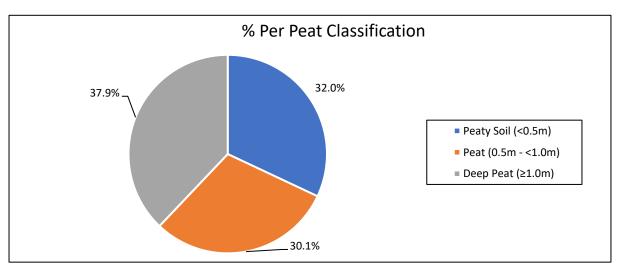
³¹ Igne Ltd (2024). Proposed Substation , Report on Ground Investigation, Report Issue Final, March 2024

trees and dense forestry this was not possible, and the probes undertaken represent the areas able to be accessed safely. Despite this, it is considered that a robust survey has been completed with sufficient number of probes completed. There will also be an opportunity Pre-Construction, once forested areas have been felled, to undertake further confirmatory probing in these areas.

Figure 3 within **Appendix A Figures** of this PMP shows the location of the probes in relation to the Project, as well as the probed depths. **Figure 4** within **Appendix A Figures** of this PMP provides a peat depth interpolation plan based on the peat probe results, noting that probes are not available for the full Site boundary. Note the peat depth interpolation was undertaken using the Inverse Distance Weighting methodology. **Plot 1** and **Plot 2**, on the following page, present the distribution of peat probes referenced above against the thickness range recorded.



Plot 1 – Peat Thickness Distribution



Plot 2 – Percentage Per Peat Classification

When considering both the IGNE and AECOM peat probe surveys undertaken, 2245 of the probes (~37.9% of the 5920 no. total probes) indicate deep peat >1.0m in thickness. Peat deposits between 0.5m and <1.0m thick were recorded in 1781 no. of the probes (~30.1% of the 5920 no. total probes, and peaty soil <0.5m thick were recorded in 1894 no. of the probes (~32.0% of the 5920 no. total probes).

In relation to the Project, the deep peat deposits were typically located out with the Site boundary to the northwest, as shown on **Figure 3** within **Appendix A Figures**, and underlying the Site 3 as discussed within the Design Development section (**Section 1.3**) of the PMP. Peat and peaty soil deposits were generally encountered throughout the main works area with no particular trend

noted. Localised areas of deep peat deposits were identified within the main works area typically along the northwestern and northern boundaries, within the south and towards the western extent. The deep peat deposits were typically recorded up to a depth of 3.0m, however, localised probes encountered deeper deposits with the maximum being >5.0m.

No probing was undertaken along the existing access track. However, peat probing will be undertaken along the access track pre-construction, where required to prove peat extent/depths in relation to any upgrade works. The results of this probing will be included in the Stage 2 PMP postconsent.

Along with the peat probe data described above, Igne's ground investigation also included exploratory holes (17 boreholes and 20 trial pits) which provide peat composition descriptions. This detail is described below. **Figure 5** within **Appendix A Figures** shows the locations of the boreholes and trial pits undertaken by Igne.

Although the ground investigation was undertaken to cover both Site 2 and Site 3 considered for the Design Development stage, all exploratory holes are considered relevant for the main works area as they lie within the Site boundary. The exploratory holes undertaken encountered peat deposits ranging from 0.20 m thick (BH14 New & TP13 New) to 2.0 m thick (BH13) with the thickness of peat generally greater towards the northwestern boundary of the main works area. Generally, the peat depths encountered were <1.0m in thickness with peat also locally recorded to be absent (TP10 New & TP21) with the average thickness of approximately 0.8 m. TP10 New was located within the southeast of the main works area and recorded topsoil overlying sand. TP21 was located in the northeast of the main works area, adjacent to the existing Braco West Substation, and recorded made ground comprising of sand overlying a soft clay. Locally in TP23 located within the northeast of the main works area, adjacent to the existing Braco West Substation, the peat was also recorded underlying a made ground comprising of sand. Typically, the exploratory holes undertaken as part of Igne's ground investigation agreed with the peat depths and extents recorded as part of the peat probing undertaken by both Igne and AECOM. The peat deposits across the main works area, as reported in Igne's Factual Report, are typically recorded to fall into two different types, as follows:

- soft dark brown spongy amorphous peat locally with cobbles and pieces of wood;
- soft dark brown spongy pseudo-fibrous peat locally with pieces of wood.

Within BH13 where the deepest peat deposits were recorded a very soft plastic amorphous peat was recorded underlying the soft spongy amorphous peat at a depth of 1.2 m. Note, however, BH13 is situated just outwith the Site boundary to the west. No discernible trends were noted in relation to the spread of amorphous or pseudo-fibrous peat across the main works areas. No intrusive ground investigation was carried out along the existing access track.

SLR Consulting Limited produced a Ground Investigation Report (GIR) for the Project³² which includes description on the peat findings and an engineering assessment. Generally, SLRs interpretation of the peat depths and extents agreed with the text provided in the paragraph immediately above. However, SLR note that although amorphous peat has been recorded within exploratory holes at several locations, they considered this to be more pseudo-fibrous in nature. No laboratory testing was undertaken on the peat. Included within Appendix D of SLRs GIR are geological longitudinal sections at three locations across the main works area, with the predicted platform level shown.

As part of the peat investigation works undertaken by AECOM in December 2024, 7 no. peat cores were taken, using a Russian Corer, to supplement the information already obtained and provide more detailed information on the composition of the peat present. These cores were taken at locations corresponding with trial pits completed by Igne as part of their ground investigation; at TP's 01, 03, 04, 09, 10, 11 & 13, so that the cores could be cross referenced with the peat already identified within the trial pits and provide more detailed information on the peat encountered. The depth of peat encountered as part of peat cores ranged from 0.25m to 1.0m bgl. Descriptions of

³² SLR Consulting Limited (2024) Braco West ASTI 400kV Substation, Ground Investigation Report, SLR Project No. 422.064790.00001, Revision: Final, 21 May 2024

the peat encountered were typically recorded as soft dark brown to brown fibrous to pseudo fibrous peat locally with occasional pieces of wood.

The Von Post Humification Scale was used as part of the logging of the peat cores recovered, whereby the peat is classified in accordance with its degree of humification (decomposition) between H1 and H10, with H1 being completely undecomposed and H10 being completely decomposed. The peat was also classified in accordance with its moisture content using a scale of B1 to B5, with B1 as dry peat up to B5 which is very high moisture content. The peat recovered from the coring was recorded in the range H4 (slight decomposition) to H5 (moderate decomposition) / B2 (low moisture content), although locally moisture contents of B1 (dry) and B3 (moderate) were also recorded. Geotechnical laboratory testing was undertaken on core samples recovered during the peat coring exercise. These typically indicated water contents ranging from 486% to 822% and organic matter content (OMC) ranging from 59.1% to 71.7%. Given the high OMC, generally \geq 60%, the peat present onsite would typically meet the minimum OMC required as per NatureScot's Guidance¹⁷ of 60% to be considered a peat. However, there were two locations corresponding to TP03 & TP13, where lower OMCs were recorded; 9.7% and 14.7%, respectively. At TP13 this means the peat likely falls more into a peaty topsoil. Whereas, at TP03 the depth of the test was towards the base of peat layer (0.42m - 0.60m) and may indicate the peat is shallower here coming into a more organic mineral soil at this depth. The descriptions of the peat recovered from the AECOM peat coring typically agreed with SLR Consulting's assessment that the peat present within the main works area is generally more fibrous in content than that recorded by Igne, with the peat being described as pseudo-fibrous rather than amorphous.

Further ground investigation is being proposed by the Applicant which would provide further information on the peat and groundwater condition across the Site, for use in the detailed design process. Details of this ground investigation will be included as part of the Stage 2 PMP post-consent.

3.7 Peat Conditions at Site

Field Observations

Peat deposits can be broadly subdivided into two layers: acrotelmic (upper layer) and catotelmic (lower layer); the boundary between the two layers is generally defined by the lowest level of the water table. Acrotelm represents the upper fibrous vegetation mat where accretion of material is occurring, with the decomposing vegetation below this comprising catotelm. Catotelmic peat is variable in characteristics, with the decomposition of fibres generally increasing with depth, ranging from semi-fibrous in nature through to amorphous where the original structure of the plant is completely decomposed. Water content can be highly variable and as fibre content affects structural strength of the material.

As highlighted in Section 3.6, the exploratory records available typically describe the peat deposits as one unit, with this ranging from amorphous peat in the Igne investigation to fibrous/pseudo-fibrous in the AECOM peat cores. Due to this discrepancy in descriptions and as no clear boundary between the acrotelm and catotelm can be identified from the exploratory hole records, for the purposes of this Stage 1 PMP, the simple accepted assumption of the upper 0.3 m peat thickness being acrotelm and the rest of the peat thickness being catotelm has been assumed. Further investigation across the main works area with description of peat (inclusive of Von Post Scale) and groundwater level observations within the peat would enable a better definition of the acrotelm / catotelm boundary. From observations, based on trial pit recovery and stability and field observations made during the peat probing by AECOM, it is considered that the majority of the excavated catotelmic peat has some structural strength i.e. it appears it can be excavated in intact lumps, and it will not be fluid. However, for the purposes of the Stage 1 PMP the catotelm is not considered suitable for verge restoration with only the acrotelm proposed for this purpose.

Peatland Condition Assessment

A ecological walkover has been completed by AECOM³³ ecologists which identifies the main works area (Site 2 and parts of Site 3) generally falls into habitat classified as coniferous woodland plantation. Locally within the main works area degraded blanket bog is recorded within the forestry ridings, particularly in the northeast. Degraded raised bog is also locally recorded within the northwestern corner of the main works area. Locally within the southwest of the main works area heathland comprising dry dwarf shrub heath is recorded within the forestry rides.

Modified / degraded blanket bog is an Annex I H7130 habitat under the Habitats Directive and is a priority habitat under the Tayside Local Biodiversity Action Plan (LBAP)³⁴. However, the walkover noted the narrow remnant strips of degraded bog are heavily affected by adjacent forestry and/or drainage, therefore they are not in good condition and so are not of high ecological value.

³³ AECOM (2023). LT307 Beauly Denny 2nd Upgrade – Braco West Substation, Preliminary Ecological Appraisal, Rev0, July 2023

³⁴ Angus Council (2016). Tayside Local Biodiversity Action Plan. [Online] [accessed 20th November 2024] Available from: <u>Tayside Local Biodiversity Action</u> <u>Plan 2nd Edition 2016-2026</u>

4 Sources of Peat During Construction

The following activities are likely to generate excavation of peat during the construction process:

- Construction of new access tracks;
- Construction of platform including earthworks;
- Construction of Temporary Construction / Contractors Compound and aggregate stockpile area;
- Installation of trenches, pipework, SUDS basin, etc. to support disposal of surface water and treated water;
- Construction of temporary access tracks to provide access to the platform from the Contractors Compound; and
- Construction of permanent and temporary OHL towers with associated construction of temporary access tracks and working areas to facilitate the construction of the temporary OHL towers and tie-in to existing OHL towers.

Upgrades to the existing access track are proposed primarily associated with widening the track. No probing has been undertaken along the existing access track, however, given the desk-based research into the geology along the existing access track (**Section 3.2**) and observations made during site visits (**Section 3.4**), minimal peat is anticipated to be encountered with deposits only anticipated towards the western extent of the existing access track. Given the works proposed and the peat deposits anticipated to be encountered, it is considered that the peat excavated as a result of the upgrades to the existing access track will be minimal and will likely be reused as verge restoration along the access track. Further peat probing will be undertaken pre-construction to confirm actual peat extents and depths along the existing access track. Further details of the peat to be excavated as a result of the upgrades to the upgrades to the existing access track. Further details of the peat to be excavated peat will be included as part of the Stage 2 PMP post-consent, following ground investigation works along the track and following the full maturity of the Project design. That being said, where peat is encountered the principles highlighted within this PMP will be followed.

All efforts to minimise impact on peat and requirement for excavation of peat – while taking account of other constraints – have been made in the design process, informed by desk study, walkover observations, peat depth surveys and peatland condition assessment.

4.1 New Access Track

The new access track to be constructed as part of the Project, as shown on Figure 1b (Scheme Layout Plan) in Appendix A Figures, will be an extension to the existing operational access track leading into the existing Braco West Substation. Earthworks will be required to construct the new access track due to the topography of the Site, especially towards the western extent where part of the track will be on side-long ground. Local undulations and the presence of deeper laying furrows will also require earthworks for the construction of the access track. This means cut and fill operations will be required to create the necessary gradient for the access track. Typically for peat depths <1.0 m access tracks are generally constructed by excavating to competent strata and where deeper peat deposits are encountered by constructing floating tracks where no peat is excavated. Note that the peat deposits along the proposed new access tracks as shown on Figure **3** in **Appendix A Figures**, are typically <1.0 m although there are local pockets deeper than 1.0m identified. These pockets of peat >1.0 m may be of too short a length for floating roads to be considered appropriate, and thus at this stage it is anticipated that the entire new access track will be constructed by excavating to competent strata. The potential for use of floating roads to reduce the required peat excavation where peat depths are >1.0mbgl will be considered further in the detailed design and proposed, where considered appropriate, in the Stage 2 PMP following consent.

The type of access track anticipated (i.e. complete removal of peat to competent strata from footprint of access track) has the potential to disrupt natural hydrological drainage pathways. Therefore, appropriate drainage will be designed to mitigate this. Further details of the drainage

will be developed as the detailed design of the Project is progressed and will be contained in the Stage 2 PMP post consent as well as being contained within the Construction Environmental Management Plan (CEMP).

Considering the footprint of the proposed permanent access tracks (\sim 32,90 m²) and associated peat depths underlying (determined through a peat model), a total peat volume of 38,030m³ is estimated to be excavated as part of the construction works of this permanent element.

As part of the temporary infrastructure required for the construction of the proposed works within the main works area, temporary access tracks are also required, as shown on **Figure 1b (Scheme Layout Plan)** in **Appendix A Figures**. The text within this section generally applies to the temporary access tracks also. Considering the footprint of the proposed temporary access tracks (~1,167) and associated mean peat depths underlying (0.75 m), a total peat volume of 875 m³ is estimated to be excavated as part of the construction works of this temporary element.

4.2 Substation Platform

The earthworks footprint associated with the substation platform, as shown on **Figure 1b** in **Appendix A Figures** will cover an area of approximately 105,000 m². As the proposed platform is on side-long ground, to produce a level platform, the earthworks have been designed to provide an approximate cut and fill balance. Peat is not considered a suitable strata for forming the proposed platform and as such will require removal across the footprint, with the excavation to continue until formation level or competent strata is encountered. Peat, along with other superficial deposits and rock will therefore be excavated as part of the Project. Peat depths across the area of the proposed substation platform, as shown on **Figure 3** in **Appendix A Figures**, are typically <1.0m, however, there are pockets of deeper peat recorded during the investigation works. As peat, and other organic soils, do not exhibit the appropriate geotechnical qualities to be considered for reuse as embankment fill all peat beneath embankments will be required to be removed to ensure the stability of the platform.

The siting of the proposed platform has been selected based on a number of criteria including peat depth and extent. As shown by the peat probing results, the selection of Site 2 over Site 3 (discussed in the **Design Development Section** of this PMP) was based on there being a lower average peat depth within Site 2 and to avoid the deeper peat deposits which dominant the Site 3 location.

Based on the estimated overall footprint of the platform (\sim 105,000 m²), including the associated earthworks and the peat depth investigations undertaken (used to create a peat model), a total peat volume of 76,239m³ is estimated to be excavated as part of the platform construction.

4.3 Drainage

As part of the drainage network for the Project, swales, filter drains and a SUDS basin is proposed to be constructed. Volumes of peat excavation relating to the swales and filter drains are not yet known as these are still in the design development stage, and as such details will be presented as part of the Stage 2 PMP post-consent.

Information relating to the proposed SUDS basin is available. The basin is located in the southwest of the main works area, as shown on **Figure 1b** in **Appendix A Figures**. The available ground investigation records and peat probe data, as shown on **Figure 3** in **Appendix A Figures**, indicate the proposed SUDS basin is typically underlain by peat deposits <1.0m in thickness, although the whole basin area has not been probed due to the presence of dense forestry causing access constraints.

To create the SUDS basin excavation is required to drop the overall ground level with peat expected to be stripped from the footprint of the basin area. Based on the footprint of the proposed basin (~12,670m²) and the peat depth as identified from the probing available in the area (used to create a peat model), it is estimated approximately 3,928m³ of peat will be excavated as part of the basin construction. Temporary Construction / Contractors Compound & Aggregate Stockpile Area

To create a level and solid surface for the Contractor to place facilities, materials, plant and equipment required during the construction of the Project, a Construction / Contractors Compound is required. For the Project, one area has been identified for this as shown on **Figure 1b** in **Appendix A Figures** located just to the northeast of the proposed platform. Due to the site of the Construction / Contractors Compound being on side-long ground, earthworks in the form of cutting and filling will be required to construct the compound area. The proposed Construction / Contractors Compound covers an area of approximately 31,828 m². Peat probing as well as intrusive ground investigation works have been undertaken within and immediately surrounding the proposed location of the Construction / Contractors Compound. The probing, as shown on **Figure 3** in **Appendix A Figures**, and intrusive works indicate the peat deposits throughout the proposed Construction / Contractors Compound are <1.0 m in depth and so are not considered deep peat. Given deep peat is not encountered in the proposed area, it is proposed that excavation of the proposed footprint (~31,828 m²), and estimated peat depths at the construction compound (mean depth ~0.75 m), an estimated peat excavation volume of 23,871m³ has been calculated.

As part of the Project a temporary aggregate stockpile area is required. This is located adjacent to the Construction / Contractors Compound in the same area shown on **Figure 1b** in **Appendix A Figures**. At this location all peat is proposed to be stripped to create an approximate level area that is suitable for stockpiling of aggregates. As with the Construction / Contractors Compound area, peat within the stockpile area has been estimated to be <1.0m in thickness (i.e. not considered deep peat) based on the peat probing, as shown on **Figure 3** in **Appendix A Figures**, and intrusive investigation records available. As such, considering the footprint of the proposed stockpile area and the estimated peat depths present, an estimated peat excavation volume of 4,095m³ has been calculated for its formation.

4.4 OHL Tie-In

As part of the OHL tie-in for the Project, an existing tower requires removal, and a new permanent tower constructed, as shown on **Figure 1b** in **Appendix A Figures**. To allow construction of the permanent OHL tie-in, a temporary OHL diversion is required. Works required and associated peat volumes are provided in **Section 4.7** of this PMP. Due to the nature of the towers and the requirement to ensure suitable stable foundation soil, peat will require total removal from underlying the tower foundations. Peat probing, as shown on **Figure 3** in **Appendix A Figures**, at the new tower location indicates peat up to 1.5m bgl and at the location of the existing tower removal up to 1.0m bgl. The estimated peat excavation required to enable construction of the new tower foundation (estimated footprint of 8m x 8m applied to 4 no. foundation pads per tower i.e. total area 256 m²) has been calculated as 384m³ (considering mean peat depth at tower of 1.5 m) and at the existing tower removal has been calculated as 16m³ (considering existing foundation pad size of 2m x 2m and four of these applied to the tower i.e. total area 16 m² with mean peat depth of 1 m). Note that the new gantries to tie-in to the proposed substation are covered by the platform construction for the substation.

Two new permanent access tracks are also required to allow access to towers, as shown on **Figure 1b** in **Appendix A Figures**. These are located at Tower 380R (the new tower) and Tower 381 (the tower to the west that is to remain in place). Peat probing, as shown on **Figure 3** in **Appendix A Figures**, along these access roads typically indicate peat depths <1.0m thick, although localised areas of deep peat up to 3.0m was also identified at Tower 381. Floating the access track may be considered for the track leading to Tower 381 where deep peat has been identified, however, the section where deep peat is present may be too short for floating to be considered effective or efficient. As such, at present complete removal of the peat underlying the access track footprint is proposed. This may be revisited as part of the Stage 2 PMP, post consent following design maturity and any further information becoming available. Considering the footprints of these access tracks (20m in length for track to Tower 380R and 80m in length for track to Tower 381 with both 5m in width) and the estimated mean peat depth across the areas (1m for Tower 380R and 2m for Tower 381), in total the estimated peat excavation required to allow construction of the access tracks has been calculated as 900m³.

Two temporary access tracks are required to allow access to existing towers as part of the tie-in, as shown on **Figure 1b** in **Appendix A Figures**. These are located at Tower 379 (to the east of the proposed new tower) and at Tower 380 (the tower to be removed as part of the Project). Peat probing, as shown on **Figure 3** in **Appendix A Figures**, at these locations indicate peat depths up to 1.0m. As part of the proposals the peat is proposed to be stripped across the area of the temporary access tracks to enable its formation. Considering the footprints of these access tracks (both 10m in length and 5m in width) and the estimated mean peat depth across the areas (1m for both), in total the estimated peat excavation required to allow construction of the temporary access tracks has been calculated as 200m³.

Temporary working areas around the existing and new towers, where works are proposed, is required to enable the Project, as shown on **Figure 1b** in **Appendix A Figures**. Peat probing, as shown on **Figure 3** in **Appendix A Figures**, around the towers indicates peat depths up to 1.0m for Towers 380 and 379, with peat depths up to 1.5m for Tower 380R and typically up to 1.0m at Tower 381 although locally depths up to 2.5m was recorded. The current design anticipates complete removal of all peat under the footprint of the temporary working areas. Based on the proposed footprints (60m x 60m for towers 379, 380 & 381 and 80m x 80m for tower 380R and 1.5m for towers 380R & 381) an estimated peat volume to be excavated of 22,200m³ has been calculated.

4.5 Temporary OHL Diversion

To allow the construction of the tie-in to the substation, a temporary diversion to the existing OHL is required as shown on **Figure 1b** in **Appendix A Figures**. This will require new temporary towers, temporary access roads and working areas around towers. Peat probing, as shown on **Figure 3** in **Appendix A Figures**, across the areas indicate estimated peat depths typically up to 1.5 m in thickness although deeper peat up to 3.0 m was locally recorded.

Complete removal of the peat is required for the foundations underlying the temporary tower foundations, with the design also requiring complete removal of the peat under the footprint of the temporary access tracks and working areas. Based on the footprint of the proposed works and the estimated peat depths an estimated peat volume to be excavated of 768m³ has been calculated for the temporary towers' foundations (considering two towers, each with 4 pad foundations estimated at 8m x 8m, and both with estimated mean peat depths of 1.5m), 950m³ has been calculated for the temporary access roads (length of track to tower 379T of 80m and length of track to tower 380T of 110m with both tracks 5m in width and both estimated with a mean peat depth underlying of 1m) and 16,000m³ has been calculated for the temporary working areas (both working areas 80m x 80m with mean peat depth at tower 379T estimated at 1.5m and at tower 380T at 1.0m).

5 Proposed Mitigation During Construction

There are four main types of impact on peat which can occur during construction. These are:

- Loss of structural integrity and peat strength, due to stripping off or damaging the surface vegetation turf, excavation, handling and transporting peat (particularly wet, subsurface peat);
- Erosion and gullying, caused by exposure and desiccation of bare peat surfaces primarily caused by water erosion, due to surface runoff after rainfall;
- Contamination, caused by leaks, spillages or inappropriate laydown of materials; and
- Peat slide, caused by laying wet peat on top of wet peat, laying other heavy materials (including excavated mineral soil or other construction materials) on top of wet peat or by inappropriate stockpiling, such as attempting to create stockpiles of peat that are too high, without bunding, engineering or geotechnical support.

A range of methods and control measures can be adopted to minimise the impact on peat which are described below and are designed to prevent these impacts from occurring. This best practice guidance should be adhered to throughout the construction phase.

5.1 New Access Track

The investigative works have identified peat along the route of the proposed access tracks although limited areas of deeper peat (>1.0 m depth) have been identified. It is therefore likely all new access tracks (permanent and temporary) will require excavation of peat. There may be opportunities to construct floating access tracks that would remove the requirement for peat excavation and limit the disruption of hydrological pathways, however, given the lengths of deep peat along the new access track are small, floating access tracks may not be considered suitable. This will be considered further in the detailed design stage and incorporated into the Stage 2 PMP post-consent, if used.

Excavated tracks require complete excavation of peat to a competent substrate with the excavated peat being reused immediately, where possible, or, where not possible to reuse immediately, requiring storage ahead of reuse.. Good practice guidance in association with excavated tracks is as follows:

- Trackside ditches should capture surface water (within the acrotelm) before it reaches the track;
- Any additional interceptor drains associated with the track construction should be shallow and flat bottomed (and preferably entirely within the acrotelm to limit drawdown of the water table); and
- Any stripped peat turves should be placed back in the invert and sides of the ditch to stabilise the banks and assist regeneration.

Although excavation is normally undertaken in peat of minor thickness, there is a possibility of minor slippage from the cut face of the peat mass. Accordingly:

- Free faces should be inspected for evidence of instability (cracking, bulging, excessive discharge of water or sudden cessation in discharge); and
- Where peat is to be stored adjacent to an excavation, stability analysis should be conducted to determine Factor of Safety (FoS) and an acceptable FoS adopted for loaded areas.

Due to the topography, the access tracks will be formed on sidelong ground in places, with cuttings formed within superficial deposits and supported on embankments formed by site won material. The gradient of the side slopes would allow the placement of peaty soil (fibrous) onto cut slopes. However, where rock has been exposed in cut slopes, there will be no opportunity for the re-use of excavated peat.

Monitoring would be scheduled post construction to ensure that hydrological pathways and track integrity have been suitably maintained.

5.2 Excavation

As described previously there are two distinct layers of peat; the acrotelm (including the vegetated turves) and the catotelm. These distinct layers should be recognised during peat excavation and reuse activities.

As peat is to be reused or reinstated with the intention that its supported habitat continues to be viable, the following good practice applies:

- Peat should be excavated as turves, including the acrotelm (surface vegetation) or as blocks of catotelmic peat;
- The acrotelm should not be separated from its underlying peat, if possible, the full depth of acrotelm layers from the top surface of the peat deposit should be excavated together;
- Turves should be as large as possible to minimise desiccation during storage;
- Mineral soils should be transported and stored separately to reduce the risk of contamination of excavated peat; and

• The timing of excavation of peat should avoid periods of very wet weather and multiple handling of peat should be avoided to reduce the risk of peat losing its structural integrity.

5.3 Temporary Storage

Due to the programming of the works, temporary peat storage would be required as part of the Project where reinstatement/reuse is not immediately possible. Where required, proposed temporary storage areas are immediately adjacent or close to the area of excavation. Peat storage will only be required where reinstatement/reuse is not immediately possible, and all stored peat will be reinstated/reused within the Site by the end of the construction phase. Where temporary peat storage is required (e.g. for the temporary contractor's compound), in the worst case situation this would typically be for a number of years to allow completion of the works, although a construction phase programme is still to be developed to detail when reinstatement/reuse of the peat would be undertaken. This programme will be developed post consent with any timings to be provided as part of the Stage 2 and Stage 3 PMPs. To ensure that storage locations are suitable in terms of environment, construction practicality and safety, the precise location of temporary peat stockpiles will be determined at a Site level following consideration and assessment of suitable areas by the ECoW, geotechnical engineer and Contractor's temporary works engineer. The guiding principles below would be followed in relation to the peat storage:

- Where possible peat should be excavated, stored and reused as turves. The turves should be stored green side up to avoid drying out of the peat and encourage regrowth;
- Peat turves should be stored in wet conditions or irrigated to prevent desiccation (once dry, peat will not rewet);
- Stockpiling of peat should be in large volumes to minimise exposure to wind and sun but with due consideration for slope stability;
- Excavation and handling of peat can cause the internal structure of the peat to deteriorate. The peat can therefore be a greater hazard when temporarily stored with this loss of structure and strength requiring to be considered and monitored during temporary storage;
- Where minimal peat underlies the ground surface, the peat should be stripped back to the underlying superficial deposits or rock to allow stockpiling to be undertaken to a maximum of 1.0 m thick (unless otherwise agreed by the Geotechnical Engineer). Where peat is approved to be stored higher than 1.0 m this should not be stored greater than 2.0 m, as this can lead to stability issues and could damage the peat itself, and all peat material underlying the proposed storage area will require removal prior to the stockpile being formed to ensure sliding risk is controlled;
- Stores of non-turf (catotelm) peat should be bladed off to reduce the surface area and desiccation of the stored peat;
- Stockpiling of peat should be located away from any watercourses;
- Cut off ditches and suitable treatment systems should be considered and installed at temporary storage areas, to ensure any leachate or sediment from stored peat does not reach any watercourse;
- Where sustained snowfall and freezing conditions occur, peat excavation may be temporarily halted based on the advice and professional judgement of the ECoW and/or a suitably experienced geotechnical engineer. The decision to restart work would be based on the thawing condition of the site and general meteorological conditions;
- Monitor areas of peat/storage during period of wet weather, or during snow melt, to identify early signs of peat instability; and
- Temporary stockpiles should be inspected weekly. If non-compliance is noted, corrective actions must be taken.

5.4 Handling

A detailed storage and handling plan will be prepared by the Principal Contractor as part of the Stage 3 PMP. This document would include and highlight:

- Best estimate excavation volume at each infrastructure location (including peat volume split into acrotelm or `turf' and catotelm);
- Careful handling is essential to retain any existing structure and integrity of the excavated materials and thereby maximise the potential for excavated material to be reused
- Volume to be stored locally and volume to be transferred directly on excavation to restoration areas elsewhere to minimise handling;
- During peat handling, efforts will be made to prevent unnecessary trafficking over peat;
- Appropriate scale plant will be used, double handling will be avoided (wherever possible), and a monitoring programme will be installed to ensure mixing of peat and mineral soil is avoided;
- Location and size of storage area relative to natural peat morphology and drainage features; and
- Irrigation requirements and methods to minimise desiccation of excavated peat during temporary storage.

These parameters will be determined by the Principal Contractor prior to construction.

5.5 Transport

Movement of turves should be kept to a minimum once excavated, and therefore it is preferable to transport peat planned for translocation and reinstatement to its destination at time of excavation.

If HGVs are used for transporting non-peat material and excavated peat, measures should be taken to minimise the risk of cross-contamination.

5.6 Reinstatement & Restoration of Disturbed Areas

As part of the Project, the current design considers all peat excavated as part of the works will be reused within the Project. All temporary works areas (e.g. access tracks, construction/contractor's compounds, working areas, etc.) would be fully reinstated to pre-construction levels as soon as possible once the temporary infrastructure is no longer needed. For the peat excavated as part of the permanent works, it is proposed this will be reused for verge and slope dressing as well as within peat restoration areas within the Site. Further detail on the peat reuse/restoration areas proposed as part of the design, including estimated volumes, is provided in **Section 6** of this PMP.

The Landscape Management proposed within the EA (refer to the Landscape and Habitat Management Plan (LHMP) within **Appendix F** of the EA) for the Project, identifies the peatland restoration areas where mass placement of peat is to be undertaken. The Landscape and Habitat Restoration Plan drawing contained within LHMP identifies designated areas within the Site where peatland restoration is proposed to be undertaken, with these noted to be to the south and west of the proposed substation platform. Note that the restoration areas identified by the LHMP are the areas where mass placement of peat is proposed. Further peatland restoration works in the form of drainage ditch and furrow blocking, through infilling with peat, to restore natural drainage conditions are also proposed throughout the main works area of the Site. All peatland restoration areas are proposed to be restored taking cognisance of Peatland Action techniques and best practice³⁵.

The following shall be considered when considering reinstatement and restoration of disturbed areas of peat:

- Undertake reinstatement/relocation and revegetation works as soon as possible;
- Where required, consider exclusion of livestock and deer from areas of site undergoing restoration;

³⁵ NatureScot (2024) Peatland Action, Technical Compendium, available: <u>https://www.nature.scot/doc/peatland-action-technical-compendium</u> [accessed December 2024]

- As far as is reasonably practicable, restoration should be carried out concurrently with construction rather than at its conclusion; and
- To ensure safe reuse, all peatland restoration works should be subject to assessment by a
 geotechnical specialist, ensuring that emplacement of peat will not increase the likelihood of
 peat instability.

The areas proposed for reuse and restoration are typically considered to be degraded peat, due to the forestry activities, and as such present an opportunity for restoration through peat reuse. The hydrological regime within each reuse area will require to be maintained or improved to ensure the groundwater level is sufficient to sustain the peat.

Final details on the proposed reuse / restoration areas will be provided within the Stage 2 (Detailed) PMP post-consent, following any further information becoming available (e.g. ground investigation) and on completion of the detailed design.

6 Site Based Excavation & Management Assessment

6.1 Estimated Peat Excavation

Based on the details of the Project, the total volume of peat to be excavated has been calculated and is summarised in **Table 6-1**.

The estimate also includes a breakdown of the acrotelmic and catotelmic peat quantities based on the assessed proportion of each material as discussed earlier in the **Section 3.7**.

Note that the excavated volumes relating to the Project have been provided by the Designer for the works and not calculated by AECOM. The volumes provided are noted to be approximate and will require refinement on further data becoming available. This further refinement will be taken into consideration within the Stage 2 PMP post consent/pre-construction.

| Description | Total Estimated Peat Volume (m³) | Estimated Acrotelmic Peat Volume (m³) | Estimated Catotelmic Peat Volume (m³) | | | |
|---|--|--|--|--|--|--|
| | Permanent | | | | | |
| Substation Platform | 76,239 | 31,493 | 44,746 | | | |
| Access Tracks | 38,030 | 9,870 | 28,160 | | | |
| SUDS Basin | 3,928 | 3,801 | 127 | | | |
| OHL – Tower Foundations | 384 | 77 | 307 | | | |
| OHL – Access Tracks | 900 | 150 | 750 | | | |
| | Temporary | 1 | | | | |
| Contractors / Construction Compound | 23,871 | - | - | | | |
| Access Tracks | 875 | - | - | | | |
| Aggregate Stockpile Area | 4,095 | - | - | | | |
| OHL Permanent Tie-In - Access Tracks | 200 | - | - | | | |
| OHL Diversion – Access Tracks | 950 | - | - | | | |
| OHL Diversion – Tower Foundations | 768 | - | - | | | |
| OHL Permanent Tie-In – Working Areas | 22,200 | - | - | | | |
| OHL Diversion – Working Areas | 16,000 | - | - | | | |
| OHL Tie-in – Removal of Existing Tower Foundations | 16 | - | - | | | |
| Total | 188,456 | 45,391 [#] (only accounts for permanent works) | 74,090 [#] (only accounts for permanent works) | | | |

Table 6-1 - Excavation Materials Management Plan

* No bulking factors have been applied to the volumes

* Volumes do not take into account temporary works peat volumes

6.2 Peat Reuse & Restoration

This section sets out measures to reuse peat, inclusive within peatland restoration areas, and the expected peat reuse volumes. Peat reuse and restoration is proposed within the Site, concentrated within the main works area as follows:

- Dressing of slopes and verges;
- Resoiling of SUDS Basin;
- Three specific peatland restoration areas proposed for peat upfill as shown on Figure 1b in Appendix A Figures; and
- Peatland restoration through reinstatement of drainage conditions (i.e. drainage ditch and furrow blocking) created during the forestry process to natural.

Note that all peat excavated as part of the temporary works identified would be fully reinstated to pre-construction levels as soon as possible once the temporary infrastructure is no longer needed. Therefore detailed text relating to peat volumes proposed for reinstatement within the temporary works are not presented within this subsection.

6.2.1 Slope & Verge Dressing

Acrotelmic peat excavated as part of the Project is proposed to be used in part in the dressing of exposed slopes and verges of earthworks. Resoiling along the proposed platform and new access track will be undertaken at 0.20 m thickness for slopes and 0.35 m thickness for verges. **Table 6-2** below presents the estimated acrotelm that can be reused in dressing activities on the permanent works.

| Area | Resoiling at 0.20m thickness | Resoiling at 0.35m thickness |
|--------------------------------|------------------------------|------------------------------|
| Platform (m²) | 9,739 | 12,416 |
| Access Track (m ²) | 12,567 | 9,759 |
| Totals (m ²) | 22,306 | 22,175 |
| Total Volumes Peat Reuse | 4,461 | 7,761 |
| (m ³) | 12, | 222 |

Table 6-2 – Peat Resoiling Reuse

6.2.2 Resoiling of SUDS Basin

On completion of the excavation of the SUDS Basin to the required level, it is proposed that the majority of the peat excavated will be reused in resoiling the exposed subsoils. For the purposes of the resoiling only acrotelmic peat is considered for this reuse with 0.15 m thickness proposed to be placed on the slopes and bank of the basin and 0.30 m thickness proposed to be placed at the base of the pond. **Table 6-3** below presents the estimated acrotelm that can be reused in the resoiling activities for the proposed SUDS Basin.

| Table 6-3 | - Peat Resoiling | of SUDS Basin |
|-----------|------------------|---------------|
|-----------|------------------|---------------|

| | Resoiling Volume (m ³) | Notes | |
|----------------------------|------------------------------------|-----------------------------------|--|
| Resoil of completed slopes | 1,295 | Resoil Area: 4,176 m ² | |
| Reson of completed slopes | 1,295 | 150 mm resoil [slopes at 1v:3hz] | |
| Resoil to basin banks | 321 | Resoil Area: 2,138 m ² | |
| Resoli to basili baliks | 521 | 150 mm resoil [slopes at 1v:3hz] | |
| Resoil to basin base | 1 270 | Resoil Area: 4,567 m ² | |
| Result to basin base | 1,370 | 300 mm resoil | |

| Total Acrotelm Reuse | 2,986 | - |
|----------------------|-------|---|
| | • | |

6.2.3 Peatland Restoration Areas

Three peatland restoration areas (West Restoration Areas, South Restoration Area 1 & South Restoration Area 2) are proposed as part of the Project as shown on Landscape and Habitat Restoration Plan contained within LHMP (**Appendix F** of the EA) and as indicated on **Figure 1b** within **Appendix A Figures**.

The restoration within the areas is proposed to be achieved through upfill on the existing peat with thickness of peat deposition on top of the existing peat proposed between 0.6 m and 0.8 m, as indicatively shown on Drawing "Proposed Typical Restoration Areas" within **Appendix B** - **Designers Peat Reuse/Restoration Areas** As shown on the drawing, permanent access tracks through the peatland restoration areas are proposed. These are to provide access to allow the deposition of the peat and will also act to provide geotechnical support for the deposited peat. At the extremities of the restoration areas the deposited peat is proposed to be graded and dressed to match the existing slope. At this stage the upfill restoration areas still require a geotechnical design and should therefore be considered indicative and preliminary subject to changes during the detailed design.

In addition to the restoration as highlighted above, within South Restoration Area 1 it is also proposed to carry out further restoration through depositing peat behind (north side) the earth mound, as shown on **Figure 1b** in **Appendix A Figures**, and referenced in Section 5.3.2, Appendix F – Landscape and Habitat Management Plan of the EA Report. It is estimated that the depth of peat upfill behind the earth mound would be 0.7 m. Note that the upfill of peat behind the earth mound is not already taken into consideration within the South Restoration Area 1 peat volumes presented in the table below. This is separate with the peat proposed to be deposited overlying existing peat and not overlying peat deposited as part of the South Restoration Area 1 works.

| Area | Estimated Depth of Upfill (m) | Approximate Area (m²) | Total Peat Re- use Volume (m³) | Acrotelm Peat Re- use Volume (m ³) | Catotelm Peat Re-use Volume (m³) |
|--------------------------------|----------------------------------|--------------------------|--------------------------------------|--|--|
| West Restoration Area | 0.8 | 17,350 | 13,880 | 5,205 | 8,675 |
| South Restoration Area 1 | 0.8 | 53,275 | 42,620 | 15,983 | 26,637 |
| South Restoration Area 2 | 0.6 | 19,634 | 11,780 | 5,890 | 5,890 |
| Behind Earth Mound | 0.7 | 12,600 | 8,820 | 3,780 | 5,040 |
| | | Totals | 77,100 | 30,858 | 46,242 |

Estimated peat reuse volumes through depositing in the peat restoration areas is presented in **Table 6-4**.

Table 6-4 – Peat Reuse Volumes for Peat Restoration Areas

6.2.4 Restoration of Drainage Conditions

The main works area of the Site has generally been subject to commercial forestry. This has resulted in the remains of ploughed furrows and drainages ditches being present across the Site. By blocking and infilling these furrows and drainage ditches the hydrological regime can be improved to support the recovery of the degraded peat currently present. It is proposed that peat generated as part of the Project can be used to block the furrows and drainage ditches in areas of the main works area that are outwith the proposed works locations (both temporary and permanent) and the peatland restoration areas.

At present, detailed surveys of the Site are not available which means quantifying the capacity of the furrows and drainage ditches is difficult. However, an estimate of the capacity has been carried out using available aerial imagery from Google Earth³⁰ to provide an indicative understanding on the approximate volumes of peat which can be reused.

Drainage Ditches:

A typical V-ditching bucket for the size of excavator presumed to have been used for the creation of the drainage ditches has a depth of 1.1 m, base width of 0.3 m and top width of 1.5 m. This produces a cross-sectional area of 0.99m².

As the extent of the drainage network within the main works area is currently not defined in detail, examination of aerial images available on Google Earth³⁰ has been undertaken to provide an estimate of the density of the ditch network within the main works area. Due to the surface coverage (i.e. forestry, vegetation and brash) across much of the main works area, the drainage ditches are only clearly visible within the northwest of the main works area, extending outwith the main works area to the northwest, either side of the existing access track. Using the drainage ditches visible within the study area it is estimated that there is approximately 7,015 m of ditch present within an area of approximately 10.92 ha. This gives an estimated drainage ditch density of 642 linear metres of ditch per hectare which is indicatively assumed to apply for the whole mina works area.

The total area of the main works area of the Site is approximately 68 ha, with the area where works are currently proposed as part of the Project being approximately 42 ha. This leaves approximately 26 ha available for infilling of drainage channels. Multiplying the area available for infilling drainage ditches (\sim 26 ha), the estimated ditch density per hectare (\sim 642 linear metres of ditch per hectare) and the estimated cross-sectional area of the assumed ditching bucket used (\sim 0.99 m²), gives an estimated volume of peat reuse within the drainage ditches in the main works area of 16,624m³ (accounting for rounding in other calculations). This equates to 6,816m³ of acrotelm reuse and 9,808m³ of catotelm reuse.

Furrows:

A furrow creates a plough line whereby the peat arisings are pushed away from the ploughs double mouldboard to form ridges either side of the plough furrow. For the purposes of estimating the capacity of the peat furrows, based on experience from projects in forestry environments it has been assumed the void is approximately 0.75 m wide by 0.45 m deep, giving a cross-section area of approximately 0.34m².

As with the drainage ditches, the extent of the furrows present within the main works area is currently not defined in detail. Examination of aerial images available on Google Earth³⁰ has therefore been undertaken to provide an estimate of the density of furrows within the main works area. Due to the surface coverage (i.e. forestry, vegetation and brash) across much of the main works area, the furrows are only clearly visible within the northwestern corner of the main works area, extending outwith the Site boundary to the northwest. At this location the furrows are running in parallel within the drainage ditches present. Based on the study area, it is estimated there is approximately 2,905 m of furrows in an area of approximately 1.82 ha. This gives an estimated furrow density of 1,595 linear metres of furrow per hectare which is indicatively assumed to apply for the whole main works area.

It has been estimated that 22.86 ha of the main works is undisturbed land where no further works are proposed. As the whole main works would not contain furrows due to, for example, firebreaks,

track verges, etc. it is assumed only 80% of the undisturbed land would be available for furrow infilling. Multiplying the available area estimated for furrow infilling (22.86 ha), the reduction in area likely to have furrows (80%), the estimated furrow density per hectare (1,595 linear metres of furrow per hectare) and the estimated cross-sectional area of the assumed furrow (0.34 m²), gives an estimated volume of peat reuse within the furrows of the main works area of 9,845 m³ (accounting for rounding in other calculations). This equates to 6,563m³ of acrotelm reuse and 3,282m³ of catotelm reuse.

6.2.5 Peat Reuse Summary

Table 6-5 provides a summary of the peat volumes estimated to be able to be reused as part of the Project.

| Area | Total Peat Re-use Volume (m ³) | Acrotelm Peat Re- use Volume (m ³) | Catotelm Peat Re- use Volume (m³) |
|-----------------------------|---|---|--------------------------------------|
| Verge & Slope Dressing | 12,222 | 12,222 | 0 |
| Resoiling SUDS Basin | 2,986 | 2,986 | 0 |
| West Restoration Area | 13,880 | 5,205 | 8,675 |
| South Restoration Area 1 | 42,620 | 15,983 | 26,637 |
| South Restoration Area 2 | 11,780 | 5,890 | 5,890 |
| Behind Earth Mound | 8,820 | 3,780 | 5,040 |
| Drainage Ditches | 16,624 | 6,816 | 9,808 |
| Furrows | 9,845 | 6,563 | 3,282 |
| Totals | 118,778 | 59,445 | 59,333 |

Table 6-5 – Summary Peat Reuse Volumes

6.3 Peat Balance

The Stage 1 PMP estimates 188,456m³ of peat will be generated by the construction activities of both the permanent and temporary works.

All peat excavated from temporary areas is anticipated to be completely reinstated as soon as possible on completion of the permanent infrastructure to which they are associated, when the temporary infrastructure is no longer required. As per **Table 6-1** this equates to a total volume of peat reuse in the temporary areas of 68,975m³. This volume of peat will require temporary storage for a period of time until the temporary areas are no longer in use and can be restored.

In relation to the peat requiring permanent relocation, this volume is estimated as $119,481m^3$ of which $45,391m^3$ is estimated to be acrotelm and $74,090m^3$ is estimated to be catotelm.

Table 6-6 below shows the peat balance for the Project based on the estimated excavated peat volumes requiring permanent relocation and the currently identified peat reuse/restoration areas.

| Area | Total Volume (m ³) | Acrotelm Volume (m ³) | Catotelm Volume (m ³) |
|------------------|--------------------------------|--------------------------------------|--------------------------------------|
| Excavated | 119,481 | 45,391 | 74,090 |
| Identified Reuse | 118,778 | 59,445 | 59,333 |

Table 6-6 - Proposed Peat Balance

| Required to be Reused | 703 | -14,054 | 14,757 |
|--------------------------|-----|---------|--------|
| Reuseu | | | |

As can be seen from the above table the peat balance for the Project indicates a very small peat surplus which could be placed on the peat restoration areas, with no significant impact. It is acknowledged that the peat balance currently shows a deficit of acrotelm and a surplus of catotelm, however, it is considered that the acrotelmic peat could be thinned (by placing the available acrotelm turves in pockets across the deposited catotelm) at certain strategic locations (e.g. for the furrow and drainage ditch blocking/infilling and/or around the edges of the peat restoration areas) where the availability of adjacent flora should encourage rapid recolonisation. This should make the excavated acrotelm spread further and therefore reduce the overall acrotelm deficit as well as reduce the surplus of catotelmic peat. The balance of the acrotelmic and catotelmic peat will be considered further as part of the Stage 2 PMP, post-consent, following design maturity and further investigation to better define the acrotelm / catotelm boundary.

7 Monitoring & Inspection

The construction phase of the Project would be supported by a geotechnical engineer and ECoW. There would be frequent, routine and regular inspections of peat in all stockpiles and temporary storage areas as part of the PMP audit process. Inspections would assess in situ peat physical conditions, integrity of containment and temporary drainage conditions, and they would seek to confirm that stockpile design and management was adequate to prevent erosion and peat slide. These inspections would take place weekly (at a minimum) during stockpile creation and storage.

Should any problems be observed during regular visual inspections of peat stockpiles, this would invoke implementation of an appropriate corrective action which would be recorded and monitored for effectiveness. Types of corrective actions would include, but would not necessarily be limited to:

- modification of temporary drainage;
- additional or modified bunding;
- incorporating of sediment fencing if required; and
- light re-grading to correct any areas of surface erosion, etc.

Regular, frequent inspections of peat conditions during construction and restoration phases of work would be carried out by the Geotechnical Engineer and ECoW as follows:

- Peat surface, peat profile and peat consistency conditions assessments would be carried out as part of ground investigations prior to the start of construction. This information would provide detailed information on the baseline conditions for each part of the infrastructure footprint.
- Restored peat conditions would be inspected immediately after restoration to ensure that the methods detailed in the PMP had been correctly implemented and to inform any corrective actions should they be required.
- The physical condition of peat would be retained as carefully as possible both at the peat storage and the peat restoration stages. This is particularly important for vegetation establishment.
- Within 3 months of completion of works in any area, the ECoW inspects the reinstatement efforts to determine satisfactory placement of sub-soil, topsoil and turves.
- The ECoW (or other qualified person) undertakes a final inspection of all reinstated areas at the end of the first growing season following completion of reinstatement.
- The ECoW should complete a daily diary of onsite activities which would be compiled within a monthly ECoW report which will include information relating to peat reinstatement, these reports will be available at the request of the Planning Authority.

8 Conclusions

This Stage 1 PMP follows the guiding principles and has been created in adherence with best practice guidance.

The PMP addresses the following peat related issues:

- The depth and condition of peat deposits across the main works areas of the Site;
- The volumes of peat that are predicted to be excavated and its suitability for reuse;
- The capacity to reuse the peat on-site for landscaping and peatland restoration;
- Peat handling and temporary storage; and
- Restoration and monitoring of peatland habitat.

The estimate of total peat volumes are based on a series of assumptions for the Project including measurement of the current design compared to existing ground level and using ground models developed through the ground investigation data available. Such parameters can still vary over small scale and therefore topographic changes in the substrate and bedrock profile, historical ground disturbance, etc. may impact the total accuracy of the volume calculations. The peat volumes provided will be refined as part of the detailed design, taking account of any further information obtained (e.g. further ground investigation data, more detailed topographic surveys, etc.) and as the geotechnical design develops to the fully mature construction design. The Applicant has committed to, as far as practicable, reusing the surplus peat generated from the construction of the Project within peatland restoration areas within the Site.

This PMP has identified peat reuse and restoration areas within the Project where all of the peat excavated from the main works area would be reused/restored. The PMP does not account for the volume of peat to be excavated and reused as part of the existing access track upgrades, however, the peat excavated for this is anticipated to be minimal when compared to that excavated as part of the works in the mains works area and it is considered this will be able to be reused along the existing access track itself (likely within verge restoration), details of which are to be developed. Details relating to the excavation and reuse of peat along the existing access track will be presented as part of the Stage 2 PMP.

It is expected that a Stage 2 PMP will be generated post consent to update the Stage 1 PMP with any new information obtained and based on the detailed construction design. The Stage 2 PMP will also provide further details on the reuse / restoration areas available. Following this a Stage 3 PMP will be developed by the Contractor for the construction phase which will be an update of the Stage 1 and 2 PMPs and which will be constantly updated and maintained throughout the site works.

The implementation of a Stage 3 PMP would ensure a commitment from the Contractor to excavating, handling, storing, transporting and reinstating peat that follows good practice and ensures protection of peat throughout the construction and post construction phases. A series of good practice standards detailed within this PMP relating to excavation, handling and storage of peat will be utilised to maintain the structural integrity of excavated peat and its suitability for reuse.



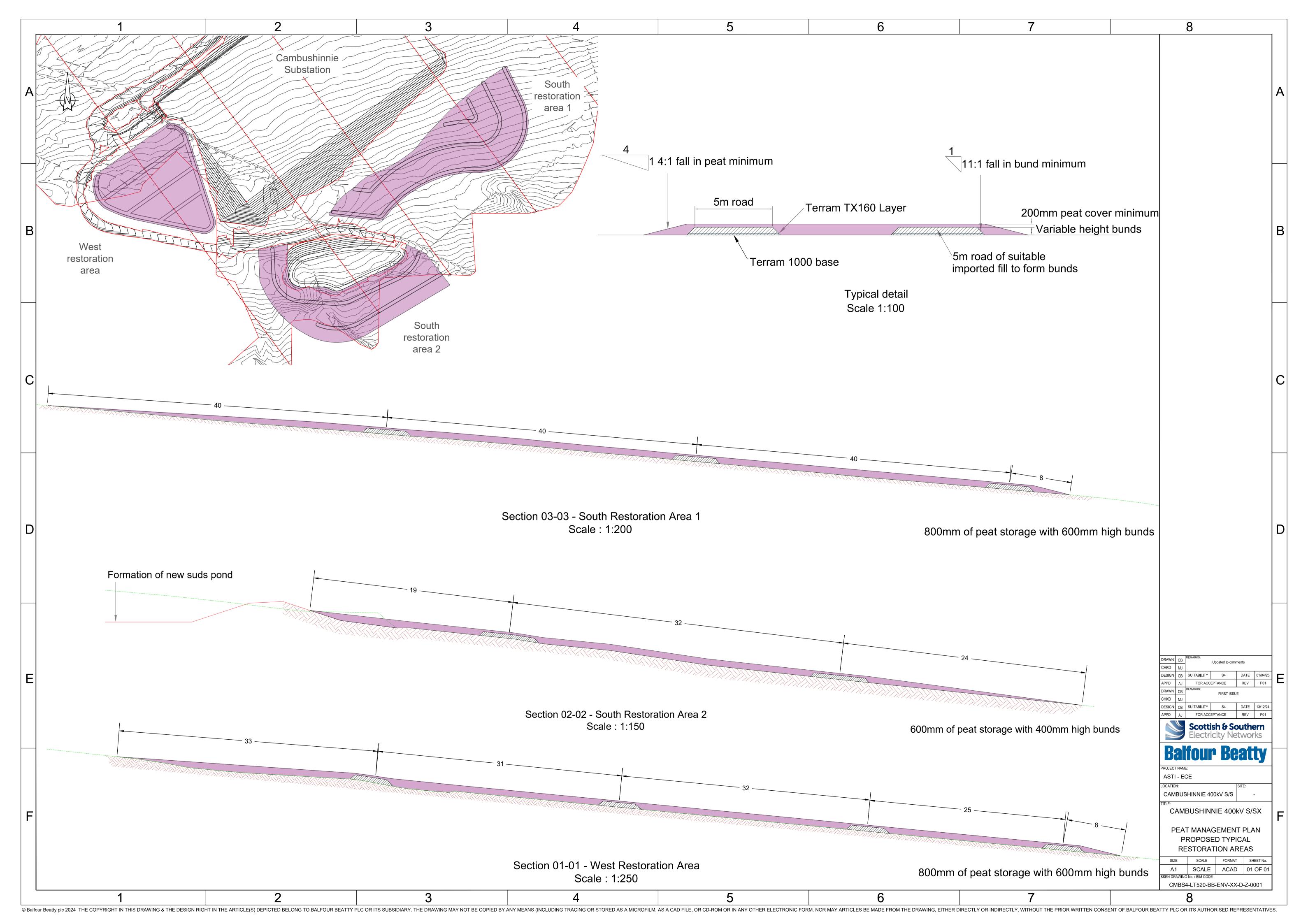
| | | Applies to |
|-----------------|------------------------------|--------------|
| TEM-NET-ENV-XXX | Stage 1 Peat Management Plan | Transmission |
| | | \checkmark |

Appendix A Figures



Appendix B - Designers Peat Reuse/Restoration Areas





Appendix C Peat Investigation Technical Notes.





SSEN Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

SSEN Cambushinnie 400kV Substation Technical Note: Additional Peat Probe Survey

| Client name Scottish & Southern E | Electricity Networks | Project name Cambushinnie 400k | Project name Cambushinnie 400kV Substation | | |
|--------------------------------------|----------------------|-----------------------------------|---|-----------------------------|--|
| (SSEN) Prepared by | Checked by | Verified by | Approved by | | |
| Daniel Whitley | Sean Taylor | David Raeside | Oli Nofal | | |
| Date: 15.03.2024 | Date: 26.03.2024 | Date: 26.03.2024 | Date: 26.03.2024 | | |
| Document No. | | Revision | | Date | |
| - | | 0 | | 26 th March 2024 | |

Introduction

Scottish & Southern Electricity Networks (SSEN) is proposing to upgrade the existing Beauly-Denny 275 kV circuit to 400 kV to mirror the ratings of the existing 400 kV circuit which runs along the route. SSEN have therefore proposed to construct a new 400kV substation in the proximity of the existing Braco West Substation. As part of the works a new overhead line link is also required to tie-in the new substation to the existing network and a new underground cable connection is required to tie the existing substation into the new. There is also a requirement for a new access track to lead into the new proposed substation, as well as the potential for upgrading the existing, if this does not meet the requirement for construction and operation of the new proposed substation.

AECOM have been commissioned to undertake the Environmental Impact Assessment Report (EIAR) for the new proposed substation, associated access track and the new overhead line link. Based on information provided by the Client and review of the BGS Geoindex¹, the site is known to be underlain by peat deposits which must be taken into consideration as part of the EIAR process. An initial phase of peat investigation was undertaken by Igne in late 2023 comprising of a 10m x 10m grid of peat probing covering two potential sites of the proposed substation and proposed overhead line. Since the probing was undertaken, the site of the proposed substation and access track into the new substation has been finalised with the probing undertaken identified as not covering the full footprint of the proposed works. As such, additional peat probing has been proposed by AECOM to cover the areas not previously investigated.

This technical note provides details of the additional peat probing undertaken by AECOM.

Site Description

The site is located on the eastern slopes of Feddal Hill approximately 4.0km west of Braco within Perth and Kinross. The site is within an area of commercial forestry comprising of mature and semi mature trees as well as areas of felled trees. The existing Braco West Substation (275kV) is present to the northeast with overhead electrical cables from the Beauly to Denny line leading into the existing substation. The overhead cables intersect the site from the northeast heading in a southwest direction.

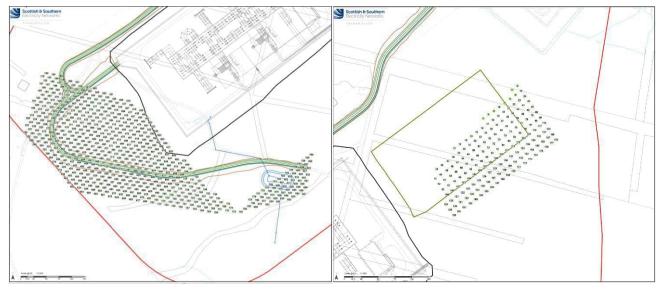
¹ BGS (2024) Geoindex Onshore Viewer, available: https://mapapps2.bgs.ac.uk/geoindex/home.html [accessed March 2024]



SSEN Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Peat Probing Exercise

The additional peat probing was carried out by AECOM during March 2024 and was proposed to comprise of 847 probes on a 10m x 10m grid covering areas of the proposed works site which were not investigated as part of the initial peat probing by Igne in late 2023. The peat investigation can be split into two key areas: a small area northeast of the proposed substation and southwest of the existing substation covering areas of the proposed Contractors compound and a large area south and southwest of the proposed substation largely covering the proposed new access track and SuDs network. The smaller compound area comprised 178 probe locations whereas the larger area comprised 669 probe locations. See Insert 1 which shows these two areas.



Insert 1: Peat Probe Locations

During the site works, two areas were identified where trees were still present within the site. Within these areas it was not possible to safely undertake all of the probe hole locations. The two areas in question both relate to the larger probing area of the site. Figure 1 within Appendix A shows the areas where probes were cancelled and provides photographs of the condition. The first area indicatively shown by the red block in Figure 1, comprised mature trees which were severely windblown and had either collapsed or partially collapsed. This made the area inaccessible to the peat probing team. The second area indicatively shown by the purple block in Figure 1, comprised dense semi-mature trees where access could not be made easily and safely. Probing in these areas was undertaken where access could be made safely, however, 390 probes were cancelled due to the access and safety concerns. A further 15 probe locations were also cancelled due to the presence of overlying rock fill or gravel track. The peat probe result table in Appendix B provides the results of the probing exercise and where not undertaken, provides reasoning for this.

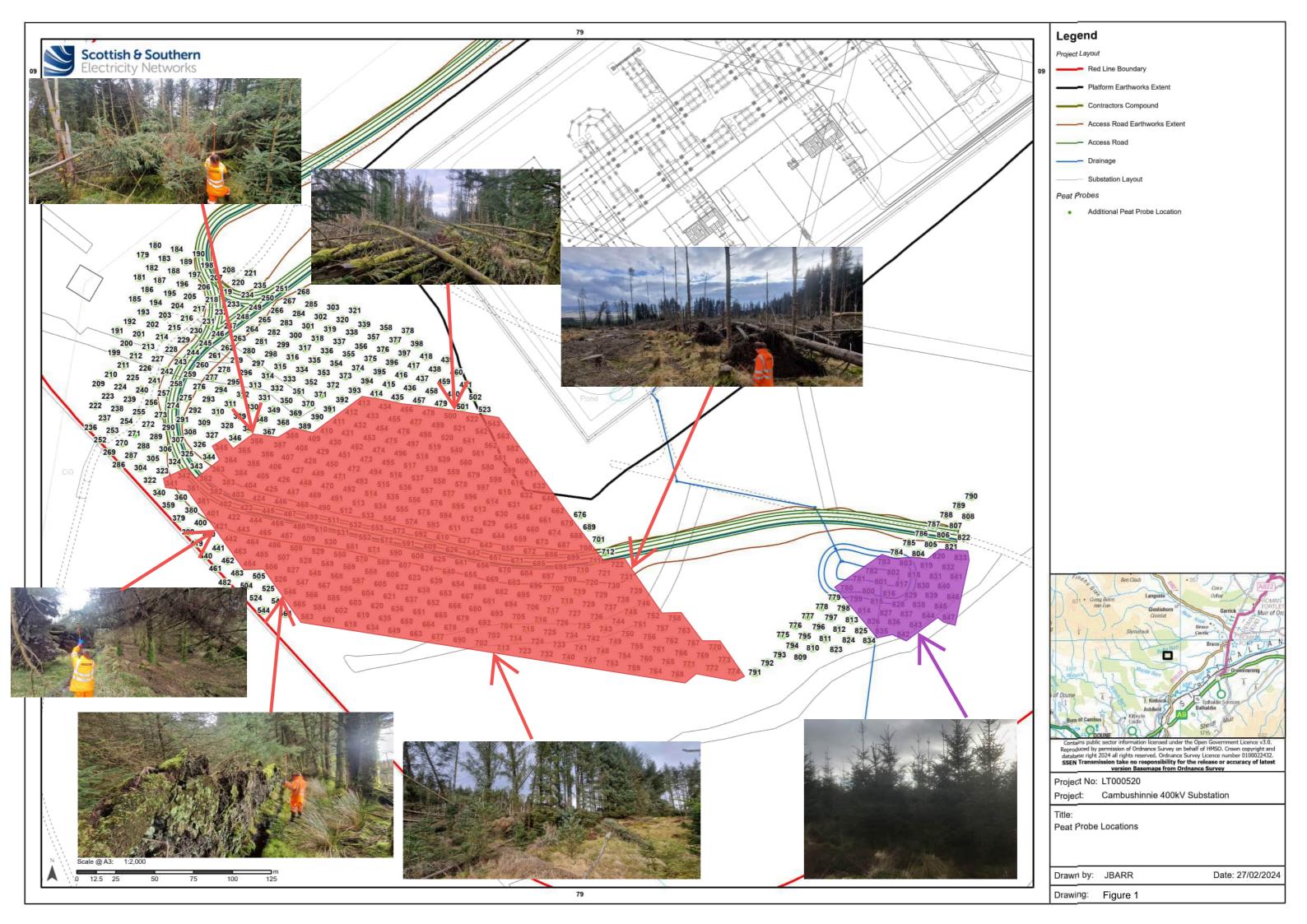
In total 442 out of the 847 (52%) probe hole locations were completed. Within the small area to the northeast of the proposed substation peat depths ranged between 0.1m and 0.85m with an average depth of 0.35m. Within the large area to the southwest of the proposed substation peat depths ranged between 0.1m and 3.7m with an average depth of 0.96m. Typically the peat depths identified as part of the additional probing agree with the probing results from the original probing exercise with the majority of the probes recording depths <1.0m. However, deeper depths were recorded locally, all to the southwest of the proposed substation, ranging from 1.0m to 3.7m.

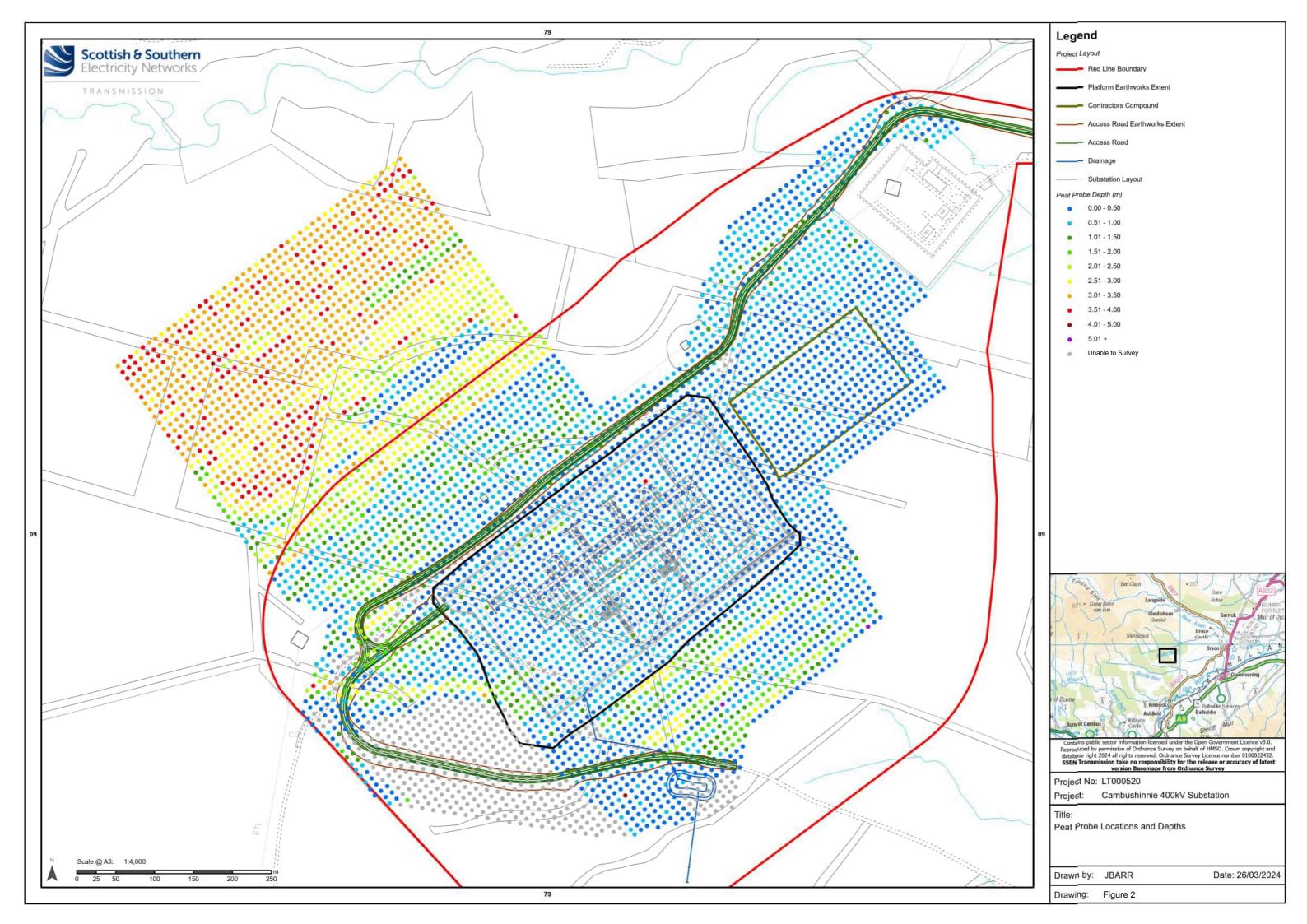
Figure 2 in Appendix A shows the locations of all probing undertaken across the site (i.e. inclusive of original and additional probing), as well as providing details on the depths of peat estimated for each probe location.



SSEN Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey







ΑΞϹΟΜ

Technical Note

SSEN Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Appendix B – Additional Peat Probe Results

| Probe ID | Eastings | Northings | Location | Depth (m bgl) | Comments |
|----------|----------|-----------|------------------|---------------|----------|
| PP001 | 279443 | _ | Additional Probe | 0.2 | |
| PP002 | 279451 | 709268 | Additional Probe | 0.4 | |
| PP003 | 279400 | 709219 | Additional Probe | 0.65 | |
| PP004 | 279408 | 709225 | Additional Probe | 0.3 | |
| PP005 | 279416 | 709230 | Additional Probe | 0.2 | |
| PP006 | 279424 | 709236 | Additional Probe | 0.25 | |
| PP007 | 279432 | 709242 | Additional Probe | 0.15 | |
| PP008 | 279440 | 709248 | Additional Probe | 0.2 | |
| PP009 | 279448 | 709254 | Additional Probe | 0.2 | |
| PP010 | 279456 | 709260 | Additional Probe | 0.45 | |
| PP011 | 279358 | 709175 | Additional Probe | 0.15 | |
| PP012 | 279366 | 709181 | Additional Probe | 0.1 | |
| PP013 | 279375 | 709187 | Additional Probe | 0.3 | |
| PP014 | 279383 | 709193 | Additional Probe | 0.5 | |
| PP015 | 279391 | 709199 | Additional Probe | 0.25 | |
| PP016 | 279399 | 709205 | Additional Probe | 0.15 | |
| PP017 | 279407 | 709211 | Additional Probe | 0.15 | |
| PP018 | 279415 | 709217 | Additional Probe | 0.2 | |
| PP019 | 279423 | 709223 | Additional Probe | 0.45 | |
| PP020 | 279431 | 709229 | Additional Probe | 0.25 | |
| PP021 | 279438 | 709234 | Additional Probe | 0.21 | |
| PP022 | 279446 | 709240 | Additional Probe | 0.5 | |
| PP023 | 279454 | 709246 | Additional Probe | 0.2 | |
| PP024 | 279462 | 709252 | Additional Probe | 0 | |
| PP025 | 279331 | | Additional Probe | 0.85 | |
| PP026 | 279339 | 709150 | Additional Probe | 0.4 | |
| PP027 | 279348 | 709156 | Additional Probe | 0.3 | |
| PP028 | 279356 | 709162 | Additional Probe | 0.35 | |
| PP029 | 279364 | 709168 | Additional Probe | 0.2 | |
| PP030 | 279372 | 709174 | Additional Probe | 0 | |
| PP031 | 279380 | 709180 | Additional Probe | 0.4 | clean |
| PP032 | 279388 | 709186 | Additional Probe | 0.15 | |
| PP033 | 279396 | 709192 | Additional Probe | 0.35 | |
| PP034 | 279404 | 709198 | Additional Probe | 0 | |
| PP035 | 279412 | 709204 | Additional Probe | 0.3 | |
| PP036 | 279420 | 709210 | Additional Probe | 0.1 | clean |
| PP037 | 279428 | 709216 | Additional Probe | 0.75 | |
| PP038 | 279436 | 709222 | Additional Probe | 0.4 | |
| PP039 | 279444 | 709227 | Additional Probe | 0.4 | |
| PP040 | 279452 | 709233 | Additional Probe | 0.25 | |
| PP041 | 279460 | 709239 | Additional Probe | 0.3 | |
| PP042 | 279468 | 709245 | Additional Probe | 0.7 | clean |
| PP043 | 279329 | | Additional Probe | 0.35 | |
| PP044 | 279337 | 709136 | Additional Probe | 0.55 | |
| PP045 | 279346 | 709142 | Additional Probe | 0.35 | |
| PP046 | 279354 | 709148 | Additional Probe | 0.45 | |
| PP047 | 279362 | 709154 | Additional Probe | 0.7 | |
| PP048 | 279370 | 709160 | Additional Probe | 0.5 | |
| PP049 | 279378 | 709166 | Additional Probe | 0.45 | |
| PP050 | 279386 | 709172 | Additional Probe | 0.3 | |
| PP051 | 279394 | 709178 | Additional Probe | 0.2 | |
| PP052 | 279402 | 709184 | Additional Probe | 0.2 | |
| PP053 | 279410 | 709190 | Additional Probe | 0.25 | |
| PP054 | 279418 | | Additional Probe | 0.35 | |
| PP055 | 279427 | 709202 | Additional Probe | 0.25 | |
| PP056 | 279435 | 709208 | Additional Probe | 0.3 | |
| PP057 | 279443 | 709214 | Additional Probe | 0.25 | |
| PP058 | 279451 | 709220 | Additional Probe | 0.55 | |
| PP059 | 279459 | 709226 | Additional Probe | 0.3 | |
| PP060 | 279467 | 709232 | Additional Probe | 0.4 | |
| PP061 | 279474 | 709236 | Additional Probe | 0.4 | |
| PP062 | 279335 | 709122 | Additional Probe | 0.55 | |
| PP063 | 279343 | 709128 | Additional Probe | 0.3 | |
| PP064 | 279352 | 709134 | Additional Probe | 0.45 | |
| | 273332 | 705154 | Additional Trobe | | |
| PP065 | 279360 | | Additional Probe | 0.25 | |

| PP067 PP068 PP070 PP071 PP072 PP073 PP075 PP076 PP076 PP077 | 279376 279384 279392 279400 279408 279416 279424 279433 279441 279449 279457 | 709158 709164 709170 709176 709182 709188 | Additional Probe Additional Probe Additional Probe Additional Probe Additional Probe Additional Probe | 0.45 0.45 0.25 0.25 0.35 | clean |
|---|--|--|--|--------------------------------------|-------------|
| PP069 PP070 PP071 PP072 PP073 PP074 PP075 PP076 | 279392 279400 279408 279416 279424 279433 279441 279449 | 709164 709170 709176 709182 709188 | Additional Probe Additional Probe Additional Probe | 0.25 0.25 | |
| PP070 PP071 PP072 PP073 PP074 PP075 PP076 | 279400 279408 279416 279424 279433 279441 279449 | 709170 709176 709182 709188 | Additional Probe Additional Probe | 0.25 | |
| PP071 PP072 PP073 PP074 PP075 PP076 | 279408 279416 279424 279433 279441 279449 | 709176 709182 709188 | Additional Probe | | |
| PP072 PP073 PP074 PP075 PP076 | 279416 279424 279433 279441 279449 | 709182 709188 | | 0.55 | |
| PP073 PP074 PP075 PP076 | 279424 279433 279441 279449 | 709188 | Auditional Flobe | 0.25 | clean clean |
| PP074 PP075 PP076 | 279433 279441 279449 | | Additional Probe | 0.23 | |
| PP075 PP076 | 279441 279449 | | Additional Probe | 0.4 | |
| PP076 | 279449 | | Additional Probe | 0.4 | |
| | | | Additional Probe | 0.35 | |
| | | | Additional Probe | 0.35 | |
| PP078 | 279465 | | Additional Probe | 0.35 | |
| PP079 | 279403 | | Additional Probe | 0.4 | |
| PP080 | 279479 | | Additional Probe | 0.25 | |
| PP081 | 279341 | | Additional Probe | 0.35 | |
| PP082 | 279349 | | Additional Probe | 0.55 | |
| PP083 | 279358 | | Additional Probe | 0.5 | |
| PP084 | 279366 | | Additional Probe | 0.5 | |
| PP085 | 279374 | | Additional Probe | 0.45 | |
| PP086 | 279382 | | Additional Probe | 0.35 | |
| PP087 | 279390 | | Additional Probe | 0.65 | |
| PP087 | 279390 | | Additional Probe | 0.85 | |
| PP088 | 279398 | | Additional Probe | 0.4 | |
| PP090 | 279400 | | Additional Probe | 0.25 | clean |
| PP091 | 279414 | | Additional Probe | 0.23 | clean |
| PP092 | 279430 | | Additional Probe | 0.4 | |
| PP093 | 279439 | | Additional Probe | 0.35 | |
| PP094 | 279447 | | Additional Probe | 0.5 | |
| PP095 | 279455 | | Additional Probe | 0.3 | |
| PP096 | 279463 | | Additional Probe | 0.7 | clean |
| PP097 | 279471 | | Additional Probe | 0.35 | |
| PP098 | 279479 | | Additional Probe | 0.15 | |
| PP099 | 279485 | | Additional Probe | 0.6 | |
| PP100 | 279346 | | Additional Probe | 0.4 | |
| PP101 | 279354 | | Additional Probe | 0.5 | |
| PP102 | 279363 | | Additional Probe | 0.5 | |
| PP103 | 279371 | | Additional Probe | 0.45 | |
| PP104 | 279379 | | Additional Probe | 0.35 | |
| PP105 | 279387 | | Additional Probe | 0.3 | |
| PP106 | 279395 | | Additional Probe | 0.5 | |
| PP107 | 279403 | | Additional Probe | 0.45 | |
| PP108 | 279411 | | Additional Probe | 0.4 | |
| PP109 | 279419 | | Additional Probe | 0.5 | |
| PP110 | 279427 | | Additional Probe | 0.35 | |
| PP111 | 279435 | 709172 | Additional Probe | 0.4 | clean |
| PP112 | 279444 | | Additional Probe | 0.35 | |
| PP113 | 279452 | | Additional Probe | 0.45 | |
| PP114 | 279460 | | Additional Probe | 0.45 | |
| PP115 | 279468 | | Additional Probe | 0.35 | |
| PP116 | 279476 | | Additional Probe | 0.45 | |
| PP117 | 279484 | | Additional Probe | 0.5 | |
| PP118 | 279491 | | Additional Probe | 0.55 | |
| PP119 | 279345 | | Additional Probe | 0.45 | |
| PP120 | 279353 | | Additional Probe | 0.5 | |
| PP121 | 279361 | | Additional Probe | 0.4 | |
| PP122 | 279370 | | Additional Probe | 0.7 | |
| PP123 | 279378 | | Additional Probe | 0.5 | |
| PP124 | 279386 | | Additional Probe | 0.4 | |
| PP125 | 279394 | | Additional Probe | 0.4 | |
| PP126 | 279402 | | Additional Probe | 0.55 | |
| PP127 | 279410 | | Additional Probe | 0.45 | |
| PP128 | 279418 | | Additional Probe | 0.25 | |
| PP129 | 279426 | | Additional Probe | 0.3 | |
| PP130 | 279434 | | Additional Probe | 0.5 | |
| PP131 | 279442 | | Additional Probe | 0.3 | |
| PP132 | 279451 | | Additional Probe | 0.45 | |
| PP133 | 279459 | | Additional Probe | 0.4 | |

| PP134 | 279467 | 700191 | Additional Probe | 0.45 | |
|----------------|--------|--------|------------------|------|-------|
| PP134 PP135 | 279467 | | Additional Probe | 0.45 | |
| PP136 | 279483 | | Additional Probe | 0.3 | |
| PP130 PP137 | 279483 | | Additional Probe | 0.45 | |
| PP137 PP138 | 279491 | | Additional Probe | 0.45 | clean |
| PP139 | 279351 | | Additional Probe | 0.25 | |
| PP140 | 279359 | | Additional Probe | 0.65 | |
| PP140 PP141 | 279367 | | Additional Probe | 0.65 | |
| PP141 PP142 | 279376 | | Additional Probe | 0.25 | |
| PP143 | 279384 | | Additional Probe | 0.35 | |
| PP144 | 279392 | | Additional Probe | 0.33 | |
| PP145 | 279392 | | Additional Probe | 0.35 | |
| PP145 PP146 | 279400 | | Additional Probe | 0.35 | |
| PP140 PP147 | 279408 | | Additional Probe | 0.6 | |
| PP148 | 279424 | | Additional Probe | 0.48 | |
| PP149 | 279432 | | Additional Probe | 0.15 | clean |
| PP150 | 279440 | | Additional Probe | 0.15 | clean |
| PP151 | 279448 | | Additional Probe | 0.15 | clean |
| PP152 | 279457 | | Additional Probe | 0.25 | |
| PP153 | 279465 | | Additional Probe | 0.23 | clean |
| PP154 | 279403 | | Additional Probe | 0.1 | |
| PP154 PP155 | 279473 | | Additional Probe | 0.25 | |
| PP156 | 279481 | | Additional Probe | 0.23 | |
| PP157 | 279485 | | Additional Probe | 0.25 | |
| PP158 | 279503 | | Additional Probe | 0.15 | |
| PP159 | 279357 | | Additional Probe | 0.15 | |
| PP160 | 279364 | | Additional Probe | 0.2 | |
| PP161 | 279372 | | Additional Probe | 0.55 | |
| PP162 | 279381 | | Additional Probe | 0.45 | |
| PP163 | 279389 | | Additional Probe | 0.4 | |
| PP164 | 279397 | | Additional Probe | 0.4 | |
| PP165 | 279405 | | Additional Probe | 0.4 | |
| PP166 | 279413 | | Additional Probe | 0.25 | |
| PP167 | 279421 | | Additional Probe | 0.2 | clean |
| PP168 | 279429 | | Additional Probe | 0.15 | |
| PP169 | 279437 | | Additional Probe | 0.2 | |
| PP170 | 279445 | | Additional Probe | 0.1 | |
| PP171 | 279453 | | Additional Probe | 0.25 | |
| PP172 | 279462 | | Additional Probe | 0.25 | |
| PP173 | 279470 | | Additional Probe | 0.2 | |
| PP174 | 279478 | | Additional Probe | 0.2 | |
| PP175 | 279486 | 709171 | Additional Probe | 0.25 | |
| PP176 | 279494 | | Additional Probe | 0.5 | |
| PP177 | 279502 | | Additional Probe | 0.15 | |
| PP178 | 279509 | 709188 | Additional Probe | 0.15 | |
| PP179 | 278719 | | Additional Probe | 0 | |
| PP180 | 278727 | | Additional Probe | 0.95 | |
| PP181 | 278717 | | Additional Probe | 0.7 | |
| PP182 | 278725 | | Additional Probe | 1.1 | |
| PP183 | 278733 | 708880 | Additional Probe | 0.65 | |
| PP184 | 278741 | | Additional Probe | 0.7 | |
| PP185 | 278714 | | Additional Probe | 1.1 | |
| PP186 | 278722 | | Additional Probe | 1.4 | |
| PP187 | 278730 | | Additional Probe | 1.35 | |
| PP188 | 278739 | | Additional Probe | 0.1 | clean |
| PP189 | 278747 | | Additional Probe | 2.1 | |
| PP190 | 278755 | | Additional Probe | 2.1 | |
| PP191 | 278703 | | Additional Probe | 0.85 | clean |
| PP192 | 278711 | 708839 | Additional Probe | 0.9 | |
| PP193 | 278719 | | Additional Probe | 0.4 | |
| PP194 | 278727 | | Additional Probe | 0.85 | |
| PP195 | 278736 | 708857 | Additional Probe | 1 | |
| PP196 | 278744 | 708863 | Additional Probe | 1.5 | |
| PP197 | 278752 | | Additional Probe | 1 | |
| PP198 | 278760 | 708875 | Additional Probe | 2.5 | |
| PP199 | 278701 | 708819 | Additional Probe | 1.05 | |
| PP200 | 278709 | 708825 | Additional Probe | 0.55 | |
| | | | | | |

| · · · · · · | I | | | 1 | |
|----------------|--------|--------|------------------|------|-----------|
| PP201 | 278717 | | Additional Probe | 0.55 | |
| PP202 | 278725 | 708837 | Additional Probe | 0 | rock fill |
| PP203 | 278733 | 708843 | Additional Probe | 0.5 | |
| PP204 | 278741 | 708849 | Additional Probe | 1 | |
| PP205 | 278749 | 708855 | Additional Probe | 1.4 | |
| PP206 | 278758 | 708861 | Additional Probe | 1.8 | |
| PP207 | 278766 | 708867 | Additional Probe | 2.3 | |
| PP208 | 278774 | 708872 | Additional Probe | 1.9 | |
| PP209 | 278691 | 708799 | Additional Probe | 2.1 | |
| PP210 | 278699 | 708805 | Additional Probe | 3.7 | |
| PP211 | 278707 | 708811 | Additional Probe | 2.1 | |
| PP212 | 278715 | 708817 | Additional Probe | 2.2 | |
| PP213 | 278723 | | Additional Probe | 0.3 | |
| PP214 | 278731 | | Additional Probe | 0 | rock fill |
| PP215 | 278739 | | Additional Probe | 0 | rock fill |
| PP216 | 278747 | | Additional Probe | 0 | rock fill |
| PP217 | 278755 | | Additional Probe | 0 | rock fill |
| PP218 | 278763 | | Additional Probe | 0 | rock fill |
| PP218 PP219 | | | | 0 | |
| | 278772 | | Additional Probe | | rock fill |
| PP220 | 278780 | | Additional Probe | 0 | rock fill |
| PP221 | 278788 | | Additional Probe | 0 | rock fill |
| PP222 | 278689 | | Additional Probe | 0.45 | |
| PP223 | 278697 | | Additional Probe | 1.1 | |
| PP224 | 278705 | | Additional Probe | 1.75 | |
| PP225 | 278713 | | Additional Probe | 3.1 | |
| PP226 | 278721 | 708809 | Additional Probe | 3.1 | |
| PP227 | 278729 | 708815 | Additional Probe | 0 | rock fill |
| PP228 | 278737 | 708821 | Additional Probe | 0.55 | |
| PP229 | 278745 | 708827 | Additional Probe | 0.8 | |
| PP230 | 278753 | 708833 | Additional Probe | 2 | |
| PP231 | 278761 | 708839 | Additional Probe | 1.2 | |
| PP232 | 278769 | 708845 | Additional Probe | 2.5 | |
| PP233 | 278777 | 708850 | Additional Probe | 2.1 | |
| PP234 | 278786 | 708856 | Additional Probe | 2 | |
| PP235 | 278794 | 708862 | Additional Probe | 1.9 | |
| PP236 | 278686 | 708771 | Additional Probe | 0.5 | |
| PP237 | 278695 | | Additional Probe | 0.3 | |
| PP238 | 278703 | | Additional Probe | 0.5 | |
| PP239 | 278711 | | Additional Probe | 0.45 | |
| PP240 | 278719 | | Additional Probe | 1.75 | |
| PP241 | 278727 | | Additional Probe | 0 | rock fill |
| PP242 | 278735 | | Additional Probe | 2.2 | |
| PP243 | 278743 | | Additional Probe | 1.1 | |
| PP244 | 278751 | | Additional Probe | 0.35 | |
| PP245 | 278759 | | Additional Probe | 0.35 | |
| PP246 | | | Additional Probe | | |
| | 278767 | | | 1.05 | |
| PP247 | 278775 | | Additional Probe | 1.9 | |
| PP248 | 278783 | | Additional Probe | 0.95 | |
| PP249 | 278791 | | Additional Probe | 1.8 | |
| PP250 | 278799 | | Additional Probe | 1.3 | |
| PP251 | 278808 | | Additional Probe | 1.95 | |
| PP252 | 278692 | | Additional Probe | 0.2 | clean |
| PP253 | 278700 | | Additional Probe | 0 | rock fill |
| PP254 | 278709 | | Additional Probe | 0.4 | |
| PP255 | 278717 | | Additional Probe | 0.45 | |
| PP256 | 278725 | | Additional Probe | 0.6 | |
| PP257 | 278733 | | Additional Probe | 2.7 | |
| PP258 | 278741 | 708799 | Additional Probe | 2 | |
| PP259 | 278749 | 708805 | Additional Probe | 3 | |
| PP260 | 278757 | 708811 | Additional Probe | 0.7 | |
| PP261 | 278765 | 708817 | Additional Probe | 0.1 | clean |
| PP262 | 278773 | 708822 | Additional Probe | 0.9 | |
| PP263 | 278781 | 708828 | Additional Probe | 1.6 | |
| PP264 | 278789 | | Additional Probe | 1.95 | |
| PP265 | 278797 | | Additional Probe | 1.45 | |
| | | | | | |
| PP266 | 278805 | 708846 | Additional Probe | 1.75 | |

| PP271 278714 708767 Additional Probe 0.1 cleat PP272 278723 708773 Additional Probe 0.2 cleat PP273 278731 708779 Additional Probe 0.5 cleat PP274 278739 708785 Additional Probe 1 1 PP275 278747 708790 Additional Probe 2.2 1 PP276 278755 708797 Additional Probe 0.2 1 PP277 278763 708803 Additional Probe 0.2 1 PP278 278771 708808 Additional Probe 0.5 1 PP279 278787 708820 Additional Probe 0.5 1 PP280 278787 708820 Additional Probe 1.8 1 PP281 278795 708826 Additional Probe 1.5 1 PP282 278803 708832 Additional Probe 1.5 1 PP284 278704 <t< th=""><th>k fill an an an</th></t<> | k fill an an an |
|--|---------------------------------|
| PP270 278706 708761 Additional Probe 0 roci PP271 278714 708767 Additional Probe 0.1 cleat PP271 278723 708773 Additional Probe 0.2 cleat PP273 278731 708779 Additional Probe 0.5 cleat PP274 278739 708785 Additional Probe 1 end PP275 278747 708790 Additional Probe 2.2 end PP276 278755 708797 Additional Probe 0.2 end PP277 278763 708808 Additional Probe 0.2 end PP278 278771 708808 Additional Probe 0.5 end PP280 278787 708820 Additional Probe 0.95 end PP281 278795 708826 Additional Probe 1.5 end PP282 278803 708832 Additional Probe 1.5 end PP283 2788 | k fill an an an |
| PP271 278714 708767 Additional Probe 0.1 cleat PP272 278723 708773 Additional Probe 0.2 cleat PP273 278731 708779 Additional Probe 0.5 cleat PP274 278739 708785 Additional Probe 1 P PP275 278747 708790 Additional Probe 2.2 P PP276 278753 708707 Additional Probe 0.2 P PP277 278763 708808 Additional Probe 0.5 P PP279 278779 708814 Additional Probe 0.5 P PP280 278787 708820 Additional Probe 0.5 P PP281 278797 708826 Additional Probe 1.5 P PP282 278803 708832 Additional Probe 1.5 P PP283 278827 708850 Additional Probe 0.85 P PP284 278704 < | an an an |
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| PP303 278841 708848 Additional Probe 1.1 | |
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| PP304 278718 708745 Additional Probe 1 1 | |
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| PP305 278726 708751 Additional Probe 0 clear | an |
| PP306 278734 708757 Additional Probe 0.45 | |
| PP307 278742 708763 Additional Probe 0.5 | |
| PP308 278750 708768 Additional Probe 0.2 clea | an |
| PP309 278759 708774 Additional Probe 0.4 | |
| PP310 278767 708781 Additional Probe 1.1 | |
| PP311 278775 708786 Additional Probe 1.35 | |
| PP312 278783 708792 Additional Probe 2.2 | |
| PP313 278791 708798 Additional Probe 2.1 | |
| PP313 278791 708798 Additional Probe 2.1 PP314 278799 708804 Additional Probe 2.1 | |
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| PP315 278807 708810 Additional Probe 0.5 PP316 278915 709816 Additional Probe 0.35 | 22 |
| PP316 278815 708816 Additional Probe 0.25 clea | dli |
| PP317 278823 708822 Additional Probe 1.1 | |
| PP318 278831 708828 Additional Probe 0.9 | |
| PP319 278839 708834 Additional Probe 1 | |
| PP320 278847 708840 Additional Probe 0.8 | |
| PP321 278855 708846 Additional Probe 0.9 | |
| PP322 278724 708737 Additional Probe 0.4 clea | an |
| PP323 278732 708743 Additional Probe 1.5 | |
| PP324 278740 708749 Additional Probe 0.3 | |
| | N - fallen tree |
| PP326 278756 708760 Additional Probe 0.5 | |
| PP327 278750 708766 Additional Probe 0.15 clea | |
| | an |
| PP328 278773 708772 Additional Probe 0.7 | an |
| PP329 278781 708778 Additional Probe 0.6 | an |
| PP330 278789 708784 Additional Probe 0.85 | an |
| PP331 278797 708790 Additional Probe 2.05 | an |
| PP332 278805 708796 Additional Probe 2.5 | an |
| PP333 278813 708802 Additional Probe 2.3 | an |
| PP334 278821 708808 Additional Probe 0.7 | an |

| PP335 | 278829 | 708814 | Additional Probe | 0.65 | |
|-------|--------|--------|------------------|------|-------------------------------------|
| PP336 | 278837 | | Additional Probe | 0.4 | |
| PP337 | 278845 | | Additional Probe | 0.55 | |
| PP338 | 278853 | | Additional Probe | 0.5 | |
| PP339 | 278861 | | Additional Probe | 1 | |
| PP340 | 278730 | | Additional Probe | 0.9 | 8m W |
| PP341 | 278738 | | Additional Probe | - | fallen trees preventing safe access |
| PP342 | 278746 | | Additional Probe | - | fallen trees preventing safe access |
| PP343 | 278754 | | Additional Probe | 0.4 | 5m NW |
| PP344 | 278762 | | Additional Probe | 0.4 | clean |
| PP345 | 278770 | | Additional Probe | - | fallen trees preventing safe access |
| PP346 | 278778 | 708764 | Additional Probe | 0.2 | clean |
| PP347 | 278787 | 708770 | Additional Probe | 0.4 | |
| PP348 | 278795 | 708776 | Additional Probe | 0.35 | |
| PP349 | 278803 | 708782 | Additional Probe | 1.6 | |
| PP350 | 278811 | 708788 | Additional Probe | 1.7 | |
| PP351 | 278819 | 708794 | Additional Probe | 2.7 | |
| PP352 | 278827 | | Additional Probe | 2.65 | |
| PP353 | 278835 | 708806 | Additional Probe | 0.55 | |
| PP354 | 278843 | | Additional Probe | 0.2 | |
| PP355 | 278851 | | Additional Probe | 0.15 | clean |
| PP356 | 278859 | | Additional Probe | 0.9 | |
| PP357 | 278867 | | Additional Probe | 0.65 | |
| PP358 | 278875 | | Additional Probe | 0.65 | |
| PP359 | 278736 | | Additional Probe | 1.8 | |
| PP360 | 278744 | | Additional Probe | 0.4 | |
| PP361 | 278752 | 708732 | Additional Probe | - | fallen trees preventing safe access |
| PP362 | 278760 | 708738 | Additional Probe | - | fallen trees preventing safe access |
| PP363 | 278768 | 708744 | Additional Probe | - | fallen trees preventing safe access |
| PP364 | 278776 | 708750 | Additional Probe | - | fallen trees preventing safe access |
| PP365 | 278784 | 708756 | Additional Probe | - | fallen trees preventing safe access |
| PP366 | 278792 | 708762 | Additional Probe | - | fallen trees preventing safe access |
| PP367 | 278800 | 708768 | Additional Probe | 0.15 | |
| PP368 | 278809 | 708774 | Additional Probe | 0.4 | |
| PP369 | 278817 | 708780 | Additional Probe | 0.2 | |
| PP370 | 278825 | 708786 | Additional Probe | 1.1 | |
| PP371 | 278833 | 708792 | Additional Probe | 2.5 | |
| PP372 | 278841 | 708798 | Additional Probe | 2.4 | |
| PP373 | 278849 | 708804 | Additional Probe | 2.95 | |
| PP374 | 278857 | 708809 | Additional Probe | 1 | |
| PP375 | 278865 | 708815 | Additional Probe | 0.6 | |
| PP376 | 278873 | 708821 | Additional Probe | 0.5 | |
| PP377 | 278881 | 708827 | Additional Probe | 0.4 | clean |
| PP378 | 278889 | 708833 | Additional Probe | 0.7 | |
| PP379 | 278742 | 708713 | Additional Probe | 1.5 | |
| PP380 | 278750 | 708718 | Additional Probe | 1.2 | |
| PP381 | 278758 | | Additional Probe | - | fallen trees preventing safe access |
| PP382 | 278766 | | Additional Probe | - | fallen trees preventing safe access |
| PP383 | 278774 | | Additional Probe | - | fallen trees preventing safe access |
| PP384 | 278782 | | Additional Probe | - | fallen trees preventing safe access |
| PP385 | 278790 | | Additional Probe | - | fallen trees preventing safe access |
| PP386 | 278799 | | Additional Probe | - | fallen trees preventing safe access |
| PP387 | 278807 | | Additional Probe | - | fallen trees preventing safe access |
| PP388 | 278815 | | Additional Probe | - | fallen trees preventing safe access |
| PP389 | 278823 | | Additional Probe | 0.4 | |
| PP390 | 278831 | | Additional Probe | 0.15 | clean |
| PP391 | 278839 | | Additional Probe | 0.4 | clean |
| PP392 | 278847 | | Additional Probe | 0.3 | 5m SE clean |
| PP393 | 278855 | | Additional Probe | 0.5 | |
| PP394 | 278863 | | Additional Probe | 2.6 | |
| PP395 | 278871 | | Additional Probe | 2.1 | |
| PP396 | 278879 | | Additional Probe | 1.25 | |
| PP397 | 278887 | | Additional Probe | 0.8 | |
| PP398 | 278895 | | Additional Probe | 0.2 | Topsoil |
| PP399 | 278748 | | Additional Probe | 0.95 | |
| PP400 | 278756 | | Additional Probe | 1.1 | |
| PP401 | 278764 | 700710 | Additional Probe | - | fallen trees preventing safe access |

| PP402 | 170771 | 709722 | Additional Broha | | fallen trees preventing safe access |
|----------------|------------------|--------|--------------------------------------|------|-------------------------------------|
| PP402 PP403 | 278772 278780 | | Additional Probe Additional Probe | - | fallen trees preventing safe access |
| PP403 PP404 | 278788 | | Additional Probe | - | fallen trees preventing safe access |
| PP404 PP405 | 278796 | | Additional Probe | - | fallen trees preventing safe access |
| PP405 | 278804 | | Additional Probe | - | fallen trees preventing safe access |
| PP407 | 278812 | | Additional Probe | | fallen trees preventing safe access |
| PP408 | 278821 | | Additional Probe | _ | fallen trees preventing safe access |
| PP409 | 278829 | | Additional Probe | - | fallen trees preventing safe access |
| PP410 | 278837 | | Additional Probe | _ | fallen trees preventing safe access |
| PP411 | 278845 | | Additional Probe | | fallen trees preventing safe access |
| PP412 | 278853 | | Additional Probe | - | fallen trees preventing safe access |
| PP413 | 278861 | | Additional Probe | _ | fallen trees preventing safe access |
| PP414 | 278869 | | Additional Probe | 0.3 | |
| PP415 | 278805 | | Additional Probe | 1.7 | |
| PP416 | 278885 | | Additional Probe | 2.3 | |
| PP417 | 278893 | | Additional Probe | 1.9 | |
| PP418 | 278901 | | Additional Probe | 0.55 | |
| PP419 | 278754 | | Additional Probe | 0.85 | |
| PP420 | 278762 | | Additional Probe | 0.8 | |
| PP421 | 278770 | | Additional Probe | - | fallen trees preventing safe access |
| PP422 | 278778 | | Additional Probe | - | fallen trees preventing safe access |
| PP423 | 278786 | | Additional Probe | - | fallen trees preventing safe access |
| PP424 | 278794 | | Additional Probe | _ | fallen trees preventing safe access |
| PP425 | 278802 | | Additional Probe | _ | fallen trees preventing safe access |
| PP426 | 278810 | | Additional Probe | - | fallen trees preventing safe access |
| PP427 | 278819 | | Additional Probe | - | fallen trees preventing safe access |
| PP428 | 278827 | | Additional Probe | - | fallen trees preventing safe access |
| PP429 | 278835 | | Additional Probe | - | fallen trees preventing safe access |
| PP430 | 278843 | | Additional Probe | _ | fallen trees preventing safe access |
| PP431 | 278851 | | Additional Probe | - | fallen trees preventing safe access |
| PP432 | 278859 | | Additional Probe | - | fallen trees preventing safe access |
| PP433 | 278867 | | Additional Probe | - | fallen trees preventing safe access |
| PP434 | 278875 | | Additional Probe | - | fallen trees preventing safe access |
| PP435 | 278883 | | Additional Probe | 0.2 | clean |
| PP436 | 278891 | | Additional Probe | 0.55 | |
| PP437 | 278899 | | Additional Probe | 2.9 | |
| PP438 | 278907 | | Additional Probe | 1.95 | |
| PP439 | 278915 | | Additional Probe | 0.4 | |
| PP440 | 278760 | | Additional Probe | 0.65 | |
| PP441 | 278768 | 708694 | Additional Probe | 0.4 | |
| PP442 | 278776 | 708700 | Additional Probe | - | fallen trees preventing safe access |
| PP443 | 278784 | 708706 | Additional Probe | - | fallen trees preventing safe access |
| PP444 | 278792 | 708712 | Additional Probe | - | fallen trees preventing safe access |
| PP445 | 278800 | 708718 | Additional Probe | - | fallen trees preventing safe access |
| PP446 | 278808 | 708724 | Additional Probe | - | fallen trees preventing safe access |
| PP447 | 278816 | 708730 | Additional Probe | - | fallen trees preventing safe access |
| PP448 | 278824 | 708736 | Additional Probe | - | fallen trees preventing safe access |
| PP449 | 278832 | 708742 | Additional Probe | - | fallen trees preventing safe access |
| PP450 | 278841 | 708748 | Additional Probe | - | fallen trees preventing safe access |
| PP451 | 278849 | 708754 | Additional Probe | - | fallen trees preventing safe access |
| PP452 | 278857 | 708759 | Additional Probe | - | fallen trees preventing safe access |
| PP453 | 278865 | 708765 | Additional Probe | - | fallen trees preventing safe access |
| PP454 | 278873 | 708771 | Additional Probe | - | fallen trees preventing safe access |
| PP455 | 278881 | 708777 | Additional Probe | - | fallen trees preventing safe access |
| PP456 | 278889 | 708783 | Additional Probe | - | fallen trees preventing safe access |
| PP457 | 278897 | 708789 | Additional Probe | 0.4 | |
| PP458 | 278905 | | Additional Probe | 0.95 | |
| PP459 | 278913 | 708801 | Additional Probe | 3 | |
| PP460 | 278921 | 708807 | Additional Probe | 1.9 | |
| PP461 | 278766 | 708681 | Additional Probe | 0.8 | |
| PP462 | 278774 | 708686 | Additional Probe | 0.1 | Topsoil |
| PP463 | 278782 | 708692 | Additional Probe | - | fallen trees preventing safe access |
| PP464 | 278790 | 708698 | Additional Probe | - | fallen trees preventing safe access |
| PP465 | 278798 | | Additional Probe | - | fallen trees preventing safe access |
| PP466 | 278806 | 708710 | Additional Probe | - | fallen trees preventing safe access |
| FF400 | | | | | |
| PP467 | 278814 | 708716 | Additional Probe | - | fallen trees preventing safe access |

| DD4CO | 270020 | 700720 | Additional Duals a | 1 | f-11 |
|----------------------------------|----------------------------|--------------------------------------|--|------|---|
| PP469 | 278830 | | Additional Probe | - | fallen trees preventing safe access |
| PP470 | 278838 | | Additional Probe | - | fallen trees preventing safe access |
| PP471 | 278846 | | Additional Probe | - | fallen trees preventing safe access |
| PP472 | 278855 | | Additional Probe | - | fallen trees preventing safe access |
| PP473 | 278863 | | Additional Probe | - | fallen trees preventing safe access |
| PP474 | 278871 | | Additional Probe | - | fallen trees preventing safe access |
| PP475 | 278879 | | Additional Probe | - | fallen trees preventing safe access |
| PP476 | 278887 | | Additional Probe | - | fallen trees preventing safe access |
| PP477 | 278895 | | Additional Probe | - | fallen trees preventing safe access |
| PP478 | 278903 | | Additional Probe | - | fallen trees preventing safe access |
| PP479 | 278911 | | Additional Probe | 0.8 | |
| PP480 | 278919 | | Additional Probe | 3.1 | |
| PP481 | 278927 | | Additional Probe | 2.5 | |
| PP482 | 278772 | | Additional Probe | 0.35 | mud/topsoil |
| PP483 | 278780 | | Additional Probe | 0 | f-11 |
| PP484 | 278788 | | Additional Probe | - | fallen trees preventing safe access |
| PP485 | 278796 | | Additional Probe | - | fallen trees preventing safe access |
| PP486 | 278804 | | Additional Probe | - | fallen trees preventing safe access |
| PP487 | 278812 | | Additional Probe | - | fallen trees preventing safe access |
| PP488 | 278820 | | Additional Probe | - | fallen trees preventing safe access |
| PP489 | 278828 | | Additional Probe | - | fallen trees preventing safe access |
| PP490 | 278836 | | Additional Probe | - | fallen trees preventing safe access |
| PP491 | 278844 | | Additional Probe | - | fallen trees preventing safe access |
| PP492 | 278852 | | Additional Probe | - | fallen trees preventing safe access |
| PP493 | 278860 | | Additional Probe | - | fallen trees preventing safe access |
| PP494 | 278869 | | Additional Probe | - | fallen trees preventing safe access |
| PP495 | 278877 | | Additional Probe | - | fallen trees preventing safe access |
| PP496 | 278885 | | Additional Probe | - | fallen trees preventing safe access |
| PP497 | 278893 | | Additional Probe | - | fallen trees preventing safe access |
| PP498 | 278901 | | Additional Probe | - | fallen trees preventing safe access |
| PP499 | 278909 | | Additional Probe | - | fallen trees preventing safe access |
| PP500 | 278917 | | Additional Probe | - | fallen trees preventing safe access |
| PP501 | 278925 | | Additional Probe | 1.1 | |
| PP502 | 278933 | | Additional Probe | 1.5 | |
| PP503 | 278778 | | Additional Probe | 0.25 | clean |
| PP504 | 278786 | | Additional Probe | 0 | |
| PP505 | 278794 | | Additional Probe | 0.35 | clean |
| PP506 | 278802 | | Additional Probe | | fallen trees preventing safe access |
| PP507 PP508 | 278810 | | Additional Probe | - | fallen trees preventing safe access |
| PP508 PP509 | 278818 278826 | | Additional Probe Additional Probe | - | fallen trees preventing safe access fallen trees preventing safe access |
| | | | Additional Probe | | |
| PP510 PP511 | 278834 278842 | | Additional Probe | - | fallen trees preventing safe access |
| PP511 PP512 | 278842 | | Additional Probe | - | fallen trees preventing safe access |
| PP512 PP513 | 278858 | | Additional Probe | - | fallen trees preventing safe access |
| | | | | - | fallen trees preventing safe access |
| PP514 | 278866 | | Additional Probe Additional Probe | | fallen trees preventing safe access |
| PP515 | 278874 | | | - | fallen trees preventing safe access |
| PP516 PP517 | 278882 278891 | | Additional Probe Additional Probe | - | fallen trees preventing safe access |
| | + + | | | | fallen trees preventing safe access |
| PP518 | 278899 | | Additional Probe | - | fallen trees preventing safe access |
| PP519 | 278907 | | Additional Probe | - | fallen trees preventing safe access |
| PP520 | 278915 | | Additional Probe | - | fallen trees preventing safe access |
| PP521 | 278923 | | Additional Probe | - | fallen trees preventing safe access |
| PP522 | 278931 | | Additional Probe | - | fallen trees preventing safe access |
| PP523 | 278939 | | Additional Probe | 0.8 | |
| PP524 | 278792 | | Additional Probe | 0 | tancoil |
| PP525 | 278800 | | Additional Probe | 0.1 | topsoil fallen trees preventing safe access |
| PP526 | 278808 | | Additional Probe | - | |
| PP527 | 278816 | | Additional Probe | - | fallen trees preventing safe access |
| PP528 | 278824 | | Additional Probe | - | fallen trees preventing safe access |
| PP529 | 278832 | | Additional Probe Additional Probe | - | fallen trees preventing safe access |
| | 270040 | 700000 | Additional Probe | - | fallen trees preventing safe access |
| PP530 | 278840 | | | | |
| PP530 PP531 | 278848 | 708704 | Additional Probe | - | fallen trees preventing safe access |
| PP530 PP531 PP532 | 278848 278856 | 708704 708709 | Additional Probe Additional Probe | - | fallen trees preventing safe access fallen trees preventing safe access |
| PP530 PP531 PP532 PP533 | 278848 278856 278864 | 708704 708709 708715 | Additional Probe Additional Probe Additional Probe | - | fallen trees preventing safe access fallen trees preventing safe access fallen trees preventing safe access |
| PP530 PP531 PP532 | 278848 278856 | 708704 708709 708715 708721 | Additional Probe Additional Probe | | fallen trees preventing safe access fallen trees preventing safe access |

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|----------------|--------|------------------------------------|----------|------|-------------------------------------|
| PP536 | 278888 | 708733 Addition | al Probe | - | fallen trees preventing safe access |
| PP537 | 278896 | 708739 Addition | al Probe | - | fallen trees preventing safe access |
| PP538 | 278905 | 708745 Addition | al Probe | - | fallen trees preventing safe access |
| PP539 | 278913 | 708751 Addition | al Probe | - | fallen trees preventing safe access |
| PP540 | 278921 | 708757 Addition | al Probe | - | fallen trees preventing safe access |
| PP541 | 278929 | 708763 Addition | | - | fallen trees preventing safe access |
| PP542 | 278937 | 708769 Addition | | - | fallen trees preventing safe access |
| PP543 | 278945 | 708774 Addition | | - | fallen trees preventing safe access |
| PP544 | 278797 | 708654 Addition | | 0.7 | topsoil |
| PP545 | 278806 | 708660 Addition | | 0.7 | |
| | | | | | f-ll |
| PP546 | 278814 | 708666 Addition | | - | fallen trees preventing safe access |
| PP547 | 278822 | 708672 Addition | | - | fallen trees preventing safe access |
| PP548 | 278830 | 708678 Addition | | - | fallen trees preventing safe access |
| PP549 | 278838 | 708684 Addition | | - | fallen trees preventing safe access |
| PP550 | 278846 | 708690 Addition | al Probe | - | fallen trees preventing safe access |
| PP551 | 278854 | 708695 Addition | al Probe | - | fallen trees preventing safe access |
| PP552 | 278862 | 708701 Addition | al Probe | - | fallen trees preventing safe access |
| PP553 | 278870 | 708707 Addition | al Probe | - | fallen trees preventing safe access |
| PP554 | 278878 | 708713 Addition | al Probe | - | fallen trees preventing safe access |
| PP555 | 278886 | 708719 Addition | al Probe | - | fallen trees preventing safe access |
| PP556 | 278894 | 708725 Addition | | - | fallen trees preventing safe access |
| PP557 | 278902 | 708731 Addition | | - | fallen trees preventing safe access |
| PP558 | 278910 | 708731 Addition | | | fallen trees preventing safe access |
| PP558 PP559 | | 708737 Addition | | | |
| | 278919 | | | - | fallen trees preventing safe access |
| PP560 | 278927 | 708749 Addition | | - | fallen trees preventing safe access |
| PP561 | 278935 | 708755 Addition | | - | fallen trees preventing safe access |
| PP562 | 278943 | 708760 Addition | | - | fallen trees preventing safe access |
| PP563 | 278951 | 708766 Addition | al Probe | - | fallen trees preventing safe access |
| PP564 | 278811 | 708652 Addition | | - | fallen trees preventing safe access |
| PP565 | 278820 | 708658 Addition | al Probe | 1.95 | 6m S due to fallen trees |
| PP566 | 278828 | 708664 Addition | al Probe | - | fallen trees preventing safe access |
| PP567 | 278836 | 708670 Addition | al Probe | - | fallen trees preventing safe access |
| PP568 | 278844 | 708676 Addition | al Probe | - | fallen trees preventing safe access |
| PP569 | 278852 | 708682 Addition | al Probe | - | fallen trees preventing safe access |
| PP570 | 278860 | 708687 Addition | | - | fallen trees preventing safe access |
| PP571 | 278868 | 708693 Addition | | - | fallen trees preventing safe access |
| PP572 | 278876 | 708699 Addition | | | fallen trees preventing safe access |
| PP573 | 278884 | 708705 Addition | | - | |
| PP575 PP574 | + | | | - | fallen trees preventing safe access |
| | 278892 | 708711 Addition | | | fallen trees preventing safe access |
| PP575 | 278900 | 708717 Addition | | - | fallen trees preventing safe access |
| PP576 | 278908 | 708723 Addition | | - | fallen trees preventing safe access |
| PP577 | 278916 | 708729 Addition | | - | fallen trees preventing safe access |
| PP578 | 278924 | 708735 Addition | | - | fallen trees preventing safe access |
| PP579 | 278932 | 708741 Addition | | - | fallen trees preventing safe access |
| PP580 | 278941 | 708746 Addition | al Probe | - | fallen trees preventing safe access |
| PP581 | 278949 | 708752 Addition | al Probe | - | fallen trees preventing safe access |
| PP582 | 278957 | 708758 Addition | al Probe | - | fallen trees preventing safe access |
| PP583 | 278825 | 708650 Addition | al Probe | - | fallen trees preventing safe access |
| PP584 | 278833 | 708656 Addition | al Probe | - | fallen trees preventing safe access |
| PP585 | 278842 | 708662 Addition | | - | fallen trees preventing safe access |
| PP586 | 278850 | 708668 Addition | | | fallen trees preventing safe access |
| PP587 | 278858 | | | - | |
| | | 708673 Addition | | - | fallen trees preventing safe access |
| PP588 | 278866 | 708679 Addition | | - | fallen trees preventing safe access |
| PP589 | 278874 | 708685 Addition | | - | fallen trees preventing safe access |
| PP590 | 278882 | 708691 Addition | | - | fallen trees preventing safe access |
| PP591 | 278890 | 708697 Addition | | - | fallen trees preventing safe access |
| PP592 | 278898 | 708703 Addition | | - | fallen trees preventing safe access |
| PP593 | 278906 | 708709 Addition | al Probe | - | fallen trees preventing safe access |
| PP594 | 278914 | 708715 Addition | al Probe | - | fallen trees preventing safe access |
| PP595 | 278922 | 708721 Addition | al Probe | - | fallen trees preventing safe access |
| PP596 | 278930 | 708727 Addition | al Probe | - | fallen trees preventing safe access |
| PP597 | 278938 | 708733 Addition | | - | fallen trees preventing safe access |
| PP598 | 278946 | 708738 Addition | | - | fallen trees preventing safe access |
| PP599 | 278955 | 708738 Addition 708744 Addition | | - | fallen trees preventing safe access |
| PP599 PP600 | 278953 | 708744 Addition 708750 Addition | | - | |
| | | | | | fallen trees preventing safe access |
| PP601 | 278839 | 708648 Addition | | - | fallen trees preventing safe access |
| PP602 | 278847 | 708654 Addition | ai Probe | - | fallen trees preventing safe access |
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|----------------|--------|--------|------------------|---|-------------------------------------|
| PP603 | 278856 | 708659 | Additional Probe | - | fallen trees preventing safe access |
| PP604 | 278864 | 708665 | Additional Probe | - | fallen trees preventing safe access |
| PP605 | 278872 | 708671 | Additional Probe | - | fallen trees preventing safe access |
| PP606 | 278880 | 708677 | Additional Probe | - | fallen trees preventing safe access |
| PP607 | 278888 | 708683 | Additional Probe | - | fallen trees preventing safe access |
| PP608 | 278896 | 708689 | Additional Probe | - | fallen trees preventing safe access |
| PP609 | 278904 | 708695 | Additional Probe | - | fallen trees preventing safe access |
| PP610 | 278912 | 708701 | Additional Probe | - | fallen trees preventing safe access |
| PP611 | 278920 | 708707 | Additional Probe | - | fallen trees preventing safe access |
| PP612 | 278928 | 708713 | Additional Probe | - | fallen trees preventing safe access |
| PP613 | 278936 | | Additional Probe | - | fallen trees preventing safe access |
| PP614 | 278944 | 708724 | Additional Probe | - | fallen trees preventing safe access |
| PP615 | 278952 | | Additional Probe | - | fallen trees preventing safe access |
| PP616 | 278960 | | Additional Probe | - | fallen trees preventing safe access |
| PP617 | 278969 | | Additional Probe | - | fallen trees preventing safe access |
| PP618 | 278505 | | Additional Probe | - | fallen trees preventing safe access |
| PP619 | 278855 | | Additional Probe | - | fallen trees preventing safe access |
| PP619 PP620 | | | Additional Probe | - | |
| | 278870 | | | | fallen trees preventing safe access |
| PP621 | 278878 | | Additional Probe | - | fallen trees preventing safe access |
| PP622 | 278886 | | Additional Probe | - | fallen trees preventing safe access |
| PP623 | 278894 | | Additional Probe | - | fallen trees preventing safe access |
| PP624 | 278902 | | Additional Probe | - | fallen trees preventing safe access |
| PP625 | 278910 | | Additional Probe | - | fallen trees preventing safe access |
| PP626 | 278918 | | Additional Probe | - | fallen trees preventing safe access |
| PP627 | 278926 | 708699 | Additional Probe | - | fallen trees preventing safe access |
| PP628 | 278934 | 708705 | Additional Probe | - | fallen trees preventing safe access |
| PP629 | 278942 | 708710 | Additional Probe | - | fallen trees preventing safe access |
| PP630 | 278950 | 708716 | Additional Probe | - | fallen trees preventing safe access |
| PP631 | 278958 | 708722 | Additional Probe | - | fallen trees preventing safe access |
| PP632 | 278966 | 708728 | Additional Probe | - | fallen trees preventing safe access |
| PP633 | 278974 | 708734 | Additional Probe | - | fallen trees preventing safe access |
| PP634 | 278867 | 708643 | Additional Probe | - | fallen trees preventing safe access |
| PP635 | 278875 | 708649 | Additional Probe | - | fallen trees preventing safe access |
| PP636 | 278883 | 708655 | Additional Probe | - | fallen trees preventing safe access |
| PP637 | 278892 | 708661 | Additional Probe | - | fallen trees preventing safe access |
| PP638 | 278900 | 708667 | Additional Probe | - | fallen trees preventing safe access |
| PP639 | 278908 | | Additional Probe | - | fallen trees preventing safe access |
| PP640 | 278916 | | Additional Probe | - | fallen trees preventing safe access |
| PP641 | 278924 | | Additional Probe | - | fallen trees preventing safe access |
| PP642 | 278932 | | Additional Probe | - | fallen trees preventing safe access |
| PP643 | 278940 | | Additional Probe | - | fallen trees preventing safe access |
| PP644 | 278948 | | Additional Probe | - | fallen trees preventing safe access |
| PP645 | 278956 | | Additional Probe | - | fallen trees preventing safe access |
| PP646 | 278950 | | Additional Probe | - | fallen trees preventing safe access |
| PP647 | 278904 | | Additional Probe | - | fallen trees preventing safe access |
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| PP648 | 278980 | | Additional Probe | - | fallen trees preventing safe access |
| PP649 | 278881 | | Additional Probe | - | fallen trees preventing safe access |
| PP650 | 278889 | | Additional Probe | - | fallen trees preventing safe access |
| PP651 | 278897 | | Additional Probe | - | fallen trees preventing safe access |
| PP652 | 278906 | | Additional Probe | - | fallen trees preventing safe access |
| PP653 | 278914 | | Additional Probe | - | fallen trees preventing safe access |
| PP654 | 278922 | | Additional Probe | - | fallen trees preventing safe access |
| PP655 | 278930 | | Additional Probe | - | fallen trees preventing safe access |
| PP656 | 278938 | | Additional Probe | - | fallen trees preventing safe access |
| PP657 | 278946 | | Additional Probe | - | fallen trees preventing safe access |
| PP658 | 278954 | 708694 | Additional Probe | - | fallen trees preventing safe access |
| PP659 | 278962 | 708700 | Additional Probe | - | fallen trees preventing safe access |
| PP660 | 278970 | 708706 | Additional Probe | - | fallen trees preventing safe access |
| PP661 | 278978 | 708712 | Additional Probe | - | fallen trees preventing safe access |
| PP662 | 278986 | 708718 | Additional Probe | - | fallen trees preventing safe access |
| PP663 | 278895 | 708639 | Additional Probe | - | fallen trees preventing safe access |
| PP664 | 278903 | 708645 | Additional Probe | - | fallen trees preventing safe access |
| PP665 | 278911 | 708651 | Additional Probe | - | fallen trees preventing safe access |
| PP666 | 278920 | | Additional Probe | - | fallen trees preventing safe access |
| PP667 | 278928 | | Additional Probe | - | fallen trees preventing safe access |
| PP668 | 278936 | | Additional Probe | - | fallen trees preventing safe access |
| PP669 | 278944 | | Additional Probe | - | fallen trees preventing safe access |
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| Pi671 229806 708828 Additional Probe - fillen trees preventing safe access Pi672 229806 706802 Additional Probe - fillen trees preventing safe access Pi673 229804 708010 Additional Probe - fillen trees preventing safe access Pi676 229804 708010 Additional Probe - fillen trees preventing safe access Pi676 229809 708813 Additional Probe - fillen trees preventing safe access Pi677 228909 708813 Additional Probe - fillen trees preventing safe access Pi680 228931 708614 Additional Probe - fillen trees preventing safe access Pi682 278932 708614 Additional Probe - fillen trees preventing safe access Pi683 278938 708614 Additional Probe - fillen trees preventing safe access Pi684 278954 708664 Additional Probe - fillen trees preventing safe access Pi685 2789807 708664 | | | | | | 1e u |
|--|-------|--------|--------|------------------|-----|---------------------------------------|
| PF672 279386 708822 Additional Probe - failen trees preventing safe access PF673 2793976 708284 Additional Probe - failen trees preventing safe access PF675 2793900 708210 Additional Probe - failen trees preventing safe access PF676 279000 708211 Additional Probe - failen trees preventing safe access PF676 279000 708213 Additional Probe - failen trees preventing safe access PF677 279800 708613 Additional Probe - failen trees preventing safe access PF678 278930 708661 Additional Probe - failen trees preventing safe access PF681 278980 708662 Additional Probe - failen trees preventing safe access PF683 278980 708661 Additional Probe - failen trees preventing safe access PF684 278980 708661 Additional Probe - failen trees preventing safe access PF685 278980 708661 | PP670 | 278952 | | | - | fallen trees preventing safe access |
| PP674 272926 708680 Additional Probe - failen trees preventing safe access PP674 273984 708710 Additional Probe - failen trees preventing safe access PP676 273900 708811 Additional Probe - failen trees preventing safe access PP676 273900 708811 Additional Probe - failen trees preventing safe access PP678 273931 708614 Additional Probe - failen trees preventing safe access PP680 273932 708614 Additional Probe - failen trees preventing safe access PP681 273935 708661 Additional Probe - failen trees preventing safe access PP682 273936 708671 Additional Probe - failen trees preventing safe access PP684 273980 708667 Additional Probe - failen trees preventing safe access PP685 273974 708667 Additional Probe - failen trees preventing safe access PP686 2739800 708667 | | | | | - | fallen trees preventing safe access |
| PP67A 27894 70870A Additional Probe - failen trees preventing sele access PP67A 279900 70871A Additional Probe 0.2 Topsoil PP67A 279800 70871A Additional Probe - failen trees preventing sele access PP67A 279804 70861A Additional Probe - failen trees preventing sele access PP67A 279831 708651A Additional Probe - failen trees preventing sele access PP681 279832 708651A Additional Probe - failen trees preventing sele access PP681 279830 708651A Additional Probe - failen trees preventing sele access PP682 279896 708671A Additional Probe - failen trees preventing sele access PP684 279896 708671A Additional Probe - failen trees preventing sele access PP685 279892 708667A Additional Probe - failen trees preventing sele access PP686 2798980 70877A Additional P | | | | | - | fallen trees preventing safe access |
| PP676 27892 708713 Additional Probe | | | | | - | fallen trees preventing safe access |
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| PP732 278979 708626 Additional Probe - fallen trees preventing safe access PP733 278987 708632 Additional Probe - fallen trees preventing safe access PP734 278995 708638 Additional Probe - fallen trees preventing safe access PP735 279003 708644 Additional Probe - fallen trees preventing safe access | | | | | | |
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| PP734 278995 708638 Additional Probe - fallen trees preventing safe access PP735 279003 708644 Additional Probe - fallen trees preventing safe access | | | | | | |
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| PP736 279011 708650 Additional Probe - fallen trees preventing safe access | PP736 | 279003 | | | - | fallen trees preventing safe access |

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|----------------|------------------|----------------------------------|-----------------|------|--|
| PP737 | 279020 | 708656 A | dditional Probe | - | fallen trees preventing safe access |
| PP738 | 279028 | 708661 A | dditional Probe | - | fallen trees preventing safe access |
| PP739 | 279036 | 708666 A | dditional Probe | - | fallen trees preventing safe access |
| PP740 | 278993 | 708624 A | dditional Probe | - | fallen trees preventing safe access |
| PP741 | 279001 | 708630 A | dditional Probe | - | fallen trees preventing safe access |
| PP742 | 279009 | 708636 A | dditional Probe | - | fallen trees preventing safe access |
| PP743 | 279017 | 708642 A | dditional Probe | - | fallen trees preventing safe access |
| PP744 | 279025 | 708647 A | dditional Probe | - | fallen trees preventing safe access |
| PP745 | 279033 | 708653 A | dditional Probe | - | fallen trees preventing safe access |
| PP746 | 279041 | 708658 A | dditional Probe | - | fallen trees preventing safe access |
| PP747 | 279007 | 708622 A | dditional Probe | - | fallen trees preventing safe access |
| PP748 | 279015 | 708628 A | dditional Probe | - | fallen trees preventing safe access |
| PP749 | 279023 | 708634 A | dditional Probe | - | fallen trees preventing safe access |
| PP750 | 279031 | 708639 A | dditional Probe | - | fallen trees preventing safe access |
| PP751 | 279039 | 708645 A | dditional Probe | - | fallen trees preventing safe access |
| PP752 | 279047 | 708650 A | dditional Probe | - | fallen trees preventing safe access |
| PP753 | 279021 | 708620 A | dditional Probe | - | fallen trees preventing safe access |
| PP754 | 279029 | 708625 A | dditional Probe | - | fallen trees preventing safe access |
| PP755 | 279037 | 708631 A | dditional Probe | - | fallen trees preventing safe access |
| PP756 | 279045 | 708637 A | dditional Probe | - | fallen trees preventing safe access |
| PP757 | 279053 | 708642 A | dditional Probe | - | fallen trees preventing safe access |
| PP758 | 279061 | 708649 A | dditional Probe | - | fallen trees preventing safe access |
| PP759 | 279035 | 708617 A | dditional Probe | - | fallen trees preventing safe access |
| PP760 | 279043 | 708623 A | dditional Probe | - | fallen trees preventing safe access |
| PP761 | 279051 | 708629 A | dditional Probe | - | fallen trees preventing safe access |
| PP762 | 279059 | 708634 A | dditional Probe | - | fallen trees preventing safe access |
| PP763 | 279067 | 708641 A | dditional Probe | - | fallen trees preventing safe access |
| PP764 | 279049 | 708615 A | dditional Probe | - | fallen trees preventing safe access |
| PP765 | 279057 | 708621 A | dditional Probe | - | fallen trees preventing safe access |
| PP766 | 279065 | 708626 A | dditional Probe | - | fallen trees preventing safe access |
| PP767 | 279073 | 708633 A | dditional Probe | - | fallen trees preventing safe access |
| PP768 | 279063 | 708613 A | dditional Probe | - | fallen trees preventing safe access |
| PP769 | 279079 | 708625 A | dditional Probe | - | fallen trees preventing safe access |
| PP770 | 279087 | 708630 A | dditional Probe | - | fallen trees preventing safe access |
| PP771 | 279070 | 708619 A | dditional Probe | - | fallen trees preventing safe access |
| PP772 | 279085 | 708617 A | dditional Probe | - | fallen trees preventing safe access |
| PP773 | 279093 | 708622 A | dditional Probe | - | fallen trees preventing safe access |
| PP774 | 279099 | 708614 A | dditional Probe | - | fallen trees preventing safe access |
| PP775 | 279130 | 708638 A | dditional Probe | 0.25 | clean |
| PP776 | 279138 | | dditional Probe | 0.45 | |
| PP777 | 279146 | 708650 A | dditional Probe | 0.25 | clean - topsoil |
| PP778 | 279155 | 708656 A | dditional Probe | 0.45 | |
| PP779 | 279163 | 708662 A | dditional Probe | 0.5 | 7m W |
| PP780 | 279171 | 708668 A | dditional Probe | - | Dense tree coverage preventing access |
| PP781 | 279179 | 708674 A | dditional Probe | - | Dense tree coverage preventing access |
| PP782 | 279187 | 708679 A | dditional Probe | - | Dense tree coverage preventing access |
| PP783 | 279195 | | dditional Probe | - | Dense tree coverage preventing access |
| PP784 | 279203 | | dditional Probe | 0.1 | topsoil |
| PP785 | 279211 | 708697 A | dditional Probe | 0.4 | |
| PP786 | 279219 | | dditional Probe | 0 | gravel road |
| PP787 | 279227 | | dditional Probe | 0 | |
| PP788 | 279235 | 708715 A | dditional Probe | 0.1 | |
| PP789 | 279243 | 708721 A | dditional Probe | 0.2 | |
| PP790 | 279251 | 708727 A | dditional Probe | 0.4 | |
| PP791 | 279112 | 708614 A | dditional Probe | 0.55 | 5m SE due to fallen trees |
| PP792 | 279120 | | dditional Probe | 0.5 | |
| PP793 | 279128 | 708625 A | dditional Probe | 0.3 | clean |
| PP794 | 279136 | 708631 A | dditional Probe | 0.5 | topsoil |
| PP795 | 279144 | 708637 A | dditional Probe | 0.25 | |
| PP796 | 279153 | 708643 A | dditional Probe | 0.55 | clean |
| PP797 | 279161 | 708649 A | dditional Probe | 0.5 | |
| | | 700655 | dditional Probe | 0.25 | clean |
| PP798 | 279169 | 708655 A | | | |
| PP798 PP799 | 279169 279177 | | dditional Probe | - | Dense tree coverage preventing access |
| | | 708661 A | | - | Dense tree coverage preventing access Dense tree coverage preventing access |
| PP799 | 279177 | 708661 A 708666 A | dditional Probe | | |
| PP799 PP800 | 279177 279185 | 708661 A 708666 A 708672 A | dditional Probe | - | Dense tree coverage preventing access |

| PP804 | 279217 | 708690 | Additional Probe | 0.25 | |
|-------|--------|--------|------------------|------|---------------------------------------|
| PP805 | 279225 | 708696 | Additional Probe | 0.1 | |
| PP806 | 279233 | 708702 | Additional Probe | 0 | gravel road |
| PP807 | 279241 | 708708 | Additional Probe | 0.2 | topsoil |
| PP808 | 279249 | 708714 | Additional Probe | 0.35 | topsoil |
| PP809 | 279142 | 708623 | Additional Probe | 0.35 | topsoil |
| PP810 | 279150 | 708629 | Additional Probe | 0.4 | clean |
| PP811 | 279158 | 708635 | Additional Probe | 0.25 | clean |
| PP812 | 279167 | 708641 | Additional Probe | 0.4 | |
| PP813 | 279175 | 708647 | Additional Probe | 0.3 | clean |
| PP814 | 279183 | 708653 | Additional Probe | - | Dense tree coverage preventing access |
| PP815 | 279191 | 708659 | Additional Probe | - | Dense tree coverage preventing access |
| PP816 | 279199 | 708664 | Additional Probe | - | Dense tree coverage preventing access |
| PP817 | 279207 | 708670 | Additional Probe | - | Dense tree coverage preventing access |
| PP818 | 279215 | 708676 | Additional Probe | - | Dense tree coverage preventing access |
| PP819 | 279223 | 708682 | Additional Probe | - | Dense tree coverage preventing access |
| PP820 | 279231 | 708688 | Additional Probe | - | Dense tree coverage preventing access |
| PP821 | 279239 | 708694 | Additional Probe | 0.2 | clean |
| PP822 | 279247 | 708700 | Additional Probe | 0 | |
| PP823 | 279165 | 708628 | Additional Probe | 0.4 | topsoil |
| PP824 | 279173 | 708634 | Additional Probe | 0.35 | topsoil |
| PP825 | 279181 | 708640 | Additional Probe | 0.35 | topsoil |
| PP826 | 279189 | 708646 | Additional Probe | - | Dense tree coverage preventing access |
| PP827 | 279197 | 708651 | Additional Probe | - | Dense tree coverage preventing access |
| PP828 | 279205 | 708657 | Additional Probe | - | Dense tree coverage preventing access |
| PP829 | 279213 | 708663 | Additional Probe | - | Dense tree coverage preventing access |
| PP830 | 279221 | 708669 | Additional Probe | - | Dense tree coverage preventing access |
| PP831 | 279229 | 708675 | Additional Probe | - | Dense tree coverage preventing access |
| PP832 | 279237 | 708681 | Additional Probe | - | Dense tree coverage preventing access |
| PP833 | 279245 | 708687 | Additional Probe | - | Dense tree coverage preventing access |
| PP834 | 279186 | 708634 | Additional Probe | 0.5 | clean |
| PP835 | 279194 | | Additional Probe | - | Dense tree coverage preventing access |
| PP836 | 279202 | 708646 | Additional Probe | - | Dense tree coverage preventing access |
| PP837 | 279210 | 708651 | Additional Probe | - | Dense tree coverage preventing access |
| PP838 | 279218 | 708657 | Additional Probe | - | Dense tree coverage preventing access |
| PP839 | 279226 | 708663 | Additional Probe | - | Dense tree coverage preventing access |
| PP840 | 279234 | 708669 | Additional Probe | - | Dense tree coverage preventing access |
| PP841 | 279242 | 708675 | Additional Probe | - | Dense tree coverage preventing access |
| PP842 | 279208 | | Additional Probe | - | Dense tree coverage preventing access |
| PP843 | 279216 | | Additional Probe | - | Dense tree coverage preventing access |
| PP844 | 279224 | 708650 | Additional Probe | - | Dense tree coverage preventing access |
| PP845 | 279232 | 708656 | Additional Probe | - | Dense tree coverage preventing access |
| PP846 | 279240 | | Additional Probe | - | Dense tree coverage preventing access |
| PP847 | 279237 | 708649 | Additional Probe | - | Dense tree coverage preventing access |



Technical Note SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

SSEN Transmission Cambushinnie 400kV Substation Upgrade

Additional Peat Probe Survey

| Client name | | Project name | | Project number |
|--|------------------|--|-------------|-----------------------------|
| Scottish & Southern Electricity Networks (SSEN) Transmission | | Cambushinnie 400kV Substation Upgrade | | 60721943 |
| Prepared by | Checked by | Verified by | Approved by | |
| Sally Bennett | Claire Vallis | David Raeside | | |
| Date: 20.12.2024 | Date: 10.01.2025 | Date: 17.02.2025 | Date: | |
| Document No. | | Revision | | Date |
| - | | 1 | | 20 th March 2025 |

Introduction

Scottish & Southern Electricity Networks (SSEN) Transmission is proposing to upgrade the existing Beauly-Denny 275 kV circuit to 400 kV to mirror the ratings of the existing 400 kV circuit which runs along the route. SSEN Transmission have therefore proposed to construct a new 400kV substation in the proximity of the existing Braco West Substation. As part of the works a new overhead line link is also required to tie-in the new substation to the existing network and a new underground cable connection is required to tie the existing substation into the new. There is also a requirement for a new access track to lead into the new proposed substation, as well as the potential for upgrading the existing, if this does not meet the requirement for construction and operation of the new proposed substation.

AECOM have been commissioned to undertake the Environmental Appraisal (EA) for the new proposed substation, associated access track and the new overhead line link. Based on information provided by the Client and review of the BGS Geoindex¹, the site is known to be underlain by peat deposits which must be taken into consideration as part of the EIAR process. An initial phase of peat investigation was undertaken by Igne in late 2023 comprising of a 10m x 10m grid of peat probing covering two potential sites of the proposed substation and proposed overhead line. Since this probing was undertaken, the site of the proposed substation and access track into the new substation has been finalised with the probing undertaken identified as not covering the full footprint of the proposed works. Additional peat probing was conducted by AECOM in March 2024 to cover some of the areas not previously investigated with further probing and coring undertaken in December 2024 to complete the investigation of areas included in the proposed restoration and landscaping.

This technical note provides details of the additional peat probing undertaken by AECOM in December 2024.

Site Description

The site is located on the eastern slopes of Feddal Hill approximately 4.0km west of Braco within Perth and Kinross. The site is within an area of commercial forestry comprising of mature and semi mature trees as well as areas of felled trees. The existing Braco West Substation (275kV) is present to the northeast with overhead electrical cables from the Beauly to Denny line leading into the existing substation. The overhead cables intersect the site from the northeast heading in a southwest direction.

¹ BGS (2024) Geoindex Onshore Viewer, available: <u>GeoIndex - British Geological Survey</u> [accessed December 2024]



SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Site Investigation

Peat Probing

The additional peat probing was carried out by AECOM during December 2024 and was split into three areas as shown in figure 1 below:

- General site south eastern area (947 probes),
- Overhead Line (OHL) 2 no. areas (158 probes),
- Site 1 area (175 probes),

The peat probes across the south eastern area and the OHL were taken on a $10m \times 10m$ grid. The additional probes for the Site 1 area were taken on a $25m \times 25m$ grid. The probing covered areas of the site which were not investigated as part of the initial peat probing by Igne in late 2023 and AECOM in March 2024.

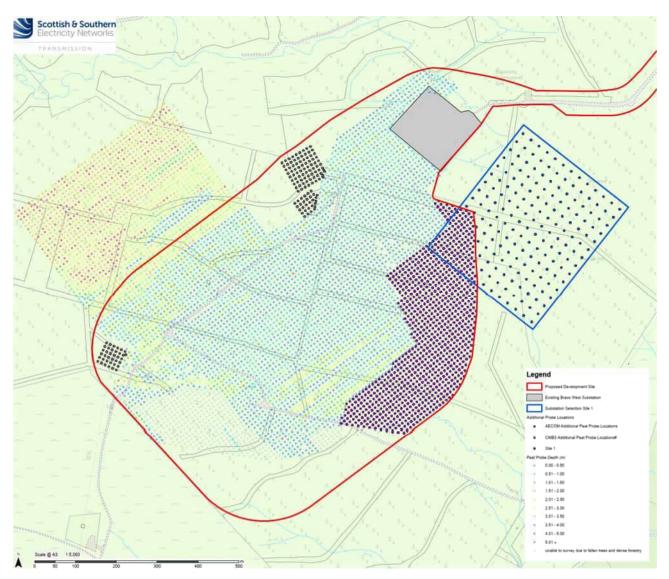


Figure 1: Proposed additional peat probe locations and previous peat probe locations & depths.



SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

The probes used consisted of lightweight non-conductive fibreglass rods and handles which are nominally 1.0m in length with threaded joints allowing extension of the probe as required by the depth of the peat encountered. The probe was manually pushed through the peat at each location until one of the following occurred:

- Refusal of the peat probe;
- Recognisable change in the stiffness in the ground; or,
- Regular granular material could be felt scrapping along the probe.

Due to the nature of peat probing and as no sample is recovered during the advancement of the probe, the peat depth determined is only an estimate based on the judgment of the probe operator. More intrusive investigation techniques, which recover samples, is required to determine the depth of peat more accurately.

Peat Coring

The initial ground investigation undertaken by Igne did not include sampling or testing of the peat deposits encountered in the exploratory holes. In order to assess the peat further and classify it in terms of the Von Post scale, additional peat cores were taken during the site works using a Russian Corer. The cores were undertaken at 7 locations across the site, adjacent to existing trial pits completed during the original investigation. The co-ordinates and ground level of the core location has been taken from the log of the original trial pit.

The cores were logged/photographed and tub samples taken with laboratory testing scheduled and issued to Terra Tek Ltd.

Site Investigation Results

Peat Probing

The drawing within Appendix A shows the locations of all probing completed across the site (i.e. inclusive of original and additional probing), as well as providing details on the depths of peat estimated for each probe location. The drawing also shows where the additional probes were cancelled as access could not be obtained due to either dense mature trees or an underground 33kv electricity cable.

AECOM Additional Probes

In total only 449 of the original planned 947 probe holes were completed (47%). Within the area, probed depths were generally shallow throughout, ranging from 0.0m to 1.0m. As a result, the spacing of the probed grid was widened with only every other row of peat probes undertaken. Where a deeper area of peat was found, the grid was tightened again to 10 x 10m grid.

During the site works, an area of dense trees obstructed access within the southern area of the site and it was not possible to safely undertake all of the probe locations.

OHL Probes

In total 155 of the original planned158 probes were completed (98%). Within the area probe depths ranged from 0.0m to 2.4m and was generally relatively shallow across the site with deeper localised areas. The OHL in the north closer to the existing substation generally had deeper peat than the OHL in the south east of the site.

Site 1 Probes

In total only 79 of the original planned 175 probes were completed (45%). Within the area probed, depths ranged from 0.0m to 0.8m and therefore the peat was relatively shallow across the site.

During the site works, an area of dense mature trees prevented access and an underground 33kv electricity cable were identified and therefore these areas were avoided and the peat probes were cancelled.

Peat Coring

Peat cores were undertaken using a Russian Corer adjacent to existing trial pits TP's 01, 03, 04, 09, 10, 11 & 13 which were completed during the original Igne ground investigation. The depth of peat identified in each core is provided in Table 1 along with a description of the peat and its Von Post classification.



SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

| Core / Location | Depth of Peat (m) | Description | Von Post Classification |
|-----------------|-------------------|---|----------------------------|
| PC01 (TP11) | GL – 0.37 | Soft dark brown to brown fibrous Peat with occasional pieces of wood. | H4/5 |
| | | | B1 |
| PC02 (TP01) | GL – 0.25 | Soft dark brown to brown fibrous Peat | H4/5 |
| | | | B2 |
| PC03 (TP10) | GL – 0.4 | Soft dark brown fibrous Peat | H4/5 |
| | | | B2 |
| PC04 (TP13) | GL – 0.3 | Soft brown fibrous Peat | H4/5 |
| | | | B2 |
| PC05 (TP03) | GL – 0.6 | Soft dark brown to brown fibrous to pseudo fibrous Peat | H4/5 |
| | | | B2 |
| PC06 (TP04) | GL – 0.56 | Soft dark brown to brown fibrous to pseudo fibrous Peat with occasional | H4/5 – H5/6 |
| | | pieces of wood | B2 – B3 |
| PC07 (TP09) | GL – 1.0 | Soft dark brown to brown fibrous to pseudo fibrous Peat | H4/5 – H5/6 |
| | | | B2 – B3 |

Table 1: Peat Coring Details

Logs and Photographs of each core are included in Appendix C.

Samples of peat were sent to Igne's laboratory for moisture content, pH, organic matter content and bulk density testing, the results from which are summarised in Table 2 below, with a copy of their lab report included in Appendix D.

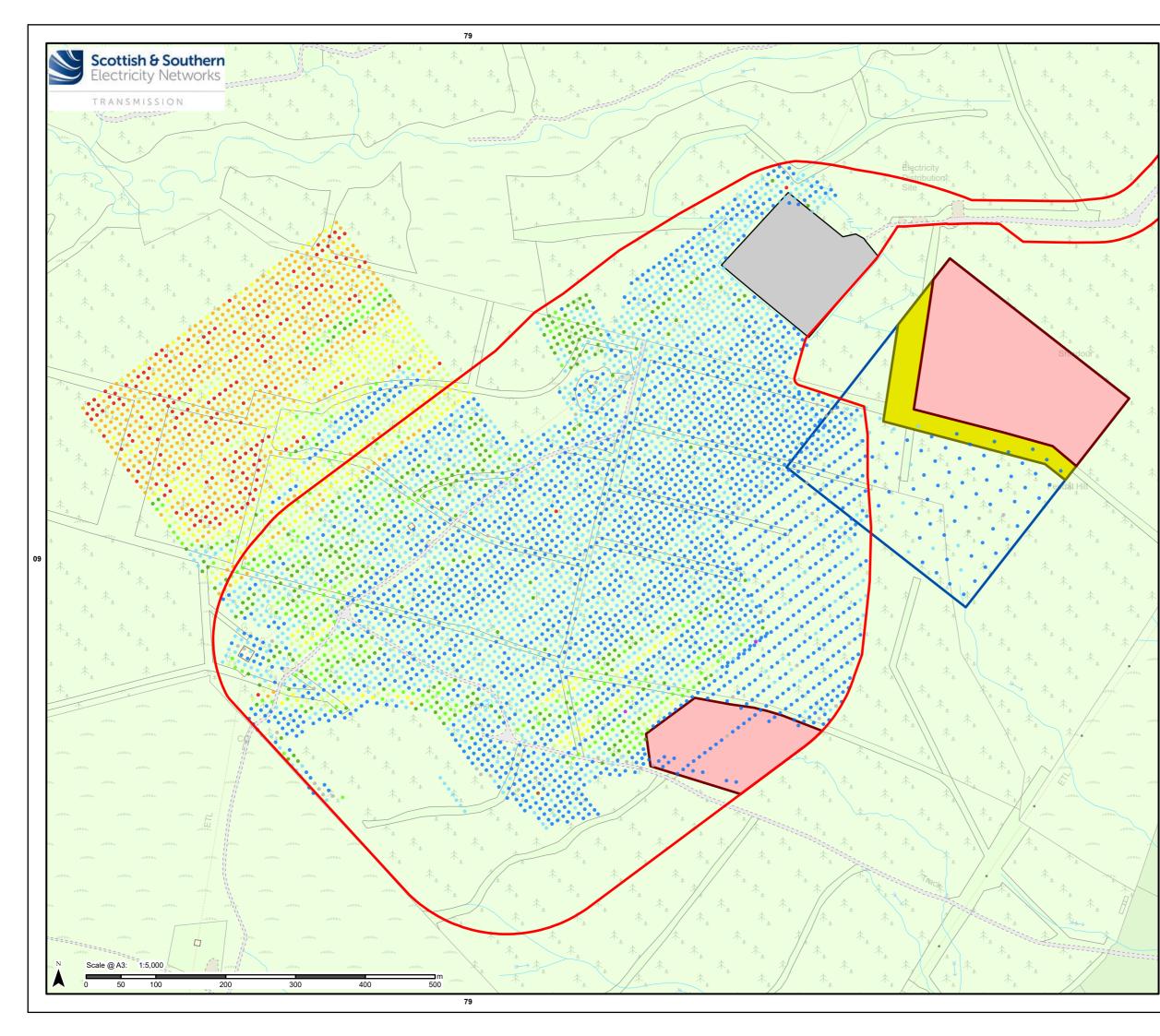
| Core/Location | Depth of Peat (m) | Water Content (%) | Bulk Density (Mg/m³) | Dry Density (Mg/m ³) | рН | Organic Matter Content (%) |
|---------------|----------------------|----------------------|-------------------------|-------------------------------------|-----|-------------------------------|
| PC01/TP11 | 0 - 0.37 | 568 | | | 4.1 | 63.5 |
| PC02/TP01 | 0 – 0.25 | 621 | | | 4.3 | 60.8 |
| PC03/TP10 | 0-0.4 | 486 | 1.21 | 0.21 | 4.6 | 59.1 |
| PC04/TP13 | 0-0.3 | 533 | | | 5.0 | 14.7 |
| PC05/TP03 | 0 - 0.42 | 822 | 1.11 | 0.12 | 4.3 | 67.8 |
| PC05/TP03 | 0.42 - 0.6 | 53.6 | | | 4.9 | 9.7 |
| PC06/TP04 | 0 - 0.43 | 765 | 1.09 | 0.13 | 4.4 | 68.5 |
| PC06/TP04 | 0.43 – 0.56 | 655 | | | 4.4 | 70.2 |
| PC07/TP09 | 0 - 0.5 | 511 | | | 4.0 | 69.5 |
| PC07/TP09 | 0.5 – 1.0 | 498 | 1.16 | 0.19 | 4.3 | 71.7 |

Table 2: Summary of Lab Test Results



SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Appendix A – Drawings



Legend



Existing Braco West Substation

Substation Selection Site 1

Approximate line of 33kV cable. Based on BB drawing and marker posts viewed on site.

Dense mature trees, no access available

Peat Probe Depth (m)

| N/A |
|-------------------------|
|-------------------------|

- 0.00 0.50
- 0.50 1.00
- 1.00 1.50
- 1.50 2.00
- 2.00 2.50
- 2.50 3.00
- 3.00 3.50
- 3.50 4.00
- 4.00 5.00
- 5.00 +

09

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|---|--|
| SSEN Transmission take no responsibility for the re version Basemaps from Ordnance | |
| Project No: LT000520 | |
| Project: Cambushinnie 400kV Sub | station |
| Title: | |
| Peat Probe Locations and Depths December 2024 | |
| | Date: 17/12/2024 |



SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Appendix B – Peat Probe Results

| ProbeID | XCoord | YCoord | Results |
|---------------|--------|--------|---------|
| AECOM_pp_0001 | 279398 | 708678 | |
| AECOM_pp_0002 | 279406 | 708684 | |
| AECOM_pp_0003 | 279414 | 708690 | |
| AECOM_pp_0004 | 279422 | 708697 | |
| AECOM_pp_0005 | 279429 | 708703 | |
| AECOM_pp_0006 | 279437 | 708709 | |
| AECOM_pp_0007 | 279445 | 708715 | |
| AECOM_pp_0008 | 279453 | 708721 | |
| AECOM_pp_0009 | 279461 | 708727 | |
| AECOM_pp_0010 | 279469 | 708733 | |
| AECOM_pp_0011 | 279477 | 708739 | |
| AECOM_pp_0012 | 279485 | 708745 | |
| AECOM_pp_0013 | 279493 | 708751 | |
| AECOM_pp_0014 | 279501 | 708757 | |
| AECOM_pp_0015 | 279509 | 708763 | 0.1 |
| AECOM_pp_0016 | 279517 | 708769 | 0.1 |
| AECOM_pp_0017 | 279384 | 708680 | 0.45 |
| AECOM_pp_0018 | 279392 | 708686 | |
| AECOM_pp_0019 | 279400 | 708692 | |
| AECOM_pp_0020 | 279408 | 708698 | |
| AECOM_pp_0021 | 279415 | 708704 | |
| AECOM_pp_0022 | 279423 | 708711 | |
| AECOM_pp_0023 | 279431 | 708717 | |
| AECOM_pp_0024 | 279439 | 708723 | |
| AECOM_pp_0025 | 279447 | 708729 | |
| AECOM_pp_0026 | 279455 | 708735 | |
| AECOM_pp_0027 | 279463 | 708741 | |
| AECOM_pp_0028 | 279471 | 708747 | |
| AECOM_pp_0029 | 279479 | 708753 | |
| AECOM_pp_0030 | 279487 | 708759 | |
| AECOM_pp_0031 | 279495 | 708765 | 0.1 |
| AECOM_pp_0032 | 279503 | 708771 | 0 |
| AECOM_pp_0033 | 279511 | 708777 | 0.3 |
| AECOM_pp_0034 | 279519 | 708783 | 0.7 |
| AECOM_pp_0035 | 279527 | 708789 | 0 |
| AECOM_pp_0036 | 279535 | 708795 | 0.1 |
| AECOM_pp_0037 | 279370 | 708682 | 0.4 |
| AECOM_pp_0038 | 279378 | 708688 | |
| AECOM_pp_0039 | 279386 | 708694 | |
| AECOM_pp_0040 | 279394 | 708700 | |
| AECOM_pp_0041 | 279401 | 708706 | |
| AECOM_pp_0042 | 279409 | 708712 | |
| AECOM_pp_0043 | 279417 | 708718 | |
| AECOM_pp_0044 | 279425 | 708725 | |
| AECOM_pp_0045 | 279433 | 708731 | |
| AECOM_pp_0046 | 279441 | 708737 | |
| AECOM_pp_0047 | 279449 | 708743 | |
| | | | |

| AECOM_pp_0048 | 279457 | 708749 | |
|---------------|--------|--------|------|
| AECOM_pp_0049 | 279465 | 708755 | |
| AECOM_pp_0050 | 279473 | 708761 | 0.2 |
| AECOM_pp_0051 | 279481 | 708767 | 0.2 |
| AECOM_pp_0052 | 279489 | 708773 | 0.5 |
| AECOM_pp_0053 | 279497 | 708779 | 0.35 |
| AECOM_pp_0054 | 279505 | 708785 | 0.1 |
| AECOM_pp_0055 | 279513 | 708791 | 0.15 |
| AECOM_pp_0056 | 279521 | 708797 | 0.1 |
| AECOM_pp_0057 | 279529 | 708803 | 0.4 |
| AECOM_pp_0058 | 279537 | 708809 | 0.4 |
| AECOM_pp_0059 | 279545 | 708815 | 0.2 |
| AECOM_pp_0060 | 279356 | 708684 | |
| AECOM_pp_0061 | 279364 | 708690 | |
| AECOM_pp_0062 | 279372 | 708696 | |
| AECOM_pp_0063 | 279379 | 708702 | |
| AECOM_pp_0064 | 279387 | 708708 | |
| AECOM_pp_0065 | 279395 | 708714 | |
| AECOM_pp_0066 | 279403 | 708720 | |
| AECOM_pp_0067 | 279411 | 708726 | |
| AECOM_pp_0068 | 279419 | 708733 | |
| AECOM_pp_0069 | 279427 | 708739 | |
| AECOM_pp_0070 | 279435 | 708745 | |
| AECOM_pp_0071 | 279443 | 708751 | |
| AECOM_pp_0072 | 279451 | 708757 | |
| AECOM_pp_0073 | 279459 | 708763 | |
| AECOM_pp_0074 | 279467 | 708769 | 0.3 |
| AECOM_pp_0075 | 279475 | 708775 | 0.3 |
| AECOM_pp_0076 | 279483 | 708781 | 0.6 |
| AECOM_pp_0077 | 279491 | 708787 | 0.2 |
| AECOM_pp_0078 | 279499 | 708793 | 0.4 |
| AECOM_pp_0079 | 279507 | 708799 | 0.3 |
| AECOM_pp_0080 | 279515 | 708805 | 0.3 |
| AECOM_pp_0081 | 279523 | 708811 | 0.4 |
| AECOM_pp_0082 | 279531 | 708817 | 0.2 |
| AECOM_pp_0083 | 279539 | 708823 | 0.25 |
| AECOM_pp_0084 | 279547 | 708829 | 0.1 |
| AECOM_pp_0085 | 279342 | 708686 | |
| AECOM_pp_0086 | 279350 | 708692 | |
| AECOM_pp_0087 | 279358 | 708698 | |
| AECOM_pp_0088 | 279365 | 708704 | |
| AECOM_pp_0089 | 279373 | 708710 | |
| AECOM_pp_0090 | 279381 | 708716 | |
| AECOM_pp_0091 | 279389 | 708722 | |
| AECOM_pp_0092 | 279397 | 708728 | |
| AECOM_pp_0093 | 279405 | 708734 | |
| AECOM_pp_0094 | 279413 | 708740 | |
| AECOM_pp_0095 | 279421 | 708747 | |
| | | | |

| AECOM_pp_0096 | 279429 | 708753 | |
|--------------------------------|--------|--------|------|
| AECOM_pp_0097 | 279437 | 708759 | |
| AECOM_pp_0098 | 279445 | 708765 | |
| AECOM_pp_0099 | 279453 | 708771 | |
| AECOM_pp_0100 | 279461 | 708777 | |
| AECOM_pp_0101 | 279469 | 708783 | |
| AECOM_pp_0102 | 279477 | 708789 | |
| AECOM_pp_0103 | 279485 | 708795 | |
| AECOM_pp_0104 | 279493 | 708801 | |
| AECOM_pp_0105 | 279501 | 708807 | |
| AECOM_pp_0106 | 279509 | 708813 | |
| AECOM_pp_0107 | 279517 | 708819 | |
| AECOM_pp_0108 | 279525 | 708825 | |
| AECOM_pp_0109 | 279533 | 708831 | |
| AECOM_pp_0110 | 279541 | 708837 | |
| AECOM_pp_0111 | 279549 | 708843 | |
| AECOM_pp_0112 | 279328 | 708688 | |
| AECOM_pp_0112 | 279336 | 708694 | 0.2 |
| AECOM_pp_0114 | 279344 | 708700 | 0.2 |
| AECOM_pp_0115 | 279351 | 708706 | |
| AECOM_pp_0116 | 279359 | 708712 | |
| AECOM_pp_0117 | 279367 | 708718 | |
| AECOM_pp_0118 | 279375 | 708724 | |
| AECOM_pp_0119 | 279383 | 708730 | |
| AECOM_pp_0120 | 279391 | 708736 | |
| AECOM_pp_0121 | 279399 | 708742 | |
| AECOM_pp_0122 | 279407 | 708748 | |
| AECOM_pp_0123 | 279415 | 708754 | |
| AECOM_pp_0124 | 279423 | 708761 | |
| AECOM_pp_0125 | 279431 | 708767 | 0.1 |
| AECOM_pp_0126 | 279439 | 708773 | 0.25 |
| AECOM_pp_0127 | 279447 | 708779 | 0.1 |
| AECOM_pp_0128 | 279455 | 708785 | 0.5 |
| AECOM_pp_0129 | 279463 | 708791 | 0.2 |
| AECOM_pp_0120 | 279471 | 708791 | 0.2 |
| AECOM_pp_0131 | 279479 | 708803 | 0.2 |
| AECOM_pp_0132 | 279487 | 708809 | 0.4 |
| AECOM_pp_0133 | 279495 | 708815 | 0.0 |
| AECOM_pp_0134 | 279503 | 708821 | 0.2 |
| AECOM_pp_0135 | 279511 | 708827 | 0.1 |
| AECOM_pp_0136 | 279519 | 708833 | 0.3 |
| AECOM_pp_0137 | 279527 | 708839 | 0.45 |
| AECOM_pp_0138 | 279535 | 708845 | 0.40 |
| AECOM_pp_0139 | 279543 | 708851 | 0.2 |
| AECOM_pp_0130 | 279551 | 708857 | 0.2 |
| AECOM_pp_0140 | 279559 | 708863 | 0.2 |
| AECOM_pp_0141 AECOM_pp_0142 | 279339 | 708690 | 0.5 |
| AECOM_pp_0142 AECOM_pp_0143 | 279314 | 708696 | 0.2 |
| 720011_hh_0149 | 213322 | 100000 | 0.2 |

| AECOM_pp_0144 | 279329 | 708702 | |
|--------------------------------|------------------|--------|------|
| AECOM_pp_0145 | 279337 | 708708 | |
| AECOM_pp_0146 | 279345 | 708714 | |
| AECOM_pp_0147 | 279353 | 708720 | |
| AECOM_pp_0148 | 279361 | 708726 | |
| AECOM_pp_0149 | 279369 | 708732 | |
| AECOM_pp_0150 | 279377 | 708738 | |
| AECOM_pp_0151 | 279385 | 708744 | |
| AECOM_pp_0152 | 279393 | 708750 | |
| AECOM_pp_0153 | 279401 | 708756 | |
| AECOM_pp_0154 | 279409 | 708762 | |
| AECOM_pp_0155 | 279417 | 708768 | |
| AECOM_pp_0156 | 279425 | 708775 | |
| AECOM_pp_0157 | 279433 | 708781 | |
| AECOM_pp_0158 | 279441 | 708787 | |
| AECOM_pp_0159 | 279449 | 708793 | |
| AECOM_pp_0160 | 279457 | 708799 | |
| AECOM_pp_0160 | 279457 | 708795 | |
| AECOM_pp_0101 | 279403 | 708803 | |
| AECOM_pp_0163 | 279481 | 708817 | |
| AECOM_pp_0164 | 279489 | 708823 | |
| AECOM_pp_0104 | 279497 | 708829 | |
| AECOM_pp_0105 | 279505 | 708835 | |
| AECOM_pp_0100 AECOM_pp_0167 | 279503 | 708833 | |
| AECOM_pp_0167 | 279513 | 708841 | |
| | 279521 | 708853 | |
| AECOM_pp_0169 | | | |
| AECOM_pp_0170 | 279537 279545 | 708859 | |
| AECOM_pp_0171 | | 708865 | |
| AECOM_pp_0172 | 279553 | 708871 | |
| AECOM_pp_0173 | 279560 | 708877 | 0.1 |
| AECOM_pp_0174 | 279300 | 708692 | 0.1 |
| AECOM_pp_0175 | 279308 | 708698 | 0.1 |
| AECOM_pp_0176 | 279315 | 708704 | 0.1 |
| AECOM_pp_0177 | 279323 | 708710 | 0.2 |
| AECOM_pp_0178 | 279331 | 708716 | 0.2 |
| AECOM_pp_0179 | 279339 | 708722 | 0.2 |
| AECOM_pp_0180 | 279347 | 708728 | 0.1 |
| AECOM_pp_0181 | 279355 | 708734 | 0.1 |
| AECOM_pp_0182 | 279363 | 708740 | 0.2 |
| AECOM_pp_0183 | 279371 | 708746 | 0 |
| AECOM_pp_0184 | 279379 | 708752 | 0.1 |
| AECOM_pp_0185 | 279387 | 708758 | 0.1 |
| AECOM_pp_0186 | 279395 | 708764 | 0.1 |
| AECOM_pp_0187 | 279403 | 708770 | 0.2 |
| AECOM_pp_0188 | 279411 | 708776 | 0.1 |
| AECOM_pp_0189 | 279419 | 708783 | 0.1 |
| AECOM_pp_0190 | 279427 | 708789 | 0.25 |
| AECOM_pp_0191 | 279435 | 708795 | 0.3 |
| | | | |

| AECOM_pp_0192 | 279443 | 708801 | 0.3 |
|---------------|--------|--------|-----|
| AECOM_pp_0193 | 279451 | 708807 | 0.4 |
| AECOM_pp_0194 | 279459 | 708813 | 0.1 |
| AECOM_pp_0195 | 279467 | 708819 | 0.2 |
| AECOM_pp_0196 | 279475 | 708825 | 0.6 |
| AECOM_pp_0197 | 279483 | 708831 | 0.2 |
| AECOM_pp_0198 | 279491 | 708837 | 0.1 |
| AECOM_pp_0199 | 279499 | 708843 | 0.2 |
| AECOM_pp_0200 | 279507 | 708849 | 0.2 |
| AECOM_pp_0201 | 279515 | 708855 | 0.1 |
| AECOM_pp_0202 | 279523 | 708861 | 0.4 |
| AECOM_pp_0203 | 279531 | 708867 | 0.5 |
| AECOM_pp_0204 | 279539 | 708873 | 0.3 |
| AECOM_pp_0205 | 279546 | 708879 | 0 |
| AECOM_pp_0206 | 279554 | 708885 | 0.4 |
| AECOM_pp_0207 | 279562 | 708891 | 0.2 |
| AECOM_pp_0208 | 279286 | 708694 | |
| AECOM_pp_0209 | 279294 | 708700 | |
| AECOM_pp_0210 | 279301 | 708706 | |
| AECOM_pp_0211 | 279309 | 708712 | |
| AECOM_pp_0212 | 279317 | 708718 | |
| AECOM_pp_0213 | 279325 | 708724 | |
| AECOM_pp_0214 | 279333 | 708730 | |
| AECOM_pp_0215 | 279341 | 708736 | |
| AECOM_pp_0216 | 279349 | 708742 | |
| AECOM_pp_0217 | 279357 | 708748 | |
| AECOM_pp_0218 | 279365 | 708754 | |
| AECOM_pp_0219 | 279373 | 708760 | |
| AECOM_pp_0220 | 279381 | 708766 | |
| AECOM_pp_0221 | 279389 | 708772 | |
| AECOM_pp_0222 | 279397 | 708778 | |
| AECOM_pp_0223 | 279405 | 708784 | |
| AECOM_pp_0224 | 279413 | 708790 | |
| AECOM_pp_0225 | 279421 | 708797 | |
| AECOM_pp_0226 | 279429 | 708803 | |
| AECOM_pp_0227 | 279437 | 708809 | |
| AECOM_pp_0228 | 279445 | 708815 | |
| AECOM_pp_0229 | 279453 | 708821 | |
| AECOM_pp_0230 | 279461 | 708827 | |
| AECOM_pp_0231 | 279469 | 708833 | |
| AECOM_pp_0232 | 279477 | 708839 | |
| AECOM_pp_0233 | 279485 | 708845 | |
| AECOM_pp_0234 | 279493 | 708851 | |
| AECOM_pp_0235 | 279501 | 708857 | |
| AECOM_pp_0236 | 279509 | 708863 | |
| AECOM_pp_0237 | 279517 | 708869 | |
| AECOM_pp_0238 | 279524 | 708875 | |
| AECOM_pp_0239 | 279532 | 708881 | |
| | | | |

| AECOM_pp_0240 | 279540 | 708887 | |
|--------------------------------|--------|--------|------|
| AECOM_pp_0241 | 279548 | 708893 | |
| AECOM_pp_0242 | 279556 | 708899 | |
| AECOM_pp_0243 | 279564 | 708905 | |
| AECOM_pp_0244 | 279272 | 708696 | |
| AECOM_pp_0245 | 279279 | 708702 | 0.3 |
| AECOM_pp_0246 | 279287 | 708708 | 0.2 |
| AECOM_pp_0247 | 279295 | 708714 | 0.4 |
| AECOM_pp_0248 | 279303 | 708720 | |
| AECOM_pp_0249 | 279311 | 708726 | |
| AECOM_pp_0250 | 279319 | 708732 | |
| AECOM_pp_0251 | 279327 | 708738 | |
| AECOM_pp_0252 | 279335 | 708744 | |
| AECOM_pp_0253 | 279343 | 708750 | |
| AECOM_pp_0253 | 279343 | 708756 | |
| AECOM_pp_0254 | 279351 | 708756 | |
| AECOM_pp_0255 | 279359 | 708762 | |
| | | 708768 | |
| AECOM_pp_0257 | 279375 | | |
| AECOM_pp_0258 | 279383 | 708780 | 0.0 |
| AECOM_pp_0259 | 279391 | 708786 | 0.2 |
| AECOM_pp_0260 | 279399 | 708792 | 0.2 |
| AECOM_pp_0261 | 279407 | 708798 | 0.2 |
| AECOM_pp_0262 | 279415 | 708804 | 0.25 |
| AECOM_pp_0263 | 279423 | 708811 | 0.2 |
| AECOM_pp_0264 | 279431 | 708817 | 0.2 |
| AECOM_pp_0265 | 279439 | 708823 | 0.6 |
| AECOM_pp_0266 | 279447 | 708829 | 0.1 |
| AECOM_pp_0267 | 279455 | 708835 | 0.1 |
| AECOM_pp_0268 | 279463 | 708841 | 0.6 |
| AECOM_pp_0269 | 279471 | 708847 | 0 |
| AECOM_pp_0270 | 279479 | 708853 | 0.2 |
| AECOM_pp_0271 | 279487 | 708859 | 0.3 |
| AECOM_pp_0272 | 279495 | 708865 | 0.25 |
| AECOM_pp_0273 | 279503 | 708871 | 0.15 |
| AECOM_pp_0274 | 279510 | 708877 | 0.1 |
| AECOM_pp_0275 | 279518 | 708883 | 0.3 |
| AECOM_pp_0276 | 279526 | 708889 | 0.4 |
| AECOM_pp_0277 | 279534 | 708895 | 0.45 |
| AECOM_pp_0278 | 279542 | 708901 | 0.2 |
| AECOM_pp_0279 | 279550 | 708907 | 0.4 |
| AECOM_pp_0280 | 279558 | 708913 | 0.4 |
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| AECOM_pp_0282 | 279258 | 708698 | 0.0 |
| AECOM_pp_0283 | 279265 | 708000 | 0 |
| AECOM_pp_0283 | 279273 | 708704 | 0.3 |
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| | | | 0.3 |
| AECOM_pp_0286 | 279289 | 708722 | |
| AECOM_pp_0287 | 279297 | 708728 | |

| AECOM_pp_0288 | 279305 | 708734 | |
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| AECOM_pp_0290 | 279321 | 708746 | |
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| AECOM_pp_0292 | 279337 | 708758 | |
| AECOM_pp_0293 | 279345 | 708764 | |
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| AECOM_pp_0295 | 279361 | 708776 | |
| AECOM_pp_0296 | 279369 | 708782 | |
| AECOM_pp_0297 | 279377 | 708788 | |
| AECOM_pp_0298 | 279385 | 708794 | |
| AECOM_pp_0299 | 279393 | 708800 | |
| AECOM_pp_0300 | 279401 | 708806 | |
| AECOM_pp_0301 | 279409 | 708812 | |
| AECOM_pp_0302 | 279417 | 708818 | |
| AECOM_pp_0303 | 279425 | 708825 | |
| AECOM_pp_0304 | 279433 | 708831 | |
| AECOM_pp_0305 | 279441 | 708837 | |
| AECOM_pp_0306 | 279449 | 708843 | |
| AECOM_pp_0307 | 279457 | 708849 | |
| AECOM_pp_0308 | 279465 | 708855 | |
| AECOM_pp_0309 | 279473 | 708861 | |
| AECOM_pp_0310 | 279481 | 708867 | |
| AECOM_pp_0311 | 279489 | 708873 | |
| AECOM_pp_0312 | 279496 | 708879 | |
| AECOM_pp_0313 | 279504 | 708885 | |
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| AECOM_pp_0317 | 279536 | 708909 | |
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| AECOM_pp_0319 | 279552 | 708921 | |
| AECOM_pp_0320 | 279560 | 708927 | |
| AECOM_pp_0321 | 279568 | 708933 | |
| AECOM_pp_0322 | 279244 | 708699 | |
| AECOM_pp_0323 | 279251 | 708706 | 0.4 |
| AECOM_pp_0324 | 279259 | 708712 | 0.2 |
| AECOM_pp_0325 | 279267 | 708718 | |
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| AECOM_pp_0332 | 279323 | 708760 | |
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| AECOM_pp_0334 | 279339 | 708772 | |
| AECOM_pp_0335 | 279347 | 708778 | |
| · · · · · · · · · · · · · · · · · · · | | | |

| AECOM_pp_0337 279363 708790 AECOM_pp_0338 279371 708796 0.2 AECOM_pp_0340 279387 708808 0.2 AECOM_pp_0341 279395 708814 0.4 AECOM_pp_0342 279403 708820 0.4 AECOM_pp_0342 279411 708826 0.15 AECOM_pp_0344 279419 708833 0.3 AECOM_pp_0345 279427 708839 0.55 AECOM_pp_0344 279443 708851 0.3 AECOM_pp_0348 279451 708863 0.2 AECOM_pp_0350 279467 708869 0.4 AECOM_pp_0351 279474 708875 0.2 AECOM_pp_0352 279490 708887 0.1 AECOM_pp_0354 279498 708893 0.6 AECOM_pp_0355 279506 708899 0.4 AECOM_pp_0358 279530 708171 0.2 AECOM_pp_0359 279538 708923 0.4 AECOM_pp_0361 | AECOM_pp_0336 | 279355 | 708784 | |
|--|---------------|--------|--------|------|
| AECOM_pp_0338 279371 708796 0.2 AECOM_pp_0339 279379 708802 0 AECOM_pp_0340 279387 708808 0.2 AECOM_pp_0341 279395 708814 0.4 AECOM_pp_0342 279403 708820 0.4 AECOM_pp_0342 279419 708833 0.3 AECOM_pp_0345 279427 708839 0.55 AECOM_pp_0346 279453 708851 0.3 AECOM_pp_0342 279443 708857 0.6 AECOM_pp_0350 279467 708869 0.4 AECOM_pp_0351 279474 708875 0.2 AECOM_pp_0352 279490 708887 0.1 AECOM_pp_0354 279498 708893 0.6 AECOM_pp_0355 279506 708899 0.4 AECOM_pp_0358 279530 708171 0.2 AECOM_pp_0361 279546 708929 0.2 AECOM_pp_0361 279554 708713 AECOM_pp_0362 | | | | |
| AECOM_pp_0339 279379 708802 0 AECOM_pp_0340 279387 708808 0.2 AECOM_pp_0341 279395 708814 0.4 AECOM_pp_0342 279403 708820 0.4 AECOM_pp_0343 279411 708833 0.33 AECOM_pp_0344 279427 708839 0.55 AECOM_pp_0346 279435 708845 0.4 AECOM_pp_0348 279459 708863 0.22 AECOM_pp_0350 279467 708857 0.66 AECOM_pp_0351 279474 708875 0.22 AECOM_pp_0352 279482 708893 0.66 AECOM_pp_0355 279506 708893 0.61 AECOM_pp_0355 279506 708893 0.61 AECOM_pp_0355 279506 708893 0.61 AECOM_pp_0356 279514 708905 0.66 AECOM_pp_0361 279522 708917 0.22 AECOM_pp_0362 279538 708923 0.1 | | | | 0.2 |
| AECOM_pp_0340 279387 708808 0.2 AECOM_pp_0341 279395 70814 0.4 AECOM_pp_0342 279403 708820 0.4 AECOM_pp_0343 279411 708826 0.15 AECOM_pp_0344 279413 708833 0.3 AECOM_pp_0345 279427 708839 0.44 AECOM_pp_0346 279435 708845 0.4 AECOM_pp_0348 279451 708863 0.2 AECOM_pp_0350 279467 708869 0.4 AECOM_pp_0351 279442 708875 0.2 AECOM_pp_0352 279482 708893 0.66 AECOM_pp_0355 279506 708893 0.61 AECOM_pp_0355 279507 708817 0.2 AECOM_pp_0356 279514 708905 0.66 AECOM_pp_0350 279522 708911 0.3 AECOM_pp_0361 279548 708923 0.4 AECOM_pp_0362 279554 708943 0.7 | | | | - |
| AECOM_pp_0341 279395 708814 0.4 AECOM_pp_0342 279403 708820 0.4 AECOM_pp_0343 279411 708826 0.15 AECOM_pp_0344 279413 708833 0.33 AECOM_pp_0346 279435 708845 0.4 AECOM_pp_0346 279435 708851 0.3 AECOM_pp_0348 279451 708857 0.6 AECOM_pp_0349 279459 708863 0.2 AECOM_pp_0350 279467 708869 0.4 AECOM_pp_0351 279474 708875 0.2 AECOM_pp_0352 279482 708831 0.25 AECOM_pp_0355 279506 708893 0.6 AECOM_pp_0356 279514 708905 0.6 AECOM_pp_0357 279522 708911 0.3 AECOM_pp_0358 279538 708923 0.4 AECOM_pp_0361 279546 708923 0.1 AECOM_pp_0365 279253 708713 0.7 < | | | | - |
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| AECOM_pp_0343 279411 708826 0.15 AECOM_pp_0344 279419 708833 0.3 AECOM_pp_0345 279427 708839 0.55 AECOM_pp_0346 279435 708845 0.4 AECOM_pp_0347 279443 708851 0.3 AECOM_pp_0349 279459 708863 0.2 AECOM_pp_0350 279467 708869 0.4 AECOM_pp_0351 279474 708875 0.2 AECOM_pp_0352 279482 708881 0.25 AECOM_pp_0353 279490 708887 0.1 AECOM_pp_0354 279498 708935 0.6 AECOM_pp_0355 279506 708993 0.6 AECOM_pp_0356 279514 708905 0.6 AECOM_pp_0358 279538 708923 0.4 AECOM_pp_0361 279546 708929 0.2 AECOM_pp_0362 279557 708947 0.7 AECOM_pp_0366 279253 708720 0.3 < | | | | |
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| AECOM_pp_0440 | 279526 | 708939 | 0.65 |
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| AECOM_pp_0444 | 279558 | 708963 | 0.7 |
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| AECOM_pp_0440 | 279385 | 708844 | |
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| AECOM_pp_0520 | 279454 | 708935 | 0.6 |
| AECOM_pp_0521 | 279462 | 708941 | 0.3 |
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| AECOM_pp_0570 | 279522 | 709011 | 0.3 |
| AECOM_pp_0571 | 279530 | 709017 | 0.3 |
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| AECOM_pp_0573 | 279546 | 709029 | 0.7 |
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| AECOM_pp_0575 | 279562 | 709041 | |
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| AECOM_pp_0594 | 279548 | 709043 | 0.2 |
| AECOM_pp_0595 | 279555 | 709049 | 0.3 |
| AECOM_pp_0596 | 279563 | 709055 | 0.7 |
| AECOM_pp_0597 | 279571 | 709061 | 0.1 |
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| AECOM_pp_0599 | 279414 | 708954 | 0.1 |
| AECOM_pp_0600 | 279422 | 708961 | 0.1 |
| AECOM_pp_0601 | 279430 | 708967 | 0 |
| AECOM_pp_0602 | 279438 | 708973 | 0.3 |
| AECOM_pp_0603 | 279446 | 708979 | 0.1 |
| AECOM_pp_0604 | 279454 | 708985 | 0.1 |
| AECOM_pp_0605 | 279462 | 708991 | 0.1 |
| AECOM_pp_0606 | 279470 | 708997 | 0.2 |
| AECOM_pp_0607 | 279478 | 709003 | 0 |
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| AECOM_pp_0609 | 279494 | 709015 | 0.2 |
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| AECOM_pp_0612 | 279518 | 709033 | 0.3 |
| AECOM_pp_0613 | 279526 | 709039 | 0.5 |
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| AECOM_pp_0619 | 279400 | 708956 | 0.2 |
| AECOM_pp_0620 | 279408 | 708962 | |
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| AECOM_pp_0652 | 279490 | 709037 | 0 |
| AECOM_pp_0653 | 279498 | 709043 | 0.55 |
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| AECOM_pp_0683 | 279555 | 709099 | |
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| AECOM_pp_0686 | 279398 | 708992 | 0.1 |
| AECOM_pp_0687 | 279406 | 708998 | 0.1 |
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| AECOM_pp_0698 | 279493 | 709065 | 0 |
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| AECOM_pp_0702 | 279525 | 709089 | 0.1 |
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| AECOM_pp_0711 | 279408 | 709012 | |
| AECOM_pp_0712 | 279416 | 709012 | |
| AECOM_pp_0713 | 279424 | 709025 | |
| AECOM_pp_0714 | 279432 | 709031 | |
| AECOM_pp_0715 | 279440 | 709037 | |
| AECOM_pp_0716 | 279448 | 709043 | |
| AECOM_pp_0717 | 279455 | 709049 | |
| AECOM_pp_0718 | 279463 | 709055 | |
| AECOM_pp_0719 | 279403 | 709061 | |
| , 001 1_ph_01 10 | 2,04,1 | ,00001 | |

| AECOM_pp_0720 | 279479 | 709067 | |
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| AECOM_pp_0721 | 279487 | 709073 | |
| AECOM_pp_0722 | 279495 | 709079 | |
| AECOM_pp_0723 | 279503 | 709085 | |
| AECOM_pp_0724 | 279511 | 709091 | |
| AECOM_pp_0725 | 279519 | 709097 | |
| AECOM_pp_0726 | 279527 | 709103 | |
| AECOM_pp_0727 | 279535 | 709109 | |
| AECOM_pp_0728 | 279543 | 709115 | |
| AECOM_pp_0729 | 279551 | 709121 | |
| AECOM_pp_0730 | 279559 | 709127 | |
| AECOM_pp_0731 | 279567 | 709133 | |
| AECOM_pp_0732 | 279394 | 709014 | 0.5 |
| AECOM_pp_0733 | 279402 | 709020 | 0.0 |
| AECOM_pp_0734 | 279410 | 709026 | 0.1 |
| AECOM_pp_0735 | 279418 | 709032 | 0.25 |
| AECOM_pp_0736 | 279426 | 709039 | 0.20 |
| AECOM_pp_0737 | 279434 | 709045 | 0.2 |
| AECOM_pp_0738 | 279441 | 709051 | 0.2 |
| AECOM_pp_0739 | 279449 | 709057 | 0.1 |
| AECOM_pp_0740 | 279457 | 709063 | 0.1 |
| AECOM_pp_0741 | 279465 | 709069 | 0.4 |
| AECOM_pp_0742 | 279473 | 709075 | 0.1 |
| AECOM_pp_0743 | 279481 | 709081 | 0.3 |
| AECOM_pp_0744 | 279489 | 709087 | 0.3 |
| AECOM_pp_0745 | 279497 | 709093 | 0 |
| AECOM_pp_0746 | 279505 | 709099 | 0.2 |
| AECOM_pp_0747 | 279513 | 709105 | 0.3 |
| AECOM_pp_0748 | 279521 | 709111 | 0.45 |
| AECOM_pp_0749 | 279529 | 709117 | 0.2 |
| AECOM_pp_0750 | 279537 | 709123 | 0.35 |
| AECOM_pp_0751 | 279545 | 709129 | 0.5 |
| AECOM_pp_0752 | 279553 | 709135 | 0.5 |
| AECOM_pp_0753 | 279561 | 709141 | 0.1 |
| AECOM_pp_0754 | 279569 | 709147 | 0.1 |
| AECOM_pp_0755 | 279388 | 709022 | |
| AECOM_pp_0756 | 279396 | 709028 | |
| AECOM_pp_0757 | 279404 | 709034 | |
| AECOM_pp_0758 | 279412 | 709040 | |
| AECOM_pp_0759 | 279419 | 709047 | |
| AECOM_pp_0760 | 279427 | 709053 | |
| AECOM_pp_0761 | 279435 | 709059 | |
| AECOM_pp_0762 | 279443 | 709065 | |
| AECOM_pp_0763 | 279451 | 709071 | |
| AECOM_pp_0764 | 279459 | 709077 | |
| AECOM_pp_0765 | 279467 | 709083 | |
| AFOOM == 0700 | | | |
| AECOM_pp_0766 | 279475 | 709089 | |

| AECOM_pp_0768 | 279491 | 709101 | |
|--------------------------------|--------|------------------|------|
| AECOM_pp_0769 | 279499 | 709107 | |
| AECOM_pp_0770 | 279507 | 709113 | |
| AECOM_pp_0771 | 279515 | 709119 | |
| AECOM_pp_0772 | 279523 | 709125 | |
| AECOM_pp_0773 | 279531 | 709120 | |
| AECOM_pp_0774 | 279539 | 709137 | |
| AECOM_pp_0775 | 279547 | 709143 | |
| AECOM_pp_0776 | 279555 | 709149 | |
| AECOM_pp_0777 | 279563 | 709145 | |
| AECOM_pp_0778 | 279571 | 709161 | |
| AECOM_pp_0779 | 279382 | 709101 | 0.1 |
| AECOM_pp_0779 | 279390 | 709036 | 0.1 |
| AECOM_pp_0780 | 279398 | 709030 | 0.3 |
| | | | |
| AECOM_pp_0782 | 279405 | 709048 | 0.4 |
| AECOM_pp_0783 | 279413 | 709054 | 0.1 |
| AECOM_pp_0784 | 279421 | 709061 | |
| AECOM_pp_0785 | 279429 | 709067 | 0.3 |
| AECOM_pp_0786 | 279437 | 709073 | 0.3 |
| AECOM_pp_0787 | 279445 | 709079 | 0.25 |
| AECOM_pp_0788 | 279453 | 709085 | 0.2 |
| AECOM_pp_0789 | 279461 | 709091 | 0.1 |
| AECOM_pp_0790 | 279469 | 709097 | 0.3 |
| AECOM_pp_0791 | 279477 | 709103 | 0.3 |
| AECOM_pp_0792 | 279485 | 709109 | 0 |
| AECOM_pp_0793 | 279493 | 709115 | 0.65 |
| AECOM_pp_0794 | 279501 | 709121 | 0.2 |
| AECOM_pp_0795 | 279509 | 709127 | 0.1 |
| AECOM_pp_0796 | 279517 | 709133 | 0.1 |
| AECOM_pp_0797 | 279525 | 709139 | 0.1 |
| AECOM_pp_0798 | 279533 | 709145 | 0.1 |
| AECOM_pp_0799 | 279541 | 709151 | 0.4 |
| AECOM_pp_0800 | 279549 | 709157 | 0.1 |
| AECOM_pp_0801 | 279557 | 709163 | 0.1 |
| AECOM_pp_0802 | 279565 | 709169 | 0.2 |
| AECOM_pp_0803 | 279376 | 709038 | |
| AECOM_pp_0804 | 279384 | 709044 | |
| AECOM_pp_0805 | 279391 | 709050 | |
| AECOM_pp_0806 | 279399 | 709056 | |
| AECOM_pp_0807 | 279407 | 709062 | |
| AECOM_pp_0808 | 279415 | 709068 | |
| AECOM_pp_0809 | 279423 | 709075 | |
| AECOM_pp_0810 | 279431 | 709081 | |
| AECOM_pp_0811 | 279439 | 709087 | |
| AECOM_pp_0812 | 279447 | 709093 | |
| | | | |
| AECOM_pp_0813 | 279455 | 709099 | |
| AECOM_pp_0813 AECOM_pp_0814 | | 709099 709105 | |

| AECOM_pp_0816 | 279479 | 709117 | |
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| AECOM_pp_0817 | 279487 | 709123 | |
| AECOM_pp_0818 | 279495 | 709129 | |
| AECOM_pp_0819 | 279503 | 709135 | |
| AECOM_pp_0820 | 279511 | 709141 | |
| AECOM_pp_0821 | 279519 | 709147 | |
| AECOM_pp_0822 | 279527 | 709153 | |
| AECOM_pp_0823 | 279535 | 709159 | |
| AECOM_pp_0824 | 279543 | 709165 | |
| AECOM_pp_0825 | 279551 | 709171 | |
| AECOM_pp_0826 | 279559 | 709177 | |
| AECOM_pp_0827 | 279567 | 709183 | |
| AECOM_pp_0828 | 279370 | 709046 | 0.35 |
| AECOM_pp_0829 | 279377 | 709052 | 0.2 |
| AECOM_pp_0830 | 279385 | 709058 | 0.2 |
| AECOM_pp_0831 | 279393 | 709064 | 0.2 |
| AECOM_pp_0831 | 279393 | 709004 | 0.8 |
| AECOM_pp_0832 | 279401 | 709076 | 0.25 |
| AECOM_pp_0833 | 279409 | 709082 | 0.23 |
| AECOM_pp_0834 | 279417 | 709082 | 0.4 |
| AECOM_pp_0835 | 279423 | 709089 | 0.1 |
| | 279433 | 709095 | 0.3 |
| AECOM_pp_0837 | - | | |
| AECOM_pp_0838 | 279449 | 709107 | 0.3 |
| AECOM_pp_0839 | 279457 | 709113 | 0.1 |
| AECOM_pp_0840 | 279465 | 709119 | 0.1 |
| AECOM_pp_0841 | 279473 | 709125 | 0.2 |
| AECOM_pp_0842 | 279481 | 709131 | 0.1 |
| AECOM_pp_0843 | 279489 | 709137 | 0.1 |
| AECOM_pp_0844 | 279497 | 709143 | 0.1 |
| AECOM_pp_0845 | 279505 | 709149 | 0.5 |
| AECOM_pp_0846 | 279513 | 709155 | 0.5 |
| AECOM_pp_0847 | 279521 | 709161 | 0.2 |
| AECOM_pp_0848 | 279529 | 709167 | 0.1 |
| AECOM_pp_0849 | 279537 | 709173 | 0.1 |
| AECOM_pp_0850 | 279545 | 709179 | 0.4 |
| AECOM_pp_0851 | 279553 | 709185 | 0.4 |
| AECOM_pp_0852 | 279561 | 709191 | |
| AECOM_pp_0853 | 279569 | 709197 | |
| AECOM_pp_0854 | 279363 | 709054 | 0.4 |
| AECOM_pp_0855 | 279371 | 709060 | 0.1 |
| AECOM_pp_0856 | 279379 | 709066 | 0.5 |
| AECOM_pp_0857 | 279387 | 709072 | 0 |
| AECOM_pp_0858 | 279395 | 709078 | 0.3 |
| AECOM_pp_0859 | 279403 | 709084 | 0.4 |
| AECOM_pp_0860 | 279411 | 709090 | 0.3 |
| AECOM_pp_0861 | 279419 | 709097 | 0.4 |
| AECOM_pp_0862 | 279427 | 709103 | 0.3 |
| AECOM_pp_0863 | 279435 | 709109 | 0.45 |
| | | | |

| AECOM_pp_0864 | 279443 | 709115 | 0.4 |
|---------------|--------|--------|------|
| AECOM_pp_0865 | 279451 | 709121 | 0.1 |
| AECOM_pp_0866 | 279459 | 709127 | 0.2 |
| AECOM_pp_0867 | 279467 | 709133 | 0.1 |
| AECOM_pp_0868 | 279475 | 709139 | 0.45 |
| AECOM_pp_0869 | 279483 | 709145 | 0.1 |
| AECOM_pp_0870 | 279491 | 709151 | 0.35 |
| AECOM_pp_0871 | 279499 | 709157 | 0.2 |
| AECOM_pp_0872 | 279507 | 709163 | 0.1 |
| AECOM_pp_0873 | 279515 | 709169 | 0.45 |
| AECOM_pp_0874 | 279523 | 709175 | 0.5 |
| AECOM_pp_0875 | 279531 | 709181 | 0.1 |
| AECOM_pp_0876 | 279539 | 709187 | 0.4 |
| AECOM_pp_0877 | 279547 | 709193 | 0.7 |
| AECOM_pp_0878 | 279555 | 709199 | 0.7 |
| AECOM_pp_0879 | 279563 | 709205 | 0.6 |
| AECOM_pp_0880 | 279357 | 709062 | 0.25 |
| AECOM_pp_0881 | 279365 | 709068 | 0.3 |
| AECOM_pp_0882 | 279373 | 709074 | 0.1 |
| AECOM_pp_0883 | 279381 | 709080 | 0.3 |
| AECOM_pp_0884 | 279389 | 709086 | 0.1 |
| AECOM_pp_0885 | 279397 | 709092 | 0.55 |
| AECOM_pp_0886 | 279405 | 709098 | 0.15 |
| AECOM_pp_0887 | 279413 | 709104 | 0.4 |
| AECOM_pp_0888 | 279421 | 709111 | 1 |
| AECOM_pp_0889 | 279429 | 709117 | 0.2 |
| AECOM_pp_0890 | 279437 | 709123 | 0.1 |
| AECOM_pp_0891 | 279445 | 709129 | 0.4 |
| AECOM_pp_0892 | 279453 | 709135 | 0.1 |
| AECOM_pp_0893 | 279461 | 709141 | 0.3 |
| AECOM_pp_0894 | 279469 | 709147 | 0.25 |
| AECOM_pp_0895 | 279477 | 709153 | 0.3 |
| AECOM_pp_0896 | 279485 | 709159 | 0.2 |
| AECOM_pp_0897 | 279493 | 709165 | 0.2 |
| AECOM_pp_0898 | 279501 | 709171 | 0.2 |
| AECOM_pp_0899 | 279509 | 709177 | 0.6 |
| AECOM_pp_0900 | 279517 | 709183 | 0.3 |
| AECOM_pp_0901 | 279525 | 709189 | 0.1 |
| AECOM_pp_0902 | 279533 | 709195 | 0.3 |
| AECOM_pp_0903 | 279541 | 709201 | 0.4 |
| AECOM_pp_0904 | 279549 | 709207 | 0.2 |
| AECOM_pp_0905 | 279557 | 709213 | 0.5 |
| AECOM_pp_0906 | 279511 | 709191 | 0.15 |
| AECOM_pp_0907 | 279519 | 709197 | 0.2 |
| AECOM_pp_0908 | 279527 | 709203 | 0.4 |
| AECOM_pp_0909 | 279535 | 709209 | 0.3 |
| AECOM_pp_0910 | 279543 | 709215 | 0.55 |
| AECOM_pp_0911 | 279550 | 709221 | |
| | | | |

| AECOM_pp_0912 | 279505 | 709199 | 0.1 |
|---------------|--------|--------|-----|
| AECOM_pp_0913 | 279513 | 709205 | 0.1 |
| AECOM_pp_0914 | 279521 | 709211 | 0 |
| AECOM_pp_0915 | 279529 | 709217 | 0.1 |
| AECOM_pp_0916 | 279536 | 709223 | 0.1 |
| AECOM_pp_0917 | 279499 | 709220 | 0.4 |
| AECOM_pp_0918 | 279507 | 709213 | 0.4 |
| AECOM_pp_0919 | 279515 | 709219 | 0.1 |
| AECOM_pp_0910 | 279522 | 709215 | 0.1 |
| AECOM_pp_0921 | 279493 | 709215 | 0.0 |
| AECOM_pp_0922 | 279500 | 709213 | 0.1 |
| AECOM_pp_0923 | 279508 | 709227 | 0.2 |
| AECOM_pp_0923 | 279508 | 709233 | 0.2 |
| AECOM_pp_0924 | 279310 | 709233 | |
| AECOM_pp_0925 | 279480 | 709223 | 0.2 |
| AECOM_pp_0920 | 279494 | 709229 | 0.2 |
| | 279302 | 709233 | 0.1 |
| AECOM_pp_0928 | 279480 | 709231 | 0.2 |
| AECOM_pp_0929 | 279488 | 709237 | 0.2 |
| AECOM_pp_0930 | | | 0.3 |
| AECOM_pp_0931 | 279482 | 709245 | |
| AECOM_pp_0932 | 279337 | 708808 | |
| AECOM_pp_0933 | 279305 | 708784 | |
| AECOM_pp_0934 | 279289 | 708772 | |
| AECOM_pp_0935 | 279313 | 708790 | |
| AECOM_pp_0936 | 279369 | 708832 | |
| AECOM_pp_0937 | 279321 | 708796 | |
| AECOM_pp_0938 | 279353 | 708820 | |
| AECOM_pp_0939 | 279345 | 708814 | |
| AECOM_pp_0940 | 279329 | 708802 | |
| AECOM_pp_0941 | 279273 | 708760 | |
| AECOM_pp_0942 | 279361 | 708826 | |
| AECOM_pp_0943 | 279377 | 708838 | |
| AECOM_pp_0944 | 279257 | 708748 | |
| AECOM_pp_0945 | 279297 | 708778 | |
| AECOM_pp_0946 | 279265 | 708754 | |
| AECOM_pp_0947 | 279281 | 708766 | |
| OHL_0121 | 279173 | 709288 | 1 |
| OHL_0001 | 279169 | 709297 | 1.1 |
| OHL_0002 | 279164 | 709306 | 1 |
| OHL_0003 | 279159 | 709314 | 1.2 |
| OHL_0004 | 279154 | 709323 | 1.3 |
| OHL_0005 | 279149 | 709332 | 1.3 |
| OHL_0006 | 279144 | 709341 | 1.6 |
| OHL_0007 | 279139 | 709349 | 1.5 |
| OHL_0008 | 279134 | 709358 | 0.5 |
| OHL_0009 | 279165 | 709283 | 0.9 |
| OHL_0010 | 279160 | 709292 | 1.1 |
| OHL_0011 | 279155 | 709301 | 1.1 |

| 0111 0010 | 070150 | 700010 | 1 1 |
|-----------|--------|--------|------|
| OHL_0012 | 279150 | 709310 | 1.1 |
| OHL_0013 | 279145 | 709318 | 1.3 |
| OHL_0014 | 279140 | 709327 | 1.4 |
| OHL_0015 | 279135 | 709336 | 1.1 |
| OHL_0016 | 279130 | 709344 | 1.65 |
| OHL_0017 | 279125 | 709353 | 1.6 |
| OHL_0018 | 279139 | 709269 | 0.8 |
| OHL_0019 | 279134 | 709277 | 2 |
| OHL_0020 | 279129 | 709286 | 0.9 |
| OHL_0021 | 279124 | 709295 | 1.2 |
| OHL_0022 | 279119 | 709303 | 1.1 |
| OHL_0023 | 279114 | 709312 | 0.75 |
| OHL_0024 | 279109 | 709321 | 1.3 |
| OHL_0025 | 279104 | 709329 | 0.8 |
| OHL_0026 | 279099 | 709338 | 0.8 |
| OHL_0027 | 279147 | 709274 | 1.2 |
| OHL_0028 | 279142 | 709282 | 1 |
| OHL_0029 | 279138 | 709291 | 0.95 |
| OHL_0030 | 279133 | 709300 | 0.9 |
| OHL_0031 | 279128 | 709308 | 1.2 |
| OHL_0032 | 279123 | 709317 | 1.4 |
| OHL_0033 | 279118 | 709326 | 1.7 |
| OHL_0034 | 279113 | 709334 | 1.4 |
| OHL_0035 | 279108 | 709343 | 1.4 |
| OHL_0036 | 279156 | 709279 | 1.2 |
| OHL_0037 | 279151 | 709287 | 1.1 |
| OHL_0038 | 279146 | 709296 | 1.1 |
| OHL_0039 | 279141 | 709305 | 1.1 |
| OHL_0040 | 279136 | 709313 | 1.6 |
| OHL_0041 | 279131 | 709322 | 1.5 |
| OHL_0042 | 279126 | 709331 | 1.6 |
| OHL_0043 | 279121 | 709339 | 1.5 |
| OHL_0044 | 279116 | 709348 | 1.4 |
| OHL_0045 | 279165 | 709283 | 0.9 |
| OHL_0046 | 279160 | 709292 | 1.1 |
| OHL_0047 | 279155 | 709301 | 1.1 |
| OHL_0048 | 279150 | 709310 | 1.1 |
| OHL_0049 | 279145 | 709318 | 1.3 |
| OHL_0050 | 279140 | 709327 | 1.4 |
| OHL_0051 | 279135 | 709336 | 1.1 |
| OHL_0052 | 279130 | 709344 | 1.65 |
| OHL_0053 | 279125 | 709353 | 1.6 |
| OHL_0054 | 279182 | 709293 | 1.1 |
| OHL_0055 | 279177 | 709302 | 1 |
| OHL_0056 | 279172 | 709311 | 1 |
| OHL_0057 | 279167 | 709319 | 1.4 |
| OHL_0058 | 279162 | 709328 | 1.4 |
| OHL_0059 | 279157 | 709337 | 1.3 |
| | - | | - |

| OHL_0060 | 279152 | 709345 | 1 |
|--------------|--------|--------|------|
| OHL_0061 | 279148 | 709354 | 1 |
| OHL_0062 | 279143 | 709363 | 1.5 |
| OHL_0063 | 279191 | 709298 | 1.2 |
| OHL_0064 | 279186 | 709307 | 1.2 |
| OHL_0065 | 279181 | 709316 | 0.7 |
| OHL_0066 | 279176 | 709324 | 1.2 |
| OHL_0067 | 279171 | 709333 | 1.1 |
| OHL_0068 | 279166 | 709342 | 1 |
| OHL_0069 | 279161 | 709350 | 0.7 |
| OHL_0070 | 279156 | 709359 | 1.2 |
| OHL_0071 | 279151 | 709368 | 1.2 |
| OHL_0072 | 279200 | 709303 | 0.8 |
| OHL_0073 | 279195 | 709312 | 0.9 |
| OHL_0074 | 279190 | 709321 | 1.2 |
| OHL_0075 | 279185 | 709329 | 1.1 |
| OHL_0076 | 279180 | 709338 | 1.1 |
| OHL_0077 | 279175 | 709347 | 0.9 |
| OHL_0078 | 279170 | 709355 | 0.85 |
| OHL_0079 | 279165 | 709364 | 1.1 |
| OHL_0080 | 279160 | 709373 | 1.2 |
| OHL_0081 | 279203 | 709317 | 0.8 |
| OHL_0082 | 279198 | 709326 | 1 |
| OHL_0083 | 279193 | 709334 | 1 |
| OHL_0084 | 279188 | 709343 | 0.9 |
| OHL 0085 | 279183 | 709352 | 0.6 |
| OHL_0086 | 279179 | 709360 | 0.4 |
| OHL_0087 | 279174 | 709369 | 1.1 |
| OHL_0088 | 279169 | 709378 | 1.1 |
| OHL_0089 | 279154 | 709207 | 0 |
| OHL_0090 | 279148 | 709215 | 0.7 |
| OHL_0091 | 279142 | 709223 | 0.55 |
| OHL_0092 | 279137 | 709231 | 0.7 |
| OHL_0093 | 279131 | 709239 | 0.5 |
| OHL_0094 | 279162 | 709213 | 0.55 |
| OHL_0095 | 279156 | 709221 | 0.75 |
| OHL_0096 | 279151 | 709229 | 0.4 |
| OHL_0097 | 279145 | 709237 | 0.75 |
| OHL_0098 | 279139 | 709245 | 0.7 |
| OHL_0099 | 279170 | 709219 | 0.45 |
| OHL_0100 | 279165 | 709227 | 0.65 |
| OHL_0101 | 279159 | 709235 | 0.5 |
| OHL_0102 | 279153 | 709243 | 0.5 |
| OHL_0103 | 279147 | 709251 | 0.8 |
| OHL_0104 | 279179 | 709225 | 0.6 |
| OHL_0105 | 279173 | 709233 | 1 |
| OHL_0106 | 279167 | 709241 | 0.7 |
| OHL_0107 | 279161 | 709249 | 0.35 |
| , | _/0101 | | 0.00 |

| 0111 0100 | 070455 | 700057 | 4 |
|--------------|--------|--------|------|
| OHL_0108 | 279155 | 709257 | 1 |
| OHL_0109 | 279181 | 709239 | 0.85 |
| OHL_0110 | 279175 | 709247 | 0.4 |
| OHL_0111 | 279169 | 709255 | 0.4 |
| OHL_0112 | 279163 | 709263 | 0.8 |
| OHL_0113 | 279183 | 709253 | 0 |
| OHL_0114 | 279177 | 709261 | 0.45 |
| OHL_0115 | 279171 | 709269 | 0.9 |
| OHL_0116 | 279201 | 709321 | |
| OHL_0117 | 279199 | 709307 | |
| OHL_0118 | 279185 | 709259 | 0.4 |
| OHL_0119 | 279182 | 709245 | 1 |
| OHL_0120 | 279180 | 709231 | |
| OHL_0122 | 278648 | 708852 | 0.8 |
| OHL_0123 | 278694 | 708831 | 1 |
| OHL_0124 | 278685 | 708835 | 1.25 |
| OHL_0125 | 278676 | 708839 | 1.9 |
| OHL_0126 | 278666 | 708844 | 2 |
| OHL_0127 | 278657 | 708848 | 2.4 |
| OHL_0128 | 278653 | 708861 | 0.85 |
| OHL_0129 | 278698 | 708840 | 0.6 |
| OHL_0130 | 278689 | 708844 | 0.75 |
| OHL_0131 | 278680 | 708848 | 1 |
| OHL_0132 | 278671 | 708853 | 1 |
| OHL_0133 | 278662 | 708857 | 2 |
| OHL_0134 | 278657 | 708870 | 0.85 |
| OHL_0135 | 278702 | 708849 | 0.1 |
| OHL_0136 | 278693 | 708853 | 0.1 |
| OHL_0137 | 278684 | 708857 | 0.1 |
| OHL_0138 | 278675 | 708862 | 0.3 |
| OHL_0139 | 278666 | 708866 | 0.8 |
| OHL_0140 | 278661 | 708879 | 0.2 |
| OHL_0141 | 278706 | 708858 | 0.5 |
| OHL_0142 | 278697 | 708862 | 0.1 |
| OHL_0143 | 278688 | 708867 | 0.7 |
| OHL_0144 | 278679 | 708871 | 0 |
| OHL_0145 | 278670 | 708875 | 0 |
| OHL_0146 | 278666 | 708889 | 0.65 |
| OHL_0147 | 278711 | 708867 | 0.55 |
| OHL_0148 | 278702 | 708871 | 0.45 |
| OHL 0149 | 278693 | 708876 | 0.3 |
| OHL 0150 | 278684 | 708880 | 0.7 |
| OHL 0151 | 278675 | 708884 | 0.7 |
| OHL 0152 | 278670 | 708898 | 0.8 |
| OHL 0153 | 278715 | 708876 | 0.8 |
| OHL_0154 | 278706 | 708880 | 0.0 |
| OHL_0155 | 278697 | 708885 | 0.1 |
| OHL_0155 | 278688 | 708889 | 0.1 |
| 0115 0120 | 270000 | 100009 | 0.5 |

| OHL 0157 | 278679 | 708893 | 0.2 |
|----------|--------|--------|------|
| OHL 0158 | 278717 | 708868 | 0.2 |
| S_001 | 279710 | 708949 | 0.4 |
| S_002 | 279726 | 708968 | 0.1 |
| S_003 | 279741 | 708988 | 0.3 |
| S_004 | 279756 | 709008 | 0.1 |
| S_005 | 279772 | 709028 | 0.1 |
| S_006 | 279787 | 709020 | 0.1 |
| S_007 | 279802 | 709067 | 0.2 |
| S_008 | 279818 | 709087 | 0.1 |
| S_009 | 279833 | 709106 | 0.1 |
| S_010 | 279849 | 709126 | 0.2 |
| S_011 | 279864 | 709126 | 0.2 |
| S_012 | 279879 | 709146 | |
| S 013 | 279895 | 709185 | |
| S_014 | 279910 | 709105 | |
| S_015 | 279925 | 709205 | |
| S 016 | 279690 | 708964 | 0.5 |
| S_017 | 279706 | 708984 | 0.8 |
| S_018 | 279721 | 709004 | 0.5 |
| S_019 | 279737 | 709023 | 0.35 |
| S_020 | 279752 | 709043 | 0.1 |
| S_021 | 279767 | 709063 | 0 |
| S_022 | 279783 | 709082 | 0.2 |
| S_023 | 279798 | 709102 | 0.1 |
| S_024 | 279813 | 709122 | 0.2 |
| S_025 | 279829 | 709142 | 0.3 |
| S_026 | 279844 | 709161 | |
| S_027 | 279860 | 709181 | |
| S_028 | 279875 | 709201 | |
| S_029 | 279890 | 709220 | |
| S_030 | 279906 | 709240 | |
| S_031 | 279671 | 708980 | 0.1 |
| S_032 | 279686 | 708999 | 0.2 |
| S_033 | 279702 | 709019 | 0.8 |
| S_034 | 279717 | 709039 | 0 |
| S_035 | 279732 | 709058 | 0 |
| S_036 | 279748 | 709078 | 0.1 |
| S_037 | 279763 | 709098 | 0.4 |
| S_038 | 279778 | 709118 | 0.3 |
| S_039 | 279794 | 709137 | 0.1 |
| S_040 | 279809 | 709157 | 0.1 |
| S_041 | 279825 | 709177 | |
| S_042 | 279840 | 709196 | |
| S_043 | 279855 | 709216 | |
| S_044 | 279871 | 709236 | |
| S_045 | 279886 | 709256 | |
| S_046 | 279651 | 708995 | 0.4 |
| * .* | _, | | 0+ |

| S_047 | 279666 | 709015 | 0.8 |
|-------|--------|--------|------|
| S 048 | 279682 | 709034 | 0.0 |
| S_049 | 279697 | 709054 | 0.1 |
| S_050 | 279713 | 709074 | 0.1 |
| S_051 | 279728 | 709093 | 0.4 |
| S_052 | 279743 | 709113 | 0.4 |
| S_053 | 279759 | 709133 | 0.2 |
| S_054 | 279774 | 709153 | 0.5 |
| S_055 | 279789 | 709172 | |
| | 279805 | 709192 | |
| S 057 | 279820 | 709212 | |
| S_058 | 279836 | 709231 | |
| S_059 | 279851 | 709251 | |
| S_060 | 279866 | 709271 | |
| S_061 | 279631 | 709010 | 0.6 |
| S_062 | 279647 | 709030 | 0.3 |
| S_063 | 279662 | 709050 | 0.3 |
| S_064 | 279677 | 709069 | 0.2 |
| S_065 | 279693 | 709089 | 0.25 |
| S_066 | 279708 | 709109 | 0.1 |
| S_067 | 279724 | 709129 | 0.1 |
| S_068 | 279739 | 709148 | 0.1 |
| S_069 | 279754 | 709168 | 0.2 |
| S_070 | 279770 | 709188 | |
| S_071 | 279785 | 709207 | |
| S_072 | 279800 | 709227 | |
| S_073 | 279816 | 709247 | |
| S_074 | 279831 | 709267 | |
| S_075 | 279847 | 709286 | |
| S_076 | 279612 | 709026 | |
| S_077 | 279627 | 709045 | |
| S_078 | 279642 | 709065 | 0.5 |
| S_079 | 279658 | 709085 | 0.1 |
| S_080 | 279673 | 709105 | 0.2 |
| S_081 | 279689 | 709124 | 0.3 |
| S_082 | 279704 | 709144 | 0.4 |
| S_083 | 279719 | 709164 | 0.3 |
| S_084 | 279735 | 709183 | |
| S_085 | 279750 | 709203 | |
| S_086 | 279765 | 709223 | |
| S_087 | 279781 | 709243 | |
| S_088 | 279796 | 709262 | |
| S_089 | 279812 | 709282 | |
| S_090 | 279827 | 709302 | |
| S_091 | 279592 | 709041 | 0.6 |
| S_092 | 279607 | 709061 | 0.8 |
| S_093 | 279623 | 709080 | 0.6 |
| S_094 | 279638 | 709100 | 0.1 |

| S_095 | 279653 | 709120 | 0.1 |
|-------|--------|--------|------|
| S_096 | 279669 | 709120 | 0.1 |
| S_097 | 279684 | 709159 | 0.0 |
| S_098 | 279700 | 709179 | 0.4 |
| S_099 | 279715 | 709199 | 0.2 |
| S_100 | 279730 | 709218 | |
| S 101 | 279746 | 709238 | |
| S_102 | 279761 | 709258 | |
| S_103 | 279776 | 709278 | |
| S_104 | 279792 | 709297 | |
| S_105 | 279807 | 709317 | |
| S_106 | 279588 | 709076 | 0.4 |
| S_107 | 279603 | 709096 | 0.35 |
| S_108 | 279618 | 709116 | 0.00 |
| S_109 | 279634 | 709135 | 0.6 |
| S_110 | 279649 | 709155 | 0.3 |
| S_111 | 279664 | 709135 | 0.25 |
| S_112 | 279680 | 709194 | 0.20 |
| S_113 | 279695 | 709214 | |
| S 114 | 279711 | 709234 | |
| S_115 | 279726 | 709254 | |
| S_116 | 279741 | 709273 | |
| S_117 | 279757 | 709293 | |
| S_118 | 279772 | 709313 | |
| S_119 | 279787 | 709332 | |
| S_120 | 279583 | 709111 | 0.1 |
| S_121 | 279599 | 709131 | 0.1 |
| S_122 | 279614 | 709151 | 0.5 |
| S_123 | 279629 | 709170 | 0.4 |
| | 279645 | 709190 | 0.6 |
| S_125 | 279660 | 709210 | |
| S_126 | 279676 | 709229 | |
| | 279691 | 709249 | |
| S 128 | 279706 | 709269 | |
| S_129 | 279722 | 709289 | |
| S_130 | 279737 | 709308 | |
| S 131 | 279752 | 709328 | |
| | 279768 | 709348 | |
| | 279579 | 709146 | 0.5 |
| | 279594 | 709166 | 0.4 |
| | 279610 | 709186 | 0.6 |
| S_136 | 279625 | 709205 | |
| S_137 | 279640 | 709225 | |
| S_138 | 279656 | 709245 | |
| S_139 | 279671 | 709265 | |
| S_140 | 279687 | 709284 | |
| S_141 | 1 1 | | |
| | 279702 | 709304 | |

| S_143 279733 709343 S_144 279748 709363 S_145 279575 709181 0. S_146 279590 709201 0. S_147 279605 709221 0. S_147 279605 709241 0. S_148 279621 709241 0. S_149 279636 709260 0. S_149 279637 709280 0. S_150 279651 709280 0. S_151 279667 709300 0. S_152 279682 709319 0. S_152 279698 709339 0. S_153 279698 709339 0. S_154 279713 709359 0. S_155 279728 709379 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279616 709276 0. S_161 279647 709315 0. S_162 | _ |
|---|---|
| S_145 279575 709181 0. S_146 279590 709201 0. S_147 279605 709221 0. S_147 279605 709221 0. S_147 279605 709241 0. S_148 279621 709241 0. S_149 279636 709260 0. S_150 279651 709280 0. S_151 279667 709300 0. S_152 279682 709319 0. S_152 279698 709339 0. S_153 279698 709339 0. S_154 279713 709359 0. S_155 279728 709379 0. S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279616 709276 0. S_160 279632 709295 0. S_161 279647 709315 < | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| S_147 279605 709221 S_148 279621 709241 S_149 279636 709260 S_150 279651 709280 S_151 279667 709300 S_152 279682 709319 S_153 279698 709339 S_154 279713 709359 S_155 2797728 709379 S_156 279570 709216 0.5 S_157 279586 709236 S_158 279601 709256 S_159 279616 709276 S_160 279632 709315 | 8 |
| S_148 279621 709241 S_149 279636 709260 S_150 279651 709280 S_151 279667 709300 S_152 279682 709319 S_153 279698 709339 S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279586 709236 S_158 279601 709256 S_159 279632 709295 S_161 279647 709315 | 6 |
| S_149 279636 709260 S_150 279651 709280 S_151 279667 709300 S_152 279682 709319 S_153 279698 709339 S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279632 709295 0. S_161 279647 709315 0. | |
| S_150 279651 709280 S_151 279667 709300 S_152 279682 709319 S_153 279698 709339 S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279632 709295 0. S_161 279647 709315 0. | |
| S_151 279667 709300 S_152 279682 709319 S_153 279698 709339 S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279601 709256 0. S_158 279616 709276 0. S_159 279632 709295 0. S_161 279647 709315 0. | |
| S_152 279682 709319 S_153 279698 709339 S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279632 709295 0. S_161 279647 709315 0. | |
| S_153 279698 709339 S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279616 709276 0. S_160 279647 709315 0. | |
| S_154 279713 709359 S_155 279728 709379 S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279616 709276 0. S_160 279632 709315 0. | |
| S_155 279728 709379 S_155 279570 709216 0. S_156 279586 709236 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279616 709276 0. S_160 279632 709295 0. S_161 279647 709315 0. | |
| S_156 279570 709216 0. S_157 279586 709236 0. S_158 279601 709256 0. S_159 279616 709276 0. S_160 279632 709295 0. S_161 279647 709315 0. | |
| S_157 279586 709236 S_158 279601 709256 S_159 279616 709276 S_160 279632 709295 S_161 279647 709315 | |
| - - S_158 279601 S_159 279616 709276 S_160 279632 709295 S_161 279647 | 6 |
| S_159 279616 709276 S_160 279632 709295 S_161 279647 709315 | |
| S_160 279632 709295 S_161 279647 709315 | |
| S_161 279647 709315 | |
| | |
| S 162 279663 709335 | |
| | |
| S_163 279678 709354 | |
| S_164 279693 709374 | |
| S_165 279709 709394 | |
| S_166 279551 709232 | |
| S_167 279566 709252 | |
| S_168 279581 709271 | |
| S_169 279597 709291 | |
| S_170 279612 709311 | |
| S_171 279627 709330 | |
| S_172 279643 709350 | ٦ |
| S_173 279658 709370 | ٦ |
| S_174 279674 709390 | |
| S_175 279689 709409 | ٦ |



Technical Note

SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Appendix C – Peat Core Logs & Photographs

APPENDIX C – Peat Core Logs and Photographs

Peat Core 1 (PC01) at Trial Pit 11



Peat Core 2 (PC02) at Trial Pit 1



Peat Core 3 (PC03) at Trial Pit 10

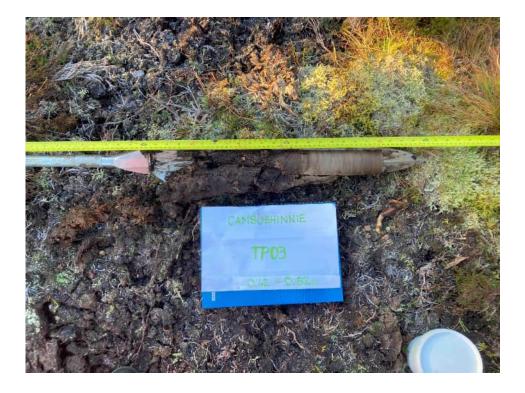


Peat Core 4 (PC04) at Trial Pit 13



Peat Core 5 (PC05) at Trial Pit 3





Peat Core 6 (PC06) at Trial Pit 4





Peat Core 7 (PC07) at Trial Pit 09







Technical Note

SSEN Transmission Cambushinnie 400kV Substation Upgrade Additional Peat Probe Survey

Appendix D – Peat Lab Test Results



AECOM

-

For the attention of David Raeside

Report No: A15474-1 Issue No: 01 Date of issue: 20/03/2025

LABORATORY TEST REPORT

| Project Name | e | CAMBUSHINNIE SUB STATION | | | | |
|---|--------------------|--|--|------------------------------------|---|--|
| Project Number A15474-1 Date samples received | | | 21/02/2025 | | | |
| Your Ref | | A15474-1 | Date written instructions rec | ceived | 21/02/2025 | |
| Purchase Or | der | 60721943 | Date testing commenced | | 08/03/2025 | |
| | | Please find enclosed the res | ults as summarised bel | ow | | |
| Figure / Table | Test Quantity | D | escription | | ISO 17025 Accredited | |
| App A | 10 4 10 ~ | Determination of Water Content Bulk Desnity Chemical Analysis Notes on Laboratory Procedures - Soil | | | Yes Yes s/c N/A | |
| Remarks: Key to symbols use Complete S/C : Testing was sub-co | | | | | | |
| Approved Signa | | Coordinator 20/03/2025 y - Lab Manager, C Loudon - Field Services Manager | | | y Supervisor, A | |
| Lavery - Concrete and Asphalt Supervisor, J Simpson - Field Testing Training Manager, D Whyte - Senior Lab Technician Unless we are notified to the contrary, any remaining samples will dispossed of, 4 weeks after the date this report was issued Results contained in this report are provisional unless signed by an approved signatory This report should not be reproduced without written approval from Terra Tek Limited (Trading as igne) The enclosed results remain the property of Terra Tek Limited (Trading as igne) and we reserve the right to withdraw our report if we have not received cleared funds in accordance with our standard terms and conditions Only those results indicated in this report are UKAS accredited and any opinions or interpretations expressed are outside the scope of | | | | | | |
| UKAS accreditation. Feedback on the this report may be left: https://forms.office.com/pages/responsepage.aspx?id=CwCZTjwYeUGWZfDBJbk1g0fy8UwdJQhLttd3HBD1SytUMzNYWTdFVVpMWjdHREcwQUg1MDJLM09OTi4u&wdLOR | | | | | | |
| | | | re Street, Bellshill Industrial Estat Terra Tek | e, Bellshill, North Laı Tel: +4 | narkshire, ML4 3NP 44 (0)1236 747 949 I.testing@igne.com www.igne.com cotland. SC121594 | |

Head Office: Whistleberry Road, Hamilton, Glasgow, Scotland, ML3 0HP

| 474-1.xls | | ian | | lite | CAMBUSHINNIE SUB STATION | | Contract No A | 15474-1 | |
|---|---------------------|-----------------------|---------------|----------------|--------------------------|---|-------------------|--------------------|--|
| - A15 | | ign | | lient | SSEN | | | | |
| Table | | | | ingineer | AECOM | | | | |
| Intent | Ę | Sample Identification | | | | | | | |
| 1212 - Moisture Content Table - A15474-1.xls | Exploratory Hole | Depth m | Sample Ref | Sample Type | Lab Sample ID | Non Enginering Description | | Water Content % | |
| | PC01 / TP11 | 0.00-0.37 | | D | 2041278 | Brown fibrous Peat | | 568 | |
| | PC02 / TP01 | 0.00-0.25 | | D | 2041279 | Brown fibrous Peat | | 621 | |
| | PC03 / TP10 | 0.00-0.40 | | D | 2041280 | Brown fibrous Peat | | 486 | |
| | PC04 / TP13 | 0.00-0.30 | | D | 2041281 | Brown fibrous Peat | | 533 | |
| | PC05 / TP03 | 0.00-0.42 | | D1 | 2041282 | Brown fibrous Peat | | 822 | |
| | PC05 / TP03 | 0.42-0.60 | | D2 | 2041283 | Brown gravelly very silty SAND with organic r fine to medium | natter. Gravel is | 53.6 | |
| | PC06 / TP04 | 0.00-0.43 | | D1 | 2041284 | Brown fibrous Peat | | 765 | |
| | PC06 / TP04 | 0.43-0.56 | | D2 | 2041285 | Brown fibrous Peat | | 655 | |
| | PC07 / TP09 | 0.00-0.50 | | D1 | 2041286 | Brown fibrous Peat | | 511 | |
| | PC07 / TP09 | 0.50-1.00 | | D2 | 2041287 | Brown fibrous Peat | | 498 | |
| 0:34:18 | | | | | | | | | |
| Lab Project No A15474-1 : 20/03/2025 10:34:18 | | | | | | | | | |
| 5474- | Notes | | | | | | | l | |
| lo A15 | | Observe | 0 | | | | | | |
| ect N | Originator | Checked Approve | | D | etermina | ermination of the Water Content | | | |
| Lab Proj | SM MA 20/03/2025 | | | | BS EN ISO 17892-1:2014 | | | Sheet 1 of 1 | |

Version 027 - 14/02/2025

6 Belgrave Street, Bellshill Industrial Estate, Bellshill, North Lanarkshire, ML4 3NP

| 474-1.xls | | ian | s | ite | CAMBUSH | INNIE SUB STATION | Contract N | • A 154 | 174-1 |
|---|-------------|--------------------|---------------|----------------|------------------|---|-----------------|----------------|------------------|
| e - A15 | | ign | | lient | SSEN | | | | |
| y Tablé | | | | | AECOM | | | | |
| 1216 - Bulk Density Table - A15474-1.xls | s | ample Identifi | cation | | | | | | |
| 1216 - E | Hole ID | Depth | Sample Ref | Sample Type | Lab Sample ID | Non Enginering Description | Bulk Density | Dry Density | Water Content |
| | | m | | | | | Mg/m³ | Mg/m³ | % |
| F | PC03 / TP10 | 0.00-0.40 | | D | 2041280 | Brown fibrous Peat | 1.21 | 0.21 | 486 |
| F | PC05 / TP03 | 0.00-0.42 | | D1 | 2041282 | Brown fibrous Peat | 1.11 | 0.12 | 822 |
| F | PC06 / TP04 | 0.00-0.43 | | D1 | 2041284 | Brown fibrous Peat | 1.09 | 0.13 | 765 |
| F | PC07 / TP09 | 0.50-1.00 | | D2 | 2041287 | Brown fibrous Peat | 1.16 | 0.19 | 498 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 1:34:20 | | | | | | | | | |
| 11 93/202/20 | | | | | | | | | |
| Lab Project No A15474-1:20/03/2025 10:34:26 | Nato | | | | | | | | |
| 7919 c | Notes | | | | | | | | |
| Project IN | Originator | Checked Approve | | B | S EN ISO 17 | BULK DENSITY 892-2 Determination of bulk density | | | |
| Lau | SM | 20/03/202 | 25 | | Line | ear measurement method | | She | et 1 of 1 |

Version 001 - 13/10/2023

6 Belgrave Street, Bellshill Industrial Estate, Bellshill, North Lanarkshire, ML4 3NP



Client:Terra Tek Ltd T/A IgneDate Issued:20/03/2025Project Name:A15474-1 - Cambushinnie Sub Station 1

Samples Analysed

| Text ID | Sample Reference | Sampling Date | Sample Type | Sample Description |
|--------------|-------------------------|---------------|-------------|--------------------|
| 25031439-001 | PC01/TP11-0-D-0.00-0.37 | | SOLID | Peat Sample |
| 25031439-002 | PC02/TP01-0-D-0.00-0.25 | | SOLID | Peat Sample |
| 25031439-003 | PC03/TP10-0-D-0.00-0.40 | | SOLID | Peat Sample |
| 25031439-004 | PC04/TP13-0-D-0.00-0.30 | | SOLID | Peat Sample |
| 25031439-005 | PC05/TP03-0-D-0.00-0.42 | | SOLID | Peat Sample |
| 25031439-006 | PC05/TP03-0-D-0.42-0.60 | | SOLID | Clay Sample |
| 25031439-007 | PC06/TP04-0-D-0.00-0.43 | | SOLID | Peat Sample |
| 25031439-008 | PC06/TP04-0-D-0.43-0.56 | | SOLID | Peat Sample |
| 25031439-009 | PC07/TP09-0-D-0.00-0.50 | | SOLID | Peat Sample |
| 25031439-010 | PC07/TP09-0-D-0.50-1.00 | | SOLID | Peat Sample |
| | | | | |



Client:Terra Tek Ltd T/A IgneDate Issued:20/03/2025Project Name:A15474-1 - Cambushinnie Sub Station 1



| SOCOTEC Sample ID: | | | | 25031439-001 | 25031439-002 | 25031439-003 | 25031439-004 | 25031439-005 |
|--------------------|----------------------------|------------|-----------|--------------------|-------------------|-------------------|-------------------|-------------------|
| <u> </u> | Sampling Date: | | | | | | | |
| | | Cus | tomer ID: | PC01/TP11-0-D-0.00 | PC02/TP01-0-D-0.0 | PC03/TP10-0-D-0.0 | PC04/TP13-0-D-0.0 | PC05/TP03-0-D-0.0 |
| Method Code | Analysis | MDL | Accred. | -0.37 | 0-0.25 | 0-0.40 | 0-0.30 | 0-0.42 |
| | Total Moisture at 35°C | 0.1 % | N | 74.3 | 77.5 | 79.9 | 48.4 | 79.8 |
| | Major Constituents | - | N | PEAT | PEAT | PEAT | PEAT | PEAT |
| CLANDPREP | Minor Constituents | - | N | None | None | None | None | None |
| | Miscellaneous Constituents | - | N | Organic Matter | Organic Matter | Organic Matter | Organic Matter | Organic Matter |
| | Colour of Material | - | N | Brown | Brown | Brown | Brown | Brown |
| PHSOIL | pH (2.5:1 extraction) | 1 pH units | U | 4.1* | 4.3* | 4.6* | 5.0* | 4.3* |
| ORGMAT | Organic Matter | 0.2 % m/m | N | 63.5 | 60.8 | 59.1 | 14.7 | 67.8 |



Client:Terra Tek Ltd T/A IgneDate Issued:20/03/2025Project Name:A15474-1 - Cambushinnie Sub Station 1



| SOCOTEC Sample ID: | | | | 25031439-006 | 25031439-007 | 25031439-008 | 25031439-009 | 25031439-010 |
|--------------------|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|----------------|
| | Sampling Date: | | | | | | | |
| Customer ID: | | PC05/TP03-0-D-0.4 | PC06/TP04-0-D-0.0 | PC06/TP04-0-D-0.4 | PC07/TP09-0-D-0.0 | PC07/TP09-0-D-0.5 | | |
| Method Code | Analysis | MDL | Accred. | 2-0.60 | 0-0.43 | 3-0.56 | 0-0.50 | 0-1.00 |
| | Total Moisture at 35°C | 0.1 % | N | 33.4 | 82.3 | 85.7 | 86.6 | 81.6 |
| | Major Constituents | - | N | CLAY | PEAT | PEAT | PEAT | PEAT |
| CLANDPREP | Minor Constituents | - | N | Silt | None | None | None | None |
| | Miscellaneous Constituents | - | N | Organic Matter | Organic Matter | Organic Matter | Organic Matter | Organic Matter |
| | Colour of Material | - | N | Brown | Brown | Brown | Brown | Brown |
| PHSOIL | pH (2.5:1 extraction) | 1 pH units | U | 4.9 | 4.4* | 4.4* | 4.0* | 4.3* |
| ORGMAT | Organic Matter | 0.2 % m/m | N | 9.7 | 68.5 | 70.2 | 69.5 | 71.7 |



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Deviating Sample Report

| Sample Reference | Text ID | Mathed Code | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
|--|--------------|-------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| <u>Sample Reference</u> PC01/TP11-0-D-0.00-0.37 | 25031439-001 | Method Code | <u> </u> | <u> </u> | Ĩ | 드 | | |
| PC01/TP11-0-D-0.00-0.37 | | CLANDPREP | | | | | ✓ ✓ | ✓ ✓ |
| | 25031439-001 | ORGMAT | | | | | ✓ ✓ | ✓ ✓ |
| PC01/TP11-0-D-0.00-0.37 | 25031439-001 | PHSOIL | | | | | ✓ ✓ | |
| PC02/TP01-0-D-0.00-0.25 | 25031439-002 | CLANDPREP | | | | | ✓ | ✓ |
| PC02/TP01-0-D-0.00-0.25 | 25031439-002 | ORGMAT | | | | | ✓ | ✓ |
| PC02/TP01-0-D-0.00-0.25 | 25031439-002 | PHSOIL | | | | | ✓ | ✓ |
| PC03/TP10-0-D-0.00-0.40 | 25031439-003 | CLANDPREP | | | | | ✓ | ✓ |
| PC03/TP10-0-D-0.00-0.40 | 25031439-003 | ORGMAT | | | | | ✓ | ✓ |
| PC03/TP10-0-D-0.00-0.40 | 25031439-003 | PHSOIL | | | | | ✓ | ✓ |
| PC04/TP13-0-D-0.00-0.30 | 25031439-004 | CLANDPREP | | | | | ✓ | ✓ |
| PC04/TP13-0-D-0.00-0.30 | 25031439-004 | ORGMAT | | | | | ✓ | ✓ |
| PC04/TP13-0-D-0.00-0.30 | 25031439-004 | PHSOIL | | | | | ✓ | ✓ |
| PC05/TP03-0-D-0.00-0.42 | 25031439-005 | CLANDPREP | | | | | ✓ | ✓ |
| PC05/TP03-0-D-0.00-0.42 | 25031439-005 | ORGMAT | | | | | ✓ | ✓ |
| PC05/TP03-0-D-0.00-0.42 | 25031439-005 | PHSOIL | | | | | ✓ | ✓ |
| PC05/TP03-0-D-0.42-0.60 | 25031439-006 | CLANDPREP | | | | | ✓ | ✓ |
| PC05/TP03-0-D-0.42-0.60 | 25031439-006 | ORGMAT | | | | | ✓ | ✓ |
| PC05/TP03-0-D-0.42-0.60 | 25031439-006 | PHSOIL | | | | | ✓ | ✓ |
| PC06/TP04-0-D-0.00-0.43 | 25031439-007 | CLANDPREP | | | | | ✓ | ✓ |
| PC06/TP04-0-D-0.00-0.43 | 25031439-007 | ORGMAT | | | | | ✓ | ✓ |
| PC06/TP04-0-D-0.00-0.43 | 25031439-007 | PHSOIL | | | | | ✓ | ✓ |
| PC06/TP04-0-D-0.43-0.56 | 25031439-008 | CLANDPREP | | | | | ✓ | ✓ |
| PC06/TP04-0-D-0.43-0.56 | 25031439-008 | ORGMAT | | | | | ✓ | ✓ |
| PC06/TP04-0-D-0.43-0.56 | 25031439-008 | PHSOIL | | | | | ✓ | ✓ |
| PC07/TP09-0-D-0.00-0.50 | 25031439-009 | CLANDPREP | | | | | ✓ | ✓ |
| PC07/TP09-0-D-0.00-0.50 | 25031439-009 | ORGMAT | | | | | ✓ | ✓ |
| PC07/TP09-0-D-0.00-0.50 | 25031439-009 | PHSOIL | | | | | ✓ | ✓ |
| PC07/TP09-0-D-0.50-1.00 | 25031439-010 | CLANDPREP | | | | | ✓ | ✓ |
| PC07/TP09-0-D-0.50-1.00 | 25031439-010 | ORGMAT | | | | | ✓ | ✓ |
| PC07/TP09-0-D-0.50-1.00 | 25031439-010 | PHSOIL | | | | | ✓ | ✓ |
| | | | | I | I | | | |

Analysis Method

Method Code CLANDPREP CLANDPREP <u>Method Description</u> Moisture Content @ 35°C Solid Material Description Analysis Method As Received As Received

Client:



Terra Tek Ltd T/A Igne Date Issued: 20/03/2025 Project Name: A15474-1 - Cambushinnie Sub Station 1

Organic Matter Content by Colorimetry

ORGMAT PHSOIL

Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are as follows:

pH (2.5:1)

Letter <u>Note</u>

- Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample А and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
- В The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
- Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into С consideration when utilising the data.
- D A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
- F Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
- F Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
- The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been G reported unaccredited for guidance purposes only.

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |

Air Dried & Ground

As Received



Client:Terra Tek Ltd T/A IgneDate Issued:20/03/2025Project Name:A15474-1 - Cambushinnie Sub Station 1

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis M = MCERT accredited analysis N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis

NA = Sample is not amenable for the required analysis

ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

AIRDRIE LABORATORY NOTES ON LABORATORY PROCEDURES

Samples of various soil types taken during the ground investigation are examined in the laboratory and assessments of their characteristics are used to supplement field observations and laboratory test results. Preparation and testing is carried out to the requirements of British, European and International Test Standards where applicable, or otherwise in accordance with good practice. All other tests reported or opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.

Test Title/Method

Test Standard/Clause

| | Determination of water content - oven drying method (U) | BS 1377-2:2022 cl. 4.2 (BS EN ISO 17892-1:2014+A1:2022 cl. 5) |
|-------|--|--|
| | Determination of water content - oven drying method (U) | BS 1377-2:1990 cl. 3.2 (W) |
| | Determination of liquid limit by cone penetrometer method (U) | BS 1377-2:2022 cl. 5.2 (BS EN ISO 17892-12:2018+A2:2022 cl. 5.3) |
| | Determination of liquid limit by cone penetrometer method (U) | BS 1377-2:1990 cl. 4.3 (W) |
| | Determination of plastic limit and plasticity index (U) | BS 1377-2:2022 cl. 6 (BS EN ISO 17892-12:2018+A2:2022 cl. 5.5) |
| | Determination of plastic limit and plasticity index (U) | BS 1377-2:1990 cl. 5.3 (W) |
| | Determination of density - linear measurement (U) | BS 1377-2:2022 cl. 8 (BS EN ISO 17892-2:2014 cl. 5.1) |
| | Determination of density - linear measurement (U) | BS 1377-2:1990 cl. 7.2 (W) |
| | Determination of particle density by gas jar method (U) | BS 1377-2:2022 cl. 9.2 |
| | Determination of particle density by gas jar method (U) | BS 1377-2:1990 cl. 8.2 (W) |
| | Determination of particle size distribution - sieving method (U) | BS 1377-2:2022 cl. 10 (BS EN ISO 17892-4:2016) |
| | Particle size distribution - wet sieving method (U) | BS 1377-2:1990 cl. 9.2 (W) |
| | Particle size distribution - dry sieving method (U) | BS 1377-2:1990 cl. 9.3 (W) |
| | Determination of particle size distribution - pipette method (U) | BS 1377-2:2022 cl. 10 (BS EN ISO 17892-4:2016) |
| | Particle size distribution - pipette method (U) | BS 1377-2:1990 cl. 9.4 (W) |
| | Dry density/water content relationship - 2.5kg rammer method (U) | BS 1377-2:2022 cl. 11.3/11.4 |
| | Dry density/water content relationship - 2.5kg rammer method (U) | BS 1377-4:1990 cl. 3.3/3.5 (W) |
| | Dry density/water content relationship - 4.5kg rammer method (U) | BS 1377-2:2022 cl. 11.5/11.6 |
| | Dry density/water content relationship - 4.5kg rammer method (U) | BS 1377-4:1990 cl. 3.4/3.6 (W) |
| | Dry density/water content relationship - Vibrating hammer (U) | BS 1377-2:2022 cl. 11.7 |
| ~ | Dry density/water content relationship - Vibrating hammer (U) | BS 1377-4:1990 cl. 3.7 (W) |
| Soils | Determination of max/min dry densities for granular soils | BS 1377-2:2022 cl. 12 |
| õ | Moisture Condition Value - natural water content (U) | BS 1377-2:2022 cl. 13.4 |
| | Moisture Condition Value - natural water content (U) | BS 1377-4:1990 cl. 5.4 (W) |
| | Moisture Condition Value - water content relationship (U) | BS 1377-2:2022 cl. 13.5 |
| | Moisture Condition Value - water content relationship (U) | BS 1377-4:1990 cl. 5.5 (W) |
| | Determination of the California Bearing Ratio (U) | BS 1377-2:2022 cl. 15 |
| | Determination of the California Bearing Ratio (U) | BS 1377-4:1990 cl. 7 (W) |
| | One-dimensional consolidation properties (U) | BS 1377-2:2022 cl. 16 (BS EN ISO 17892-5:2017 cl. 6) |
| | One-dimensional consolidation properties (U) | BS 1377-5:1990 cl. 3 (W) |
| | Determination of shear strength by laboratory vane method | BS 1377-2:2022 cl. 24 |
| | Determination of shear strength - small shear box | BS 1377-2:2022 cl. 25 (BS EN ISO 17892-10:2018 cl. 6) |
| | Determination of shear strength - small shear box (U) | BS 1377-7:1990 cl. 4 (W) |
| | Determination of unconfined compressive strength | BS 1377-2:2022 cl. 27 (BS EN ISO 17892-7:2018 cl. 6) |
| | Unconsolidated undrained triaxial test (U) | BS 1377-2:2022 cl. 28 (BS EN ISO 17892-8:2018 cl. 6) |
| | Undrained shear strength triaxial test single stage (U) | BS 1377-7:1990 cl. 8 (W) |
| | Undrained shear strength triaxial test multi-stage (U) | BS 1377-7:1990 cl. 9 (W) |
| | Reference density and water content - Proctor compaction (U) | BS EN 13286-2:2010 |
| | Reference density and water content - Vibrating hammer (U) | BS EN 13286-4:2021 |
| | Determination of the compressive strength | BS EN 13286-41:2021 |
| | Moisture condition value (U) | BS EN 13286-46:2003 |
| | Determination of California bearing ratio (U) | BS EN 13286-47:2021 |
| | Determination of degree of pulverisation (U) | BS EN 13286-48:2005 |
| | (U) Denotes UKAS accreditation held; (W) Denotes test standard | l/method withdrawn/superseded |
| | Soil Description | |
| | Laboratory soil descriptions (non-engineering) and classifications a | re generally given in accordance with Section 6 of BS |
| | 5930:2015+A1:2020 & Section 6 of BS EN ISO 14688-1:2018 | |
| | ······································ | |
| | | |

| Originator | Approved | LABORATORY MATERIALS TESTING - SOILS | Appendix A |
|------------|----------|--------------------------------------|------------|
| CL | DM | LADURATURT MATERIALS LESTING - SUILS | Αρρεπαιχ Α |