# LT521 - Bingally 400kV Substation

**Access Track Peat Probing and Coring GI Summary Note** 

Report Reference: BING4-LT521-SEBAM-EWKS-ZZ-RPT-G-0003









#### **CONTROL SHEET**

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#### 1.0 INTRODUCTION

Scottish and Southern Network (SSEN) are proposing a new substation at Bingally, approximately 7km south of the existing Fasnakyle substation near Cannich in the Highlands. This is required as part of the upgrading of the second circuit on the existing Beauly-Denny Overhead Line (OHL) from 275kV to 400kV and will allow connection of new renewable electricity generation to the transmission network in the coming years. An approximately 9km long access track is required between the Bingally site and the A831 and there is currently no GI along the corridor of the proposed track.

An initial peat probing and peat coring ground investigation (GI) was therefore scoped in order to gather initial information about the depth of peat and type of peat along the proposed access track.

#### 1.1 Peat Probing and Coring Strategy

Advice was sought from SSEN to establish an appropriate peat probing grid that would be acceptable for planning. Fairhurst were to review with an appropriate peat probing grid that provide sufficient information for the alignment design as it currently stands.

A Request for Information (RFI) was issued to BAM (for SSEN) on 16<sup>th</sup> February 2024 and a response was provided on 14<sup>th</sup> March 2024. The response was as follows:

As discussed on the SSE/SBAM Engineering call on 23rd Feb, a 50x50m peat probing grid with a 50m buffer only would likely be insufficient to inform the offline sections of the access tracks. It was raised the increase in cost/time for a more refined grid to the extent of the RLB out to 200m. Below are two potential options for peat probing grids in the offline sections, open to discussion:

- 25x25m grid within 50m buffer either side of the track alignment, extending to 50x50m grid out to 100m.
- 25x25m grid 25m buffer either side of the track alignment, 50x50m grid out to 100m and then a 100x100m grid out to 200m.

Both options apply with a view that if the track were to re-align significantly, further probing at 50m grid or less is required to take place on the revised alignment. Where deep peat is evident then grid size to be reduced to a 10x10m grid to allow informed micro-siting. Also worth noting that if peat isn't present or not deep, the grid can be looked to be increased. Probing is not as key where existing access tracks are being utilized. However if significant upgrade/widening is required on tracks, probing should be done within a realistic buffer (10/20m?) to inform peat depths/quantity of peat which will feed into Peat Management Plan.

The peat probing grid carried out was determined based on the first option with an additional 50m to cover the extends of the Red Line Boundary (RLB). The centreline of the proposed road was used to create parallel 'strings' to the west and east of the centreline and proposed peat probe locations were plotted at either a 25m interval (when within 50m of the current alignment) or a 50m interval (when beyond 100m of the current alignment). Peat probing was therefore carried out as follows:

- Peat probing on the centreline of the proposed road, carried out at 25m centres.
- Peat probing 25m west and 25m east of the proposed centreline, carried out at 25m intervals.
- Peat probing 50m west and 50m east of the proposed centreline, carried out at 25m intervals.
- Peat probing 100m west and 100m east of the proposed centreline, carried out at 50m intervals.
- Peat probing 150m west and 150m east of the proposed centreline, carried out at 50m intervals.



The peat coring locations were determined after the peat probing was complete and the depth of peat was plotted in QGIS to establish areas of deeper peat. The peat core locations were then selected to target deep areas of peat and peat within areas of proposed cut.

#### 1.2 Ground Investigation Information

The information from the peat probing and coring GI was provided as follows:

- Peat Probing Excel spreadsheets of the peat probes illustrating location, depth, height, date and any comments (e.g. any shallow obstructions, micrositing or tree roots).
- Peat Coring PDF of draft peat coring logs.

The final peat probing tracker and the preliminary peat core logs PC01-PC60 were issued on 25<sup>th</sup> July, with revisions provided on16<sup>th</sup> October 2024. The preliminary peat core logs are provided in **Appendix 2.** Final logs are still to be issued by BAM Ritchies.

The peat probing corridors, peat core locations as well as a summary of the peat encountered in the cores is illustrated in Drawings **BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241 to 0246**. The alignment of the road underwent minor alignment changes between CH 1000 to CH 1600 during the investigation which can be seen in **BING4-LT521-SEBAM-EWKS-ZZ-D-C-0246**.

#### 2.0 PEAT PROBING RESULTS

A total of 3017 peat probes were carried out which covered the 9km corridor of the access track, proposed temporary laydown areas and borrow pit adjacent to the substation and a proposed compound to the north.

The peat probing results have illustrated that there is overall less deep peat along the proposed access track than within the main substation area. The average peat depth of all probes completed was 0.41m. There are localised areas of deep peat which are occasionally spatially associated with the BGS mapped peat.

An extract of the peat probing heat maps has been provided in **Appendix 1.1.** 

Deep peat present on the alignment of the proposed access track and additional temporary compounds / laydown areas is as follow

- ➤ CH 3000 3400 Channel of deep peat which cross cuts the road between the aforementioned chainages, in an area of cut and fill, spatially associated with an area of BGS mapped peat.
- ➤ CH 4400 5000 Area of Class 2 importance peat according to Scotland Peatland Map (2016). The deep peat is associated with low lying ground between knolls of shallow rock. Deep peat surrounds both the west and east of the proposed centreline of the road within areas of cut and fill.
- CH 5800 Online and west of the proposed track in an area of cut and fill. No peat recorded on BGS map.
- CH 8100 East of the online section of the proposed access track in an area of fill, spatially associated with an area of BGS mapped peat.
- CH 8500 Offline section of the proposed access track in an area of fill, spatially associated with an area of BGS mapped peat.
- Laydown/Stockpile Area 3 Temporary area required for the construction of the substation for laydown/stockpiling of material. An area of deep was encountered spatially associated with the BGS mapped peat in a low-lying area to the south of the footprint of the proposed laydown/stockpile area.

The deepest peat recorded (4.5m bgl) was encountered within the low lying area to the south of the footprint of the proposed laydown/stockpile area, as seen in the heat maps in **Appendix 1.1**.



#### 3.0 PEAT CORING RESULTS

The peat coring results were targeted in areas of deep peat and overall encountered undecomposed peat to slightly decomposed peat at depths < 1.0m with moderately decomposed peat to very highly decomposed peat encountered at depths up to a maximum of 3.20m bgl (in the same location as the maximum depth of peat encountered through the peat probing).

The results of the peat coring were reviewed and a summary of the conditions within each core is provided in **Appendix 1.2**. A summary of the Von Post classification and percentage of occurrence is provided in **Appendix 1.3**.

The below summarises the peat cores taken within specific sections of the site relative to the Von Post classification system. Reference should also be made to Drawings **BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241 to 0246** which summarise the results of the peat coring on the plan view of the proposed scheme.

#### 3.1 **CH 0- 2550**

Core 43 to Core 59 were taken within this section.

The maximum peat depths found throughout this section ranged between 0.20m (PC53) and 1.60m (PC49). There were also ten locations where no peat was discovered at all, spatially associated with existing and felled woodland.

Three core samples displayed a H9 value at their maximum depth (PC45, PC49, and PC52) and they were located along the central south-eastern section of this final area. These H9 sections were located at various depths, beginning from 0.40m - 1.05m and up to their maximum depths of 0.50m - 1.60m.

The remaining peat coring samples displayed a H5-H7 value at their maximum depth. All of the surface level peat from the core samples in this section displayed a decomposition value of H2-H4 at their surface.

The peats moisture content in this section was a B2-B3 apart from the areas with a H9 rating which had a moisture value of B4.

#### 3.2 **CH 2550 - 3550**

Core 33 to Core 42 were taken within this section.

The first half of this section between PC33 and PC39 provided depths with the range of 1.10m – 1.93m, with only PC36 exceeding this, providing the maximum peat depth of this sample at 2.35m.

The areas between PC33 and PC39 displayed a peat decomposition at their maximum depth of H8-H10. With all values at the surface displaying a H3 or greater. The shallower peat samples of PC40 - PC42 (max depth of 0.50m - 0.74m) all displayed the value of H5-H7 at their maximum depth. At their surface they displayed a value of H3.

This section has recorded the greatest amount of peat decomposition so far out of all the previous sections. The moisture contents have ranged B2 – B5 with areas of B2 being located no deeper than 0.62mbgl. This section has also seen the greatest concentration of B4-B5 values than previous sections.

#### 3.3 **CH 3550 - 5500**

Core 19 to Core 32 were taken within this section.

This section produced significantly deeper areas of peat than the previous, with 7 of 14 core samples exceeding a depth of 1.60m or greater. Two probes produced peat depths of 3.0m+ with PC22 reaching a maximum depth of 3.20m and PC23 producing a maximum depth of 3.0m.

The deeper peat regions were mainly concentrated in the first half of this section with 5 of 6 core samples registering a peat depth of less than 0.60m in the second half of the section.

The depth of peat did not correlate to the level of decomposition however though. PC30 displayed a H9 value at a depth of 0.40m, and PC24 contained peat with a H8/H9 value at a depth of 0.85m. Another value of H8/H9 was displayed by PC23 at a depth of 3.0m, however beside that sample PC22 logged a depth at 3.20m displaying a value of only H5-H6.



Overall, this section shown some major decomposition throughout all levels of peat with some core samples displaying this as close as 0.50m towards the surface (PC30 H9 0.20m - 0.40m, PC31 H6-H7 0.12m - 0.33m, and PC32 H6-H7 0.15m - 0.26m).

Moisture levels ranged between B1 and B4 with B1 sections only seen within 0.15m of the surface. Areas with a B4 moisture content were located along with areas of H8+.

#### 3.4 **CH 5500 - 9000**

Core 06 to Core 18 + Core 60 were taken within this section.

The deepest lying area of peat was taken near the beginning of this section at PC08 which registered a max depth of 3.15m which displayed a level of H9 decomposition. PC11 produced the second deepest area of peat at 2.0m and a H8-H9 value at this depth. However, these two core samples did not produce the peat with the most decomposition, PC17 displayed values of H9-H10 between the depths of 1.10m and 1.30m.

The other twelve core samples in this section produced maximum peat depths up to a depth of 1.35m (PC07)

The core samples taken in this section which found peat at a depth of 1.20m or deeper found the peat to be a level of H7+ excluding PC08.

The majority of peat analysed within 0.50m of ground level did not exceed a value of H5. However, the peat located near the surface on the whole did not produce a value of anything less than H4.

For the moisture content, there was a range of B2 to B5 throughout the core samples taken throughout this section. No significant correlation between the locations and depths of these various levels of moisture has been displayed.

All core samples followed the linear trend of an increased 'H' value as the depth was increased apart from PC15. Between 0.00m – 0.18m a value of H5 was displayed, then down to 0.31m a composition of H2-H3 was displayed before then returning back to a H5 down to a depth of 0.90m. Down to the final level of 1.00m a value of H6-H7 was displayed.

#### 3.5 Laydown Area / Borrow Pit

Core 01 to Core 05 were taken within this area.

The deepest lying areas of peat were found in the two core locations taken along the south-west corner of the Laydown Area (PC03: max depth 2.10m & PC04: max depth 2.20m)

The shallowest peat coring results were found along the eastern side of the Borrow Pit (PC01: max depth 1.60m) and outside the west boundary of the Laydown Area (PC05: max depth 1.56m).

The greatest decomposition of peat was found with the core samples taken along boundaries of the Laydown Area and Borrow Pit, with PC01 & PC04 producing values of H6-H7 with their deepest lying layers. PC03, located between these two core samples produced values of H5-H7 throughout its entire core sample. This made it the core sample with the most extreme peat decomposition throughout this section.

PC05 provided the sample with the least peat decomposition reading a value of H2-H3 down to a depth of 1.05m and a value of H4 down to its maximum peat depth of 1.56m.

The anomaly throughout these samples was found with PC02 taken within the centre of the Laydown Area / Borrow Pit. It displayed a peat decomposition of H4 up to 1.00m, H6-H7 up to 1.50m (similar to PC01, 03, 04) although from 1.50m – 1.80m the levels of peat decomposition became a reading of H3.

The moisture content throughout the 5 core samples were a consistent B2 – B3.

#### 4.0 CONCLUSIONS

An assessment has been carried out of the ground investigation data and the following conclusions are noted:

The average peat depth from the probing completed is 0.41m with a maximum recorded depth of 4.5m bgl to the south west corner of the proposed laydown/ stockpile Area 3.



- > Deep peat is present in localised areas of the proposed alignment, predominantly associated with the BGS mapped peat.
- ➤ Peat cores demonstrate an overall pattern of undecomposed peat to slightly decomposed peat at depths < 1.0m with moderately decomposed peat to very highly decomposed peat encountered at depths up to a maximum of 3.20m bgl.

The peat probing data and peat coring data will be examined with the results of the detailed GI and reported in full in the Ground Investigation Report (GIR).

### **DRAWINGS**

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241

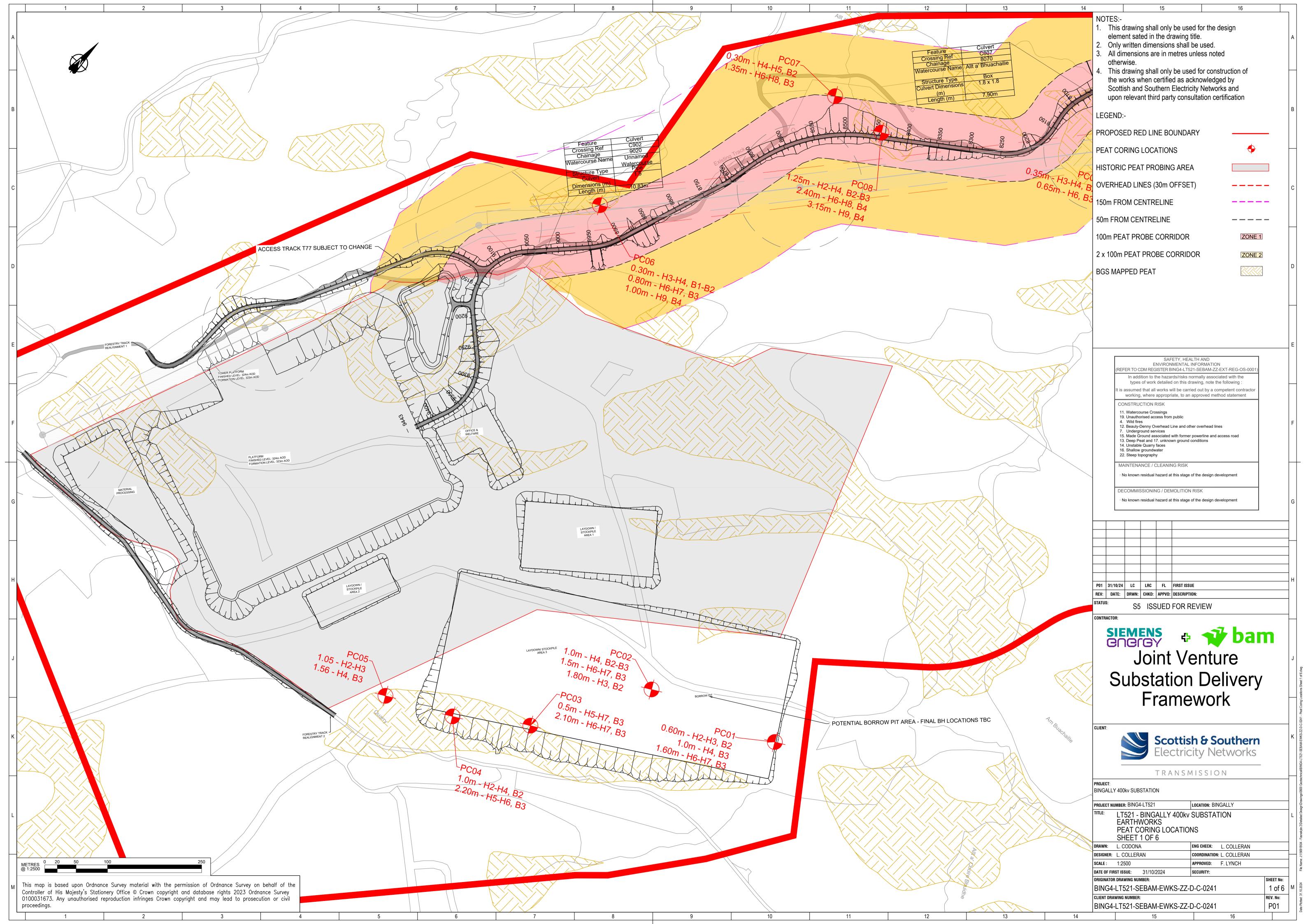
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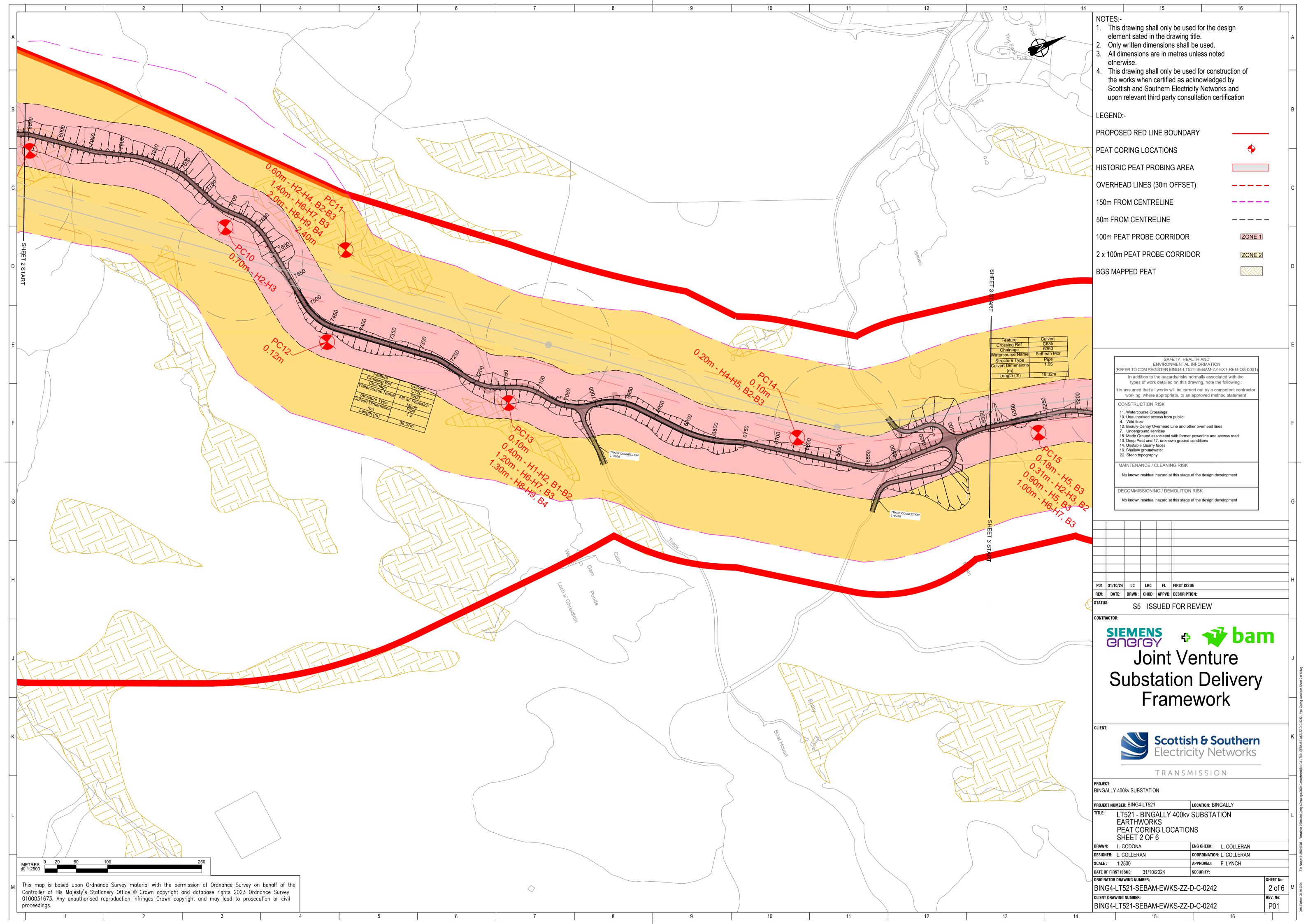
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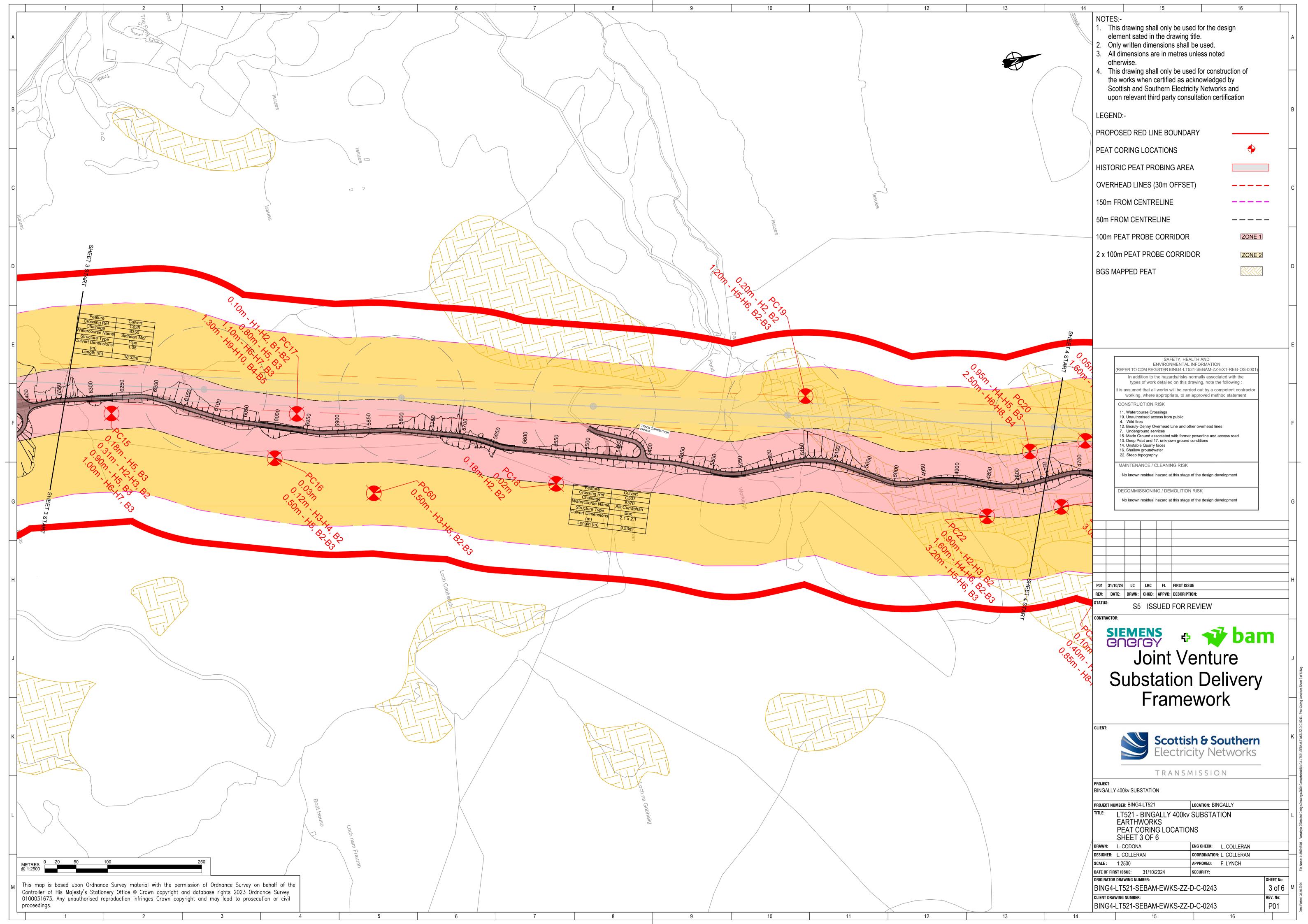
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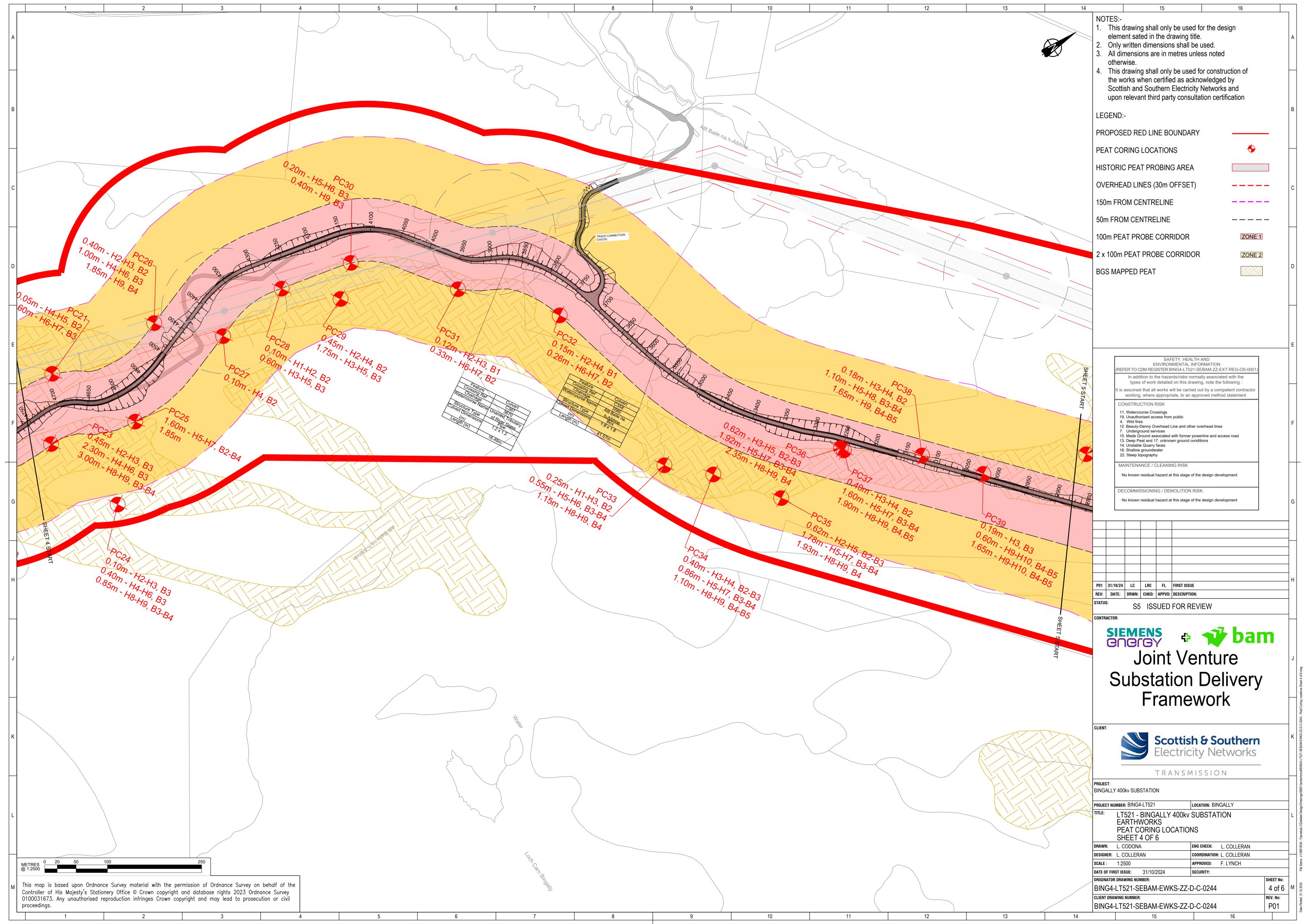
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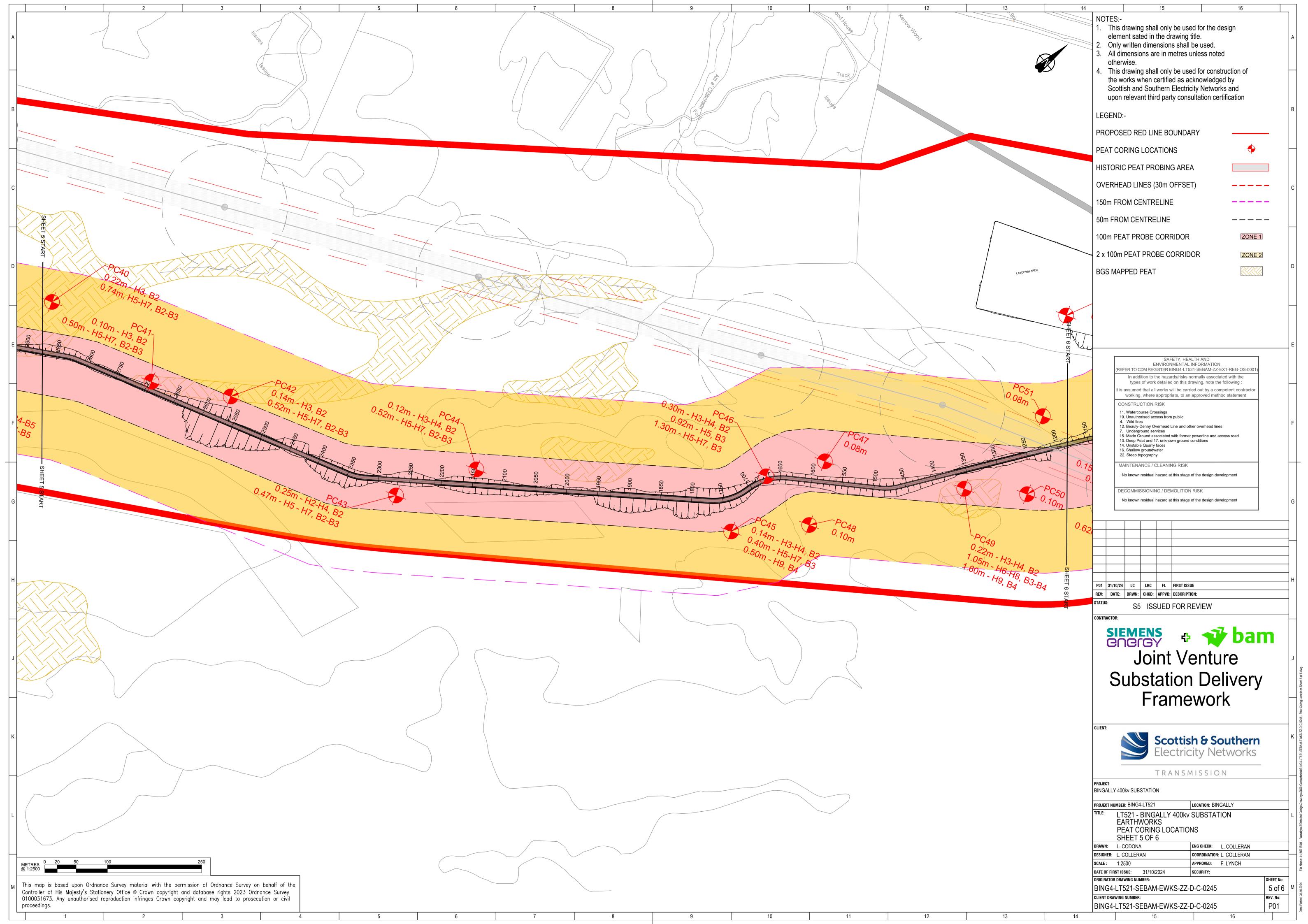
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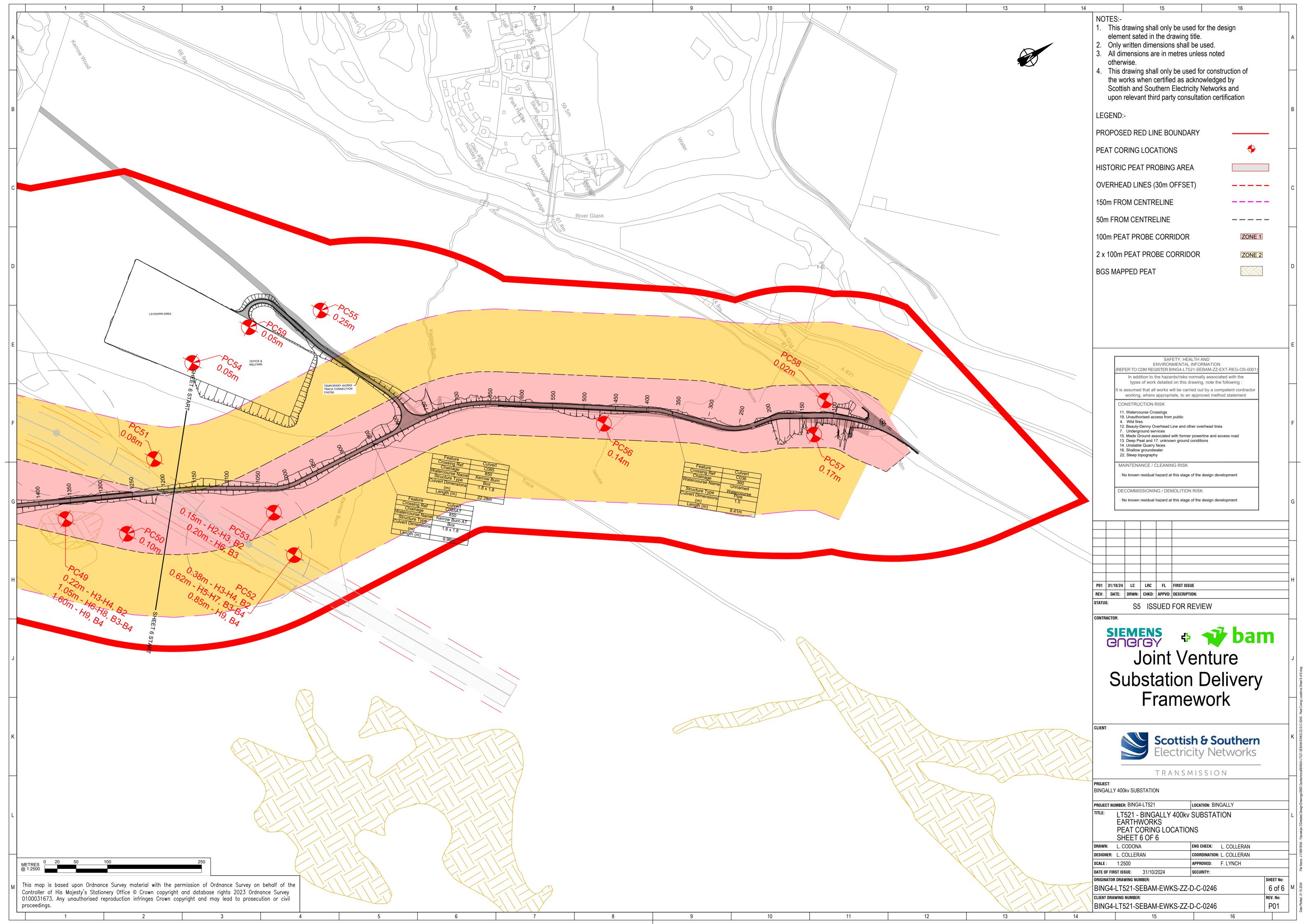










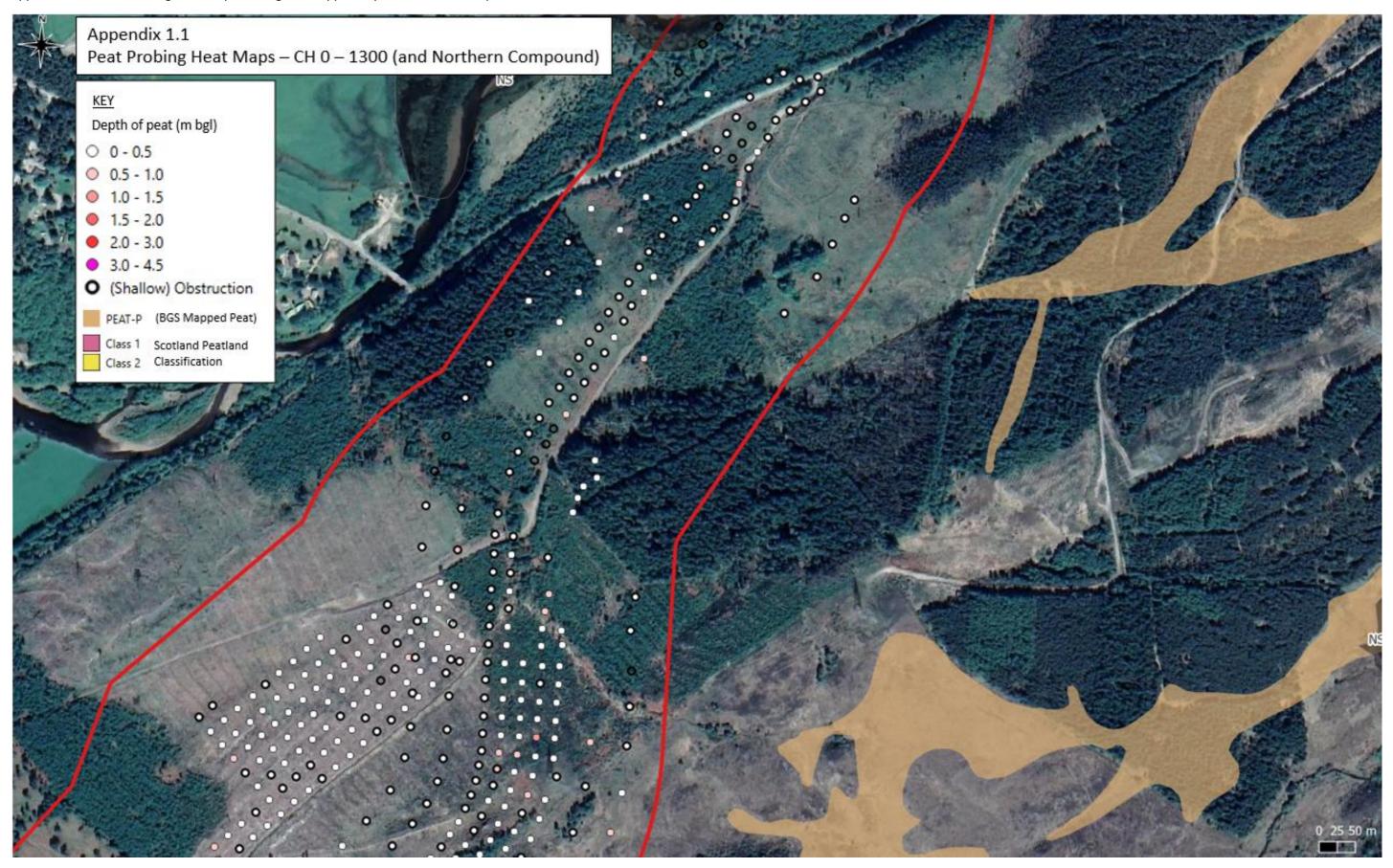




# **Appendix 1 Peat Probing and Coring Summaries**

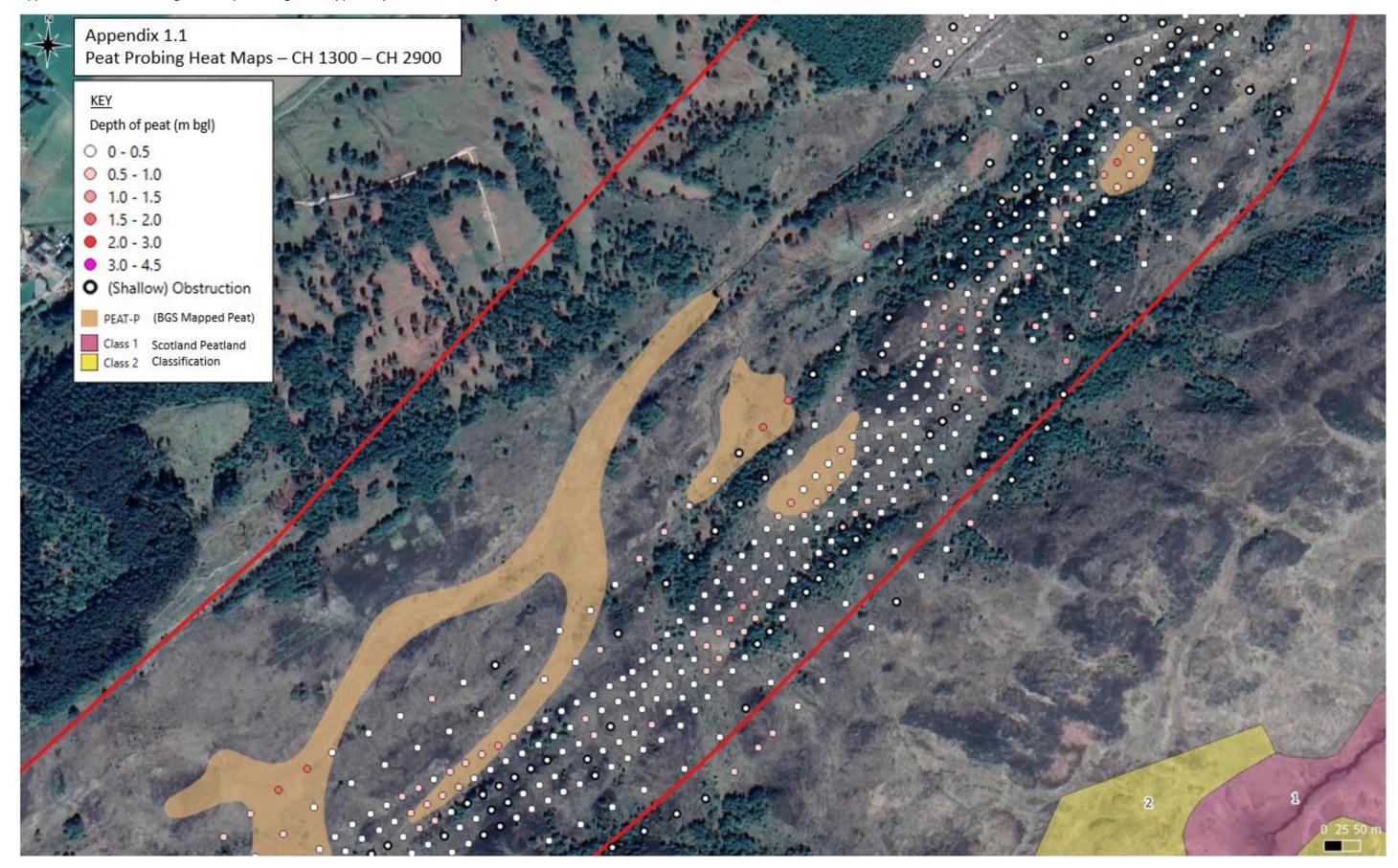
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Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.



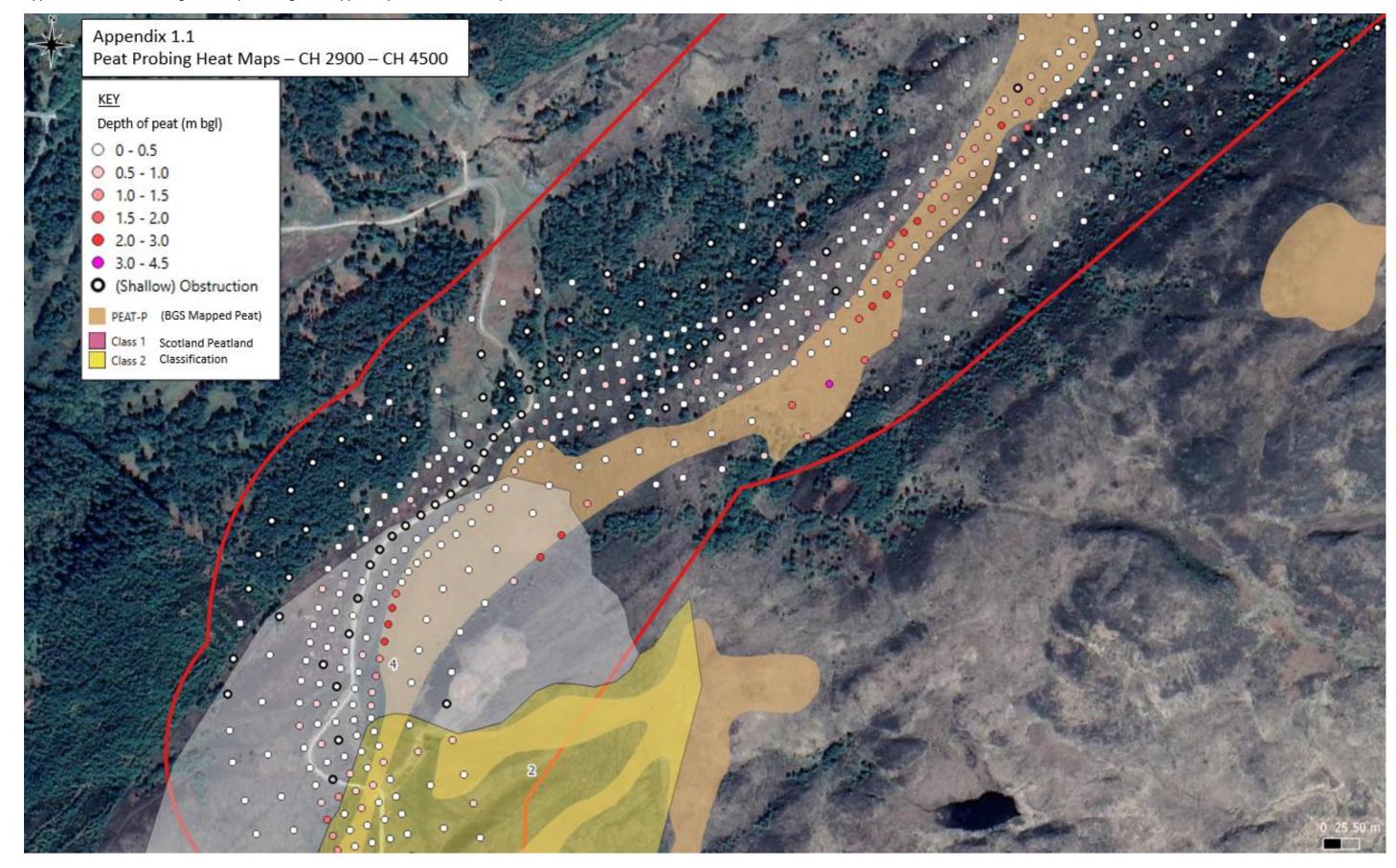


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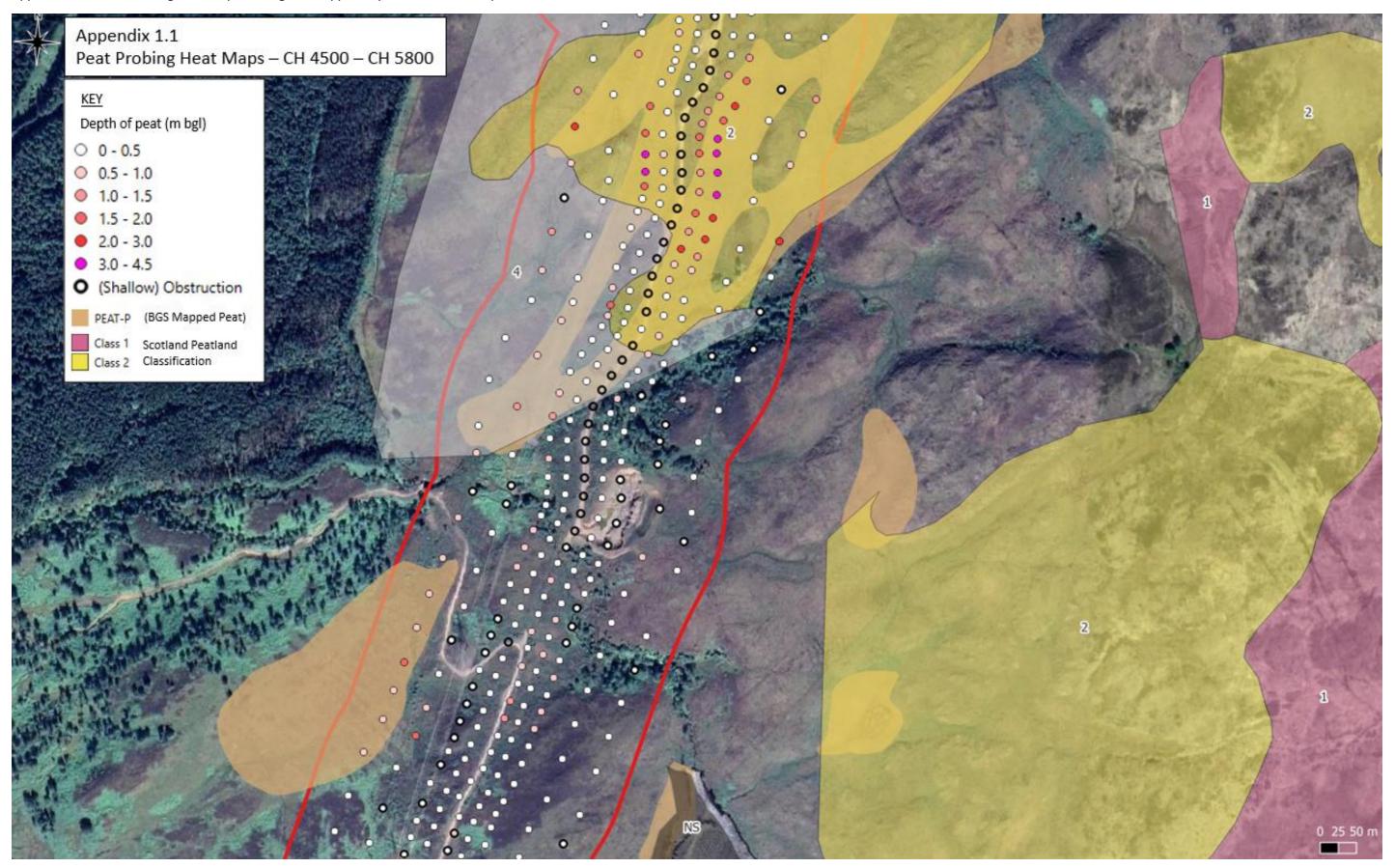


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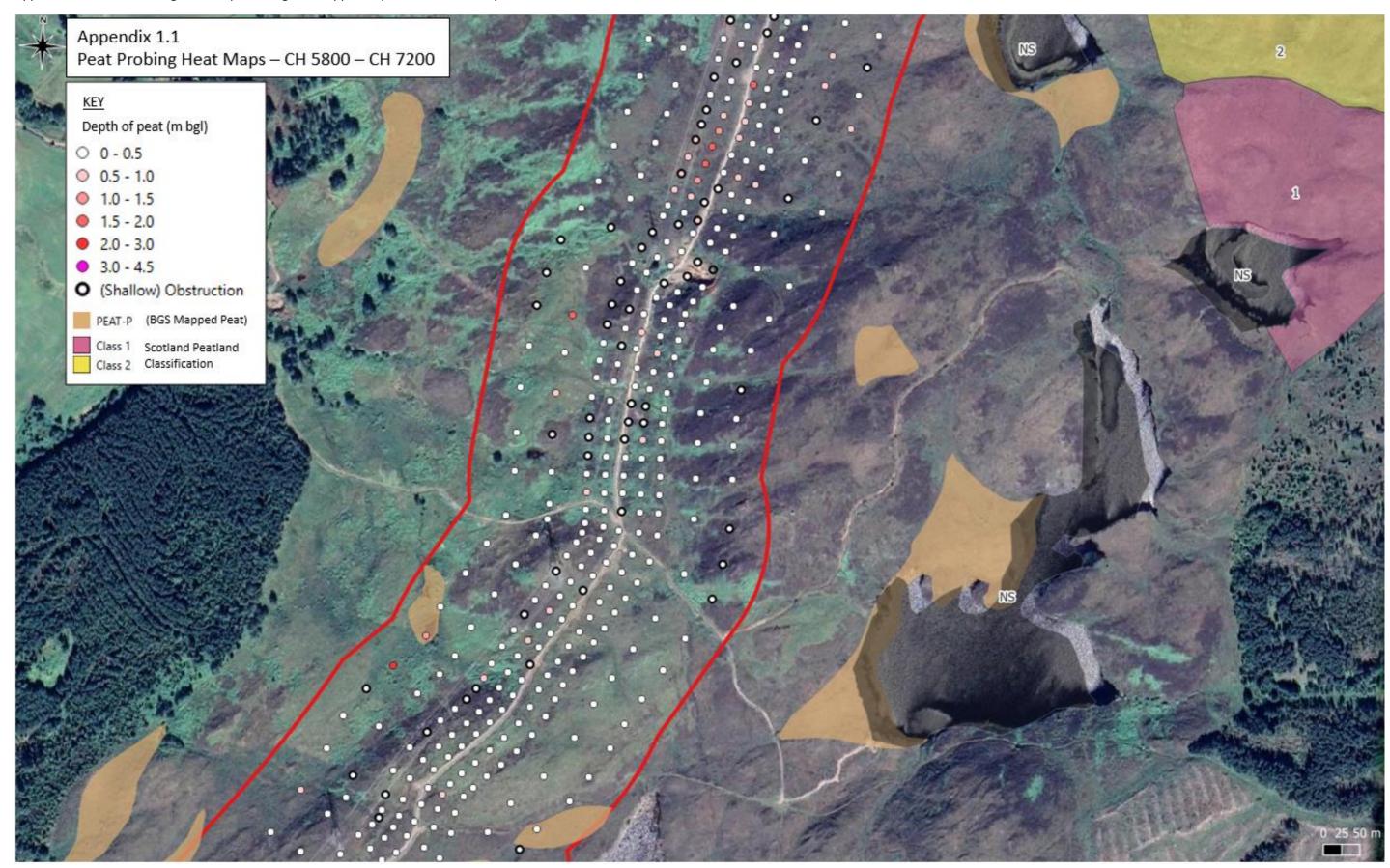


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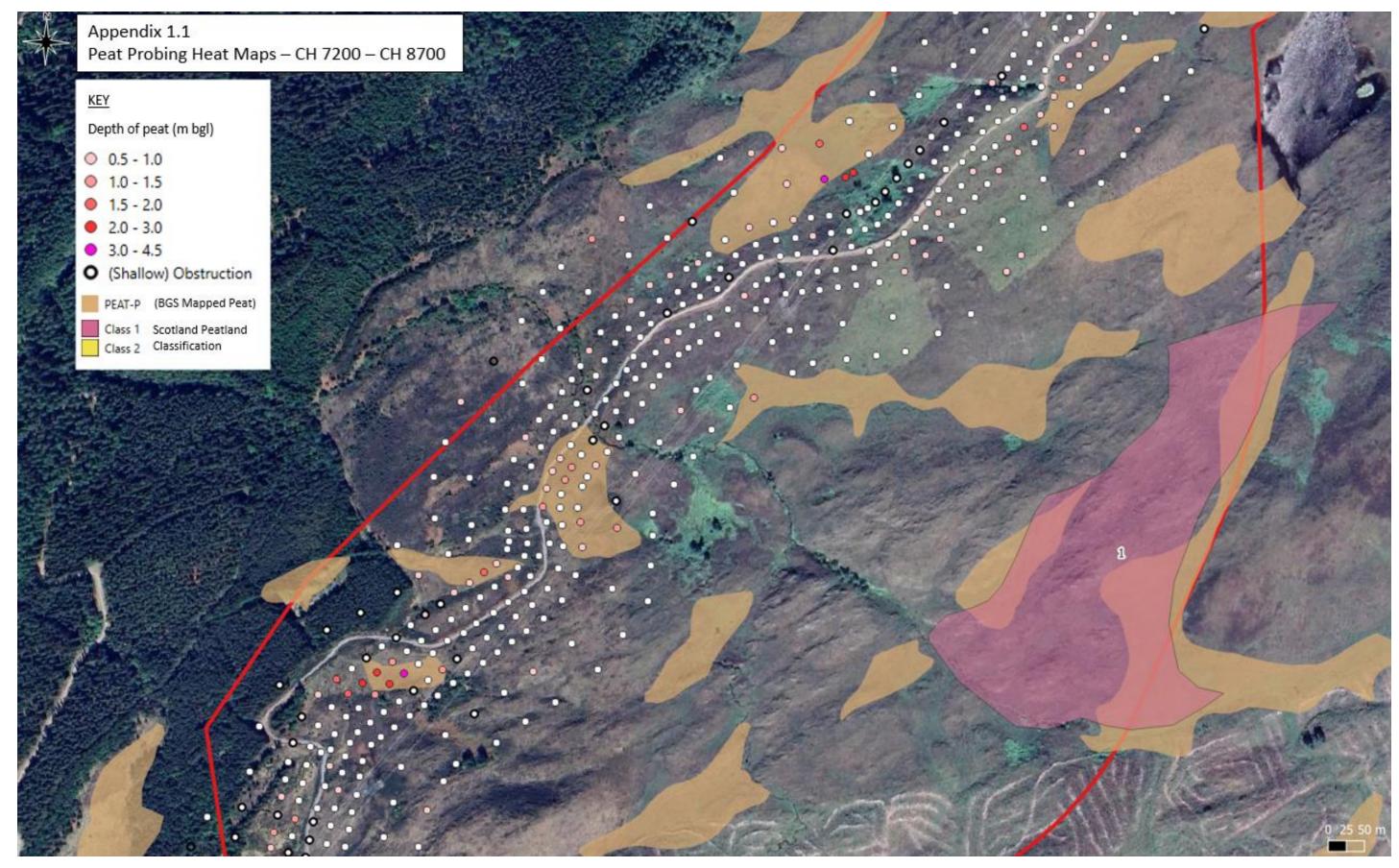
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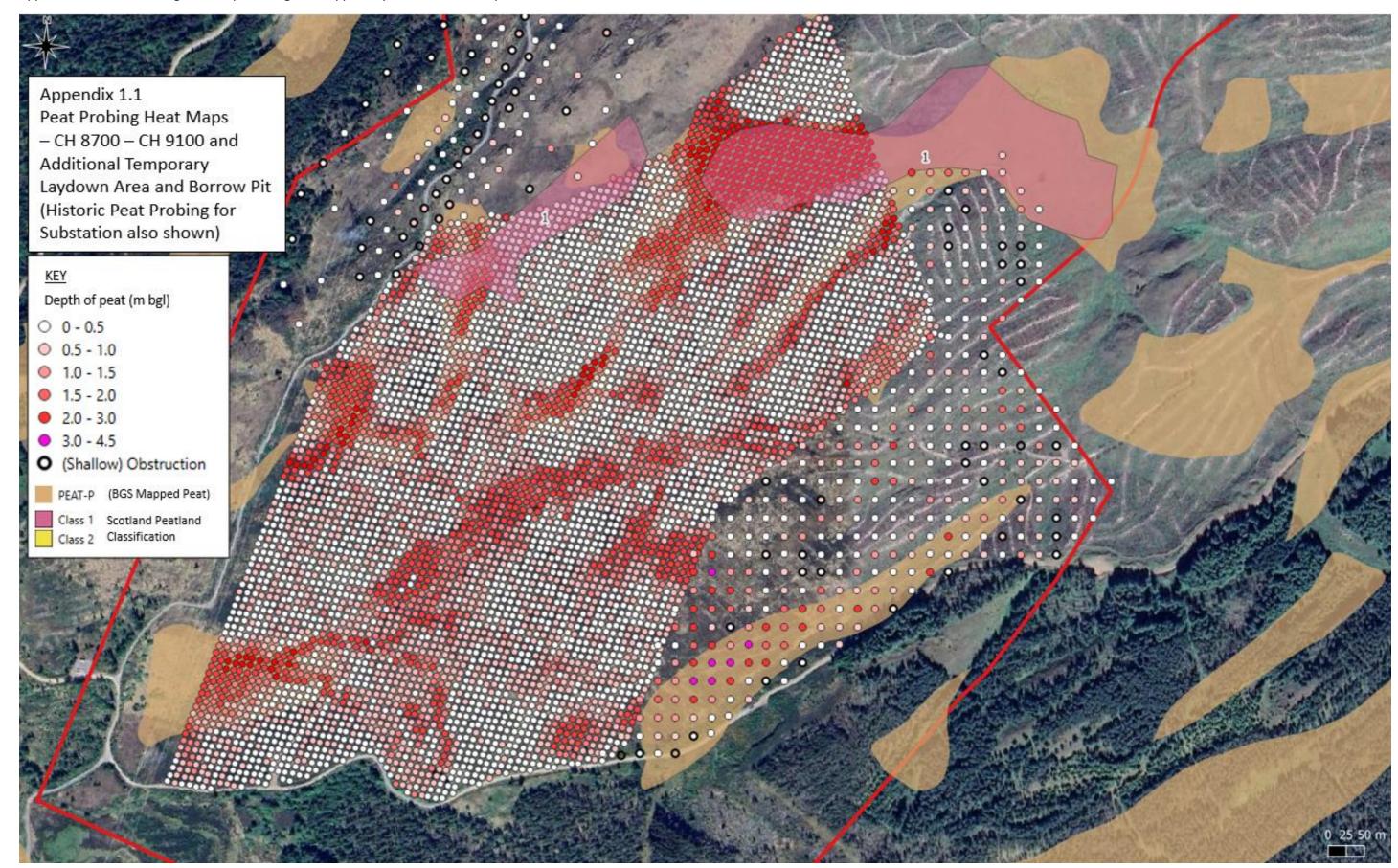


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Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.





Appendix 1.2 – Peat Coring Summary – Using Preliminary Logs supplied by BAM Ritchies.

Core 1	The first probing sample produced 3 types of peat reached a depth of 1.6mbgl, they thicknesses were 0.6m, 0.4m, and 0.6m. The peat begun as very slightly decomposed with easily identifiable plant
	remains. The peat then became slightly more decomposed with pasty plant remains before finishing as a moderately to highly decomposed peat with faintly recognisable plant structure. Almost half of
	this peat escaped when squeezing. The moisture content was low and then became moderate for the final two sections.
Core 2	The second set of core samples consisted of another 3 distinct peat layers. The thickness of these were 1.0m, 0.5m, and 0.3m. The peat began as slightly decomposed before reaching a stage of
	moderately to highly decomposed with barely any recognisable plant structure. However, with the deepest sample, the peat returned to very slight decomposed composition with identifiable plant
	remains. The three samples displayed a similar low to moderate moisture content, with the wettest being the middle layer.
Core 3	Core 3 produced two recognisably different varieties of peat from its sample, with the first having a thickness of 0.5m followed by the second at 1.6m, leaving the base of the peat at 2.1mgbl. This peat
	was highly decomposed, becoming even more so the deeper mbgl the probe went. There was still some faintly recognisable plant structure throughout the peat. The peat overall had a moderate
	moisture content.
Core 4	There were two distinct types of peat in this sample, with similar thicknesses of 1m and 1.2m. The initial top section of peat ranged from almost entirely undecomposed to slightly decomposed. The
	plant residue throughout this top layer has mainly not started to decompose however some have started to become pasty. No peat passes through the hands when squeezed and it has a low moisture
	content. The other peat layer is moderately to moderately highly decomposed, with indistinct plant structure and peat that escapes through the fingers when squeezed. It has a moderate moisture
	content.
Core 5	Core 5 produced peats of 1.05m and 0.51m thick. The top section was slightly less decomposed than the bottom section. No peat passed through when squeezed and plant remains only started to
	become pasty in the deeper section. The moisture content was low and then became moderate.
Core 6	Core 6 contained three different varieties of peat of thicknesses 0.3m, 0.5m, and 0.2m. The peat began as slightly decomposed before becoming moderately highly to highly decomposed, with the final
	thickness containing practically fully decomposed peat with hardly any recognised plant structure. The samples moisture content went from an initial dry peat, moderately moist and finally a high
	moisture content.
Core 7	Core 7 produced two peats of thickness 0.3m and 1.05m. The peat began as slightly to moderately decomposed peat and then became a moderately highly to very highly decomposed peat. The first
	section contained pasty plant remains, and in the second the plant remains were very indistinct or roots and fibres. The moisture content was dry/low and became moderate.
Core 8	This probe produced the second deepest area of peat from the samples with a base level of 3.15mbgl. The three thicknesses were 1.25m, 1.15m and 0.75m. The peats began as almost entirely
	undecomposed, becoming more and more decomposed as the probe went deeper. The final section of peat was practically fully decomposed with no discernible plant structure and all the peat
	escaped through the fingers when squeezed. The water content did not differ much between the three with the first section being slightly lower than the other two layers which contained a high
	moisture content.
Core 9	Core 9 found a peat depth of 0.65mbgl and two samples of 0.35m and 0.3m thick. The peat began as slightly decomposed with pasty plant remains which released muddy dark water. The deeper
	section produced a moderately highly decomposed peat with indistinct plant structure which released and one-third of the peat when squeezed. The moisture content began as low and finished as
	moderate.
Core 10	One type of peat was found here of 0.7m thick. It was almost entirely undecomposed with slight decomposition in some areas. No peat passed when squeezed and the plant remains were still
Core 10	identifiable.
	identifiable.
Core 11	This probe reached a depth of 2.4mbgl with 3 thicknesses of peat: 0.6m, 0.8m, and 0.6m followed by 0.4m of grey to greyish brown clay. The top layer of peat was almost entirely undecomposed with
	some slightly decomposed and some slightly pasty plant remains but no peat passed when squeezed. The second layer was highly decomposed with very faintly recognisable plant structure with half
	the peat releasing when squeezed. The third layer was practically fully decomposed forming a uniform paste when squeezed. The moisture contents varied from a low, to moderate, to a high content.
Core 12	There was no peat contained in this sample. The sample contained 0.12m of a brown fine to medium grained sand.
Core 13	Contained in this sample was 0.1m of a brown fine to medium grained sand. The following three layers of peat were 0.3m, 0.8m, and 0.1m. The first layer was completely to almost entirely
	undecomposed. The final two layers were highly decomposed and then practically fully decomposed. The moisture content was dry, moderate and then high.



Core 14	Core 14 contained 0.1m and a brown clayey fine to medium sand followed by 0.1m of a moderately decomposed peat which released muddy water with barely recognisable plant structure. This peat had a low to moderate moisture content.
Core 15	This probe produced four layers of peat reaching a base of 1.0m with thicknesses of 0.18m, 0.13m, 0.59m, and 0.1m. The peat begun as moderately decomposed before becoming almost entirely undecomposed, the third layer then returned to the original moderately decomposed state. The final layer seen the peat become highly decomposed, with half the peat escaping when squeezed. The water content was moderate throughout the probe apart from the second layer which displayed a low moisture content.
Core 16	Core 16 begun as 0.03m of brown clayey fine to medium sand followed by two peat layers of 0.09m and 0.38m, reaching a base of 0.5mbgl. The first layer of peat was slightly decomposed with slightly pasty plant remains. The second layer was moderately decomposed with a very small amount of amorphous peat escaping when squeezed. Both moisture contents were mainly low with the second layer slightly moister then the first.
Core 17	Core 17 produced 4 layers of peat ranging in thicknesses of 0.1m, 0.7m, 0.3m and 0.2m respectively. The first layer was undecomposed however as the sample went deeper the peat became significantly more decomposed with the final layer being composed of practically fully decomposed peat which became a uniform paste when squeezed. The moisture contents began as dry/low with the second two layers having a moderate content. The final layer had a high/very high moisture content.
Core 18	This sample began with 0.02m of brown clayey fine to medium sand, followed by 0.16m of an almost entirely undecomposed peat which released clear/yellowish water when squeezed and easily identifiable plant remains. It had a low moisture content.
Core 19	There were two types of peat produced from this probe of thicknesses of 0.2m and 1.0m. The top layer was almost entirely undecomposed peat however, the second layer consisted of moderately to moderately highly decomposed peat containing very indistinct plant structure.
Core 20	Core 20 contained two layers of thickness 0.95m and 1.55m. The top layer consisted of slightly/moderately decomposed peat with indistinct plant features. The second layer consisted of moderately highly to very highly decomposed peat containing plant residue of up to the just the roots and fibres that resist decomposition. The first layer had a moderate moisture content and the second had a high moisture content.
Core 21	This probe contained one smaller layer and one much thicker layer consisting of 0.05m and 1.55m thick. The top layer was slightly to moderately decomposed with a low moisture content followed by the second layer which was moderately highly/highly decomposed with a moderate moisture content.
Core 22	This probe produced the deepest level of peat from all the samples with a depth of 3.2m. The three layers had a thickness of 0.9m, 0.7m, and 1.6m. the top layer was relatively undecomposed with the second and third layers both containing areas of moderately high decomposition with the middle being slightly less so than the bottom layer. A consistent low to moderate water content was shown throughout the sample.
Core 23	This probe produced another deep sample of peat with a base layer of 3.0mbgl and three thicknesses of 0.45m, 1.85m, and 0.7m. The sample began as very slightly decomposed followed by the middle area which consisted of a slightly/moderately decomposed peat. The deeper layer then consisted of a practically fully decomposed peat. The moisture contents were a consistent moderate with the deeper layer bordering a high content.
Core 24	An identical pattern was shown from Core 24 as was with Core 23 apart from this probe gave a max peat depth of 0.85m and three thicknesses of 0.1m, 0.3m, 0.45m.
Core 25	This core sample contained one top layer of a 1.6m thick, of a moderately to highly decomposed peat with faintly recognisable plant structure with a low to high moisture content. It was followed by 0.25m thick of a light grey slightly clayey subangular fine to medium grain gravel.
Core 26	This probe produced 3 peat layers of thickness 0.4m, 0.6m and 0.85m. These three layers of peat followed the same pattern as displayed in Core 23 and 24.
Core 27	This produced one small peat layer of 0.1m thick. It was a slightly decomposed peat with a low moisture content and slightly pasty plant remains. It released muddy dark water when squeezed.
Core 28	Here two distinctly different layers of peat were produced, one of 0.1m thickness and the second 0.5m. The top layer was an almost completely undecomposed peat with some areas that were completely undecomposed. The second, thicker layer consisted of a peat that was very slightly to moderately decomposed. The moisture contents went from low to moderate.
Core 29	The two layers of peat here had some overlap between their decomposition. Their thickness was 0.45m and 1.3m reaching a base depth of 1.75mbgl. The top layer ranged from almost entirely undecomposed to slightly decomposed. The second layer ranged from very slightly decomposed to moderately decomposed. The top layer had a low moisture content and the second a moderate content.



Core 30	Two peat layers of equal thickness, 0.2m, were produced from this probe. The top displayed a moderately/highly decomposed peat with some pasty plant structure. The second layer was practically fully decomposed with hardly any recognisable plant structure. Both peats had a moderate moisture content.
Core 31	Two distinct peat layers of thickness of thickness 0.12m and 0.21m were gathered from this probe. The top layer was very slightly decomposed with some areas almost entirely undecomposed which was completely dry. The second layer was moderately highly to highly decomposed and had a low moisture content.
Core 32	This core sample was almost identical to Core 31 although there were areas of slightly more decomposition in the top layer. The thickness of the two layers were 0.15m and 0.11m.
Core 33	Core 33 produced 3 distinct layers of peat of thicknesses 0.25m, 0.3m, and 0.6m. The top layer began with minimal decomposition and a low moisture content, the second layer displayed moderate to moderately high decomposition with plant remains starting to become indistinct and a low/moderate moisture content. The third and final layer contained peat that was almost fully decomposed with hardly any recognisable plant structure and a moderate moisture content.
Core 34	This followed the same pattern as Core 33 apart from the initial top layer began with slightly more decomposition. The thickness of each layer was 0.4m, 0.46m, and 0.24m. The moisture only differed from Core 33 with the deepest layer displaying areas of a very high moisture content.
Core 35	This was once again almost identical to Core 33 with the only difference being the top layer shown slightly more decomposition here than the previous two cores. The moisture contents were the same as Core 33. The thicknesses were 0.62m, 1.16m, and 0.15m.
Core 36	This sample was an identical composition to Core 34. The thickness of each layer was 0.62m, 1.3m, and 0.43m. This was also the deepest peat sample at 2.35mbgl since Core 23 at 3.0mbgl.
Core 37	This sample followed the same pattern as the previous one with layer thicknesses of 0.4m, 1.2m, and 0.3m.
Core 38	The same as above but with a layer thickness of 0.18m, 0.92m, and 0.55m.
Core 39	This sample had slightly less peat decomposition in its middle layer. Its deepest layer also displayed the most decomposition shown from all the samples along with Core 17. This peat was completely decomposed with no discernible plant structure. When squeezed all the wet peat escaped through the fingers. This layer also had a very high moisture content. The thickness of the layers was 0.19m, 0.41m, and 1.05m.
Core 40	Core 40 had two distinctly different layers of peat, their thickness was 0.22m and 0.52m. the top layer consisted of very slightly decomposed peat which released muddy brown water when squeezed with identifiable plant remains. The deeper layer consisted of moderately/highly decomposed peat with a lot less recognisable plant remains. The moisture content in the top layer was low with the deeper layer being low/moderate.
Core 41	This had an identical composition to Core 40, however the thickness of the two layers were slightly different at 0.1m and 0.4m.
Core 42	The same as Core 40 but with thicknesses of 0.14m and 0.38m.
Core 43	The same as Core 40 but with thicknesses of 0.25m and 0.22m.
Core 44	The same as Core 40 but with thicknesses of 0.12m and 0.40m.
Core 45	This sample contained three distinctly different layers of peat. The first two were the same composition to Core 40. However, the third and deepest layer contained peat that had practically fully decomposed in which there was hardly recognised plant structure and when squeezed it formed a uniform paste. This third layer had a high moisture content. The layer thicknesses were 0.14m, 0.26m, and 0.1m
Core 46	This sample was similar to Core 45 however its third and deepest layer shown peat that had not decomposed quite as much and still contained some indistinct plant structure. This layer also was less moist than the one in Core 45. The layer thicknesses were 0.3m, 0.62m, 0.38m.
Core 47	This probe consisted of 0.08m of a dark brown clayey fine sand.
Core 48	This probe consisted of 0.1m of brown clayey fine sand.

### BING4-LT521-SEBAM-EWKS-ZZ-RPT-G-0003 – Appendix 1



Core 49	This sample contained three distinct peat layers with thicknesses of 0.22m, 0.83m, 0.55m with the base of the peat reaching 1.6mbgl. The top layer consisted of slightly to very slightly decomposed
	peat with identifiable plant remains and a low moisture content. The second layer consisted of moderately to very highly decomposed peat with a now very indistinct plant structure and a
	moderate/high moisture content. The third and deepest layer contained practically fully decomposed peat with hardly any recognisable plant structure and a high moisture content.
Core 50	This consisted of 0.1m of dark brown silty fine to medium sand.
Core 51	This consisted of 0.08m of light brown fine sand.
Core 52	This core was a near identical make up to Core 49. The thickness of the three layers were 0.38m, 0.24m, and 0.23m
Core 53	This contained two distinct peat layers of 0.15m and 0.05m. The top layer was almost entirely undecomposed/very slightly decomposed with identifiable plant remains and a low moisture content. The
	second layer consisted of moderately highly decomposed peat with faintly recognisable plant structure and a moderate moisture content.
Core 54	0.05m of brown fine to medium sand.
Core 55	0.25m of brown fine to medium sand with frequent fine roots.
Core 56	0.14m of brown clayey fine to medium sand.
Core 57	0.17m of brown clayey fine to medium sand.
Core 58	0.02m of brown clayey fine to medium sand.
Core 59	0.05m of brown fine to medium sand.
Core 60	One 0.5m thick layer of a very slightly/moderately decomposed peat containing plant remains that are starting to become slightly indistinct. Muddy water is released when squeezed and it has a
	low/moderate moisture content.
Core 60	

**FAIRHURST** 

Appendix 1.3 – Peat Coring Von Post Groups and % of type encountered – Using Preliminary Logs supplied by BAM Ritchies.

Location	Base of Peat (mbgl)	Top of Strata (mbgl)	Base of Strata (mbgl)	Thickness	Type of Peat (HX, BX)	
		0	0.6	0.6	H2-3	B2
Core 1	1.6	0.6	1	0.4	H4	В3
		1	1.6	0.6	H6-7	В3
		0	1	1	H4	B2-B3
Core 2	1.8	1	1.5	0.5	H6-7	В3
		1.5	1.8	0.3	H3	B2
Cara 2	2.1	0	0.5	0.5	H5-7	В3
Core 3	2.1	0.5	2.1	1.6	H6-7	В3
Coro 1	2.2	0	1	1	H2-4	B2
Core 4	2.2	1	2.2	1.2	H5-6	В3
Cara	1.50	0	1.05	1.05	H2-3	B2
Core 5	1.56	1.05	1.56	0.51	H4	В3
		0	0.3	0.3	H3-4	B1-2
Core 6	1	0.3	0.8	0.5	H6-7	В3
		0.8	1	0.2	Н9	B4
Coro 7	4.25	0	0.3	0.3	H4-5	B1-2
Core 7	1.35	0.3	1.35	1.05	H6-8	В3
	3.15	0	1.25	1.25	H2-4	B2-3
Core 8		1.25	2.4	1.15	H6-8	B4
		2.4	3.15	0.75	Н9	B4
Carra 0	0.65	0	0.35	0.35	H3-4	B2
Core 9		0.35	0.65	0.3	H6	В3
Core 10	0.7	0	0.7	0.7	H2-3	
		0	0.6	0.6	H2-4	B2-3
Coro 11	2.4	0.6	1.4	0.8	H6-7	В3
Core 11	2.4	1.4	2	0.6	H8-9	B4
		2	2.4	0.4	Grey to greyish brown CLAY	
Core 12	0.12	0	0.12	0.12	TOPSOIL: Brown fine to medium grained SAND	
		0	0.1	0.1	TOPSOIL: Brown fine to medium SAND	
Core 13	1.3	0.1	0.4	0.3	H1-2	B1-2
COIE 13	1.3	0.4	1.2	0.8	H6-7	В3
		1.2	1.3	0.1	H8-9	B4
Core 14	0.2	0	0.1	0.1	TOPSOIL: Brown clayey fine to medium SAND	
COIE 14		0.1	0.2	0.1	H4-5	B2-B3
		0	0.18	0.18	H5	В3
Core 15	1	0.18	0.31	0.13	H2-3	B2
COLG 13		0.31	0.9	0.59	H5	В3
		0.9	1	0.1	H6-7	В3
		0	0.03	0.03	TOPSOIL: Brown clayey fine to medium SAND	
Core 16	0.5	0.03	0.12	0.09	H3-4	B2
		0.12	0.5	0.38	H5	B2-3

Tot No. of H = 117 Tot No. of B = 115

	%
,	H1 = 3.4%
	H2 = 16.2%
	H3 = 17.9%
	H4 = 11.1%
	H5 = 20.5%
	H6 = 14.5%
	H7 = 0.9%
	H8 = 7.7%
	H9 = 8.5%
	H10 = 0%
	B1 = 5.2%
	B2 = 40%
	B3 = 39.1%
	B4 = 15.7%
	B5 = 0%

<b>FAIRHURST</b>
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		0	0.1	0.1	H1-2	B1-2
C 17		0.1	0.8	0.7	H5	В3
Core 17	1.3	0.8	1.1	0.3	H6-7	В3
		1.1	1.3	0.2	H9-10	B4-5
Cara 10	0.10	0	0.02	0.02	TOPSOIL: Brown clayey fine to medium SAND	
Core 18	0.18	0.02	0.18	0.16	H2	B2
Core 19	1.2	0	0.2	0.2	H2	B2
Core 19	1.2	0.2	1.2	1	H5-6	
Core 20	2.5	0	0.95	0.95	H4-5	В3
COTE 20	2.5	0.95	2.5	1.55	H6-8	B4
Core 21	1.6	0	0.05	0.05	H4-5	B2
COIE 21	1.0	0.05	1.6	1.55	H6-7	В3
		0	0.9	0.9	H2-3	B2
Core 22	3.2	0.9	1.6	0.7	H4-6	B2-3
		1.6	3.2	1.6	H5-6	В3
		0	0.45	0.45	H2-3	В3
Core 23	3	0.45	2.3	1.85	H4-6	В3
		2.3	3	0.7	H8-9	B3-4
		0	0.1	0.1	H2-3	В3
Core 24	0.85	0.1	0.4	0.3	H4-6	В3
		0.4	0.85	0.45	H8-9	B3-4
	1.85	0	1.6	1.6	H5-7	B2-4
Core 25		1.6	1.85	0.25	Light grey slightly clayey subangular fine to m GRAVEL	edium
		0	0.4	0.4	H2-3	B2
Core 26	1.85	0.4	1	0.6	H4-6	В3
		1	1.85	0.85	H9	B4
Core 27	0.1	0	0.1	0.1	H4	B2
Core 28	0.6	0	0.1	0.1	H1-2	B2
COTE 28	0.0	0.1	0.6	0.5	H3-5	В3
Core 29	1.75	0	0.45	0.45	H2-4	B2
COTE 23	1.75	0.45	1.75	1.3	H3-5	В3
Core 30	0.4	0	0.2	0.2	H5-6	B3
COIC 30	0.4	0.2	0.4	0.2	H9	B3
Core 31	0.33	0	0.12	0.12	H2-3	B1
COIC 31	0.33	0.12	0.33	0.21	H6-7	B2
Core 32	0.26	0	0.15	0.15	H2-4	B1
5016 32	U.2b	0.15	0.26	0.11	H6-7	B2
		0	0.25	0.25	H1-3	B2
Core 33	1.15	0.25	0.55	0.3	H5-6	B3-4
		0.55	1.15	0.6	H8-9	B4
		0	0.4	0.4	H3-4	B2-3
Core 34	1.1	0.4	0.86	0.46	H5-7	B3-4
		0.86	1.1	0.24	H8-9	B4-5
Core 35	1.93	0	0.62	0.62	H2-5	B2-3

<b>FAIRHURST</b>
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		0.62	1.78	1.16	H5-7	B3-4
		1.78	1.93	0.15	H8-9	B4
		0	0.62	0.62	H3-5	B2-3
Core 36	2.35	0.62	1.92	1.3	H5-7	B3-4
		1.92	2.35	0.43	H8-9	B4
		0	0.4	0.4	H3-4	B2
Core 37	1.9	0.4	1.6	1.2	H5-7	B3-4
		1.6	1.9	0.3	H8-9	B4
		0	0.18	0.18	H3-4	B2
Core 38	1.65	0.18	1.1	0.92	H5-8	B3-4
		1.1	1.65	0.55	Н9	B4-5
		0	0.19	0.19	Н3	В3
Core 39	1.65	0.19	0.6	0.41	H4-6	B3-4
		0.6	1.65	1.05	H9-10	B4-5
		0	0.22	0.22	Н3	B2
Core 40	0.74	0.22	0.74	0.52	H5-7	B2-3
		0	0.1	0.1	Н3	B2
Core 41	0.5	0.1	0.5	0.4	H5-7	B2-3
	0.50	0	0.14	0.14	Н3	B2
Core 42	0.52	0.14	0.52	0.38	H5-7	B2-3
	0.4=	0	0.25	0.25	H2-4	B2
Core 43	0.47	0.25	0.47	0.22	H5-7	B2-3
	0.50	0	0.12	0.12	H3-4	B2
Core 44	0.52	0.12	0.52	0.4	H5-7	B2-3
		0	0.14	0.14	H3-4	B2
Core 45	0.5	0.14	0.4	0.26	H5-7	В3
		0.4	0.5	0.1	Н9	B4
		0	0.3	0.3	H3-4	B2
Core 46	1.3	0.3	0.92	0.62	H5	В3
		0.92	1.3	0.38	H7-8	В3
Core 47	0.08	0	0.08	0.08	TOPSOIL: Dark brown clayey fine SAND	
Core 48	0.1	0	0.1	0.1	TOPSOIL: Brown clayey fine SAND	
		0	0.22	0.22	H3-4	B2
Core 49	1.6	0.22	1.05	0.83	H6-8	B3-4
		1.05	1.6	0.55	H9	B4
Core 50	0.1	0	0.1	0.1	Dark brown silty fine to medium SAND	
Core 51	0.08	0	0.08	0.08	Light brown fine SAND	
		0	0.38	0.38	H3-4	B2
Core 52	0.85	0.38	0.62	0.24	H5-7	B3-4
		0.62	0.85	0.23	H9	B4
Core 53	0.2	0	0.15	0.15	H2-3	B2
COLE 33	0.2	0.15	0.2	0.05	H6	В3
Core 54	0.05	0	0.05	0.05	Brown fine to medium SAND	
Core 55	0.25	0	0.25	0.25	Brown fine to medium SAND with frequenct fin	ne roots
Core 56	0.14	0	0.14	0.14	TOPSOIL: Brown clayey fine to medium SAND	

### BING4-LT521-SEBAM-EWKS-ZZ-RPT-G-0003 – Appendix 1

Core 57	0.17	0	0.17	0.17	TOPSOIL: Brown clayey fine to medium SAND
Core 58	0.02	0	0.02	0.02	TOPSOIL: Brown clayey fine to medium SAND
Core 59	0.05	0	0.05	0.05	Brown fine to medium SAND
Core 60	0.5	0	0.5	0.5	H3-5 B2-3





# **Appendix 2** Preliminary Peat Core Logs



# **Exploratory Hole Log**

Ground Level:

Location ID: PC01 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No: Client:  $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231222.87 mE

> 824375.83 mN 341.84 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Date Completed: 03/07/2024				Inclina	tion:				9	00 deg.	Final	Dept	h:		1.60m	1
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR				П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy to firm dark brown fibrous PEAT (H2-H3, B2) with many fine roots.  0.00 - 0.30m : Moist.	316 3 6 316 316 3 6 316 316 3	_ - - -														
0.30 - 1.60m : Wet.	6 alis alis a 6 alis alis a 8 alis	(0.60) - - -														
Firm dark brown clayey pseudo-fibrous PEAT (H4, B3).	2) (c. 2) (c. 2) (c. 2) (c. 2) (c. 2) (c. 2)	- 0.60 - - - -(0.40)	341.24													
Firm dark brown to black pseudo-fibrous PEAT (H6-7, B3).	2016 20 20 20 20 20 20 20 20 20 20 20 20 20	1.00	340.84													
1.60m : Refusal on hard base. / Terminated at 1.60m	2) (2) (2) (2) (3) (4) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	 1.60 	340.24													
		- - - - -														
		_ _ _ _														
		- - - - -														
		_ _ _ _ _														
		- - - -														

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks



Client:

### **Exploratory Information Sheet**

Survey Grid System:

Co-ordinates:

Location ID: PC01 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started:

Project No:

03/07/2024 Orientation:

Ground Level: 341.84 mOD Log Status: PRELIM

- - deg.

OSGB

231222.87 mE

824375.83 mN

Print Date: 31/07/2024

RPC

SR

 $\mathsf{AH}$ 

Hole Type:

Checked By:

Approved By:

Date Com	pleted	l: c	3/07/202	24							nation:				90 deg.	Fin	nal Dep	th:	1.60m
From (m)	To (	'm)	Tyne	Start	End		De Plant	epth Rel	ated Exp Barre		ole Inform		Crew		Longer			Remark	•
From (m) 0.00	1.6	50	Type RPC	03/07/2024	03/07/202	4 Rus	riant ssian Peat Co	orer	Dane	<u> </u>	III DIL	rag	Siew		Logger SK			Kemark	5
Date 03/07/2024	Tin 07:	30	epth (m) 0.00	-Drilling Pro Casing (m)	gress Depth Water	(m) Sta	Remarks rt of shift	5	Depth (i		Diameter (mm)	by Depth Rem	narks	Depth	ı (m) Dia	Casing a. (mm)	Diamete	er by Depth Remark	s
03/07/2024	17:	30	1.60			Hol	e complete							er Added	Records				
									From (r	n) To	(m) Vo	olume (litres)				Rema	arks		
	T ( )		Depth	Related Rer					- /		ig / Hard E	Boring Deta	ils	- ·		Drill	ing Flush	Details	0.1
From (m)	To (m)		Water	Strikes	Remarks				From (r			ration (hh:mm)	Tool	From (		В	arns (%)	Flush	Colour
Date	Strike (r	n) Casing (m)	Time (mins)	epth (m) Seale	d (m)	Remar	ks	Type Pi	pe ID From	(m) To (n	n) Dia(mm)	Pipe Type	Remarks	From (		n) Le	egend	Descr Arisings	iption
Depth (m)	Type	N Value	Casing (m	) Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Stan Blows2	dard Pene	etration Te	st Results	n)  Blows4	Pen4(mm)						E. Ratio%
Deptn (m)	Туре	N Value	Casing (m	) water (m)	swren(mm)	BIOWST	Peni(mm)	BIOWSZ	Pen2(mn	Blows3	Pens(mr	n) Blows4	Pen4(mm)	Blowso	Pens(mm)	Blomso	Peno(m	m) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



Project No:

# **Exploratory Hole Log**

Ground Level:

Location ID: PC02 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

 $\mathsf{BAM}$ 

Client: Engineer: Fairhurst Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231022.84 mE

> 824300.81 mN 347.84 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

**PRELIM** 

Log Status:

RPC

SR

Orientation: - - deg. Print Date: 31/07/2024

Company   Continue
Spongy dark brown clayey pseudo-fibrous PEAT (H4, B2-B3).  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, B3).  Spongy dark brown clayey fibrous PEAT (H6-H7, B3).  Spongy dark brown clayey fibrous PEAT (H3, B2) with few fine roots.  1.80m : Refusal on hard base.
Spongy dark brown clayey pseudo-fibrous PEAT (H4, B2-B3).  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max 2 1,00)  Spongy dark brown clayey fibrous PEAT (H6-H7, Max
Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Refusal on hard base.  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Refusal on hard base.  Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, Refusal on hard base.  346.84  346.84  346.84  346.84  346.84  346.84
Firm dark brown clayey fibrous PEAT (H3, B2) with few fine roots.    All   All
1.80m : Refusal on hard base. 1.80   346.04
Terminated at 1.80m

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks

BAM R Exploratory Log 2024-07-26



Project No:

Client:

### **Exploratory Information Sheet**

Location ID: PC02 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V BAM

Engineer: Fairhurst

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231022.84 mE

> 824300.81 mN 347.84 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

Print Date: 31/07/2024

RPC

PRELIM

Orientation: - - deg.

Date Completed: 03/07/2024 Inclination: 90 deg Final Depth: 1.80m

Ground Level:

Date Con	npleted	d:	03/07/20	24							nation:			90	deg.	Final De	oth:	1.80m
From (m)	То	(m)	Type	Start	End		Plant	epth Re	lated Explo		ole Info	rmation Rig	Crew		oaaer		Remar	·ks
0.00	1.	(m) 80	Type RPC	03/07/2024	03/07/2024	4 Ru	ssian Peat C	Corer							ogger SK			
			Boring	g-Drilling Pro	gress					Hole	Diamet	er by Depth			C	asing Diamet	er by Depth	
Date 03/07/2024	Tir 07		Depth (m) 0.00	Casing (m)	Depth Water (	(m)	Remark	S	Depth (m		(mm)		marks	Depth (m			Remar	ks
03/07/2024		:30	1.80				le complete											
									From (m	) To	(m)	Volume (litres		er Added Re		Remarks		
										,	()	voidino (indoo	1			rtomanto		
-			Denth	Related Rer	narks					Chisellin	ng / Hard	Boring Det	ails			Drilling Flus	h Details	
From (m)	To (m)		2 optii		Remarks				From (m			Duration (hh:mm		From (m)	To (m)	Returns (%)	Flush	Colour
			Wate	r Strikes				ı	Moni	toring Inc	etallation	Pipe Work				Backfill D	) etaile	
Date	Strike (	m) Casing (n		Depth (m) Seale	ed (m)	Rema	rks	Type Pi				n) Pipe Type		From (m)	To (m)	Legend	Des	cription
														0.00	1.80	905	Arisings	
								C4	dand Danad		-4 DI							
Depth (m)	Туре	N Value	Casing (n	n) Water (m)	SWPen(mm) I	Blows1	Pen1(mm)		dard Penet Pen2(mm)				Pen4(mm)	Blows5 Pen	5(mm) Blo	ows6 Pen6(r	nm) Hamme	er E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC03 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V Project No:

Client: BAM

Engineer: Fairhurst

Date Started: 03/07/2024 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 230922.85 mE

> 824125.82 mN 351.44 mOD

Approved By: ΑН 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** Print Date: 31/07/2024

Orientation: - - deg. 00 doa Inclination: Einal Donth 2 10m

ate Completed:	03/07/2024				Inclina	tion:				9	90 deg.	Final	Deptl	n:		2.10n
			Depth			Sampli	ing, C	oring	and In S	itu Test	ting		TCR	IFmin mm		
	Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm	Water	Well/ Backfill
B3).	n clayey pseudo-fibrous PEAT (H5-H7,	2016   2   2016   2   2016   2   2016   2   2016   2   2016   2	(0.50)	350.94												
Spongy dark brow B3).	n clayey pseudo-fibrous PEAT (H6-H7,	continue of the continue of th	-(1.60)													
	2.10m : Refusal on hard base. Terminated at 2.10m		-2.10	349.34												
			- - - - - - -													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



#### **Exploratory Information Sheet**

Location ID: PC03 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V Client: BAM

Engineer: Fairhurst

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 230922.85 mE

> 824125.82 mN 351.44 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Print Date:

Hole Type:

Log Status:

PRELIM 31/07/2024

RPC

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 2.10m 03/07/2024

Ground Level:

Date Comp	notou.	03/07/20	J24 					inclination			90 0	icg. i ii	іаі Бері	u I.	2.10m
From (m) 0.00	To (m) 2.10	Type RPC	Start	End	De Plant	epth Re	lated Explor Barrel	atory Hole Inf	ormation Rig (	Crew	Log	gger		Remarks	<u> </u>
0.00	2.10		03/07/2024	03/07/2024	Russian Peat Co	orer		Hole Diame	eter by Depth		5		Diamete	r by Depth	
Date 03/07/2024 03/07/2024	Time 07:30 17:30	Depth (m) 0.00 2.10	Casing (m)	Depth Water (m)	Remarks Start of shift Hole complete	5	Depth (m)			narks	Depth (m)			Remarks	5
							From (m)	To (m)	[] [] [] [] [] [] [] [] [] [] [] [] [] [		er Added Reco		orko		
							From (m)	To (m)	Volume (litres)			Rem	arks		
		Dent	h Related Rem	arke				Chiselling / Hai	rd Boring Deta	ile		Drill	ing Flush	Details	
From (m) T	To (m)	ьерт		arks Remarks			From (m)		Duration (hh:mm)		From (m)		ırns (%)	Flush	Colour
		Wat	er Strikes		Т		Monite	oring Installatic	on Pipe Work			E	Backfill De	etails	
Date S	Strike (m) Cas		Depth (m) Sealed	I (m) Re	emarks	Type Pi		) To (m) Dia(r		Remarks	From (m) 0.00	To (m) Le	egend	Descri Arisings	ption
						Stan	dard Penetr	ation Test Resi	uits						
Depth (m)	ype N V	alue Casing (	m) Water (m) S	WPen(mm) Blov	ws1 Pen1(mm)	Blows2	Pen2(mm)	Blows3 Pen3(	(mm) Blows4	Pen4(mm) E	Blows5 Pen5(	mm) Blows6	Pen6(mi	m) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Location ID: PC04 Sheet 1 of 1

Hole Type:

Checked By:

Approved By:

Scale:

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Client: BAM

Engineer: Fairhurst Date Started: 03/07/2024

RGN.331V Project No:

Ground Level:

Survey Grid System:

Co-ordinates:

Orientation: - - deg.

90 deg

351.04 mOD

OSGB

230822.89 mE

824050.88 mN

1:25

RPC

SR

ΑН

Log Status: **PRELIM** Print Date: 31/07/2024

ate Completed: 03/07/2024				Inclina	tion:					-		Date.			2.20
		Depth (Thick-	Level		Sampl	ing, C	oring	and In S	itu Test	ing		TCR SCR	IFmin mm		\\/-!
Stratum Description	Leg.	ness) (m)	(m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	RQD %		Water	Wel Back
Firm light brown to dark brown fibrous PEAT (H2-H4, B2)		<u> </u>													
vith many fine roots.  0.00 - 0.20m : Moist.		E													
0.20 - 2.20m : Wet.		Ė													
	ہ مادہ عادہ ع	Ė													
		(1.00)													
	alk s	F													
	ه عاده ه عاده	Ė													
,	a alta alta a	E													
The dad beauty along the file of DEAT (U.S.C. D2)		1.00	350.04												
rm dark brown clayey pseudo-fibrous PEAT (H5-6, B3).	s ales ales s	F													
	s alk _alk _s	E													
	s sits sits s	Ļ													
	s sits sits s	F													
	s ale ale s	(1.20)													
	2 316 316 3	[(1.20)													
	ی ماند ماند م	ļ.													
	ی ماد ماد ه	E													
	ه ماده ماده ه	E													
	2 316 316 3	ŀ													
2.20m : Refusal on hard base.	2002 2	2.20	348.84												777
Terminated at 2.20m		E													
		_													
		-													
		_													
		_													
		-													
		_													
		E													
		L													
		F													
		_													
		_													
		-													
		_													
		E													
		-													
		F													
		E													
		F													
		F													
		E													
		E													
		F													
		L													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC04 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 03/07/2024

Survey Grid System: LT521 - Bingally 400kv Substation

OSGB Co-ordinates:

230822.89 mE 824050.88 mN

351.04 mOD

Checked By: Approved By:

Log Status:

Hole Type:

PRELIM Print Date: 31/07/2024

RPC

SR

 $\mathsf{AH}$ 

Orientation: - - deg.

Date Completed: 03/07/2024 Inclination: 90 deg Final Depth: 2.20m

Ground Level:

Date Con	npleted	d:	03/07/20	24							nation:			90	deg.	Final De	pth:	2.20m
From (m)	То	(m)	Туре	Start	End		Plant	epth Re	lated Explo		ole Info II Bit	rmation Rig	Crew	L	ogger SR		Rema	rks
0.00	2.	(m) 20	Type RPC	03/07/2024	03/07/2024	Ru	ssian Peat C	Corer							SR			
Date	Tir	ne [	Boring Depth (m)	g-Drilling Pro Casing (m)	gress Depth Water (	m)	Remark	s	Depth (m		Diamet (mm)	er by Depth Rer	marks	Depth (m		asing Diamet	ter by Depth Remai	rks
03/07/2024 03/07/2024	07		0.00 2.20	3 ( )		Sta	art of shift le complete											
	"																	
									From /m	\	(m)	\/_l /lit		er Added Re		Domarka		
									From (m	) 10	(m)	Volume (litres	)			Remarks		
			Depth	Related Rer								Boring Det				Drilling Flus	h Details	
From (m)	To (m)				Remarks				From (m	) To	(m)	Duration (hh:mm	) Tool	From (m)	To (m)	Returns (%)	Flush	Colour
Date	Strike (	m) Casing (r		r Strikes Depth (m) Seale	d (m)	Rema	rks	Tyne Pi				Pipe Work		From (m)	To (m)	Backfill D		cription
Date	Ou inc (	iii) Casing (i	II) TIIIC (IIIIS)	Jopan (III) Joean	G (III)	Rema	iks	Турст	ipe ib i foiii i	) 10 (1	II) Dia(III	ii) i ipe Type	Remarks	0.00	2.20	905	Arisings	Сприоп
								Ston	ndard Pene	ration To	et Pocul	lte						
Depth (m)	Туре	N Value	Casing (n	n) Water (m)	SWPen(mm)	Blows1	Pen1(mm)						Pen4(mm)	Blows5 Pen	5(mm) Blo	ows6 Pen6(r	mm) Hamme	er E. Ratio%
		l					1			1			1					

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC05 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No:  $\mathsf{BAM}$ 

Date Started: 03/07/2024

Client: Engineer: Fairhurst Survey Grid System: OSGB

Co-ordinates: 230722.85 mE

> 824000.81 mN 348.74 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Stratum Description  Leg.   Depth (Thickness) (m)   Depth (m)   De	Water Wel Back
Firm light brown becoming dark brown fibrous PEAT (H2-H3, B2) with many fine roots.	Water Back
Firm light brown becoming dark brown fibrous PEAT (H2-H3, B2) with many fine roots.  0.00 - 0.50m: Very moist.	
SMc	
0.50 - 1.56m : Wet. $ \begin{vmatrix} s & s & s \\ c & s & s \\ s & s & s \\ s & s & s \\ s & s &$	
Plastic dark brown clayey pseudo-fibrous PEAT (H4, B3)	
SMC   ST     (0.51)	
1.56m : Refusal on hard base.  Terminated at 1.56m	) 
	ı

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



# **Exploratory Information Sheet**

Location ID: PC05 Sheet 1 of 1

RPC

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst
Date Started: 03/07/2024

Survey Grid System: OSGB

Ground Level:

Co-ordinates: 230722.85 mE

824000.81 mN 348.74 mOD Checked By: SR Approved By: AH

Log Status: PRELIM

Hole Type:

Print Date: 31/07/2024

Orientation: -- deg.

Date Cor	mpleted:	03/07/20	024					Inclination				90	deg.	Final D	epth:	1.56m
From (m) 0.00	To (m)	Type RPC	Start	End	Plant	Relat	ed Explora Barrel	atory Hole I Drill Bit	nforr	mation Rig (	Crew	L	ogger SR		Rem	arks
0.00	1.56	RPC	03/07/2024	03/07/2024	Russian Peat Corer								SR			
		Borin	na-Drilling Pro	arece				Hole Dia	mete	r by Depth			Ca	sing Dian	neter by Depth	
Date 03/07/2024 03/07/2024	Time 4 07:30 4 17:30	Depth (m) 0.00 1.56	Casing (m)	gress Depth Water (m	) Remarks Start of shift Hole complete	1	Depth (m)		1)		arks	Depth (m)	Dia. (m		Rema	arks
							From (m)	To (m)	Iv	/olume (litres)	Wate	er Added Re		Remarks		
							()	12 ()					•			
From (m)	To (m)	Dept	h Related Re	narks Remarks			From (m)	hiselling / F		Boring Deta	ils Tool	From (m)	To (m)	Drilling F	lush Details %) Flush	Colour
Date	Strike (m) Ca	Wat using (m) Time (mins	er Strikes Depth (m) Seal	ed (m) F	Remarks Type	Pipe	Monito	ring Installal	ation ia(mm)	Pipe Work Pipe Type	Remarks	From (m) 0.00	To (m) 1.56	Backfi Legenc 905	II Details  Details Arisings	scription
						Standa	ard Penetra	tion Test Re	esults	s						
Depth (m)	Type N.V.	value Casing (	m) vater (m)	pwren(mm) Blo	ows1 Pen1(mm) Blow	sz P	enz(mm) I	piows3 Per	13( <u>mi</u>	m) Blows4	ren4(mm) E	piows5 (Pen:	o(mm)) Blo	wso Pen	6(mm) Hamn	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC06 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client:  $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 230432.28 mE

824802.08 mN 275.21 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Date Completed: 04/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		1.00m	ı
		Depth			Sampli	ing, C	oring	and In S	Situ Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy dark brown fibrous PEAT (H3-H4, B1-2) with many fine roots.  0.00 - 1.00m : Wet.	alta a a alta	(0.30)										,,				
Firm brown to dark brown clayey pseudo-fibrous PEAT (H6-7, B3).	alta a	L 20	274.91													
(110-7, 133).	2 3162 2162 2 2 2162 2162 2	(0.50)														
Firm dark brown to black pseudo-fibrous PEAT (H9, B4).	5 316 316 3	0.80	274.41													
1.00m : Refusal on hard base.	2016 2 2 2016 2016 2	1.00	274.21													
Terminated at 1.00m		- - -														
		_ _ _														
		-  -  -														
		_														
		 - -														
		_ _ _														
		_ _ _														
		- - -														
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		-  -  -														
		<u>-</u>														
							L									Ц

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

#### **Exploratory Information Sheet**

Location ID: PC06 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 230432.28 mE

> 824802.08 mN 275.21 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Hole Type:

Log Status:

Print Date: 31/07/2024

RPC

PRELIM

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 1.00m 04/07/2024

Ground Level:

Date Con	ipicicu.	U <sup>2</sup>	4/07/20	24							IIICIIIIa					o deg.	i illai De	<i>ъ</i> рит.	1.00111
From (m) 0.00	To (m	1)	Type RPC	Start 04/07/20	24 (	End 04/07/2024	Plar Russian Peat			Explora Barrel	Drill E		rmation Rig (	Crew		Logger SK		Remark	<s< td=""></s<>
Date	Time	De	Borin pth (m)	g-Drilling Casing (	Progreem) De	ss epth Water (m	ı) Rema	rks	Dep	pth (m)	Hole Di		er by Depth Rem	arks	Depth (i			eter by Depth Remark	(S
04/07/2024 04/07/2024	07:30 17:30		0.00 1.00				Start of shift Hole complete	е											
									Fro	om (m)	To (m	1)	Volume (litres)	Wate	er Added R		Remarks		
			Depth	n Related						Cl	niselling /	/ Hard	d Boring Deta Duration (hh:mm)	ils			Drilling Flu	ısh Details	
From (m)	To (m)				Re	marks			Fro	om (m)	To (m	1)	Duration (hh:mm)	Tool	From (m	) To (m)	Returns (%	5) Flush	Colour
Date	Strike (m)	Casing (m)	Wate	er Strikes Depth (m)	Sealed (m	n) F	Remarks	Type P	ipe ID	Monitor From (m)	ing Insta To (m)	Ilation Dia(mr	Pipe Work  Pipe Type	Remarks	From (m	) To (m)	Backfill Legend	Desc	ription
															0.00	1.00	905	Arisings	
Depth (m)	Type 1	N Value	Casing (r	n) Water	(m) SW	/Pen(mm) Bl	ows1 Pen1(mn	Star	ndard Pen2	Penetrat	ion Test	Resul	lts nm) Blows4	Pen4(mm) I	Blows5 Pe	en5(mm) Bl	ows6 Pen6	(mm) Hammer	E. Ratio%
	,											,							

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Location ID: PC07 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 230581.86 mE

> 825186.98 mN 237.40 mOD

Approved By: 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

Engineer: Orientation: - - deg. Print Date: 31/07/2024 Date Completed: 04/07/2024 Inclination: 90 deg. Final Depth: 1.35m

Ground Level:

ate Completed: 04/07/2024				inclina	uon.				٤	ou aeg.	rınaı	Depti	1.		1.35r
		Depth			Sampli	ng, Co	oring	and In S	itu Test	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IE	Water	Well/ Backfil
Spongy dark brown fibrous PEAT (H4-5, B1-2) with many	316	-													
ine roots.  0.00 - 1.35m : Very moist.	20 20 16 20 16 21 20 16 21 20 20 20 20 20 20 20 20 20 20 20 20 20	(0.30)													
Firm dark brown clayey pseudo-fibrous PEAT (H6-8, B3).	316 3 316 3 316 3	0.30	237.10												
	2) (c. 2) (c. 2) (c. 2) (c. 2) (c. 2)														
	% sile sile s	-													
	2 21/2 21/2 2 2 21/2	(1.05)													
	20162 2 12 20162 2 20162 2														
	5 51/2 51/2 5														
1.35m : Refusal on stiff base. Terminated at 1.35m		1.35	236.05												
		-													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC07 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Client: BAMEngineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Ground Level:

Co-ordinates: 230581.86 mE

> 825186.98 mN 237.40 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Hole Type:

Log Status:

RPC

PRELIM

SR

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: 04/07/2024 Inclination: 90 deg Final Depth: 1.35m

Date Con	npleted	d:	04/07/20	24							nation:			90	deg.	Final De	pth:	1.35m
From (m)	То	(m)	Type	Start	End		D Plant	epth Re	lated Explo		ole Info	rmation Ria	Crew		oaaer		Remar	rks
0.00	1.	(m) 35	Type RPC	04/07/2024	04/07/2024	l Ru	ssian Peat C	orer							ogger SK			
			Boring	g-Drilling Pro	gress					Hole	Diamet	er by Depth			C	asing Diamet	ter by Depth	
Date 04/07/2024	Tir 07		Depth (m) 0.00	Casing (m)	Depth Water (	m) Sto	Remark	S	Depth (m		(mm)		marks	Depth (m			Remar	rks
04/07/2024		:30	1.35				le complete											
									From (m	) To	(m)	Volume (litres		er Added Re		Remarks		
									T TOTT (III	, 10	(111)	voidine (naes	,			romano		
-			Denth	Related Ren	narks					Chisellin	ig / Hard	Boring Det	ails			Drilling Flus	sh Details	
From (m)	To (m)		Doptii		Remarks				From (m			Duration (hh:mm		From (m)	To (m)	Returns (%)	Flush	Colour
			Wate	r Strikes				ı	Moni	toring Inc	tallation	Pipe Work				Backfill D	Nataile .	
Date	Strike (	m) Casing (r		Depth (m) Seale	ed (m)	Rema	rks	Type Pi				n) Pipe Type	Remarks	From (m)	To (m)	Legend	Des	cription
														0.00	1.35	905	Arisings	
								C4	dand Dan et	4: T-		14-						
Depth (m)	Туре	N Value	Casing (n	n) Water (m)	SWPen(mm)	3lows1	Pen1(mm)		dard Penet Pen2(mm)				Pen4(mm)	Blows5 Pen	5(mm) Blo	ows6 Pen6(r	mm) Hamme	er E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC08 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Engineer: Fairhurst Date Started:

Project No: RGN.331V Client: BAM

04/07/2024

Survey Grid System: OSGB Co-ordinates:

230675.58 mE

825195.78 mN 242.35 mOD

- - deg.

Approved By: Scale:

Hole Type:

Checked By:

1:25 Log Status: **PRELIM** 

RPC

SR

ΑН

Print Date: 31/07/2024

Date Completed: 04/07/2024				Inclina	tion:				(	90 deg.	Final	Dept	h:		3.15r
		Depth (Thick-	Lovel		Sampl	ing, C	oring	and In S	itu Tes	ting		TCR SCR	IFmin mm		\A/-II/
Stratum Description	Leg.	ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units		IFave mm IFmax mm or [FI]	Water	Well/ Backfil
Spongy dark brown fibrous PEAT (H2-4, B2-3) with many	اد اداد اداد اداد	Ė													
fine roots. 0.00 - 3.15m : Wet	عادد : عاد	F													
	316 ; 8 316	F													
	316 :	E													
	316 :	F													
	316 :	(1.25)													
	316 : 6 316	<u></u>													
	. 316. ; 8. 316	Ė													
	316 : 8 316	t													
	316 : 8 316	Ė													
Firm dark brown clayey pseudo-fibrous PEAT (H6-8, B4)	316 ;	1.25	241.10												
with frequent fine roots.	316 3 8 316	Ŧ													
	siles siles	F													
	316 : 8 316 316 :	ŧ													
	s 516	E.													
	5 SIG	(1.15)													
	اد اداد اد اداد	E													
	ياد عاد	ŧ													
	ياد ي د ماد	Ē													
Firm double beauty to double more into beauty along	s ale	2.40	239.95												
Firm dark brown to dark greyish brown clayey amorphous PEAT (H9, B4).	% sile sile :	Ė													
	s ale	Ţ													
	5 316 316 :	(0.75)													
	s ale	£													
	2 2016 2016 :														
0.45 - 5.6 - 1. 1771	s) (c)	7 3.15	239.20												
3.15m : Refusal on stiff base. / Terminated at 3.15m		F													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC08 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 04/07/2024

LT521 - Bingally 400kv Substation

Survey Grid System: OSGB

Co-ordinates: 230675.58 mE

> 825195.78 mN 242.35 mOD

Approved By:  $\mathsf{AH}$ PRELIM

RPC

SR

Hole Type:

Checked By:

Log Status:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 3.15m 04/07/2024

Ground Level:

Date Con	ipiotou.		04/07/20	124									nation					ou deg.		nai De	puii.	3.15m
From (m) 0.00	To (m	)	Type RPC	Star	t T	End		Plant	Depth Re	lated	l Explor Barrel	atory H Dri	ole Info II Bit	ormat 	ion Rig (	Crew	Τ	Logger		Т	Remarl	(S
0.00	3.15			04/07/20		04/07/2024	Rus	ssian Peat (	Corer			Holo	Diame	for h	<i>r</i> Depth			ŠK		a Diamei	tor by Donth	
Date 04/07/2024 04/07/2024	Time 07:30 17:30		Depth (m) 0.00 3.15	Casing	(m) D	epth Water (	Sta	Remarl rt of shift e complete	KS.	De	epth (m)		(mm)	ler by		arks	Depth	(m) D	ia. (mm)		ter by Depth Remark	KS.
																Wate	er Added	Records				
										Fr	om (m)	То	(m)	Volun	ne (litres)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 1000140		narks		
From (m)	To (m)	•	Depti	h Related		rks emarks				Fr	om (m)				ing Deta		From (r	n) To		lling Flus turns (%)	h Details Flush	Colour
			Wats	er Strikes							Monit	oring Ins	stallation	n Pin	e Work					Backfill [	Details	
Date	Strike (m)	Casing (r	m) Time (mins)			m)	Remar	ks	Type P	ipe ID					pe Type	Remarks	From (r 0.00	n) To	(m) L	egend 905		ription
									Star	ndard	I Penetr	ation Te	st Resu	ılts								
Depth (m)	Type N	N Value	Casing (t	m) Water	(m) \$V	VPen(mm) E	Blows1	Pen1(mm)	Blows2	Pen	(2(mm))	Blows3	Pen3(t	mm)	Blows4	Pen4(mm)	Blows5 F	en5(mm	) Blows	6 Pen6(r	mm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC09 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 03/07/2024

Survey Grid System: OSGB

Co-ordinates: 230906.09 mE

825480.04 mN 255.97 mOD

Approved By:

Hole Type:

Checked By:

Scale: 1:25

Log Status: PRELIM

Orientation: -- deg. Print Date: 31/07/2024

Date Completed: 03/07/2024				Inclina	tion:				ç	90 deg.	Final	Dept	n:		0.65
		Depth			Sampli	ing, C	oring	and In S	itu Tes	ting		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %		Water	Well/ Backfil
Spongy brown fibrous PEAT (H3-4, B2) with many fine	ال الله	<u> </u>													XXX
roots. 0.00 - 0.65m : Moist.	s ale ale s	_ _(0.35)													
	s ale ale a	E í													
Dark brown slightly clayey pseudo-fibrous PEAT (H6,	s alta alta a	0.35	255.62												
B3).	s ale ale s	(0.30)													
	6 ale ale a														
0.65m : Refusal on hard base. /	8008 8	0.65	255.32												
Terminated at 0.65m		F													
		F													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Office: BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC09 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 230906.09 mE

> 825480.04 mN 255.97 mOD

Checked By: Approved By:

Hole Type:

Log Status: PRELIM Print Date: 31/07/2024

Orientation: - - deg.

Depth   Parallel   Evolution	ate Completed:	03/07/2024			Inclination		90 deg. Fir	nal Depth: 0.65m
One (m) To (m) T	ate completed.	03/07/2024	Depth Re				Jo dog. Til	0.00m
Date   Time	From (m) To (m) 0.00 0.65	Type Start RPC 03/07/2024	End Plant				Logger SR	Remarks
Date   Time								
Date   Time		Poring Drilling Dra			Hala Diama	tor by Donth	Cooling	Niemeter by Depth
Depth Related Remarks  Chiselling / Hard Boring Details  Diffling Flush Details  From (m) To (m) Duration (thinmin) Tool From (m) To (m) Returns (%) Flush Colour  Water Strikes  Monitoring Installation Pipe Work  Backfill Details  Water Strikes  And Casing (m) Time (mins)Depth (m) Sealed (m) Remarks  Type Pipe ID From (m) To (m) Duisimin Pipe Type Remarks  Type Pipe ID From (m) To (m) Duisimin Pipe Type Remarks  Standard Penetration Test Results  Pth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio	3/07/2024 07:30	Depth (m) Casing (m) 0.00	Depth Water (m) Remarks Start of shift	Depth (m)				
Depth Related Remarks  Chiselling / Hard Boring Details  Diffling Flush Details  From (m) To (m) Duration (thinmin) Tool From (m) To (m) Returns (%) Flush Colour  Water Strikes  Monitoring Installation Pipe Work  Backfill Details  Water Strikes  And Casing (m) Time (mins)Depth (m) Sealed (m) Remarks  Type Pipe ID From (m) To (m) Duisimin Pipe Type Remarks  Type Pipe ID From (m) To (m) Duisimin Pipe Type Remarks  Standard Penetration Test Results  Pth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio								
Monitoring Installation Pipe Work   Backfill Details   Strike (m) Casing (m)   To (m)   Sealed (m)   Remarks   From (m)   To (m)   Duration (thiumm)   To (m)   To (m)   To (m)   To (m)   Returns (%)   Flush   Colour				From (m)	To (m)			arks
Monitoring Installation Pipe Work   Backfill Details   Strike (m) Casing (m)   To (m)   Sealed (m)   Remarks   From (m)   To (m)   Duration (thiumm)   To (m)   To (m)   To (m)   To (m)   Returns (%)   Flush   Colour								
Water Strikes  Monitoring Installation Pipe Work  Backfill Details  Backfill Details  Backfill Details  Backfill Details  Backfill Details  Date   Strike (m)   Casing (m)   Time (mine)  Depth (m)   Sealed (m)   Remarks   Type   Pipe   D From (m)   To (m)   Dia(mm)   Pipe Type   Remarks   From (m)   To (m)   Legend   Description  0.00   0.65   905   Arisings  Standard Penetration Test Results  Poth (m)   Type   N Value   Casing (m)   Water (m)   SWPen(mm)   Blows1   Pen1(mm)   Blows2   Pen2(mm)   Blows3   Pen3(mm)   Blows4   Pen4(mm)   Blows5   Pen5(mm)   Blows6   Pen6(mm)   Hammer   E. Ratio	rom (m)   To (m)							
Date   Strike (m)   Casing (m)   Time (mins)   Depth (m)   Sealed (m)   Remarks   Type   Pipe ID   From (m)   To (m)   Dia(mm)   Pipe Type   Remarks   From (m)   To (m)   Legend   Description	()			()		, , ,		
Date   Strike (m)   Casing (m)   Time (mins)   Depth (m)   Sealed (m)   Remarks   Type   Pipe ID   From (m)   To (m)   Dia(mm)   Pipe Type   Remarks   From (m)   To (m)   Legend   Description								
Date   Strike (m)   Casing (m)   Time (mins)   Depth (m)   Sealed (m)   Remarks   Type   Pipe ID   From (m)   To (m)   Dia(mm)   Pipe Type   Remarks   From (m)   To (m)   Legend   Description		Water Strikes	1	Monitor	ring Installatio	n Pine Work		Backfill Details
pth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio	Date Strike (m) Ca		led (m) Remarks Type P				From (m) To (m) Le	egend Description
pth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio								
pth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio								
pth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio			Star	ndard Penetrat	tion Test Pass	ulto		
	epth (m) Type N \	/alue Casing (m) Water (m)					Blows5 Pen5(mm) Blows6	Pen6(mm) Hammer E. Ratio

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC10 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

 $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 03/07/2024 Survey Grid System: OSGB Co-ordinates:

231143.43 mE

825716.26 mN 275.05 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Date Completed:	03/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		0.70m	1
			Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR				П
	Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy light brown with many fine roo	n to brown fibrous PEAT (H2-H3, B2) ts. 0.00 - 0.70m : Moist. 0.70m : Refusal on hard base.	alta alta alta alta alta alta alta alta	(0.70)	274.35													
	Terminated at 0.70m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC10 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Client:

Date Started: 03/07/2024 Date Completed: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231143.43 mE

> 825716.26 mN 275.05 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

PRELIM Print Date: 31/07/2024

RPC

Orientation: - - deg.

Inclination: 90 deg. Final Depth: 0.70m

Company   Type   Sept	Date Com	.p.o.co	03/0	1772024	т						HIGHI					ucg.	i iliai De		0.70111
Depth (m)   Casing (m)   Depth Water (m)   Remarks   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)   Dia (mm)   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)	From (m) 0.00	To (m)	Typ	e 0:	Start 3/07/2024	End 03/07/20	24 Russi	Plant		ated Explo Barrel	Drill	ole Info	rmation Rig (	Crew	Lo	ogger SR		Remark	(S
Depth (m)   Casing (m)   Depth Water (m)   Remarks   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)   Dia (mm)   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)																			
Depth (m)   Casing (m)   Depth Water (m)   Remarks   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)   Dia (mm)   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)																			
Depth (m)   Casing (m)   Depth Water (m)   Remarks   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)   Dia (mm)   Depth (m)   Dia (mm)   Dia (mm)   Depth (m)																			
Oxfort/2024   17:30   0.00   Oxfort/2024   17:30   0.70   Oxfort/2024   17:30   0.70   Oxfort/2024   17:30   Oxfort/2024   17:30   Oxfort/2024   17:30   Oxfort/2024   O				Boring-D	Drilling Pr	ogress				5 " (	Hole	Diamet	er by Depth						
From (m) To (m) Volume (litres) Remarks    Depth Related Remarks   Chiselling / Hard Boring Details   Drilling Flush Details	03/07/2024	07:30	0.00 0.70	(m) C 0 0	asing (m)	Depth wate	Start o	of shift	5	Depth (m	) Dia. (	mm)	Kem	iarks	Depth (m)	Dia. (m	im)	Kemark	s
From (m) To (m) Volume (litres) Remarks    Depth Related Remarks   Chiselling / Hard Boring Details   Drilling Flush Details																			
Depth Related Remarks  From (m) To (m) Duration (thhrmin) Tool From (m) To (m) Returns (%) Flush Colour  Water Strikes  Monitoring Installation Pipe Work  Date Strike (m) Casing (m) Time (mins) Depth (m) Sealed (m) Remarks  Type Pipe ID From (m) To (m) Diadrom (Pripe Type Remarks From (m) To (m) Legend Description  O.00 0.70 905 Arisings														Wate	er Added Red				
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Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1   Pen1(mm) Blows2   Pen2(mm) Blows3   Pen3(mm) Blows4   Pen4(mm) Blows5   Pen5(mm) Blows6   Pen6(mm)   Hammer   E. Ratio%	Date	Strike (m)	Casing (m) Time	Water 8 (mins) De	pth (m) Sea	led (m)	Remarks	S	Type Pi	pe ID From (	m) To (m	) Dia(mi	m) Pipe Work	Remarks	From (m) 0.00	To (m) 0.70	Legend	Desc	ription
Slandard Penetration Test Results  Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm), Blows2 Pen2(mm), Blows3 Pen3(mm), Blows4 Pen4(mm), Blows5 Pen5(mm), Blows6 Pen6(mm), Hammer E. Ratio%.																			
Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio%																			
Standard Penetration Test Results  Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio%																			
	Depth (m)	Type N	Value Cas	sing (m)	Water (m	) SWPen(mm	Blows1 P	Pen1(mm)	Stan Blows2	dard Pene	ration Tes	t Resu Pen3(r	lts nm) Blows4	Pen4(mm) I	Blows5 Pens	5(mm) Blo	ws6 Pen6(r	nm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Survey Grid System:

Location ID: PC11 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

1:25

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

 $\mathsf{BAM}$ 

Engineer: Fairhurst

Date Started: 03/07/2024

Co-ordinates: 231254.28 mE RGN.331V

825876.63 mN Ground Level:

266.93 mOD

Hole Type:

Checked By:

Approved By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

OSGB

ate Completed: 03/07/2024				Inclina	tion:				g	90 deg.	Final	Deptl	h:		2.40r
		Depth			Sampli	ing, Co	oring	and In S	itu Test	ting		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %		Water	Well/ Backfil
Spongy brownn fibrous PEAT (H2-H4, B2-3) with many ine roots.  0.00 - 0.60m : Moist.	alta :  a alta :  alta :  alta :  alta :  alta :	(0.60)													
Firm dark brown clayey pseudo-fibrous PEAT (H6-7, B3). 0.60 - 2.40m : Wet.	shir s	(0.80)	266.33												
Firm dark greyish brown clayey amorphous PEAT (H8-9, B4).	shir shir shir shir shir shir shir shir	1.40	265.53												
Grey to greyish brown CLAY.  2.40m : Refusal on stiff base.		-2.00 -(0.40) 2.40	264.93 264.53												
Terminated at 2.40m															

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC11 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst
Date Started: 03/07/2024

Survey Grid System: OSGB

Co-ordinates: 231254.28 mE

825876.63 mN 266.93 mOD Approved By: AH

**RPC** 

PRELIM

SR

Log Status:

Hole Type:

Checked By:

Print Date: 31/07/2024

Orientation: -- deg.

Date Completed: Inclination: 90 deg. Final Depth: 2.40m 03/07/2024 Depth Related Exploratory Hole Information Rig Crew From (m) 0.00 End 03/07/2024 Barrel Remarks Logger Boring-Drilling Progress

Depth (m) Casing (m) Depth Water (m)
0.00
2.40 Hole Diameter by Depth Casing Diameter by Depth Date 03/07/2024 03/07/2024 Time 07:30 17:30 Remarks Start of shift Hole complete Depth (m) Dia. (mm) Depth (m) Dia. (mm) Water Added Records From (m) To (m) Volume (litres) Chiselling / Hard Boring Details
) To (m) Duration (hh:mm) Drilling Flush Details Depth Related Remarks From (m) To (m) From (m) From (m) To (m) Returns (%) Colour Water Strikes Backfill Details Strike (m) Casing (m) Time (mins) Depth (m) Sealed (m) Remarks Description Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC12 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231376.46 mE

> 825790.31 mN 294.32 mOD

Approved By: ΑН Scale: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

te Completed: 03/07/2024				Inclina						90 deg.	Final				0.12n
·	$\top$	Depth				ng, Co	oring	and In S							
Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	ting Test Resul	t Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill
OPSOIL: Brown fine to medium grained SAND.  0.12m : Refusal on hard base.  Terminated at 0.12m		0.12	294.20												
		<u>-</u> -													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Date Completed:

Client:

#### **Exploratory Information Sheet**

Location ID: PC12 Sheet 1 of 1

RPC

PRELIM

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst
Date Started: 03/07/2024

Survey Grid System: OSGB

Co-ordinates: 231376.46 mE

825790.31 mN 294.32 mOD Checked By: SR Approved By: AH

Log Status:

Hole Type:

Print Date: 31/07/2024

Orientation: - - deg.

03/07/2024 Inclination: 90 deg. Final Depth: 0.12m

Ground Level:

Date Con	npietea:		03/07/20	124									ation:					ou aeg.	1 11	nai Dep	Jui.	0.12m
From (m) 0.00	To (m	1)	Type RPC	Start		End		Plant	epth Re	lated B	Exploration Barrel	atory Ho	ole Info I Bit	rmatio	n Rig (	Crew		Logger SK		Т	Remark	is .
0.00	0.12			03/07/20	0 0	03/07/2024	Russiar	n Peat Co	orer			Hole	Diamet	er by C				ŜŘ		Diamet	er by Depth	
Date 03/07/2024 03/07/2024	Time 07:30 17:30	0	Depth (m) 0.00 0.12	Casing (	m) De	pth Water (m	Start of Hole co	Remarks shift emplete	S	De	pth (m)		(mm)	er by L	Rem	arks	Depth	(m) Dia	a. (mm)	Diamet	Remark	s
										- Fre	-m (m)	To	/m) I	\ /= l	//:t\	Wate	er Added	Records	Dom	orko		
										FIG	om (m)			Volume					Rem			
From (m)	To (m)	1	Depth	Related		ks marks				Fro	om (m)	Chisellin To		Boring Duration		ils Tool	From (r	n) To (r		ling Flus urns (%)	h Details Flush	Colour
			Wate	er Strikes							Monito	pring Ins	tallatior	n Pipe	Work				F	Backfill D	Details	
Date	Strike (m)	Casing (	m) Time (mins)			) F	Remarks		Type Pi	pe ID						Remarks	From (r 0.00	n) To (r	m) Le	egend		ription
									Stan	ndard	Penetra	ation Tes	st Resu	lts								
Depth (m)	Туре	N Value	Casing (r	n) Water	(m) SWI	Pen(mm) Bi	ows1 Per	n1(mm)	Blows2	Pení	2(mm)	Blows3	Pen3(r	mm) B	lows4	Pen4(mm) E	Blows5 P	en5(mm)	Blows6	Pen6(n	nm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC13 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client:  $\mathsf{BAM}$ Engineer: Fairhurst

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231582.47 mE

> 826015.64 mN 291.47 mOD

Approved By: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: 03/07/2024				Inclina	tion:				ç	90 deg.	Final	Deptl	n:		1.30r
		Depth			Sampli	ing, Co	oring	and In S	itu Tes	ting		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfil
TOPSOIL: Brown fine to medium SAND.		₹													
Firm dark brown clayey fibrous PEAT (H1-2, B1-2).	316. 3	0.10	291.37												
	a sila sila s	(0.30)													
	6 siles siles s	0.40	291.07												
Spongy dark brown clayey pseudo-fibrous PEAT (H6-7, B3).	s) (c. s)	-													
,	د ماند ماند د	E													
	ي ماند ماند ه	E													
	s alta	(0.80)													
	alla s	ļ.													
	salta s	E													
	salta s	1.20	290.27												
Spongy to plastic black clayey pseudo-fibrous to amorphous PEAT (H8-9, B4).	2 3/62	1	290.17												
1.30m : Refusal on hard base. Terminated at 1.30m	1	Ē													
Terminated at 1.50m		E													
		F													
		F													
		E													
		E													
		Ė													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

#### **Exploratory Information Sheet**

Location ID: PC13 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231582.47 mE

> 826015.64 mN 291.47 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

RPC

PRELIM

SR

Hole Type:

Log Status:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 1.30m 03/07/2024

Ground Level:

							elated Explora	tory Hole Info							
From (m)	To (m)	Type RPC	Start	End	P	lant	Barrel	Drill Bit	Rig	Crew	Lo	ogger SK		Remark	S
0.00	1.30	RPC	03/07/2024	03/07/2024	Russian P	eat Corer						SK			
			<u> </u>					l					<u> </u>		
Dete	Time		ng-Drilling Pro		-\  D	marks	Danth (m)		ter by Depth		D = = 41= /== \		g Diamete	er by Depth	
Date 03/07/2024	Time 07:30	Depth (m) 0.00	Casing (m)	Depth Water (r	Start of shi		Depth (m)	Dia. (mm)	Ren	narks	Depth (m)	Dia. (mm)	_	Remark	S
03/07/2024	17:30	1.30			Hole comp										
									1	Wate	er Added Red	cords	-		
							From (m)	To (m)	Volume (litres)			Rem	arks		
-		Den	 th Related Re	marks			-	│ hiselling / Har	d Boring Deta	ails	1	Dril	ling Flush	Details	
From (m)	To (m)	Бер		Remarks			From (m)		Duration (hh:mm		From (m)		urns (%)	Flush	Colour
	\/							(/	-,,			,,	(/0/		22.34.
		Wat	ter Strikes				Monito	ring Installation	n Pipe Work	1			Backfill De	etails	
Date	Strike (m) C	asing (m) Time (mins		ed (m)	Remarks	Type P	ipe ID From (m	To (m) Dia(n	nm) Pipe Type	Remarks	From (m)	To (m) L	egend	Descr	iption
											0.00	1.30	905	Arisings	
						Star	ndard Penetra	tion Test Resi	ults	1					
Depth (m)	Type N	Value Casing	m) Water (m)	SWPen(mm) B	lows1 Pen1(					Pen4(mm)	Blows5 Pens	5(mm) Blows6	Pen6(m	m) Hammer	E. Ratio%
	· ·	1 3	()	1		1	1 1	1					1	1	
1															
1		1	1	1 1					1						1 1
							1		l l	1	1	1			

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Location ID: PC14 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst
Date Started: 03/07/2024

Survey Grid System: OSGB
Co-ordinates: 231819.07 mE

Ground Level:

826413.99 mN 292.53 mOD Checked By:

Hole Type:

Approved By: AH Scale: 1:25

Log Status:

PRELIM

RPC

SR

Orientation: -- deg. P

Print Date: 31/07/2024

Stratum Description  Descriptio	Pate Completed: 03/07/2024				Inclina	tion:				g	90 deg.	Final	Deptl	n:		0.20
Comparison   Com			Depth			Sampli	ng, Co	oring	and In S	itu Test	ting		TCR			
TOPSOIL: Brown clayey fine to medium SAND. Firm to spongy black fibrous be pseudo-fibrous PEAT (rH-H5, B2-B3).  0.20m. *Refusal on hard base.**  Terminated at 0.20m.  1	Stratum Description	Leg.	ness)		Depth (m)	Туре	Dia (mm)	Rec %		Test	Test Result	Units	RQD	IFmax mm	Water	Well/ Backfi
Firm to sportly back introduce of peace introduce (H4415, B2-B3).  1. 20m : Refusal on hard base.  Terminated at 0.20m  1. 2020 : Refusal on hard base.	TOPSOIL: Brown clayey fine to medium SAND	D	₹													
Terminated at 0.20m		PEAT	<b>H</b>													
Terminated at 0.20m	0.20m : Refusal on	hard base.	E <sup>0.20</sup>	292.33												
	Terminated at 0.20m															
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Office: BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks

BAM R Exploratory Log 2024-07-26



Client:

#### **Exploratory Information Sheet**

Location ID: PC14 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231819.07 mE

> 826413.99 mN 292.53 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

Print Date: 31/07/2024

RPC

PRELIM

SR

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.20m 03/07/2024

Ground Level:

							lated Explora	tory Hole Info							
From (m)	To (m)	Type RPC	Start	End	Possesiana F	Plant	Barrel	Drill Bit	Rig	Crew	Lo	ogger SK		Remark	s
0.00	0.20	RPC	03/07/2024	03/07/2024	Russian F	eat Corer						SK			
			<u> </u>					L	<u> </u>				<u> </u>		
Dete	Ti		ng-Drilling Pro		-\l D-	marks	Danth (m)		ter by Depth		D = = 41= /== \		Diamete	r by Depth	_
Date 03/07/2024	Time 07:30	Depth (m) 0.00	Casing (m)	Depth Water (r	Start of sh		Depth (m)	Dia. (mm)	Ren	narks	Depth (m)	Dia. (mm)		Remark	S
03/07/2024	17:30	0.20			Hole com										
								1	1	Wate	er Added Red	cords	-		
					1		From (m)	To (m)	Volume (litres)			Rem	arks		
					1										
					1										
					1										
					1										
-		Den	l th Related Re	marks				l hiselling / Har	 rd Boring Deta	ails	1	Dril	ling Flush	Details	
From (m)	To (m)	ьер		Remarks			From (m)		Duration (hh:mm		From (m)		urns (%)	Flush	Colour
	\/							(,	- (			,,	(/0)		22.54
		Wa	ter Strikes				Monito	ı ring Installatio	n Pipe Work	ı			Backfill De	etails	
Date	Strike (m)	asing (m) Time (mins		ed (m)	Remarks	Type P	ipe ID From (m)	To (m) Dia(n	nm) Pipe Type	Remarks	From (m)	To (m) L	egend	Descr	iption
											0.00	0.20	905	Arisings	
						Star	ndard Penetra	tion Test Resi	ults	1					
Depth (m)	Type N	Value Casing	(m) Water (m)	SWPen(mm) B	lows1 Pen1					Pen4(mm)	Blows5 Pens	5(mm) Blows6	Pen6(m	m) Hammer	E. Ratio%
	7.	1 3	. ()	T 1		1		1		' /			1		
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		1	1	1		- 1	1		1				1		
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Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC15 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAMFairhurst

Engineer: Date Started: 03/07/2024 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 231967.30 mE

> 826768.63 mN 285.70 mOD

Approved By: ΑH 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Final Denth 1 00m

Date Completed: 03/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		1.00m	ı
		Depth			Sampli	ing, C	oring	and In S	itu Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)		Blows/ [mins]	Test	Test Result	Units	SCR	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy black to dark brown clayey amorphous PEAT (H5, B3)	316 3 6 316 316 3	E														
Firm dark brown clayey fibrous PEAT (H2-H3, B2).	salta s	0.18	285.52													
Spongy to firm dark brown clayey pseudo-fibrous PEAT (H5, B3).	s)(c, s)	Ε.	285.39													
(18, 28)	2 2) (2 2) (2 2 2) (2 2 2) (2 2	_														
	316 3 8 316	[(0.59)														
	316 3 6 316 316 3	Ė														
Spongy to firm black amporphous PEAT (H6-H7, B3)	sales s	. —	284.80 284.70													
1.00m : Refusal on hard base. Terminated at 1.00m		1.00	284.70													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC15 Sheet 1 of 1

Hole Type:

Checked By:

Approved By:

Log Status:

Print Date:

RPC

SR

 $\mathsf{AH}$ 

PRELIM

31/07/2024

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Engineer: Fairhurst

Date Started: 03/07/2024

Client: BAM

Ground Level:

Survey Grid System:

Co-ordinates:

Orientation: - - deg.

OSGB

231967.30 mE

826768.63 mN

285.70 mOD

ate Completed	d:	03/07/20	24					Inclination			90 0	deg. Fir	nal Depth:	1.	.00m
From (m) To (	(m)	Type RPC	Start	End	De Plant	pth Re	lated Explora Barrel	tory Hole Inf Drill Bit	ormation Rig	Crew	Lo	gger SK		Remarks	_
0.00 1.0	000	RPC	03/07/2024	03/07/2024	Russian Peat Co	orer						ŜK			
Date Tin 3/07/2024 07:	ne :30	Boring Depth (m) 0.00	g-Drilling Pro Casing (m)	gress Depth Water (m	) Remarks Start of shift	i	Depth (m)	Hole Diame Dia. (mm)	eter by Depth Rer	marks	Depth (m)		Diameter by D	epth Remarks	_
3/07/2024 17:	:30	1.00			Hole complete										
							From (m)	To (m)	Volume (litres		er Added Rec	ords Rem	arks		
							T TOTAL (III)	io (iii)	Volume (macs			rtoni	апо		
		Depth	ı Related Rer	marks			C	hiselling / Ha	rd Boring Deta	ails		Drill	ing Flush Detail	s	
rom (m) To (m)				Remarks			From (m)	To (m)	Duration (hh:mm	Tool	From (m)	To (m) Retu	ırns (%) Flu	ish Col	lour
Date Strike (r	m) Casing (	Wate (m) Time (mins)	er Strikes Depth (m) Seald	ed (m) F	Remarks	Type Pi	Monito ipe ID From (m)	ring Installatio	on Pipe Work	Remarks	From (m) 0.00	To (m) Le	Backfill Details ggend 9905 Arisings	Description 3	
						Stor	adard Danatra	tion Toot Boo	ulto						
epth (m) Type	N Valu	e Casing (n	n) Water (m)	SWPen(mm) Blo	ows1 Pen1(mm) I		Pen2(mm)			Pen4(mm) I	Blows5 Pen5	(mm) Blows6	Pen6(mm) H	lammer E. F	Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC16 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAMFairhurst

Engineer: Date Started: 03/07/2024 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 232103.00 mE

> 827001.84 mN 289.95 mOD

Approved By:

Hole Type:

Checked By:

1:25

RPC

SR

ΑН

Log Status:

**PRELIM** Print Date: 31/07/2024

Orientation: - - deg. Inclination: 00 dog Final Denth 0.50m

Date Completed: 03/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		0.50m	ı
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)		Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
TOPSOIL: Brown clayey fine to medium SAND. Spongy dark brown clayey pseudo-fibrous PEAT (H3-H4, B2). Firm dark brown to black pseudo-fibrous PEAT (H5, B2-B3).	silk s	0.03	289.92 289.83													
Terminated at 0.50m	s site	0.50	289.45												<i>U/X</i> //	11
Terminated at 0.30III																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks

BAM R Exploratory Log 2024-07-26



#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC16 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

Project No: RGN.331V

Engineer: Fairhurst

Date Started: 03/07/2024

Client: BAM

nurst
7/2024 Orientation:

Survey Grid System: OSGB

Co-ordinates: 232103.00 mE

827001.84 mN 289.95 mOD Checked By: SR Approved By: AH

Hole Type:

Log Status:

Print Date: 31/07/2024

RPC

PRELIM

Orientation: -- deg.
Inclination: 90 deg. Final Depth: 0.50m

Date Com			3/07/20						Inclination			deg.	Final Day	ath.	0.50m
Date Com	pietea:	0	3/07/20	24			\amth Da	lated Evale	Inclination			90 deg.	Final Dep	ətn: ————	0.50m
From (m) 0.00	To (r	n)	Type RPC	Start	End	Plant		Barrel	atory Hole Inf		Crew	Logger SR		Remarks	
0.00	0.50	0	RPC	03/07/2024	03/07/2024	Russian Peat C	Corer					SR			
Date	Tim	e De		g-Drilling Pro	gress Depth Water (	m) Remark	re	Depth (m)		eter by Depth	narks		Casing Diamet (mm)	ter by Depth Remarks	
03/07/2024 03/07/2024	07:3 17:3	10	0.00 0.50	ouomig (m)	(	Start of shift Hole complete		Dopar ()	Dia: (IIIII)	11011	idi ito	Bopan (iii) Biai	()	- Tromanto	
03/07/2024	17.3	,,	0.50			Hole complete									
											Wate	er Added Records			
								From (m)	To (m)	Volume (litres)			Remarks		
					<u> </u>										
From (m)	To (m)		Depth	Related Re	marks Remarks			From (m)		rd Boring Deta		From (m) To (m	Drilling Flus Returns (%)		Colour
	, ,														
			Mate	er Strikes				Monit	oring Installation	an Dina Work			Backfill D	Ontaile .	
Date	Strike (m	) Casing (m)		Depth (m) Seal	ed (m)	Remarks	Type Pi			mm) Pipe Type	Remarks	From (m) To (m	) Legend	Descrip	otion
												0.00 0.50	905	Arisings	
							Star	ndard Penetr	ation Test Res	ults					
Depth (m)	Туре	N Value	Casing (r	n) Water (m)	SWPen(mm) E	Blows1 Pen1(mm)					Pen4(mm) I	Blows5 Pen5(mm) B	Blows6 Pen6(r	mm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC17 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Engineer: Fairhurst

Project No: Client: BAM

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 232043.60 mE

> 827053.99 mN 277.28 mOD

Approved By: Scale:

1:25

Log Status: **PRELIM** 

- - deg. Print Date: 31/07/2024

Hole Type:

Checked By:

Pate Completed: 03/07/2024				Inclina	tion:					90 deg.	Final	Dept	h:		1.30
		Depth	Lovel		Sampl	ing, C	oring	and In S	itu Tes	ting		TCR			14/-11/
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %		Water	Well/ Backfi
Spongy dark brown clayey fibrous PEAT (H1-H2, B1-B2).	ي مالاي	0.10	277.18												
Spongy dark brown clayey pseudo-fibrous PEAT (H5, B3).	316 3 8 316	± 0.10	277.10												
20).	316 3	ŧ													
	3162	<u> </u>													
	2 2) (2 2) (4)	(0.70)													
	s) (c. s)	E													
	6 siles siles s	Ł													
Firm dark brown to black pseudo-fibrous PEAT (H6-H7,	salta s	0.80	276.48												
B3).	s site :	(0.30)													
	e sile	1.10	276.18												
Plastic black amorphous PEAT (H9-H10, B4-B5).	sile :	E '. 10	270.10												
4 00m - Defined on head have	2 3/6	1.30	275.98												
1.30m : Refusal on hard base. Terminated at 1.30m	1	_													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Date Completed:

#### **Exploratory Information Sheet**

Location ID: PC17 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No: Client:

Engineer: Fairhurst Date Started: 03/07/2024

03/07/2024

Ground Level: 277.28 mOD

Survey Grid System:

Co-ordinates:

Orientation:

827053.99 mN

OSGB

232043.60 mE

Approved By:  $\mathsf{AH}$ Log Status: PRELIM

RPC

SR

Print Date: 31/07/2024

- - deg.

Hole Type:

Checked By:

Inclination: 90 deg. Final Depth: 1.30m Depth Related Exploratory Hole Information
Plant Barrel Drill Bit

From (m)   To (m)   Type   Start   End   Plant   Barrel   Drill Bit   Rig Crew   Logger   Remark	ks
Boring-Drilling Progress Hole Diameter by Depth Casing Diameter by Depth  Date Time Depth (m) Casing (m) Depth Water (m) Remarks Depth (m) Dia. (mm) Remarks Depth (m) Dia	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Image: Company of the co	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Image: Company of the co	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
Date         Time         Depth (m)         Casing (m)         Depth Water (m)         Remarks         Depth (m)         Dia. (mm)         Remarks         Depth (m)         Dia. (mm)         Remarks           03/07/2024         07:30         0.00         Start of shift         Start of shift         Depth (m)         Dia. (mm)         Remarks	
03/07/2024 07:30 0.00 Start of shift	
	KS
Water Added Records	
From (m) To (m) Volume (litres) Remarks	
Depth Related Remarks Chiselling / Hard Boring Details Drilling Flush Details	
From (m)         To (m)         To (m)         Duration (hh.mm)         To (m)         From (m)         To (m)         Returns (%)         Flush	Colour
Water Strikes Monitoring Installation Pipe Work Backfill Details	
	cription
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	приот
Standard Penetration Test Results	- L F D-#-00
Standard Penetration Test Results  Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hamme	er E. Ratio%
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Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC18 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 232257.35 mE

> 827425.06 mN 285.87 mOD

Approved By: 1:25

Scale:

Hole Type:

Checked By:

**PRELIM** 

RPC

SR

ΑН

Log Status:

Orientation: - - deg. Print Date: 31/07/2024

e Completed: 03/07/2024				Inclinat	tion:				9	90 deg.	Final	Deptl	n:		0.18
		Depth	Lavial		Sampli	ing, Co	oring	and In S	itu Tes	ting		TCR SCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfi
m dark brown fibrous PEAT (H2, B2).	3/16 3/16 3/16 3/16 3/16 3/16 3/16	0.02	285.85 285.69												
0.18m : Refusal on hard base. / Terminated at 0.18m		_													
		- - -													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks

BAM R Exploratory Log 2024-07-26



Date Completed:

#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC18 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

03/07/2024

Client: BAM

Engineer: Fairhurst Date Started: 03/07/2024 Survey Grid System: OSGB

Co-ordinates: 232257.35 mE

> 827425.06 mN 285.87 mOD

Approved By:  $\mathsf{AH}$ PRELIM

RPC

0.18m

SR

Log Status:

Hole Type:

Checked By:

Print Date: 31/07/2024

Orientation: - - deg. Inclination: 90 deg. Final Depth:

Date Completed:	03/07/2024			nclination:		90 deg. Fir	nal Depth: 0.18m
From (m) To (m)	Type Start End	Depth Related Plant B		ry Hole Info	rmation Rig Crew	Logger	Remarks
0.00 0.18	RPC 03/07/2024 03/07/2024	Russian Peat Corer				SK	
Date Time	Boring-Drilling Progress  Depth (m)   Casing (m)   Depth Water (m)	Remarks Deg		Hole Diamet Dia. (mm)	er by Depth Remarks	Casing Depth (m) Dia. (mm)	Diameter by Depth  Remarks
03/07/2024 07:30 03/07/2024 17:30	0.00 0.18	Start of shift Hole complete	(III) I	Dia. (IIIIII)			Ivellidiks
		Fro	om (m)	To (m)	Volume (litres) Wate	r Added Records Rem	narke
		FIG	OIII (III)	10 (111)	volume (litres)	Reili	airs
From (m) To (m)	Depth Related Remarks Remarks	Ero	Chis		Boring Details  Duration (hh:mm) Tool		ling Flush Details urns (%) Flush Colour
	Water Strikes	110		g Installation			Backfill Details
Date Strike (m) Ca		emarks Type Pipe ID	From (m) T	To (m) Dia(mr	m) Pipe Type Remarks		egend Description
		Standard	Panatratio	n Test Resul		0.00 0.18	905 Arisings
Depth (m) Type N \	/alue Casing (m) Water (m) SWPen(mm) Blo					lows5 Pen5(mm) Blows6	Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: **PC19** Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM Fairhurst

Engineer: Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 232224.12 mE

827845.21 mN

Approved By: ΑН Scale:

248.77 mOD

1:25

Log Status: **PRELIM** 

- - deg. Print Date: 31/07/2024

Hole Type:

Checked By:

Date Completed: 04/07/2024    Completed: 04/07/2024     Completed: 04/	mm Water Back
Stratum Description  Leg. (Thick-ness) (m) Depth (m) Type (mm) Rec	mm Water Back
Spongy dark brown clayey fibrous PEAT (H2, B2).  Spongy dark brown clayey pseudo-fibrous PEAT (H5-H6, B2-B3).  Similar Depth (m) Type (m) % Blows/ (mins) Test Result Units RQD IFmax or [Male Land Land Land Land Land Land Land Land	mm   Water   Back
Spongy dark brown clayey fibrous PEAT (H2, B2).    Solid   Sol	
Firm dark brown clayey pseudo-fibrous PEAT (H5-H6,	
### dark brown clayey pseudo-fibrous PEAT (H5-H6,	
SMa   S   SMa   SMa   S   SMa   S   SMa	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	
1.20m : Refusal on hard base.	

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: **PC19** Sheet 1 of 1

Hole Type:

Checked By:

Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 04/07/2024

Survey Grid System: LT521 - Bingally 400kv Substation

OSGB Co-ordinates: 232224.12 mE

> 827845.21 mN 248.77 mOD

Approved By:  $\mathsf{AH}$ Log Status: PRELIM

RPC

SR

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 1.20m 04/07/2024

Ground Level:

Date Com	.р.отош.	04/	07/202	24									ation:				•	ou deg.		ınaı Del	puii.	1.20m
From (m) 0.00	To (m)	Ty	ре	Start		End		Plant		lated E	l Explor Barrel	atory H	ole Info I Bit	rmati	on Rig C	Crew	Τ	Logger	-	1	Remark	(S
	1.20	RF	Boring	04/07/20	Progres	04/07/2024		sian Peat C	Corer			Hole	Diamet	ter by	Depth			SK		g Diamet	ter by Depth	
Date 04/07/2024 04/07/2024	Time 07:30 17:30	0.0 0.1 1.3	h (m) 00	Casing (	m) De	pth Water (n	Start	Remark t of shift complete	(S	De	epth (m)		(mm)		Rem	arks	Depth	(m) D	ia. (mm)		Remark	S
										En	om (m)	To	(m)	Volum	e (litres)	Wate	er Added	Records		narks		
										FI												
From (m)	To (m)		Depth	Related		ks marks				Fre	om (m)				ng Detai	Is Tool	From (r	n) To		illing Flus turns (%)	h Details Flush	Colour
			Water	Strikes							Monito	oring Ins	tallation	n Pipe	• Work					Backfill D	Details	
Date	Strike (m)	Casing (m) Tin			Sealed (m	1)	Remark	S	Type Pi	ipe ID						Remarks	From (r 0.00	n) To	(m) L	egend 905		ription
									Star	ndard	Penetr	ation Te	st Resu	Its								
Depth (m)	Type N	Value Ca	asing (m	) Water	(m) SWi	Pen(mm) B	lows1 F	Pen1(mm)	Blows2	Pen	(2(mm))	Blows3	Pen3(r	mm) I	Blows4	Pen4(mm)	Blows5 F	en5(mm	) Blows	6   Pen6(r	nm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC20 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Date Completed: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 232401.20 mE

> 828168.15 mN 261.80 mOD

Approved By: Scale: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 Inclination: 90 deg Final Depth: 2.50m

Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5,	Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5,	pongy dark brown clayey pseudo-fibrous PEAT (H4-H5,	ate Completed: 04/07/2024				Inclina	tion:				9	90 deg.	Final	Deptl			2.50
Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5,	Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5),	pongy dark brown clayey pseudo-fibrous PEAT (H4-H5, 3/16 -			Depth	Lovel		Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm		
Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5,	Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5),	pongy dark brown clayey pseudo-fibrous PEAT (H4-H5,	Stratum Description	Leg.	ness)	(m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	RQD %	IFave mm IFmax mm or [FI]	Water	Backf
Max   State   State	Section   Sect	irm dark brown clayey pseudo-fibrous PEAT (H6-H8,	Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5, 33).	c alks alks alks alks alks alks alks alks	\													
			Firm dark brown clayey pseudo-fibrous PEAT (H6-H8, 34).	E Alle Solic	- 0.95	260.85												

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC20 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst
Date Started: 04/07/2024

Survey Grid System: OSGB

Co-ordinates: 232401.20 mE

828168.15 mN 261.80 mOD Checked By: SR Approved By: AH

Log Status:

Hole Type:

Print Date: 31/07/2024

RPC

PRELIM

Orientation: - - deg.

Date Completed: 04/07/2024 Inclination: 90 deg. Final Depth: 2.50m

Ground Level:

Date Com	ipiotou.	04/07	12024					momation				ucg.	i iiiai De	, ci i.	2.50111
From (m) 0.00	To (m)	Type RPC	Start 04/07/20	End 24 04/07/2024	Plant		lated Explora Barrel	tory Hole Info Drill Bit	ormation Rig (	Crew	Lo	ogger SK		Remark	S
Date	Time	Depth (	oring-Drilling  Casing (	Progress m) Depth Water (	m) Remarks	3	Depth (m)	Hole Diame	ter by Depth Rem	narks	Depth (m)			er by Depth Remark	s
04/07/2024 04/07/2024	07:30 17:30	0.00 2.50			Start of shift Hole complete										
							From (m)	To (m)	Volume (litres)	Wate	er Added Red		emarks		
			epth Related				С	hiselling / Har	d Boring Deta	ils	<u></u>		Orilling Flus		
From (m)	To (m)			Remarks			From (m)	Io (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour
Date	Strike (m)	Casing (m) Time (	Water Strikes	Sealed (m)	Remarks	Type Pi	Monito	ring Installatio	n Pipe Work Pipe Type	Remarks	From (m) 0.00	To (m)	Backfill D Legend 905	Descr	iption
											0.00	2.50	905	Arisings	
Depth (m)	Type N	Value Casii	ng (m) Water	(m) SWPen(mm) I	Blows1 Pen1(mm)	Stan Blows2	ndard Penetra	tion Test Resu Blows3 Pen3(	ults mm) Blows4	Pen4(mm) I	Blows5 Pens	5(mm) Blow	rs6 Pen6(n	nm) Hammer	E. Ratio%
	,														

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC21 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst
Date Started: 05/07/2024

Survey Grid System: OSGB

Co-ordinates: 232407.35 mE

828257.98 mN 260.41 mOD

Approved By: AH

cale:

Hole Type:

Checked By:

1:25

RPC

SR

Log Status: PRELIM

 Orientation:
 - - deg.
 Print Date:
 31/07/2024

 Inclination:
 90 deg.
 Final Depth:
 1.60m

Date Completed: 05/07/2024				Inclinat	ion:				9	90 deg.	Final	Deptl	n:		1.60m
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill
Firm dark brown fibrous PEAT (H4-5, B2) with many fine roots.  0.00 - 1.60m: Very moist.  Firm to plastic dark brown clayey pseudo-fibrous PEAT (H6-7, B3) with frequent fine roots.	shie si shie shie shie shie shie shie sh	-0.05	260.36												
1.60m : Refusal on hard base. / Terminated at 1.60m	shte si to shte shte si to shte shte si to shte shte si	1.60	258.81												
		- - - - - -													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Office: BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC21 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 05/07/2024 Survey Grid System: OSGB

Ground Level:

Co-ordinates:

232407.35 mE 828257.98 mN

260.41 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

PRELIM Print Date: 31/07/2024

RPC

Orientation: - - deg.

Date Completed: 05/07/2024 Inclination: 90 deg. Final Depth: 1.60m

Date Completed:	05/07/2024		l	nclination:		90 deg. Fin	nal Depth: 1.60m
From (m) To (m)	Type Start End	Depth Relate	ed Explorato Barrel	ory Hole Infor	mation Rig Crew	Logger	Remarks
0.00 1.60	Type Start End RPC 05/07/2024 05/07/2024	Russian Peat Corer				Logger SR	
	Boring-Drilling Progress			Hole Diamete			Diameter by Depth
Date Time 05/07/2024 07:30 05/07/2024 17:30	Depth (m) Casing (m) Depth Water (m) 0.00 1.60	Remarks D Start of shift Hole complete	Depth (m)	Dia. (mm)	Remarks	Depth (m) Dia. (mm)	Remarks
		<u> </u>	From (m)	To (m)	Wate	er Added Records Rema	arks
From (m) To (m)	Depth Related Remarks Remarks		Chi From (m)		Boring Details  Ouration (hh:mm) Tool		ing Flush Details
Tom (iii)	ТОПИЛЬ		From (m)	10 (111)	Audadori (m.:mii)	From (iii) 10 (iii) Near	illis (%) Fiusii Coloui
Date Strike (m) Cas	Water Strikes ing (m) Time (mins)Depth (m) Sealed (m) R	emarks Type Pipe I		ng Installation To (m) Dia(mm		From (m) To (m) Le	Backfill Details  egend Description
		Standar	and Donatesti	on Test Result		0.00 1.60	905 Arisings
Depth (m) Type N Va	alue Casing (m) Water (m) SWPen(mm) Blo	ws1 Pen1(mm) Blows2 Pe	en2(mm) Blo		mm) Blows4   Pen4(mm)   E		Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC22 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

05/07/2024 Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232483.98 mE

> 828076.23 mN 268.07 mOD

Approved By: ΑН Scale: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

RPC

SR

Orientation: - - deg. Print Date: 31/07/2024 Inclination: 90 deg Final Depth: 3.20m

ate Completed: 05/07/2024				Inclina	tion:				ę	90 deg.	Final	Dept	h:		3.20
<u> </u>		Depth				ing, Co	oring	and In S							
Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Depth (m)	_	Dia (mm)		Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backf
Spongy to firm dark brown fibrous PEAT (H2-3, B2) with	કોલ : હ કોલ્	1 (111)		. ,		,						/0			
nany fine roots.  0.00 - 1.60m : Wet.	316; 316; 316; 3	E													
	316 ;	Ė													
	316 ;	(0.90)													
	316 ;	(0.30)													
	316 ;	ŧ													
	316 : 8 316	E													
Firm to plastic dark brown fibrous to pseudo-fibrous	316 ;	0.90	267.17												
PEAT (H4-6, B2-3) with frequent fine roots.	316 ;	E													
	. 316. : 5. 316	-													
	316 s	(0.70)													
	316 : 8 316														
	. 316. s	Ė													
1.60m: Refusal on hard base. Plastic dark brown pseudo-fibrous PEAT (H5-6, B3).	316 ;	1.60	266.47												
'lastic dark brown pseudo-fibrous PEAT (H5-6, B3).	316 ; 8 316	+													
	316 : 8 316	E													
	હોદ : ક હોદ	È													
	હોદ : હ હોદ	E													
	હોદ : હ હોદ	}													
	: عادد د عادد : عادد :	(1.60)													
	316 3 316 3	L (1.00)													
	s ale	È													
	s sile	ŀ													
	s sile	ŀ													
	હ કોઇ કોઇક :	E													
	s ale ale :	ļ.													
Terminated at 3.20m	عادد ع	3.20	264.87												
		F													
		Ē													
		_													
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		-													
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		E													
		-  -  -  -													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.



Date Started:

#### **Exploratory Information Sheet**

Location ID: PC22 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

05/07/2024

BAM

Engineer: Fairhurst

Client:

Survey Grid System: OSGB

Co-ordinates: 232483.98 mE

> 828076.23 mN 268.07 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Print Date:

Hole Type:

Log Status:

31/07/2024

RPC

PRELIM

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 3.20m 05/07/2024

Ground Level:

Date Comp		00/1	07/202									IIICIIII					o ucg.	i iliai De		3.20111
From (m) 0.00	To (m) 3.20	Ty <sub>j</sub>	pe PC	Start 05/07/20	24 0	End 5/07/2024	Russ	D Plant sian Peat C		lated E	l Explora Barrel	atory Ho Drill	ole Info Bit	rmation Ri	g Crew		Logger SR		Remark	(S
Date 05/07/2024	Time 07:30	Depth	n (m)	-Drilling Casing (	Progres m) Dep	s oth Water (m	1) Star	Remark t of shift	(S	De	pth (m)	Hole Dia. (	Diamet (mm)	ter by Dept R	n emarks	Depth (I		asing Diame mm)	ter by Depth Remark	S
05/07/2024	17:30	3.2	20				Hole	complete												
										En	om (m)	То	(m)	Volume (litre		ater Added R		Remarks		
										FI	om (m)	10	(111)	volume (IIII	(S)			Remarks		
From (m)	To (m)		Depth	Related		narks				Fre	om (m)	Chiselling	g / Haro (m)	d Boring Do	etails m) Tool	From (m	) To (m)	Drilling Flus		Colour
			Water	r Strikes							Monito	oring Ins	tallation	n Pipe Wor	\ K			Backfill I		
Date	Strike (m) C	asing (m) Tim	ne (mins)	epth (m)	Sealed (m)	)	Remark	(S	Type Pi	ipe ID	From (m	) To (m	) Dia(m	m) Pipe Ty	e Remarks	9.00 From (m	) To (m) 3.20	Legend 905	Arisings Desc	ription
									Star	ndard	Penetra	ation Tes	t Resu	Its		 				1
Depth (m) T	Type N	Value Ca	asing (m	) Water	(m) SWF	Pen(mm) BI	lows1	Pen1(mm)	Blows2	Pen	2(mm)	Blows3	Pen3(r	mm) Blows	4 Pen4(mm)	Blows5 Pe	en5(mm) BI	lows6 Pen6(	mm) Hamme	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC23 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232499.16 mE

> 828193.87 mN 268.56 mOD

Approved By: ΑН

Hole Type:

Checked By:

Scale: 1:25

Log Status: DRAFT

- - deg. Print Date: 16/10/2024

Date Completed: 05/07/2024				Inclina						-		Depti			3.00r
		Depth (Thick-			Sampl	ing, C	oring	and In S	itu Tes						
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfi
Firm dark brown fibrous PEAT (H2-3, B3) with many fine roots.  0.00 - 0.45m : Moist.	alta alta alta alta alta	(0.45)													
Firm to plastic dark brown fibrous to pseudo-fibrous PEAT (H4-6, B3).  0.45 - 3.00m : Wet.	alta	0.45	268.11												
	alta														
	alte alte alte alte alte alte alte alte	(1.85)													
	alka alka alka alka alka alka alka														
Plastic dark brown pseudo-fibrous to amorphous PEAT (H8-9, B3-4) with frequent fine roots.	e alte	2.30	266.26												
3.00m : Refusal on stiff base. ∕ Terminated at 3.00m	e alte alte alte alte alte		265.56												
		- - - - - -													
		- - - - - - -													
		-  -  -  -  -  -													
		- - - - - -													
Stratum denths measured along horehole axis								Remarks							

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC23 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Client: BAM

Date Started: 05/07/2024

Engineer: Fairhurst

Co-ordinates: 232499.16 mE

Survey Grid System: OSGB

> 828193.87 mN 268.56 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Log Status: Print Date:

Hole Type:

DRAFT 16/10/2024

RPC

SR

Orientation: - - deg.

Date Completed: 05/07/2024 Inclination: 90 deg. Final Depth: 3.00m

Ground Level:

Date Completed:	05/07/2024			Inclination:		90 deg. Fir	nal Depth: 3.00m
From (m) To (m)	Type Start End	Depth Rela Plant	ated Explorat Barrel	tory Hole Info Drill Bit	rmation Rig Crew	Logger	Remarks
0.00 3.00	Type Start End RPC 05/07/2024 05/07/2024	Russian Peat Corer			J.	Logger SR	
Date Time	Boring-Drilling Progress  Depth (m)   Casing (m)   Depth Water (m)	Remarks	Depth (m)	Hole Diamet	er by Depth Remarks	Casing Depth (m) Dia. (mm)	g Diameter by Depth Remarks
05/07/2024 07:30 05/07/2024 17:30	0.00 3.00	Start of shift Hole complete	Бери (ш)	Dia. (IIIII)	Nemarks	Deput (III) Dia. (IIIII)	ivellars
		-	From (m)	To (m)	Volume (litres)	er Added Records Rem	Jarks
From (m)   To (m)	Depth Related Remarks Remarks		Ch From (m)		d Boring Details  Duration (hh:mm) Tool		ling Flush Details urns (%) Flush Colour
Town (m) 10 (m)	INGILIANS		TOTH (III)	10 (111)	Tool Tool Tool Tool Tool Tool Tool Tool	rom (iii) Reli	ALINA (78) 1 HASTI CONOUL
Date Strike (m) Casi	Water Strikes ing (m) Time (mins) Depth (m) Sealed (m) R	emarks Type Pipe		ing Installation To (m) Dia(mi	n Pipe Work m) Pipe Type Remarks	From (m) To (m) Le	Backfill Details egend Description
		Stage	lard Donotrot	ion Test Resul	lte.	0.00 3.00	905 Arisings
Depth (m) Type N Vé	alue Casing (m) Water (m) SWPen(mm) Blo	ws1 Pen1(mm) Blows2 F	Pen2(mm) Bi	lows3 Pen3(r	mm) Blows4 Pen4(mm) I		Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.



Engineer:

Client:

## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC24 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

 $\mathsf{BAM}$ Fairhurst

Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232638.40 mE

> 828228.10 mN 279.51 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

DRAFT

RPC

SR

Log Status:

- - deg. Print Date: 16/10/2024

ate Completed:	05/07/2024				Inclina	tion:				9	90 deg.	Final	Deptl	n:		0.85r
			Depth			Sampli	ing, Co	oring	and In S	itu Tes	ting		TCR			
	Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfil
Firm brown fibrous roots.	PEAT (H2-3, B3) with many fine  0.00 - 0.10m : Moist.	316, 3	0.10	279.41			, ,						70			
Firm to plastic dark (H4-6, B3) with frec	brown clayey pseudo-fibrous PEAT	1 10 2016 2016 2 12 2016 2016	(0.30)	279.11												
Plastic dark brown PEAT (H8-9, B3-4).	clayey pseudo-fibrous to amorphous	2 23/16 23/16 2 2 23/16 23/16 2	<u></u>	279.11												
	O O Survey Defended to the head have	2 23/62 23/62 2 22/62	0.85	278.66												
	0.85m : Refusal on hard base. Terminated at 0.85m		_													
			_ _ _													
			- - -													
			_ - -													
			-													
			- - -													
			_ _ _													
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			_													
			<u> -</u>													
			-													
			<u> </u>													
			-													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks

BAM R Exploratory Log 2024-07-26



Client:

#### **Exploratory Information Sheet**

Location ID: PC24 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 05/07/2024

LT521 - Bingally 400kv Substation

Survey Grid System: OSGB

Ground Level:

Co-ordinates: 232638.40 mE

> 828228.10 mN 279.51 mOD

Approved By:  $\mathsf{AH}$ Log Status: DRAFT

Print Date:

Hole Type:

Checked By:

16/10/2024

RPC

SR

Orientation: - - deg.

Date Com	pleted	d:	05/07/20	)24									ation:					90 d	eg.	Final D	epth	:	0.85m
From (m) 0.00	To 0.	(m)	Type RPC	Start	$\overline{}$	End		Plant	Depth Re	lated B	Explora arrel	atory Ho	ole Info I Bit	rmati	ion Rig (	Crew		Log	ger			Remark	(S
Date 05/07/2024 05/07/2024		ne 330		05/07/20	Progre	ess epth Water	(m) St	Remari art of shift ole complete	ks	Dep	pth (m)	Hole Dia.	Diamet (mm)	ter by	Depth Rem	arks	Depth			ising Diam	ieter b	oy Depth Remark	.s
																Wa	ter Added	Reco	rds				
										Fro	om (m)	То	(m)	Volum	ne (litres)	.74				Remarks			
From (m)	To (m)		Dept	h Related		rks emarks				Ero	om (m)		g / Haro (m)	d Bori	ing Detai	ils Tool	From (	'm)		Drilling Flu		etails Flush	Colour
From (m)	10 (m)				Re	emarks				Fro	om (m)	10	<u>(m)</u>	Duratio	n (nn:mm)	1001	From (	m)	10 (m)	Returns (9	(6)	Flush	Colour
				er Strikes						<u> </u>		oring Ins								Backfil	l Deta		
Date	Strike (	m) Casing	(m) Time (mins	Depth (m)	Sealed (I	m)	Rema	arks	Type P	ipe ID I	From (m	) To (m	n) Dia(m	m) Pip	oe Type	Remarks	From (		To (m) 0.85	Legend 905	Ari	Desc sings	ription
									Star	ndard I	Penetra	ation Tes	st Resu	ılts									
Depth (m)	Туре	N Valu	e Casing (	m) Water	(m) SV	VPen(mm)	Blows'	Pen1(mm	Blows2	Pen2	2(mm)	Blows3	Pen3(r	mm)	Blows4	Pen4(mm)	Blows5	Pen5(r	mm) Blo	ws6 Pen6	ß(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.



## **Exploratory Hole Log**

Survey Grid System:

Location ID: PC25 Sheet 1 of 1

Hole Type:

Checked By:

Approved By:

RPC

SR

 $\mathsf{AH}$ 

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Client:  $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 05/07/2024

Co-ordinates: Project No: RGN.331V

828325.19 mN Ground Level:

267.86 mOD

OSGB

232544.40 mE

1:25

Log Status: DRAFT

Orientation: - - deg. Print Date: 16/10/2024

Stratum Description  Log   Depth (mosc)   Depth (mo	Date Completed: 05/07/2024				Inclina	tion:				ç	00 deg.	Final	Deptl	h:		1.85n
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B2-4) with frequent fine roots.  0.00 - 1.60m : Wet.  1.60m : Refusal on granular base. Light grey slightly clayey subangular fine to medium GRAVEL.			Depth	Laval		Sampli	ng, Co	oring	and In S	itu Test	ing		TCR			
(H5-7, B2-4) with frequent fine roots.  0.00 - 1.60m : Wet.    Mode   Mo	Stratum Description	Leg.	ness)			Туре		Rec %		Test	Test Result	Units	RQD	IFmax mm	Water	Well/ Backfill
	Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B2-4) with frequent fine roots.  0.00 - 1.60m : Wet.  1.60m : Refusal on granular base.  Light grey slightly clayey subangular fine to medium GRAVEL.	## 2 Alle	(Thick-ness) (m)	(m) 266.26			Dia	Rec	Blows/	itu Test	ting		TCR SCR RQD	IFmin mm IFave mm IFmax mm	Water	Well/Backfill

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.



#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC25 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 05/07/2024

Date Completed: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232544.40 mE

> 828325.19 mN 267.86 mOD

Approved By: DRAFT

Hole Type:

Checked By:

Log Status:

Print Date: 16/10/2024

Orientation: - - deg. Inclination: 90 deg Final Depth: 1.85m

Date Cor	npletec	l: 0	5/07/20	24							clination					90 deg.	Fi	nal De	pth:	1.85m
From (m)	To (	'm)	Tyne	Start	End		Plant	epth Re	lated Exp		Hole Inf	ormat T	ion Rig (	?rew		Logger		T	Rema	rke
0.00	1.8	35	Type RPC	05/07/2024		24 Ru	ssian Peat C	Corer	Dan		51 D.K			<u> </u>		SR			7.07710	
			Boring	g-Drilling Pr	ogress					H	ole Diame	eter by	/ Depth				Casing	g Diamet	ter by Depth	
Date	Tin	ne De	epth (m)		Depth Water		Remark	(S	Depth		ia. (mm)		Rem	narks	Depth	(m) Di	ia. (mm)		Rema	rks
05/07/2024 05/07/2024			0.00 1.85				le complete													
														Wa	ter Added	Records				
									From (	m)	To (m)	Volun	ne (litres)		ioi 7 idaea	recouras	Rem	narks		
			De-#	Polote 1 C	amarka					Ch:-	lling / ! !	rd D-	ing D-t	ile			D."	lling Flo	h Dotoile	
From (m)	To (m)		⊔epth	Related Re	emarks Remarks				From (		lling / Ha To (m)		ing Deta on (hh:mm)	ils Tool	From (r	m) To (		lling Flus turns (%)	sh Details Flush	Colour
									,				, ,		,			. ,		
			187.1	01.7					١.,			<u></u>	147 1					D 1611 F		
Date	Strike (r	n) Casing (m)		r Strikes Depth (m) Se	aled (m)	Rema	rks	Type Pi			Installatio			Remarks	From (r	m) To (		Backfill E egend		cription
								,,					. ,.		0.00	1.8		905	Arisings	
Depth (m)	Туре	N Value	Casina (n	a) Mator (m	) SWPen(mm)	Plowe1	Don1/mm)				Test Res		Plowe4	Don4/mm)	Plowe5 E	OonE(mm)	Plower	Bon6/r	mm) Hamm	er E. Ratio%
Deptii (III)	туре	in value	Casing (ii	i) water (ii	) Swren(IIIII)	DIOWS	Peni(iiiii)	DIOWSZ	Penz(IIII	II) BIOW	SS PellS	(111111)	DIOWS4	ren4(mm)	DIOWS3 F	reno(mm)	Diowst	Peno(i	пип) паппп	E. Ratio%
					1															
					1															
					1															
					1															
					1															
			L																	

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



## **Exploratory Hole Log**

Ground Level:

Location ID: PC26 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Client: Engineer: Fairhurst

Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232430.91 mE

828437.91 mN

Approved By:

252.11 mOD Scale:

Hole Type:

Checked By:

1:25 Log Status: DRAFT

Orientation: - - deg. Print Date: 16/10/2024

Date Started: 05/07/2024  Date Completed: 05/07/2024				Inclina								Date:		10/1	1.85
	T	Depth			Sampl	ing, C	oring	and In S	itu Tes	ting		TCR	IFmin mm IFave mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units		IFave mm IFmax mm or [FI]	Water	Well Backt
Spongy brown fibrous PEAT (H2-3, B2) with many fine	slk :	+ ` _													
roots. 0.00 - 1.85m : Wet.	s alta alta : s alta alta :	(0.40)													
	د ماده ماد	0.40	251.71												
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H4-6, B3) with frequent fine roots.	6 316 316 3 6 316	- 0.40	201.71												
	316 3 6 316 316 3	(0.60)													
	5 516 516 3 5 516														
Plastic dark brown clayey amorphous PEAT (H9, B4).	20162 2 6 20162 20162 2 6 20162	1.00	251.11												
	2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	‡													
	5 216 216 2	(0.85)													
	316 3 6 316 316 3	<u></u>													
1.85m : Refusal on hard base.	2 21/2 21/2 2	1.85	250.26												
Terminated at 1.85m		_													
		<u> </u>													
		_													
		_													
		_													
		<u>-</u> -													
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		_													
							<u> </u>								

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks

BAM R Exploratory Log 2024-07-26



Client:

#### **Exploratory Information Sheet**

Location ID: PC26 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Engineer: Fairhurst Date Started: 05/07/2024

Co-ordinates: 232430.91 mE

Survey Grid System:

Orientation:

Checked By: Approved By:

Hole Type:

828437.91 mN Ground Level: 252.11 mOD

OSGB

- - deg.

Log Status: DRAFT

Print Date:

16/10/2024

RPC

SR

 $\mathsf{AH}$ 

Date Completed: Inclination: 90 deg. Final Depth: 1.85m 05/07/2024 Depth Related Exploratory Hole Information
Plant Barrel Drill Bit From (m) To (m) Type Start Rig Crew Logger Remarks

From (m) 0.00	1.85					er	Barrel	Drill Bit	Rig (	Crew	Lo	gger SR		Remark	5
Date 05/07/2024		Depth (m)					Depth (m)	Hole Diame Dia. (mm)	ter by Depth Rem	arks	Depth (m)		Diamete	er by Depth Remarks	3
05/07/2024					Hole complete					Wate	er Added Rec				
	Depth Related Remarks  n) To (m) Remarks						From (m)		Volume (litres)	ile	I	Rema		h Details	
From (m)	To (m)	Бер					From (m)		Duration (hh:mm)	Tool	From (m)		ırns (%)	Flush	Colour
	Water Strikes						ing Installatio					Backfill D			
Date	Strike (m)	Casing (m) Time (min	)Depth (m) Seali	dd (m) R	emarks T			To (m) Dia(n	Pipe Type	Remarks	From (m) 0.00		egend 905	Descri Arisings	ption
Depth (m)	Type N	I Value Casing	(m) Water (m)	SWPen(mm) Blo	ws1 Pen1(mm) B	lows2 P	Pen2(mm) B	llows3 Pen3(	mm) Blows4						E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC27 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232509.46 mE

> 828517.42 mN 248.98 mOD

Approved By: ΑН 1:25

Hole Type:

Checked By:

Scale:

Log Status: DRAFT

Orientation: - - deg. Print Date: 16/10/2024

Date Completed: 05/07/2024				Inclina	tion:				9	00 deg.	Final	Dept	h:		0.10n	n
		Depth			Sampli	ng, Co	oring	and In S	itu Test	ing		TCR	IFmin mm			Τ
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)		Blows/ [mins]	Test	Test Resul	Units	SCR RQD %		Water	Well/ Backfill	<sub>J</sub> D
Spongy brown fibrous PEAT (H4, B2) with many fine roots.  0.00 - 0.10m : Very moist. 0.10m : Refusal on hard base.  Terminated at 0.10m	alte s	ness)			Type			Blows/ [mins]	Test	Test Resul	t Units	SCR RQD	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Date Completed:

#### **Exploratory Information Sheet**

Location ID: PC27 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

DRAFT

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

05/07/2024

Client: BAM

Engineer: Fairhurst Date Started: 05/07/2024

Project No:

Ground Level:

Co-ordinates:

Survey Grid System:

828517.42 mN 248.98 mOD

OSGB

232509.46 mE

Checked By: Approved By:

Hole Type:

Log Status:

16/10/2024

Print Date:

Orientation: - - deg. Inclination: 90 deg. Final Depth: 0.10m

Date Completed:	05/07/2024			inclination		90 deg. Fir	nai Deptn: 0.10m
From (m) To (m) 0.00 0.10	Type Start   RPC   05/07/2024   05	End Plant	ated Explorat Barrel	ory Hole Info Drill Bit	Rig Crew	Logger SR	Remarks
0.00 0.10	RPC 05/07/2024 05	5/07/2024 Russian Peat Corer				SR	Boulders along surface.
Deta Time	Boring-Drilling Progress  Depth (m)   Casing (m)   Depth	oth Water (m) Remarks	Donath (m)	Hole Diamet			Diameter by Depth Remarks
Date         Time           05/07/2024         07:30           05/07/2024         17:30	Depth (m)   Casing (m)   Depth   0.00   0.10	Start of shift Hole complete	Depth (m)	Dia. (mm)	Remarks	Depth (m) Dia. (mm)	Remarks
			From (m)	To (m)	Volume (litres)	r Added Records Rem	arks
				, ,			
From (m) To (m)	Depth Related Remarks Rem	rs marks	Ch From (m)		d Boring Details  Duration (hh:mm) Tool		ling Flush Details urns (%) Flush Colour
	Water Strikes		Monitori	ing Installation	n Pipe Work	F	Backfill Details
Date Strike (m) Ca	asing (m) Time (mins) Depth (m) Sealed (m)	Remarks Type Pip			m) Pipe Type Remarks	From (m) To (m) Le	egend Description 905 Arisings
Destitution Town IV	Value Consider (as) Water (as) SWI	Stance Stance	dard Penetrati	ion Test Resu	ilts	News Figure (con) Plane	DesCours V. Harring J. E. Deti Sc.
Depth (m) Type N	Value Casing (m) Water (m) SWP	Pen(mm) Blows1 Pen1(mm) Blows2	Pen2(mm) Bi	lows3 Pen3(r	mm) Blows4 Pen4(mm) E	Blows5 Pen5(mm) Blows6	Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC28 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232498.76 mE

> 828637.10 mN 241.22 mOD

Approved By: ΑН Scale: 1:25

Hole Type:

Checked By:

DRAFT

RPC

SR

Log Status:

Orientation: - - deg. Print Date: 16/10/2024

ate Completed: 05/07/2024				Inclina						00 deg.	Final				0.60m
200 Completed: 00/01/2021	$\top$	Denth				ina. Co	orina	and In S	itu Test	tina		TCR	IFmin mm		1
Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Depth (m)	Туре			Blows/ [mins]	Test	ting Test Result	t Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill
Spongy light brown fibrous PEAT (H1-2, B2) with many ine roots.  0.00 - 0.60m : Wet. Spongy to firm slightly clayey brown fibrous PEAT (H3-5, 33) with many fine roots.	20162 : 2 20162 : 20162 : 20162 :	0.10													
0.60m : Refusal on stiff base. Terminated at 0.60m	S 516	0.60	240.62												
		_ _ _ _													
		<u>-</u> - -													
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	Ш_						L_	emarks							

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC28 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Client: Engineer: Fairhurst

Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232498.76 mE

> 828637.10 mN 241.22 mOD

Approved By:  $\mathsf{AH}$ DRAFT

Hole Type:

Checked By:

Log Status:

Print Date: 16/10/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.60m 05/07/2024

Ground Level:

Date Com			5/07/20	24									ation					gu deg	. '	ınaı Del	Jui.	0.60m
From (m) 0.00	To (m	)	Type RPC	Start		End		Plant	epth Re	lated	l Explor Barrel	atory H	ole Info I Bit	rmati	ion Rig (	Crew		Logger	r		Remar	KS
	0.60		Borin	05/07/20	Progre	05/07/2024		sian Peat C	Corer			Hole	Diame	ter by	Depth			SR		ng Diamet	er by Depth	
Date 05/07/2024 05/07/2024	Time 07:30 17:30		epth (m) 0.00 0.60	Casing (	(m) De	epth Water (i	Star	Remark t of shift complete	(S	De	epth (m)		(mm)		Rem	arks	Depth	(m) D	Dia. (mm		Remarl	(S
										Er	om (m)	То	(m)	Volum	ne (litres)	Wat	er Added	Records		marks		
										FI												
From (m)	To (m)		Depth	Related		ks marks				Fr	om (m)				ng Deta	ils Tool	From (ı	m) To		illing Flus turns (%)	h Details Flush	Colour
			Wate	er Strikes								oring Ins		n Pipe	e Work		,			Backfill D		
Date	Strike (m)	Casing (m)				n)	Remark	(S	Type Pi	ipe ID					pe Type	Remarks	From (I	m) To	(m) 60	egend 905		ription
									Star	ndard	Penetr	ation Te	st Resu	ılts								
Depth (m)	Type N	Value	Casing (r	n) Water	(m) SW	(Pen(mm) E	lows1	Pen1(mm)	Blows2	Pen	<u>(2(mm)</u>	Blows3	Pen3(i	mm)	Blows4	Pen4(mm)	Blows5 F	Pen5(mm	)) Blows	6 Pen6(r	mm) Hamme	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.



Engineer:

Client:

## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC29 Sheet 1 of 1

RPC

SR

ΑН

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

BAM

Fairhurst

Date Started: 05/07/2024

Survey Grid System: OSGB

Co-ordinates: 232564.80 mE

828705.80 mN 240.01 mOD

Approved By: Scale: 1:

cale: 1:25

Log Status: DRAFT

- - deg. Print Date: 16/10/2024

Hole Type:

Checked By:

te Completed: 05/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		1.75
		Depth			Sampl	ing, C	oring	and In S	itu Tes	ting		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %		Water	Well/ Backf
pongy brown fibrous PEAT (H2-4, B2) with many fine	silta s	+													
oots. 0.00 - 1.75m : Wet.	3/6 3 6 3/6	E 45)													
	alta s	(0.45)													
	sile s	0.45	239.56												
irm to plasic dark brown clayey pseudo-fibrous PEAT H3-5, B3).	alta a	-0.43	200.00												
3, 23).	alta a	Ė													
	alta s	E													
	sille s	ŧ													
	sille s	-													
	silta s	(1.30)													
	316 3	E													
	316 3	-													
	sille s	ŧ.													
	silta s	E													
1.75m : Refusal on stiff base.	2016	1.75	238.26												
Terminated at 1.75m															
		_													
		F													
		Ē													
		F													
		Ė													
		-													
		-													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Office: BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC29 Sheet 1 of 1

RPC

DRAFT

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Client:

Engineer: Fairhurst

Date Started: 05/07/2024 Survey Grid System: OSGB

Co-ordinates: 232564.80 mE

> 828705.80 mN 240.01 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Print Date: 16/10/2024

Log Status:

Hole Type:

Orientation: - - deg. Inclination: 90 deg Final Depth:

ate Completed:	05/07/2024			Inclination:		90 deg. Fir	nal Depth: 1.75n
ate Completed.	05/07/2024	Do	pth Related Explorat			90 deg. Fil	1.75h
From (m) To (m) 0.00 1.75	Type Start RPC 05/07/2024	End Plant	Barrel	Drill Bit	Rig Crew	Logger SR	Remarks
0.00 1.75	RPC 05/07/2024	05/07/2024 Russian Peat Col	rer			SR	
Date Time 1/07/2024 07:30 1/07/2024 17:30	Boring-Drilling Pro	gress  Depth Water (m)  Start of shift Hole complete	Depth (m)	Hole Diamete Dia. (mm)	er by Depth Remarks	Casing Depth (m) Dia. (mm)	p Diameter by Depth Remarks
			From (m)	To (m)	Wate	er Added Records	arks
om (m) To (m)	Depth Related Re	marks Remarks	Cr From (m)	hiselling / Hard To (m)	Boring Details  Ouration (hh:mm) Tool	From (m) To (m) Reti	ling Flush Details urns (%) Flush Colour
	Water Strikes ng (m) Time (mins)Depth (m) Seal	led (m) Remarks 7	Type Pipe ID From (m)	ion Test Result	n) Pipe Type Remarks	From (m) To (m) Lo (0.00 1.75	Backfill Details egend Description 905 Arisings

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Engineer:

Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC30 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

 $\mathsf{BAM}$ 

Fairhurst

Date Started: 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 232526.25 mE

> 828751.43 mN 239.26 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

Log Status: DRAFT

Print Date: 16/10/2024

Orientation: - - deg.

Date Completed: 17/07/2024				Inclinat	ion:				g	00 deg.	Final	Dept	h:		0.40m	١
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Firm dark brown pseudo-fibrous PEAT (5-6, B3) with frequent fine roots.  0.00 - 0.40m : Moist.  Plastic dark greyish brown clayey amorphous PEAT (H9, B3).  0.40m : Refusal on hard base.  Terminated at 0.40m	Leg.  alka ala salka sa	ness) (m)		(m)		(mm)	<u>**</u>	[mins]		Test Result		RQD %	IFmax mm or [FI]		Backfill	
		_														H

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks

BAM R Exploratory Log 2024-07-26



#### **Exploratory Information Sheet**

Location ID: PC30 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 17/07/2024

Survey Grid System: OSGB

Co-ordinates: 232526.25 mE

828751.43 mN 239.26 mOD Checked By: SR Approved By: AH

Log Status:

Hole Type:

Print Date: 16/10/2024

RPC

DRAFT

Orientation: -- deg.

Date Completed: 17/07/2024 Inclination: 90 deg. Final Depth: 0.40m

Ground Level:

Date Con	ipietea:	17/07/20	)24					inclination			90	deg. F	ınaı Dep	ın:	0.40m
From (m)	To (m)	Tuno	Start	End	Plan	Depth Re	lated Explora Barrel	tory Hole Inf	ormation	Crew	1 12	oggor		Remark	_
From (m) 0.00	To (m) 0.40	Type RPC	17/07/2024	17/07/2024	Russian Peat	Corer	Dallel	DIIII BIL	Rig	Clew	L	ogger SR		Remark	5
		Borin	g-Drilling Pro	gress					ter by Depth					er by Depth	
Date	7ime 07:30	Depth (m)	Casing (m)	Depth Water (m	Remail Start of shift	rks	Depth (m)	Dia. (mm)	Ren	narks	Depth (m)	Dia. (mm)	)	Remark	s
17/07/2024 17/07/2024	17:30	0.40			Hole complete	•									
								1		Wate	er Added Red	cords			
							From (m)	To (m)	Volume (litres)				narks		
		Dept	h Related Rer				С	hiselling / Hai	rd Boring Deta	ails			illing Flush		
From (m)	To (m)			Remarks			From (m)	To (m)	Duration (hh:mm	Tool	From (m)	To (m) Re	turns (%)	Flush	Colour
		Wate	er Strikes				Monito	ı ring Installatio	n Pipe Work	I .			Backfill De	etails	
Date	Strike (m) Casi	ng (m) Time (mins)	Depth (m) Seale	ed (m)	temarks	Type Pi	ipe ID From (m)	To (m) Dia(r	n Pipe Work	Remarks	From (m)	To (m) L	egend	Descr	iption
											0.00	0.40	905	Arisings	
Depth (m)	Typo N11/-	luo Cosine /	m) Mater (n-)	SWPon/mm\ DI	ows1 Pen1(mm	Star	ndard Penetra	tion Test Resi	ults	Don4/mm\	Plower Inc.	5(mm) Plasse	6 Done/	ım) Hammer	E. Ratio%
Debin (III)	rype IN Va	iiue  Casing (I	m) vvaler (m)	-w. en(mm) Bit	wai reili(mm	i) blows2	i-eiiz(iiiiii) E	nowso Pensi	(IIIII) DIOWS4	n-en4(mm) l	Pent Cawoic	SWOID (IIIII)	o ir eno(m	mainmer	∟. Rail0%
		•	•												

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC31 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Date Started: 17/07/2024

Survey Grid System: OSGB

Co-ordinates: 232656.44 mE

828869.74 mN 232.49 mOD

Approved By:

Scale: 1:25

Hole Type:

Checked By:

Log Status: DRAFT

RPC

SR

 $\mathsf{AH}$ 

Orientation: -- deg. Print Date: 16/10/2024

Date Completed: 17/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		0.33m	1
		Depth			Sampli	ng, Co	oring	and In S	itu Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	ness)	(m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units		IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
·	346   346	(Thick- ness) (m)		Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]		Well/ Backfill	D

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Office: BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

# **Exploratory Information Sheet**

Location ID: PC31 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

RGN.331V

BAM

Engineer: Fairhurst Date Started: 17/07/2024

Access Track GI Project No:

Ground Level:

Co-ordinates:

Survey Grid System:

OSGB 232656.44 mE Hole Type: Checked By: Approved By:

SR  $\mathsf{AH}$ 

RPC

828869.74 mN 232.49 mOD

Log Status: DRAFT

16/10/2024

Print Date:

ate Starte		17/07/2	024				Orientatio				deg.	Pillit Da		10/10/2024
ate Comp	pleted:	17/07/2	024				Inclination			90	deg.	Final De	pth:	0.33m
From (m)	To (m)	Type	Start	End	Plant	elated Explora Barrel	Drill Bit	ormation Rig C	Crew	T L	oaaer		Remar	KS
rom (m) 0.00	0.33	Type RPC	17/07/2024	17/07/2024	Russian Peat Corer						ogger SR			
		Bori	ng-Drilling Pro	gress			Hole Diame	eter by Depth			Ca	ising Diame	ter by Depth	
Date 07/2024	Time 07:30	Depth (m)	Casing (m)	Depth Water (m)	Remarks Start of shift	Depth (m)	Dia. (mm)	Rem	arks	Depth (m)	) Dia. (m	nm)	Remar	(S
7/07/2024	17:30	0.33			Hole complete				Wate	er Added Rec				
						From (m)	To (m)	Volume (litres)			F	Remarks		
om (m)	To (m)	Dep	th Related Re	marks Remarks		From (m)	hiselling / Har	d Boring Detai	ls Tool	From (m)		Drilling Flus		Colour
Date	Strike (m) C	Wasing (m) Time (min	ter Strikes s)Depth (m) Seal	ed (m) F	temarks Type	Monito Pipe ID From (m)	ring Installatic	on Pipe Work	Remarks	From (m) 0.00	To (m) 0.33	Backfill   Legend 905		ription
epth (m)	Type N	Value Casing	(m) Water (m)	SWPen(mm) Bio	State	ndard Penetra 2 Pen2(mm) E	tion Test Resi	ults (mm) Blows4	Pen4(mm)   1	Blows5 Pen:	5(mm) Blo	ws6 Pen6(	mm) Hamme	E. Ratio

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC32 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Fairhurst

Engineer: Date Started: 17/07/2024 Date Completed: 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 232781.45 mE

> 828980.98 mN 225.92 mOD

Approved By:

Hole Type:

Checked By:

1:25

RPC

SR

ΑН

Log Status:

**PRELIM** Print Date: 31/07/2024

Inclination: 90 deg. Final Depth: 0.26m

- - deg.

Stratum Description    Leg.   Depth (Thick-ness) (m)   Depth (m)   Depth (m)   Type   Dia (mm)   Rec (mm)   Re		
Spongy brown fibrous PEAT (2-4, B1) with many fine roots.  O.00 - 0.26m: Moist.  See ness (m) (m) Lepth (m) Type (mm) Rec (mm) (m) Type (mm) Rec (mm) ROI (m	R IFmin mm	
Spongy brown fibrous PEAT (2-4, B1) with many fine roots.  0.00 - 0.26m: Moist.  225.77	IFave mm IFmax mm	Well/ Backfill
Terroinated at 0.26m	R IFave mm D IFmax mm Or [FI] Water	Backfill

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks

BAM R Exploratory Log 2024-07-26



#### **Exploratory Information Sheet**

Location ID: PC32 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

Project No: Client: BAM

Engineer: Fairhurst Date Started: 17/07/2024

LT521 - Bingally 400kv Substation

Survey Grid System: OSGB

Co-ordinates: 232781.45 mE

> 828980.98 mN 225.92 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

Log Status: PRELIM

Hole Type:

Print Date: 31/07/2024

RPC

Orientation: - - deg.

Date Completed: 17/07/2024 Inclination: 90 deg Final Depth: 0.26m

Ground Level:

Date Com	npleted:	: 1	7/07/202	24							nation:			90	deg.	Final Dep	oth:	0.26m
From (m)	To (r	m)	Type RPC	Start	End		Plant		lated Explo Barrel		ole Info	rmation Rig	Crew	L	ogger SR		Remar	ks
0.00	0.26	6	RPC	17/07/2024	17/07/202	4 Ru	ssian Peat C	Corer							SR			
				D.::: D						1	D: 1	1.5.0					L. D. II	
Date 17/07/2024	Tim		epth (m)	-Drilling Pro Casing (m)	Depth Water	(m)	Remark	(S	Depth (m		(mm)	er by Depth Rer	narks	Depth (m		asing Diamet mm)	er by Depth Remar	ks
17/07/2024	07:3 17:3	30	0.00 0.26				le complete											
									F==== (==	\	() I	V. 1. (19)		er Added Re		Damada		
									From (m	) 10	(m)	Volume (litres	)			Remarks		
From (m)	To (m)		Depth	Related Ren	narks Remarks				From (m			Boring Detail Duration (hh:mm		From (m)	To (m)	Drilling Flus Returns (%)	h Details Flush	Colour
					<u> </u>							·						
			Wate	r Strikes				I	Mon	itorina Ins	stallation	Pipe Work				Backfill D	)etails	
Date	Strike (m	Casing (m		Depth (m) Seale	d (m)	Rema	rks	Type Pi				n) Pipe Type	Remarks	From (m) 0.00	To (m) 0.26	Legend		cription
														0.00	0.20		7 monigo	
Depth (m)	Type	N Value	Casing (m	) Water (m)	SWPen(mm)	Blows1	Pen1(mm)		ndard Pene				Pen4(mm)	Blows5 Pen	5(mm) Blo	ows6 Pen6(n	nm) Hamme	r E. Ratio%
Dopar (III)	.,,,,		Journal (1)	, rraio. ()		D.01101	()	2.01102		, 5.000		, Biome :		5.01100 1 0.1	S() S.		,	2.7144070

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC33 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM Fairhurst

Engineer: Date Started: 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 233072.72 mE

> 828986.31 mN 238.06 mOD

Approved By: 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

ate Completed: 17/07/2024				Inclina	tion:				ç	90 deg.	Final	Dept	h:	01/0	1.15
·		Depth			Sampl	ing, C	oring	and In S	itu Tes	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm		Well/ Backf
Spongy brown fibrous PEAT (H1-3, B2) with many fine	sile si	,										70			
oots. 0.00 - 0.25m : Moist.	5 316 316 3 5 316	E													
Firm dark brown clayey pseudo-fibrous PEAT (H5-6,	2016	0.25	237.81												
0.25 - 1.15m : Wet.	s sits sits s s sits	(0.30)													
lastic dark brown to black clayey amorphous PEAT	316 3 8 316	<u>-</u> −0.55	237.51												
18-9, B4).	316 3 8 316	E													
	316 3 8 316	-													
	316 3 8 316	(0.60)													
	316 3 8 316	-													
1.15m : Refusal on hard base.	316 3	- - 1.15	236.91												
Terminated at 1.15m	1	-													
		E													
		_													
		<u> </u>													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

#### **Exploratory Information Sheet**

Location ID: PC33 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 17/07/2024

Survey Grid System: OSGB

Co-ordinates: 233072.72 mE

> 828986.31 mN 238.06 mOD

Approved By:  $\mathsf{AH}$ Log Status: PRELIM

RPC

SR

Print Date: 31/07/2024

Hole Type:

Checked By:

Orientation: - - deg.

Date Completed: 17/07/2024 Inclination: 90 deg Final Depth: 1.15m

Ground Level:

Date Con	npleted	d:	17/07/20:	24							nation:			90	deg.	Final De	pth:	1.15m
From (m)	То	(m)	Type RPC	Start	End	T	Plant		lated Explo Barrel		lole Info	rmation Rig	Crew	L	ogger SR		Remar	rks
0.00	1.1	15	RPC	17/07/2024	17/07/2024	4 Ru	issian Peat C	Corer							SR			
			Boring	g-Drilling Prog	nress					Hole	Diamet	er by Depth			C	asing Diamet	ter by Denth	
Date 17/07/2024	Tir 07:		Depth (m) 0.00	Casing (m)	Depth Water (	(m)	Remark	s	Depth (m		(mm)		marks	Depth (m			Remar	rks
17/07/2024	17:	30	1.15				le complete											
													Wat	er Added Re	cords			
									From (m	) To	(m)	Volume (litres				Remarks		
			Denth	Related Ren	narks					Chicallin	ng / Harr	Boring Det	ails			Drilling Flus	th Details	
From (m)	To (m)		pehu		Remarks				From (m			Duration (hh:mm		From (m)	To (m)	Returns (%)	Flush	Colour
Date	Strike (r	m) Casing (r		r Strikes Depth (m) Seale	ed (m)	Rema	ırks	Type Pi				n Pipe Work		From (m)	To (m)	Backfill D		cription
		, , ,						.,,,,		,	.,	, , , , , , , ,		0.00	1.15	905	Arisings	
			1	des	laccia d'a		1		ndard Pene							-1	.1	
Depth (m)	Туре	N Value	Casing (n	) Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm	Blows3	Pen3(r	nm) Blows4	Pen4(mm)	Blows5 Pen	5(mm) Blo	ows6 Pen6(r	mm) Hamme	er E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC34 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 17/07/2024 Date Completed: 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 233128.53 mE

> 829042.75 mN 237.22 mOD

Approved By: ΑН 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

- - deg. Print Date: 31/07/2024 90 deg Final Depth: 1.10m

20 Completed: 17/07/2024				Inclina	ion:					n doa	Einal	Depth			1 10
te Completed: 17/07/2024		1		Inclina							rınaı				1.10
Stratum Description	Leg.	Depth (Thick- ness)	Level (m)	Depth	Sampli Type	Dia	Rec		itu Test Test	ing Test Result	Unite	TCR SCR RQD	irmax mm	l	Well Backf
		(m)	()	(m)	туре	(mm)	%	[mins]	iest	rest Result	Units	%	or [FI]		X////X
pongy to firm brown to dark brown fibrous PEAT (H3-4, 2-3) with many fine roots.	: عادد عادد ع	-													
0.00 - 0.20m : Moist.	316 : 8 316	(0.40)													
0.20 - 1.10m : Wet.	316 3 8 316	F													
rm dark brown clayey pseudo-fibrous PEAT (H5-7,	<u> </u>	0.40	236.82												
3-4).	316 3	E													
	a site <u>s</u>	(0.46)													
	s alta alta a	ļ													
astic dark brown to black clayey amorphous PEAT	s site	0.86	236.36												
8-9, B4-5).	s als	E													
	s) (c)	1.10	236.12												
1.10m : Refusal on stiff base. Terminated at 1.10m	4		2002												
		-													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Ground Level:

Location ID: PC34 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

**RGN.331V** 

Client: BAM

Engineer: Fairhurst

Date Started: 17/07/2024 Survey Grid System: **OSGB** 

Co-ordinates: 233128.53 mE

> 829042.75 mN 237.22 mOD

Approved By: ΑH

**RPC** 

PRELIM

SR

Hole Type:

Checked By:

Log Status:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 1.10m 17/07/2024 Depth Related Exploratory Hole Information Rig Crew From (m) 0.00 To (m) 1.10 End 17/07/2024 Barrel Remarks Logger Boring-Drilling Progress

Depth (m) Casing (m) Depth Water (m)
0.00
1.10 Hole Diameter by Depth Casing Diameter by Depth Date 17/07/2024 17/07/2024 Time 07:30 17:30 Remarks Start of shift Hole complete Depth (m) Dia. (mm) Depth (m) Dia. (mm) Water Added Records From (m) To (m) Volume (litres) Chiselling / Hard Boring Details
) To (m) Duration (hh:mm) Drilling Flush Details Depth Related Remarks From (m) To (m) From (m) From (m) To (m) Returns (%) Colour Water Strikes Backfill Details Strike (m) Casing (m) Time (mins) Depth (m) Sealed (m) Remarks Description Depth (m) Type N Value Casing (m) Water (m) SWPen(mm) Blows1 Pen1(mm) Blows2 Pen2(mm) Blows3 Pen3(mm) Blows4 Pen4(mm) Blows5 Pen5(mm) Blows6 Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC35 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No: Client: BAM

Engineer: Fairhurst

Date Started: 17/07/2024 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 233220.16 mE

> 829111.45 mN 235.46 mOD

Approved By: ΑН 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Einal Donth 1 03m

Date Completed: 17/07/2024				Inclina	tion:				9	90 deg.	Final	Deptl	h:		1.93
		Depth			Sampli	ing, C	oring	and In S	itu Test	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR	IFave mm	Water	Well/ Backfil
Spongy to firm brown to dark brown fibrous PEAT (H2-5, B2-3) with many fine roots.	silis s is silis	- ()		. ,								70			
0.00 - 0.30m : Moist.	e siles siles	E													
0.30 - 1.93m : Wet.	s shis shis s s shis	(0.62)													
	316 3 6 316	0.62	234.84												
Firm to plastic dark brown clayey pseudo-fibrous PEAT H5-7, B3-4).	siles s s siles siles s	0.02	204.04												
	2 316 316 3 2 316														
	silta s ta silta	E													
	2) (c. 2) (c. 2) (c. 2) (c. 2) (c. 2) (c. 2)	(1.16)													
	s site	<u> </u>													
	2 316 316 3	Ė													
	316 3 8 316														
Plastic dark brown to black clayey amorphous PEAT	316 3 6 316 316 3	1.78	233.68												
H8-9. B4).	2 2)(2	1.93	233.53												
1.93m : Refusal on stiff base. Terminated at 1.93m															
		E													
		_													
		E													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC35 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Client: BAM

Date Started: 17/07/2024

Engineer: Fairhurst

Project No: RGN.331V

Ground Level:

Co-ordinates:

Survey Grid System:

829111.45 mN 235.46 mOD

OSGB

233220.16 mE

Checked By:

Hole Type:

Approved By:  $\mathsf{AH}$ Log Status: PRELIM

RPC

SR

Print Date: 31/07/2024

Orientation: - - deg.

Final Denth 90 dea Inclination:

Date Completed:	17/07/2024			Inclination:		90 deg. Fi	inal Depth: 1.93m
From (m) To (m)	Type Start End	Depth Rel	ated Explora Barrel	tory Hole Inform Drill Bit	nation Rig Crew	Logger	Remarks
From (m) To (m) 0.00 1.93	Type Start End RPC 17/07/2024 17/07/2024	Russian Peat Corer	Barrer	Dim Dit	Ng Grew	Logger SR	Tollians
Date Time	Boring-Drilling Progress  Depth (m) Casing (m) Depth Water (m	Remarks	Depth (m)	Hole Diameter	r by Depth Remarks	Casin Depth (m) Dia. (mm)	g Diameter by Depth Remarks
17/07/2024 07:30 17/07/2024 17:30	0.00	Start of shift Hole complete					
			F ()	T- () 1/		r Added Records	
			From (m)	To (m) Vo	olume (litres)	Ren	narks
	Depth Related Remarks		CI	hiselling / Hard B	Boring Details		illing Flush Details
From (m) To (m)	Remarks		From (m)	To (m) Du	rration (hh.mm) Tool	From (m) To (m) Rei	turns (%) Flush Colour
	Water Strikes		Monitor	ring Installation F	Pipe Work		Backfill Details
Date Strike (m) Casing	(m) Time (mins) Depth (m) Sealed (m)	emarks Type Pip	pe ID From (m)	To (m) Dia(mm)	Pipe Type Remarks	From (m) To (m) L 0.00 1.93	Legend Description 905 Arisings
		Stan	dard Danatrai	tion Test Results			
Depth (m) Type N Valu	ue Casing (m) Water (m) SWPen(mm) Blo	ows1 Pen1(mm) Blows2	Pen2(mm) B	Blows3 Pen3(mn	m) Blows4 Pen4(mm) B	Blows5 Pen5(mm) Blows6	6 Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



Client:

## **Exploratory Hole Log**

Ground Level:

Location ID: PC36 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Fairhurst

Engineer: Date Started: 17/07/2024 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 233193.91 mE

> 829220.52 mN 229.75 mOD

Approved By:

Hole Type:

Checked By:

1:25

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Einal Donth 2 35m

ate Completed: 17/07/2024				Inclinat	ion:				9	00 deg.	Final	Depth	า:		2.35n
		Depth			Sampli	ng, Co	oring	and In S	itu Test	ing		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill
Spongy to firm brown to dark brown fibrous PEAT (H3-5, 32-3) with many fine roots.  0.00 - 0.10m : Moist. 0.10 - 2.35m : Wet.	silicos te allicos	(0.62)										70			
Firm to plastic dark brown clayey pseudo-fibrous PEAT H5-7, B3-4) with frequent fine roots.	silte		229.13												
Plastic dark brown to black clayey amorphous PEAT H8-9, B4).	c alice calice c	1.92	227.83												
2.35m : Refusal on hard base. / Terminated at 2.35m															
		-													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

#### **Exploratory Information Sheet**

Location ID: PC36 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

> RGN.331V BAM

Engineer: Fairhurst Date Started:

Access Track GI

17/07/2024

Survey Grid System: OSGB

Co-ordinates: 233193.91 mE

> 829220.52 mN 229.75 mOD

Checked By: Approved By:

Hole Type:

Log Status: PRELIM

RPC

SR

 $\mathsf{AH}$ 

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 2.35m 17/07/2024

Ground Level:

Date Complete	u.	17/07/20	24					inclination			90 (	aeg. Fi	nai Dep	ouri.	2.35M
From (m) To 0.00 2	2.35	Type RPC	Start	End	D Plant		lated Explo	atory Hole Inf	formation Rig	Crew	Lo	ogger SR		Remark	S
0.00 2	2.35		17/07/2024	17/07/2024	Russian Peat C	Corer		Hala Diam	eter by Depth				a Diameter	or by Dooth	
17/07/2024 07	7:30 7:30	Depth (m) 0.00 2.35	g-Drilling Prog	Depth Water (m)	Remark Start of shift Hole complete	is .	Depth (m)			narks	Depth (m)			er by Depth Remarks	3
											er Added Rec				
							From (m)	To (m)	Volume (litres)	)		Ren	narks		
		_													
From (m) To (m	1)	Depth	Related Rem	arks Remarks			From (m)	Chiselling / Ha To (m)	rd Boring Deta Duration (hh:mm		From (m)		lling Flush turns (%)	n Details Flush	Colour
		Wate	er Strikes				Monit	oring Installati	on Pipe Work				Backfill D	etails	
Date Strike	(m) Casing		Depth (m) Sealed	d (m) Re	emarks	Type Pi		n) To (m) Dia(		Remarks	From (m) 0.00		egend	Descri Arisings	iption
						Star	ndard Peneti	ation Test Res	ults						
Depth (m) Type	N Valu	ue Casing (n	n) Water (m) S	SWPen(mm) Blo	ws1 Pen1(mm)	Blows2	Pen2(mm)	Blows3 Pen3	(mm) Blows4	Pen4(mm) [	Blows5 Pen5	5(mm) Blows	6 Pen6(m	mm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



Client:

## **Exploratory Hole Log**

Location ID: PC37 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 17/07/2024 Survey Grid System: OSGB Co-ordinates: 233212.92 mE

Ground Level:

829236.72 mN 228.62 mOD

Checked By: Approved By: ΑН 1:25

Hole Type:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Einal Donth 1 00m

Date Started: 17/07/2024 Date Completed: 17/07/2024				Inclinat								Date:		31/0	1.90
·		Depth			Sampli	ing, C	oring	and In S	itu Tesi	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec	Blows/ [mins]	Test	Test Result	Units		IFmin mm IFave mm IFmax mm or [FI]	Water	Well Back
Spongy brown to dark brown fibrous PEAT (H3-4, B2) with many fine roots.	alta a ta alta	- ()		. ,		, ,						70			
0.00 - 0.20m : Moist. 0.20 - 1.90m : Wet.	ه ماده د ماده ماده م د ماده	(0.40)													
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B3-4).	20162 2 2 20162 20162 2	0.40	228.22												
	s alta alta a s alta alta a	E													
	20 20 20 20 20 20 20 20 20 20 20 20 20 2														
	عادد ع د عالد	(1.20)													
	s alis alis a s alis alis a	E													
	s als als s s als														
Plastic dark brown to black clayey amorphous PEAT (H8-9, B4).	2016 2 2 2016 2016 2 2 2016	1.60	227.02												
1.90m : Refusal on stiff base. /	20162 2 20162 2 2 20162	Τ.	226.72												
Terminated at 1.90m		E													
		E													
		E													
		E													
		E													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

Engineer:

Date Started:

#### **Exploratory Information Sheet**

Location ID: PC37 Sheet 1 of 1

Hole Type:

Checked By:

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

BAM

Fairhurst 17/07/2024

Project No: RGN.331V

Orientation:

829236.72 mN

Survey Grid System:

Co-ordinates:

Ground Level:

228.62 mOD

- - deg.

OSGB

233212.92 mE

Approved By:  $\mathsf{AH}$ Log Status: PRELIM

Print Date: 31/07/2024

RPC

SR

ate Completed:	17/07/2024			iclination:		90 deg. Fina	al Depth: 1.90m
ate Completed.	17/07/2024	Donth P.		y Hole Information		90 deg. Filia	ai Depiii. 1.90iii
From (m) To (m) 0.00 1.90	Type Start RPC 17/07/2024	End Plant 17/07/2024 Russian Peat Corer			ig Crew	Logger SR	Remarks
Date Time	Boring-Drilling Progre	ess Depth Water (m) Remarks		Hole Diameter by Dept Dia. (mm)		Casing [ epth (m) Dia. (mm)	Diameter by Depth Remarks
7/07/2024 07:30 7/07/2024 17:30	0.00	Start of shift Hole complete					
			<b>5</b> ( ) <b>1</b>	T ( )   ( )   ( )		Ided Records	
			From (m)	To (m) Volume (litre	98)	Remai	rks
	Depth Related Rema	arks	Chise	elling / Hard Boring De	etails	Drillin	ng Flush Details
rom (m) To (m)		emarks		To (m) Duration (hh:m			ns (%) Flush Colour
	Water Strikes		Manitorina	k Installation Dina Wee	de de	Ba	poldil Datolio
Date Strike (m) C	asing (m) Time (mins) Depth (m) Sealed (	(m) Remarks Type		g Installation Pipe Wor o (m) Dia(mm) Pipe Typ	pe Remarks Fro	om (m) To (m) Leg	ackfill Details gend Description 05 Arisings
epth (m) Type N	Value Casing (m) Water (m) SV	Sta WPen(mm) Blows1 Pen1(mm) Blows2	andard Penetration 2 Pen2(mm) Blow		s4 Pen4(mm) Blows	s5 Pen5(mm) Blows6 I	Pen6(mm) Hammer E. Ratio

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.



## **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC38 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Client:  $\mathsf{BAM}$ 

Engineer: Date Started: 17/07/2024

Project No: RGN.331V

Fairhurst

Survey Grid System: OSGB Co-ordinates:

233289.02 mE

829335.50 mN

220.96 mOD

Approved By:  $\mathsf{AH}$ 1:25

Log Status: DRAFT

- - deg. Print Date: 16/10/2024

Hole Type:

Checked By:

Date Completed: 17/07/2024				Inclinat	tion:				g	00 deg.	Final	Dept	h:		1.65m
		Depth			Sampli	ng, C	oring	and In S	itu Test	ing		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %		Water	Well/ Backfill
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots.  0.00 - 0.15m : Moist.  Firm to plastic dark brown slightly clayey pseudo-fibrous PEAT (H5-8, B3-4).  0.20 - 1.65m : Wet.	alte si le	-0.18	220.78												
Plastic dark brown to black clayey amorphous PEAT (H9, B4-5).	ance a street and a street a s	(0.55)	219.86												
1.65m : Refusal on hard base. / Terminated at 1.65m															
		- - - - - -													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



#### **Exploratory Information Sheet**

Location ID: PC38 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

Project No: Client: BAM

Engineer: Fairhurst

Date Started: 17/07/2024

Survey Grid System: OSGB LT521 - Bingally 400kv Substation

Co-ordinates: 233289.02 mE

829335.50 mN 220.96 mOD Checked By:

Hole Type:

Approved By:  $\mathsf{AH}$ 

Log Status: Print Date:

16/10/2024

RPC

DRAFT

SR

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 1.65m 17/07/2024

Ground Level:

Date Com	F		7/07/20										nation				•	ou deg.		ınaı Del	Juli.	1.65M
From (m) 0.00	To (m	)	Type RPC	Start	t	End		Plant	epth Re	lated	l Explor Barrel	atory H Dri	ole Info II Bit	ormat 	tion Rig (	Crew	Τ	Logger		1	Remark	(S
0.00	1.65		Borin	17/07/20	Progre	17/07/2024		sian Peat C	Corer			Hole	Diame	ter by	<i>y</i> Depth			SR		g Diamet	er by Depth	
Date 17/07/2024 17/07/2024	Time 07:30 17:30		epth (m) 0.00 1.65	Casing	(m) De	epth Water (i	Star	Remark t of shift complete	(S	De	epth (m)		(mm)		Rem	arks	Depth	(m) D	ia. (mm)		Remark	s
										Er	om (m)		/m)	1./-1	(lit)		er Added	Records		norko		
										F	om (m)				ne (litres)					narks		
From (m)	To (m)		Depth	Related		rks marks				Fr	om (m)				ing Deta	ils Tool	From (r	n) To (		illing Flus turns (%)	h Details Flush	Colour
			Wate	er Strikes					I		Monit	oring Ins	stallatio	n Pip	e Work					Backfill C	Details	
Date	Strike (m)	Casing (m	Time (mins)			n)	Remark	ks	Type P	ipe ID					ре Туре	Remarks	From (r 0.00	n) To (	(m) L	egend 905		ription
									Star	ndard	Penetr	ation Te	st Resu	ılts								
Depth (m)	Type N	<b>V</b> alue	Casing (r	n) Water	(m) SW	(Pen(mm) E	lows1	Pen1(mm)	Blows2	Pen	<u>(2(mm)</u>	Blows3	Pen3(i	mm)	Blows4	Pen4(mm)	Blows5 F	en5(mm	Blows	6 Pen6(r	nm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.



## **Exploratory Hole Log**

Ground Level:

Location ID: PC39 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Client:

Engineer: Fairhurst Date Started: 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 233367.93 mE

> 829401.72 mN 218.25 mOD

Approved By: ΑН Scale: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

e Completed: 17/07/2024				Inclinat	tion:				ç	90 deg.	Final	Dept	h:		1.65
		Depth	11		Sampli	ing, Co	oring	and In S	itu Tes	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfi
oongy brown fibrous PEAT (H3, B3) with many fine ots.  0.00 - 1.65m: Wet. rm to plastic dark brown clayey pseudo-fibrous PEAT 4-6, B3-4).	alka a kalka a alka a kalka a kalka a	0.19	218.06												
rm to plastic dark brown clayey amorphouse PEAT		0.41)	217.65												
9-10, B4-5).	2016 2 2016 2 2016 2 2016 2 2016 2 2016 2														
	2 2016. 2 2016. 2 2 2016. 2 2016. 2 2 2016. 2 2016. 2	(1.05) 													
1.65m : Refusal on hard base. /	2 2016. 2 2016. 2 2 2016. 2016. 2 2 2016.	1.65	216.60												
Terminated at 1.65m		- - - - -													
		_ _ _ _ _													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



### **Exploratory Information Sheet**

Location ID: PC39 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 17/07/2024 Survey Grid System: OSGB

Co-ordinates: 233367.93 mE

829401.72 mN

Checked By: SR Approved By:  $\mathsf{AH}$ 

218.25 mOD Log Status: PRELIM

RPC

Print Date:

Hole Type:

31/07/2024

Orientation: - - deg.

Date Completed: 17/07/2024 Inclination: 90 deg. Final Depth: 1.65m

Ground Level:

Date Com	npleted	: •	17/07/20	24									nation				ç	0 deg.	Fin	al Dep	oth:	1.65m
From (m)	To (	m)	Tyne	Start		End	1	Plant	epth Re	lated	d Explor Barrel	atory H	lole Info	ormat	tion Rig (	Crew		Logger			Remarl	(6
From (m) 0.00	To (1.6	5	Type RPC	17/07/20	24 17	/07/2024	Rus	ssian Peat 0		Ι.	Darrer	Dii	II DIL		rtig t	JICW		Logger SR			Teman	13
			Б.	D :III:								1	D:	<u> </u>	/ Depth				0 .	D:		
Date	Tim	ne D	epth (m)	g-Drilling Casing (	m) Dept	h Water (m	)	Remark	(S	De	epth (m)		(mm)	ler by		arks	Depth (	m) Dia	. (mm)	Diamete	er by Depth Remarl	(S
17/07/2024	07:3	30	0.00				Sta	rt of shift le complete			/		, ,									
17/07/2024	17:3	50	1.65				ПО	ie compiete														
																Wate	er Added I	Records		`		
										Fr	om (m)	То	(m)	Volur	ne (litres)				Rema	arks		
	1		Deptl	n Related	Remarks	3				$\vdash$	(	 Chisellir	ng / Har	d Bor	ing Deta	ils			Drilli	ng Flush	n Details	
From (m)	To (m)		1		Rem					Fr	om (m)				on (hh:mm)	Tool	From (n	n) To (m		rns (%)	Flush	Colour
			\\/	er Strikes							Monit	oring In	etalleti-	n Dir	e Work					ackfill D	otaile	
Date	Strike (m	n) Casing (m	) Time (mins)		Sealed (m)	F	Remar	rks	Type P	ipe ID					pe Type	Remarks	From (n	n) To (m			Desc	ription
												1					From (n 0.00	1.65	5 9	gend 905	Arisings	
		L																				
D	<b>-</b> '	N137 :	lo : :	Mac :	( ) le	, J		D 41	Star	ndard	Penetra	ation Te	st Resu	ılts	DI .	lp. 4/	N = 1-	F/ .T	DI . f	In a		F F # 21
Depth (m)	Type	N Value	Casing (	n) Water	(m) SWP	en(mm) Bl	ows1	Pen1(mm)	Blows2	Pen	12(mm)	RIOWS3	Pen3(	mm)	Blows4	Pen4(mm) E	siows5 P	en5(mm)	Blows6	Pen6(m	nm) Hammei	E. Ratio%
								1														
								1														
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1																						

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC40 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Client:  $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 17/07/2024 Survey Grid System: OSGB Co-ordinates:

233433.42 mE 829556.13 mN

209.81 mOD

Checked By:

Hole Type:

Approved By:  $\mathsf{AH}$ 1:25

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Date Completed: 17/07/2024				Inclina	tion:				g	00 deg.	Final	Deptl	h:		0.74
		Depth			Sampli	ing, Co	oring	and In S	itu Test	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfi
Spongy brown fibrous PEAT (H3, B2) with many fine	316 S	E													
roots. 0.00 - 0.22m : Moist.	sille s	F													
Firm dark brown clayey pseudo-fibrous PEAT (H5-7,	اد عالاد مالاد ه	0.22	209.59												
B2-3).	S 516	F													
0.22 - 0.74m : Wet.	316 3 8 316	(0.52)													
	316 3 8 316	+													
	316 S	F													
Terminated at 0.74m	2 8102	0.74	209.07												
ionimated at 0.7 mi		F													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



Date Completed:

Client:

### **Exploratory Information Sheet**

Ground Level:

Location ID: PC40 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

17/07/2024

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Date Started: 17/07/2024

Survey Grid System: OSGB

Co-ordinates: 233433.42 mE

829556.13 mN 209.81 mOD Checked By: SR Approved By: AH

Log Status:

t Date: 31/07/2024

RPC

PRELIM

Print Date:

Hole Type:

Orientation: -- deg.
Inclination: 90 deg. Final Depth: 0.74m

Date Completed:	17/07/2024			inclination		90 deg. Fin	1ai Depth: 0.74m
From (m) To (m) 0.00 0.74	Type Start RPC 17/07/2024	End Plant	epth Related Exp Barre	loratory Hole Info	ormation Rig Crew	Logger SR	Remarks
0.00 0.74	RPC 17/07/2024	17/07/2024 Russian Peat C	Corer			SR	
	Boring-Drilling Pro	droce		Holo Diamo	ter by Depth	Casing	Diameter by Depth
Date         Time           17/07/2024         07:30           17/07/2024         17:30	Depth (m)   Casing (m)   0.00   0.74	Depth Water (m) Remark Start of shift Hole complete	ss Depth (i		Remarks	Depth (m) Dia. (mm)	Remarks
			From (r	n) To (m)	Volume (litres)	er Added Records Rema	arks
			T Tom (i	, 10 (,	Volume (intest)	Kom	dr. No
From (m) To (m)	Depth Related Re	marks Remarks	/	Chiselling / Har	d Boring Details  Duration (hh:mm) Tool		ing Flush Details urns (%) Flush Colour
71011(11)		Ivellians	From (r				
Date Strike (m) C	Water Strikes asing (m) Time (mins) Depth (m) Seal	ed (m) Remarks	Mor Type Pipe ID From	nitoring Installatio	n Pipe Work nm) Pipe Type Remarks		Backfill Details egend Description
			Shadad Ba				
Depth (m) Type N	Value Casing (m) Water (m)	SWPen(mm) Blows1 Pen1(mm)	Blows2 Pen2(mn	etration Test Resum) Blows3 Pen3(	mm) Blows4 Pen4(mm)	Blows5 Pen5(mm) Blows6	Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC41 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No: Client:  $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 233632.50 mE

> 829596.88 mN 223.08 mOD

Approved By:  $\mathsf{AH}$ 1:25

Log Status: **PRELIM** 

- - deg. Print Date: 31/07/2024

Hole Type:

Checked By:

Date Completed: 16/07/2024				Inclinat	tion:				9	90 deg.	Final	Dept	h:		0.50m	1
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	ness)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
	Leg.    Solic 30   Sol	(Thick- ness) (m)	Level (m) 2222.98 2222.58	Depth	Sampli	Dia	Rec	Blows/	itu Test	ting	l	TCR SCR RQD	IFmin mm IFave mm IFmax mm	Water	Well/	

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

### **Exploratory Information Sheet**

Location ID: PC41 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 233632.50 mE

> 829596.88 mN 223.08 mOD

Approved By:  $\mathsf{AH}$ PRELIM

RPC

SR

Hole Type:

Checked By:

Log Status:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.50m 16/07/2024

Ground Level:

			10/01/20					D	epth Re	lated	Explor	atory Ho	ole Info	rmati	ion								
From (m) 0.00	To (	m) 50	Type RPC	Start 16/07/20		End 16/07/2024	Rus	Plant sian Peat C			Barrel		l Bit		Rig C	Crew		Logge SR	er			Remarks	
			Borin	a-Drillina	Progres	SS						Hole	Diame	ter bv	Depth				Cas	sing Diame	ter by D	epth	
Date 16/07/2024 16/07/2024	Tin 07: 17:	30	epth (m)				Star	Remark t of shift e complete	S	De	epth (m)	Dia.			Rem	arks	Depti	n (m) [	Dia. (mi			Remarks	
										En	ram (m)	I To	(m)	\ /= I	(lit)	Wat	ter Added	Records		omorko			
										FI	om (m)	10	(m)	voium	ne (litres)				K	emarks			
			Depti	n Related						_					ng Detai		_			Orilling Flus			
From (m)	To (m)		Depth Related Remarks Remarks  Water Strikes ing (m) Time (mins)Depth (m) Sealed (m) Remarks							Fr	om (m)				n (hh:mm)	Tool	From	(m) To	(m)	Returns (%)		ısh	Colour
Date	Strike (r	n) Casing (n			Sealed (m	1)	Remark	ks	Type Pi	ipe ID	Monito From (m	ring Ins	tallatio	n Pipe	e Work be Type	Remarks	From	(m) To	(m)	Backfill I Legend	Details	Descrip	otion
									Stan	ndard	Penetra	ation Tes	st Resu	ılts									
Depth (m)	Type								Blows2	Pen	2(mm)	Blows3	Pen3(ı	mm)		Pen4(mm)						-tammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Ground Level:

Location ID: PC42 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Fairhurst

Engineer: Date Started: 16/07/2024 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 233730.86 mE

> 829678.00 mN 219.53 mOD

Approved By:

Hole Type:

Checked By:

1:25

RPC

SR

ΑН

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Einal Donth 0.52m

ate Completed:	16/07/2024				Inclina	tion:				9	90 deg.	Final	Deptl	n:		0.52
			Depth			Sampli	ing, Co	oring	and In S	itu Test	ting		TCR	IFmin mm		
	Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfi
roots.	ous PEAT (H3, B2) with many fine  0.00 - 0.52m : Very moist.  ayey pseudo-fibrous PEAT (H5-7,	2016 8	0.14	219.39												
	0.52m: Refusal on hard base. Terminated at 0.52m	5, 31/6, 3	0.52	219.01												
			- - - -													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



### **Exploratory Information Sheet**

Location ID: PC42 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 16/07/2024

Survey Grid System: OSGB

Co-ordinates: 233730.86 mE

829678.00 mN 219.53 mOD Checked By: Approved By:

Log Status:

Hole Type:

Print Date: 31/07/2024

RPC

SR

 $\mathsf{AH}$ 

PRELIM

Orientation: - - deg.

Date Completed: 16/07/2024 Inclination: 90 deg. Final Depth: 0.52m

Ground Level:

	ipietea:		16/07/20	124								Inclir						o aeg.	1 11	nai Dep	JU1.	0.52m
From (m) 0.00	To (m	1)	Type RPC	Start		End	1	Plant	epth Re	lated E	l Explor Barrel	atory H	ole Info I Bit	rmati	ion Rig (	Crew		Logger SR		Т	Remark	S
0.00	0.52	!		Russ	ian Peat C	Corer			Holo	Diamo	tor by	Depth			SR		Diamet	er by Depth				
Date 16/07/2024 16/07/2024	7ime 07:30 17:30	0	Depth (m) 0.00 0.52	g-Drilling Casing (	m) Dep	pth Water (m	Start	Remark of shift complete	(S	De	epth (m)		(mm)	lei by	Rem	arks	Depth	(m) Di	a. (mm)		Remark	S
																Wate	er Added	Records				
										Fre	om (m)	То	(m)	Volum	ne (litres)				Rem	arks		
From (m)	To (m)		Depth	n Related		ks marks				Fre	om (m)				ng Detai	ils Tool	From (r	n) To (		ling Flus urns (%)	h Details Flush	Colour
			Wate		I			oring Ins		n Pine	e Work			,		Backfill D						
Date	Strike (m)	Casing (n				) F	Remarks	S	Type Pi	ipe ID					e Type	Remarks	From (r 0.00	n) To (	m) L	egend	Desc Arisings	iption
			Water Strikes  sing (m) Time (mins) Depth (m) Sealed (m) Ren  Ren  Yalue Casing (m) Water (m) SWPen(mm) Blows						Star	ndard	Penetr	ation Te	st Resu	ılts								
Depth (m)	Type	N Value	Casing (r	n) Water	(m) SWF	Pen(mm) Bi	ows1 F	Pen1(mm)	Blows2	Pen	2(mm)	Blows3	Pen3(i	mm) I	Blows4	Pen4(mm)	Blows5 P	en5(mm)	Blows6	Pen6(r	nm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC43 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 234020.15 mE

> 829780.86 mN 230.06 mOD

Approved By: ΑН 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Date Completed: 16/07/2024					Inclina						00 deg.		Dept		0.,,	0.47m	
			Depth				ng, Co	oring	and In S	itu Test	ting		TCR	IFmin mm			Τ
Stratum Descri	iption	Leg.	ness)	Level (m)	Depth (m)	T			1	Test	Test Res	sult Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	
Spongy brown fibrous PEAT (H2-roots.  (Firm dark brown clayey pseudo-f B2-3).	-4, B2) with many fine  2.00 - 0.47m : Very moist.  ibrous PEAT (H5-7,	316 3 316 3 316 3 316 3	(m) - - - - - - - - - - - - - - - - - - -	(m) 229.81	Depth (m)	T			Blows/ [mins]	Test	Test Res	sult Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



# **Exploratory Information Sheet**

Ground Level:

Orientation:

Location ID: PC43 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 234020.15 mE

> 829780.86 mN 230.06 mOD

Approved By:  $\mathsf{AH}$ PRELIM

Log Status:

Hole Type:

Checked By:

31/07/2024

RPC

SR

Print Date:

- - deg.

ate Started:		16/07/20	24						Orientatio				aeg.			
ate Completed	d:	16/07/20	24						Inclination	1:		90	deg.	Final De	pth:	0.47m
	, , ,					epth Re			ory Hole Inf		_					
om (m) To 0.00 0.4	(m) .47	Type RPC	Start 16/07/2024	End 16/07/2024	Plant Russian Peat Co	orer	Barı	el	Drill Bit	Rig	Crew	Lo	ogger SR		Remarl	KS
Date Tir 07/2024 07:	me		g-Drilling Pro Casing (m)	gress Depth Water (m)		S	Depth	(m)	Hole Diame Dia. (mm)	eter by Depth Ren	narks	Depth (m)			ter by Depth Remark	(S
07/2024 07: 07/2024 17:	7:30 7:30	0.47			Start of shift Hole complete											
							From	(m)	To (m)	Volume (litres)		er Added Red		Remarks		
							71011							Comunic		
om (m) To (m)		Depti	Related Rer	narks Remarks			From	Ch	niselling / Ha To (m)	rd Boring Deta	ails Tool	From (m)		Drilling Flus Returns (%)		Colour
()												(,	,	(-)		
Date Strike (i	()lo : /	Wate	er Strikes Depth (m) Seale		emarks	T In:	M	onitori	ing Installatio	on Pipe Work	Remarks	From (m)	To (m)	Backfill L Legend		ription
												0.00	0.47	905	Arisings	
oth (m) Type	N Value	e Casing (r	m) Water (m)	SWPen(mm) Blo	ows1 Pen1(mm)				ion Test Resilows3 Pen3		Pen4(mm) E	Blows5 Pen5	(mm) Blov	ws6 Pen6(r	mm) Hammei	r E. Ratio

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Ground Level:

Location ID: PC44 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Fairhurst

Engineer: Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 234069.62 mE

> 829906.20 mN 223.93 mOD

Approved By: Scale:

Hole Type:

Checked By:

1:25

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

ate Completed:	16/07/2024				Inclina	tion:					90 deg.	Final	Dept	h:		0.52m
			Depth				ing, Co	oring	and In S	itu Test	ting		TCR	IFmin mm		
	Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Depth (m)	Туре	1		Blows/ [mins]	Test	ting Test Resul	t Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill
oots.	us PEAT (H3-4, B2) with many fine  0.00 - 0.52m : Very moist.  yey pseudo-fibrous PEAT (H5-7,	4	(0.40)	223.81			,						70			
1	0.52m : Refusal on hard base. Ferminated at 0.52m	16 31/6 31/6	0.52	223.41												
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



### **Exploratory Information Sheet**

Ground Level:

Location ID: PC44 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 16/07/2024

Survey Grid System: OSGB

Co-ordinates: 234069.62 mE

> 829906.20 mN 223.93 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

PRELIM 31/07/2024

RPC

SR

Print Date:

Orientation: - - deg.

Date Cor	npleted	d: 1	16/07/20	24						nation:			9	90 deg.	Fin	al Dept	h:	0.52m
From (m)	То	(m)	Type	Start	End		Depth Re	lated Explo Barrel	ratory H	ole Infor	mation Rig (	Crew		Logger			Remark	(S
0.00	0.8	52	Type RPC	16/07/2024	16/07/2024	Russiar	n Peat Corer	Barrer		T Dit	rug	Siew		Logger SR			Remain	
			Boring	g-Drilling Pro	gress				Hole	Diamete	r by Depth				Casing	Diameter	r by Depth	
Date 16/07/2024 16/07/2024	Tir 07:	30	epth (m) 0.00 0.52	Casing (m)	Depth Water (	Start of Hole co	Remarks f shift omplete	Depth (m	) Dia.	(mm)	Rem	arks	Depth	(m) Dia	a. (mm)		Remark	KS .
												Wat	er Added	Records				
								From (m)	To	(m) V	olume (litres)				Rema	arks		
From (m)	To (m)		Depth	Related Rer	narks Remarks			From (m)		g / Hard (m)	Boring Deta	ils Tool	From (r	m) To (r		ng Flush	Details Flush	Colour
Date	Strike (ı	n) Casing (m		r Strikes Depth (m) Seale	d (m)	Remarks	Туре Р	Moni ipe ID From (i	toring Ins	stallation	Pipe Work Pipe Type	Remarks	From (r 0.00		Bm) Le	ackfill Degend 905 A	etails Desc Vrisings	ription
							Sta	ndard Penet	ration Te	st Result	s							
Depth (m)	Type	N Value	Casing (n	n) Water (m)	SWPen(mm) E	Per	n1(mm) Blows2	Pen2(mm)	Blows3	Pen3(m	m) Blows4	Pen4(mm)	Blows5 F	Pen5(mm)	Blows6	Pen6(mr	n) Hammei	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC45 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

 $\mathsf{BAM}$ 

Client: Fairhurst

Engineer: Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 234404.30 mE

> 830159.44 mN 221.00 mOD

Approved By:  $\mathsf{AH}$ 1:25

Hole Type:

Checked By:

RPC

SR

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Date Completed: 16/07/2024				Inclinat	ion:				g	00 deg.	Final	Dept	h:		0.50m	۱
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots.  0.00 - 0.50m: Very moist.  Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B3).	316 3 2 316 3 216 3 2 316 3 216 3	0.14	220.86													
Plastic dark brown clayey amorphous PEAT (H9, B4).  0.50m: Refusal on hard base.  Terminated at 0.50m	2 27/6	- 0.40  0.50 - - -	220.60 220.50													4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



Client:

### **Exploratory Information Sheet**

Location ID: PC45 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V BAM

Engineer: Fairhurst Date Started: 16/07/2024 Survey Grid System: OSGB

Co-ordinates: 234404.30 mE

> 830159.44 mN 221.00 mOD

Approved By:  $\mathsf{AH}$ PRELIM

Log Status:

Hole Type:

Checked By:

Print Date: 31/07/2024

RPC

SR

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.50m 16/07/2024

Ground Level:

								Depth	Relat	ted Exploi									
From (m)	To (	m)	Туре	Start		End		Plant		Barrel	Dril	l Bit	Rig	Crew		Logger SR		Remar	ks
0.00	0.5	0	RPC	16/07/202	24   16	5/07/2024	Russian	Peat Corer								SR			
	-			g-Drilling I					_	<b>.</b>			er by Depth		5 0 /			eter by Depth	
Date 16/07/2024	Tin 07:	ne De	epth (m) 0.00	Casing (i	n) Dept	th Water (m	Start of	Remarks	_	Depth (m)	Dia.	(mm)	Ren	narks	Depth (r	n) Dia. (	(mm)	Remar	ks
16/07/2024	17:		0.50				Hole cor												
									-					Wat	er Added R	ecords			
							1			From (m)	То	(m)	Volume (litres)				Remarks		
1										,		- 1	,						
							1												
							1												
							1												
			Donth	Related	Pemark				+		Chicollin	g / Hara	Boring Dota	l			Drilling Ele	ush Details	
From (m)	To (m)		Depth	Related	Rem				-	From (m)			Boring Deta Duration (hh:mm		From (m	) To (m)			Colour
1 10111 (111)	10 (111)				rtom	idiko				1 10111 (111)	10	()	Daration (mi.min	1001	T TOTT (III	) 10 (111)	rteturis (7	1 14511	Colour
																			1
																			1
																			1
																			1
																			1
																			1
		1	Wate	r Strikes						Monit	oring Ins	tallation	n Pipe Work	1		-1	Backfil	l Details	1
Date	Strike (r	n) Casing (m)			ealed (m)		Remarks	Туре	Pipe				m) Pipe Type	Remarks	From (m		Legend	Des	cription
															0.00	0.50	905	Arisings	
	1					l			tand	ard Penetr	ation Tes	t Resul	lts.	I	1			1	
Depth (m)	Туре	N Value	Casing (n	n) Water (	m) SWP	en(mm) BI	ows1 Pen							Pen4(mm)	Blows5 Pe	n5(mm) B	lows6 Pen6	6(mm) Hamme	r E. Ratio%
1 . ()	311-			1	1		1.5	, ,,		,/			1	()		, 5	1 2.11	, , , , , , , , , , , , , , , , , , , ,	
				1															
				1														1	

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC46 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234371.95 mE

> 830255.58 mN 209.20 mOD

Approved By: ΑН 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

Print Date: 31/07/2024

- - deg.

ate Completed: 04/07/2024				Inclinat	ion:				9	90 deg.	Final	Dept	h:		1.30r
		Depth			Sampli	ng, Co	oring	and In S	itu Test	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfil
Spongy brown fibrous PEAT (H3-4, B2) with many fine oots.  0.00 - 0.30m : Moist.	2 8 6 E	(0.30)													
Firm dark brown clayey fibrous PEAT (H5, B3) with requent fine roots.  0.30 - 1.30m : Wet.	alk a  5 alk alk a  6 alk alk a  6 alk alk alk alk alk alk alk	- 0.30      (0.62)	208.90												
Plastic dark grey pseudo-amorphous PEAT (H7-H8, B3)	alic a alic a alic a alic a alic a	_	208.28												
occasionally interlayered with dark grey amorphous peat.	sile s	(0.38)  	207.90												
1.30m : Refusal on hard base. / Terminated at 1.30m		- - - - -													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



# **Exploratory Information Sheet**

Ground Level:

Location ID: PC46 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

BAM

Engineer: Fairhurst Date Started:

Project No: RGN.331V Client:

04/07/2024

Survey Grid System: OSGB

Co-ordinates: 234371.95 mE

> 830255.58 mN 209.20 mOD

Approved By:  $\mathsf{AH}$ Log Status: PRELIM

Hole Type:

Checked By:

RPC

SR

Print Date: 31/07/2024

Orientation: - - deg.

Date Cor	mpleted:	04/07/20	024					Inclinatio			90	deg. F	inal Dep	oth:	1.30m
From (m) 0.00	To (m)	Type RPC	Start	End	Plant	Relat	ted Explora Barrel	tory Hole Ir Drill Bit	formation Ri	g Crew	Lo	ogger SR		Remarl	<s< td=""></s<>
0.00	1.30	RPC	04/07/2024	04/07/2024	Russian Peat Corer							ŜR			
		Borir	ng-Drilling Pro	drees				Hole Diam	eter by Dept	h		Casin	a Diamete	er by Depth	
Date 04/07/2024 04/07/2024	Time 4 07:30 4 17:30	Depth (m) 0.00 1.30	Casing (m)	gress Depth Water (m	Remarks Start of shift Hole complete		Depth (m)	Dia. (mm)	R	emarks	Depth (m)			Remark	(S
							From (m)	To (m)	Volume (litre		er Added Red		narks		
								()	voidino (max			1.0.			
From (m)	To (m)	Dept	h Related Re	narks Remarks			From (m)	hiselling / Ha	ard Boring De	etails nm) Tool	From (m)	To (m) Re	illing Flush	n Details Flush	Colour
Date	Strike (m) Cas	Wat sing (m) Time (mins	ier Strikes Depth (m) Seal	ed (m) F	Remarks Type	e Pipe	Monito	ring Installat	ion Pipe Wor (mm) Pipe Tyr	k De Remarks	From (m) 0.00	To (m) 1 1.30	Backfill De Legend 905 ,		ription
Depth (m)	Type N V	alue Casing (	m) Water (m)	SWPen(mm) Blo	ows1 Pen1(mm) Blov			tion Test Re		s4 Pen4(mm)	Blows5 Pens	5(mm) Blows	6 Pen6(m	nm) Hamme	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Ground Level:

Location ID: PC47 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234412.75 mE

> 830343.11 mN 206.10 mOD

Approved By:

Scale:

Hole Type:

Checked By:

1:25

Log Status:

**PRELIM** 

RPC

SR

ΑН

Orientation: - - deg. Print Date: 31/07/2024

te Completed: 04/07/2024				Inclina	tion:				g	00 deg.	Fina	l Dep			0.08n
		Depth				ng, Co	oring	and In S							
Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Depth (m)	T	1	1	Blows/ [mins]	Test	Test Res	sult Unit	SCF RQE %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill
OPSOIL: Dark brown clayey fine SAND. 0.00 - 0.08m : Moist. 0.08m : Refusal on hard base.  Terminated at 0.08m		0.08	206.02												
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		E													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



### **Exploratory Information Sheet**

Location ID: PC47 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Client: BAMEngineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234412.75 mE

> 830343.11 mN 206.10 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

RPC

PRELIM

Log Status:

Hole Type:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.08m 04/07/2024

Ground Level:

Date Con	ipietec	1.	04/07/20	24					inclination			90 deg	. FIIIai	реріп:	0.08m
From (m)							Depth Re	elated Explor	atory Hole Inf Drill Bit	ormation	Crew	Logger	r	Remark	•
From (m) 0.00	0.0	08	RPC	04/07/2024	04/07/2024	Russian P	eat Corer	Dailei	Dilli Dit	TXIG	CIEW	Loggei SR		Remark	.5
			Parin	g-Drilling Pro	arooo				Hala Diama	ter by Depth			Casing Di	ameter by Depth	
Date	Tin	ne D	Doning	Casing (m)	Depth Water (r	n) Rei	narks	Depth (m)			narks	Depth (m) D		Remark	s
04/07/2024 04/07/2024	07:	30	0.00		Depth Water (r	Start of sh	ft					= -р () =			
04/07/2024	17:	30	0.08			Hole comp	lete								
											\Moto	er Added Records			
								From (m)	To (m)	Volume (litres)		a Added Records	Remark	s	
									,	volumo (maso)			rtomani		
1															
1															
			Depth	n Related Rer	narks			1	_  Chiselling / Hai	ı rd Borina Deta	ıils		Drillina	Flush Details	
From (m)	To (m)				Remarks			From (m)	To (m)	Duration (hh:mm)	Tool	From (m) To			Colour
			Wate	er Strikes				Monito	oring Installation	n Pipe Work	1		Bacl	kfill Details	
Date	Strike (r	n) Casing (n	n) Time (mins)	Depth (m) Seale	ed (m)	Remarks	Type F	Pipe ID From (m	oring Installation) To (m) Dia(r	nm) Pipe Type	Remarks	From (m) To	(m) Lege	nd Descr	iption
												0.00 0.	08 905	5 Arisings	
Depth (m)	Time	N Value	Casing /r	m) Matar (m)	ewpon/mm\ E	loured Donal	Sta	ndard Penetra	ation Test Res	ults	Don4/mm) [	Blows5 Pen5(mm	) Blower De	en6(mm) Hammer	E. Ratio%
Depth (m)	туре	in value	Casing (r	n) vvater (m)	SwPen(mm) E	lows i Pen i(	nm) Blows2	Penz(mm)	Blows3 Pensi	(mm) Blows4	Pen4(mm) E	Blows5 Pen5(mm	) Blowso Pe	eno(mm) Hammer	E. Rallo%
1															

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Ground Level:

Location ID: PC48 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 04/07/2024

LT521 - Bingally 400kv Substation

Survey Grid System: OSGB Co-ordinates:

234475.43 mE 830258.93 mN

Checked By:

Hole Type:

Approved By:  $\mathsf{AH}$ 

221.57 mOD

1:25

RPC

SR

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Final Denth 0.10m

0 1 1 1 0 1 10 7 10 0 0 1									_	o .					
e Completed: 04/07/2024				Inclinat								Dept			0.10
		Depth	Love		Sampli	ng, Co		and In S	itu Test	ing		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	ing Test Result	Units	RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfi
PSOIL: Brown clayey fine SAND.															
0.00 - 0.10m : Moist.		- 0.10 -	221.47												V/A//
0.10m : Refusal on hard base. / Terminated at 0.10m		_													
Terminated at 0. Term															
		_													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

### **Exploratory Information Sheet**

Location ID: PC48 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234475.43 mE

> 830258.93 mN 221.57 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

PRELIM Print Date: 31/07/2024

RPC

SR

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.10m 04/07/2024

Ground Level:

Date Con	ibieiec	1:	04/07/20	24					inclination			90 deg.	Finai Dep	uı.	U. TUM
From (m)						Pla	Depth Re	elated Explora	atory Hole Info Drill Bit	ormation Rig Crew		Logger		Remarks	
From (m) 0.00	0.	10	RPC	04/07/2024	04/07/2024	Russian Pea	t Corer	Darrei	Dilli bit	Tilg Clew		Logger SR		Remarks	,
			Parin	g-Drilling Pro	arooo				Hole Dieme	ter by Depth		Coo	ing Diamete	r by Donth	
Date	Tir	ne [	Depth (m)	Casing (m)	Depth Water (r	n) Rem	arks	Depth (m)		Remarks	Dep	th (m) Dia. (mr		Remarks	
04/07/2024 04/07/2024	07:	30	0.00		Depth Water (r	Start of shift		()				()	.,		
04/07/2024	17:	30	0.10			Hole comple	te								
											Water Adde	nd Popords			
								From (m)	To (m)	Volume (litres)	Water Adde		emarks		
										(					
1															
			Depth	n Related Rer	narks			(	L Chiselling / Har	d Boring Details		Γ	rilling Flush	Details	
From (m)	To (m)				Remarks			From (m)	To (m)	Duration (hh:mm) To	ol From		Returns (%)	Flush	Colour
		_	Wate	er Strikes				Monito	ring Installatio	n Pipe Work			Backfill De	etails	
Date	Strike (r	n) Casing (r	m) Time (mins)	Depth (m) Seale	ed (m)	Remarks	Type P	ipe ID From (m	) To (m) Dia(n	on Pipe Work	arks From	n (m) To (m)	Legend	Descri	ption
											0.0	0.10	905	Arisings	
Depth (m)	Type	N Value	Casing (r	m) Water (m)	SWPen/mm\ F	lowe1 Pen1/m	Stai	Den2(mm)	ation Test Resu	uits [mm) Blows4 Pen4(i	nm) Blowe5	Pen5(mm) Blow	re6   Pan6/m	m) Hammer	E. Ratio%
Deput (III)	турс	14 Value	, Casing (i	II) Water (III)	OVVI CII(IIIII) E	iows i remi(iii	III) DIOW32	1 6112(11111)	biowso i eno(	(IIIII) blows4   cli4(I	IIII) Diowso	I ens(mm) blow	130  1 6110(111	iii) Hailiilei	L. Italio70

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC49 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Project No:

Engineer: Fairhurst

Client: BAM

Date Started: 04/07/2024 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234587.79 mE

> 830486.52 mN 189.19 mOD

Approved By: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Einal Donth 1 60m

Date Completed: 04/07/2024				Inclinat	ion:				9	00 deg.	Final	Deptl	n:		1.60m
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm		
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm	Water	Well/ Backfill
Spongy brown to dark brown fibrous PEAT (H3-H4, B2) with many fine roots.  0.00 - 0.22m : Moist.  Firm dark brown clayey pseudo-fibrous PEAT (H6-8, B3-4).  0.22 - 1.60m : Wet.	3/16 3 16 3/16 3 16 3/16 3 16 3/16 3 16 3/16 3 16 3/16 3 16 3/16 3 16 3/16 3		188.97												
Firm dark greyish brown amorphous PEAT (H9, B4).		(0.83)	188.14												
1.60m : Refusal on stiff base. / Terminated at 1.60m	t. 2016. 2016. 2	1.60	187.59												
		- - - -													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



### **Exploratory Information Sheet**

Location ID: PC49 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234587.79 mE

> 830486.52 mN 189.19 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

RPC

PRELIM

Log Status:

Hole Type:

Print Date: 31/07/2024

Orientation: - - deg.

Ground Level:

Pate Completed:	04/07/2024			clination:	90 deg. Fin	nal Depth: 1.60m
ate Completed.	04/07/2024	Denth Re		Hole Information	90 deg. Till	1.00m
From (m) To (m) 0.00 1.60	Type Start RPC 04/07/2024	End Plant		Orill Bit Rig Crew	Logger SR	Remarks
	Boring-Drilling Pro	ogress	Ho	ole Diameter by Depth	Casing	Diameter by Depth
Date Time 4/07/2024 07:30 4/07/2024 17:30	Depth (m) Casing (m) 0.00 1.60	Depth Water (m) Remarks Start of shift Hole complete		ia. (mm) Remarks		Remarks
					Water Added Records	
			From (m)	To (m) Volume (litres)	Rema	arks
rom (m) To (m)	Depth Related Re	emarks Remarks		Iling / Hard Boring Details To (m) Duration (hh:mm)		ing Flush Details ums (%) Flush Colour
Date Strike (m) Casin	Water Strikes g (m) Time (mins) Depth (m) Sea	ied (m) Remarks Type P		Installation Pipe Work (m) Dia(mm) Pipe Type Re	emarks From (m) To (m) Le	Backfill Details egend Description 905 Arisings
					0.00	Allenge
		Sta	ndard Penetration	Toot Popults		
epth (m) Type N Val	lue Casing (m) Water (m)	SWPen(mm) Blows1 Pen1(mm) Blows2			4(mm) Blows5 Pen5(mm) Blows6	Pen6(mm) Hammer E. Ratio

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC50 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234658.64 mE

830558.28 mN

Approved By: ΑН 1:25

199.75 mOD Scale:

Hole Type:

Checked By:

**PRELIM** 

RPC

SR

Log Status:

- - deg. Print Date: 31/07/2024

e Completed: 04/07/2024				Inclina	tion:				ç	00 deg.	Final	Dept	h:		0.10r
		Depth				ing, Co	oring	and In S							
Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Depth (m)	Туре			Blows/ [mins]	Test	ing Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfil
rk brown silty fine to medium SAND.						,		. ,				70			
0.00 - 0.10m : Moist. 🖟		0.10	199.65												V/X\\V
0.10m : Refusal on hard base. / Terminated at 0.10m		_													
		_													
		L													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



### **Exploratory Information Sheet**

Ground Level:

Orientation:

Location ID: PC50 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAMEngineer: Fairhurst

Date Started: 04/07/2024

Date Completed: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234658.64 mE

> 830558.28 mN 199.75 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Log Status:

Hole Type:

PRELIM 31/07/2024

RPC

SR

Print Date: - - deg.

Inclination: 90 deg. Final Depth: 0.10m

	•	04/01/20	, <u>,</u>			Depth Rel	ated Explora	tory Hole Info	ormation			9-			
From (m)	To (m) 0.10	Type RPC	Start	End		Plant	Barrel	Drill Bit	Rig	Crew	L	ogger SR		Remarks	3
0.00	0.10	RPC	04/07/2024	04/07/2024	Russian	Peat Corer						SR			
		Borir	ng-Drilling Pro	gress				Hole Diame	ter by Depth			Casing	Diamete	r by Depth	
Date 04/07/2024	7ime 07:30	Depth (m)	Casing (m)	Depth Water (r	n) F Start of	Remarks	Depth (m)	Dia. (mm)	Ren	narks	Depth (m	) Dia. (mm)		Remarks	3
04/07/2024	17:30	0.10			Hole co										
							From (m)	To (m)	Iv-1 (it)		er Added Re		norko		
							From (m)	To (m)	Volume (litres)			Ren	narks		
		Dent	h Related Rer	marks				hiselling / Har	d Boring Deta	 aile		Dril	ling Flush	Details	
From (m)	To (m)	Бері	II Neialeu Nei	Remarks			From (m)	To (m)	Duration (hh:mm	Tool	From (m)	To (m) Ret	urns (%)	Flush	Colour
							\ /		,			` /	. ,		
	Water Strikes  Strike (m) Casing (m) Time (mins) Depth (m) Sealed (m) Rem			Monito	ring Installatio	n Pine Work				Backfill De	tails				
Date	Strike (m) Ca	Water Strikes  ke (m) Casing (m) Time (mins) Depth (m) Sealed (m) Remarks	Type Pip	pe ID From (m)	To (m) Dia(n	n Pipe Work	Remarks	From (m)		egend	Descri	ption			
											0.00	0.10	905 A	Arisings	-
						Ston	dard Danatra	tion Test Resu	ulto						
Depth (m)	Type N	Value Casing (	m) Water (m)	SWPen(mm) P	lows1 Per	n1(mm) Blows2	Pen2(mm) F	lion lest Rest	mm) Blows4	Pen4(mm) F	Blows5 Pen	5(mm) Blows6	Pen6(mi	m) Hammer	E. Ratio%
Dopar (III)	турс 11	value   Casing (	m) water (m)	o	101101	H(HIII) BIOWSE	r criz(mm) L	nowso i cho(	min) biows-	i cri+(iiiii) i	5104450 1 011	O(IIIII) Blowse	Z I CHO(IIII	Tidillinoi	E. Ratio /
1	1													1	1

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC51 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Project No: RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Date Completed: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234577.63 mE

> 830656.88 mN 171.78 mOD

Approved By: 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

31/07/2024

Orientation: - - deg. Print Date: Inclination: 90 deg Final Depth: 0.08m

Stratum Description    Light brown fine SAND.   200 - 208m   Most   Terminated at 0.08m   Refusal on herd base.	Date Completed: 04/07/2024				Inclina	tion:				ξ	00 deg.		Dept			0.08m	n
Light brown fine SAND.  0.00 - 0.08m : Moist.  0.08m : Refusal on hard base.			Depth			Sampli	ng, C	oring :	and In S	itu Tesi	ting		TCR	IFmin mm			T
Light brown fine SAND.  0.00 - 0.08m : Moist.  0.08m : Refusal on hard base.	Stratum Description	Leg.	ness)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	
	Stratum Description  Light brown fine SAND.  0.00 - 0.08m : Moist. 0.08m : Refusal on hard base.	Leg.	ness) (m)	(m)	Depth (m)	Sampli			1	Situ Test	ting				Water	Well/ Backfill	ם

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



Client:

### **Exploratory Information Sheet**

Location ID: PC51 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Date Started: 04/07/2024

Survey Grid System: Co-ordinates:

OSGB 234577.63 mE

> 830656.88 mN 171.78 mOD

Approved By:  $\mathsf{AH}$ PRELIM

Log Status:

Hole Type:

Checked By:

Print Date: 31/07/2024

RPC

SR

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.08m 04/07/2024

Ground Level:

			1011202					D	epth Re	lated	Explor	atory Ho	ole Info	rmation					·		
From (m) 0.00	To (m) 0.08	T	ype PC	Start 04/07/20	024 04	End 4/07/2024	Rus	Plant ssian Peat C			Barrel		l Bit		g Crew		Logg SR	er		Remark	S
Date	Time	Dep	Boring th (m)	-Drilling Casing (	Progres (m) Dep	s th Water (	m)	Remark	(S	De	epth (m)	Hole Dia.	Diamet (mm)	er by Dep R	h emarks	Dep	th (m)	Casi Dia. (mm		er by Depth Remark	s
04/07/2024 04/07/2024	07:30 17:30		.00 .08					rt of shift e complete													
										Fn	om (m)	To	(m)	Volume (litr		/ater Adde	d Record		marks		
											···· (····)		()	voidino (iid					ano		
			Depth	Related	Remark	s					(	Chisellin	n / Hard	Boring D	etails			D	rilling Flusl	h Details	
From (m) To	o (m)		2 opui	· tolatou		narks				Fr	om (m)			Duration (hh:r		From	(m) To	o (m) R	eturns (%)	Flush	Colour
Date Str	trike (m) C	aeina (m) T		r Strikes	Sealed (m)		Remar	ke	Type P	ine ID	Monito	oring Ins	tallation	Pipe Wo	k pe Remarl	s From	(m) T	o (m)	Backfill D Legend		ription
									Char												
Depth (m) Typ	ype N	Value C	asing (m	) Water	(m) SWF	Pen(mm)	Blows1	Pen1(mm)	Blows2	Pen	2(mm)	ation Tes Blows3	Pen3(n	nm) Blow	94 Pen4(mn	n) Blows5	Pen5(m	m) Blows	s6 Pen6(n	nm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC52 Sheet 1 of 1

RPC

SR

ΑН

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Client: Engineer: Fairhurst Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234824.19 mE

> 830769.11 mN 174.79 mOD

Approved By: 1:25

Scale:

Hole Type:

Checked By:

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024

Ne Started: 04/07/2024				Orienta								Date:		31/0	0.01
ate Completed: 04/07/2024	1			Inclina							Finai	Dept			0.85
Stratum Description	Leg.	Depth (Thick- ness)	Level (m)	Depth		Dia	Rec	and In S			l le:4		IFmin mm IFave mm IFmax mm or [FI]	Water	Wel Back
		(m)	(111)	(m)	Type	(mm)	%	[mins]	Test	Test Result	Units	%	or [FI]		Daoit
spongy brown fibrous PEAT (H3-4, B2) with many fine bots.	alta s a alta	_													
0.00 - 0.85m : Very moist.	316 S	(0.38)													
	alta si	Ė ĺ													
irm dark brown clayey fibrous PEAT (H5-7, B3-4) with	shte s	0.38	174.41												
requent fine roots.	a alla alla s	F													
irm dark grey clayey amorphous PEAT (H9, B4).	salts s	0.62	174.17												
illi dark grey dayey amorphous FEAT (119, 64).	د ماند ماند د	F													
0.05m , Defined on head been	5 SIG	0.85	173.94												
0.85m : Refusal on hard base. Terminated at 0.85m	1	F													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks



Client:

### **Exploratory Information Sheet**

Location ID: PC52 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234824.19 mE

> 830769.11 mN 174.79 mOD

Checked By: SR Approved By:  $\mathsf{AH}$ 

RPC

PRELIM

Hole Type:

Log Status:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.85m 04/07/2024

Ground Level:

								D	epth Re	lated	Explor	atory Ho	ole Info	rmation								
From (m) 0.00	To (m) 0.85	T	ype	Start 04/07/20	24 04	End 4/07/2024	L Rus	Plant ssian Peat C			Barrel		l Bit		Rig C	Crew		Loggei SR	r		Remar	KS
0.00	0.65		(PC	04/07/20	24 02	4/07/2024	Kus	ssian Peat C	orei									or.				
			Borino	g-Drilling	Progress	s						Hole	Diamet	er by De	epth				Casin	g Diamete	er by Depth	
Date 04/07/2024	Time 07:30		oth (m) 0.00	Casing (	m) Dep	th Water (	Sta	Remark rt of shift	S	De	epth (m)	Dia.	(mm)		Rem	arks	Depth	(m) D	ia. (mm)		Remarl	(S
04/07/2024	17:30		).85				Hol	e complete														
										Fr	om (m)	То	(m)	Volume (	litres)	Wate	er Added	Records		narks		
			Depth	Related								     Chiselling							Dri	lling Flush	n Details	
From (m) To	o (m)					narks		<u> </u>		Fr	om (m)	То	(m)	Duration (h	nh:mm)	Tool	From (	m) To	(m) Rei	turns (%)	Flush	Colour
Date Str	strike (m) C	Casing (m)	Wate ime (mins)	r Strikes Depth (m)	Sealed (m)		Remar	·ks	Type Pi	ipe ID	Monitor From (m	oring Ins	tallation  Dia(mr	n Pipe W	/ork Type	Remarks	From (	m) To		Backfill D egend		ription
									Stor	dord	Donotre	ntion Too	at Booul	lto								
Depth (m) Ty	ype N	Value 0	Casing (m	n) Water	m) SWP	en(mm) [	Blows1	Pen1(mm)	Blows2	Pen	2(mm)	ation Tes Blows3	Pen3(n	nm) Blo	ws4	Pen4(mm)	Blows5	Pen5(mm	) Blows	6 Pen6(m	nm) Hamme	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Ground Level:

Location ID: PC53 Sheet 1 of 1

RPC

SR

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst

Date Started: 04/07/2024 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234751.77 mE

830776.93 mN

Approved By: ΑН

168.46 mOD

Hole Type:

Checked By:

Scale: 1:25

Log Status: **PRELIM** 

Orientation: - - deg. Print Date: 31/07/2024 Inclination: 90 deg Final Depth: 0.20m

e Completed: 04/07/2024				Inclina							Final			01/0	0.20r
		Denth				ina Ca	orina	and In S	itu Test	tina		TOP			0.20.
Stratum Description	Leg.	Depth (Thick- ness)	Level (m)	Depth (m)	Туре	Dia (mm)		Blows/ [mins]	Test	ting Test Result	Units	SCR RQD	IFmin mm IFave mm IFmax mm	Water	Well/ Backfil
oongy brown fibrous PEAT (H2-3, B2) with many fine ots.	sales s sale	(m)	100.01	(111)		(111111)	70	[mins]				%	or [FI]		
0.00 - 0.20m : Moist. m dark brown clayey fibrous PEAT (H6, B3) with		0.15 0.20	168.31 168.26												
guent fine roots.		E													
0.20m : Refusal on hard base. Terminated at 0.20m		E													
		-													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



### **Exploratory Information Sheet**

Location ID: PC53 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024

Survey Grid System: OSGB

Co-ordinates: 234751.77 mE

830776.93 mN 168.46 mOD Checked By: SR Approved By: AH

RPC

PRELIM

Log Status:

Hole Type:

Print Date: 31/07/2024

Orientation: - - deg.

Date Completed: 04/07/2024 Inclination: 90 deg. Final Depth: 0.20m

Ground Level:

	•	04/01/20	,			Depth Re	lated Explora	tory Hole Info	ormation			9-			
From (m)	To (m) 0.20	Type RPC	Start	End	Pl	ant	Barrel	Drill Bit	Rig	Crew	L	ogger SR		Remarks	S
0.00	0.20	RPC	04/07/2024	04/07/2024	Russian Pe	at Corer						SR			
		Borir	ng-Drilling Pro	gress					ter by Depth					r by Depth	
Date 04/07/2024	7ime 07:30	Depth (m)	Casing (m)	Depth Water (r	n) Rem Start of shif	arks	Depth (m)	Dia. (mm)	Rer	narks	Depth (m)	Dia. (mm)		Remarks	3
04/07/2024	17:30	0.20			Hole comple										
							From (m)	To (m)	N/-1 (lit)		er Added Re		orko		
							From (m)	To (m)	Volume (litres)	)		Rem	arks		
		Dont	h Related Rei	marke			-	 hiselling / Har	rd Boring Date	l nile	I	Dell	ing Flush	Details	
From (m)	To (m)	Бері	II Kelaleu Kel	Remarks			From (m)	To (m)	Duration (hh:mm	) Tool	From (m)	To (m) Retu	ırns (%)	Flush	Colour
								,	`	,		(,			
		Wat	er Strikes				Monito	ring Installatio	n Pine Work				Backfill De	tails	
Date	Strike (m) Ca	asing (m) Time (mins	Depth (m) Seal	ed (m)	Remarks	Type P	Monito ipe ID From (m)	To (m) Dia(n	nm) Pipe Type	Remarks	From (m)		egend	Descri	iption
											0.00	0.20	905 A	Arisings	
						C4=-	ndard Penetra	1 T4 D	.14-						
Depth (m)	Type N\	Value Casing (	m) Water (m)	SWPen(mm) B	lows1 Pen1(n	Star 2m) Blows	Pen2(mm) F	tion Test Rest Blows3 Pen3/	mm) Blows4	Pen4(mm)	Blows5 Pen	5(mm) Blows6	Pen6(mr	m) Hammer	E. Ratio%
Dopur (III)	Type II	value   Casing (	m) water (m)	ovvi on(min) b	10461 1 0111(11	III) BIOWSZ	T CHZ(HIII)	Siowso i cho	,IIIII) DIOWS4	i chi-(min) i	5101130 1 011	B(IIIII) BIOWSO	1 0110(1111	ii) Hamilei	E. Ratio /
															1
1 1															1

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC54 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Date Completed: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 234478.12 mE

> 830787.47 mN 155.53 mOD

Approved By:

Scale:

Hole Type:

Checked By:

1:25 **PRELIM** 

RPC

SR

ΑН

Log Status: Print Date: 31/07/2024

- - deg. Inclination: 90 deg. Final Depth: 0.05m

te Completed: 04/07/2024				Inclina	tion:				6	00 deg.	Final	Dept	n:		0.05
		Depth			Sampli	ng, Co	oring	and In S	itu Test	ing		TCR			
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %		Water	Well/ Backfi
own fine to medium SAND.	1.230.2	0.05	155.48	, ,		, ,						/*			
0.05m : Refusal on boulde	ers at surface.	-													
Terminated at 0.05m		F													
		E													
		-													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks



### **Exploratory Information Sheet**

Location ID: PC54 Sheet 1 of 1

Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 04/07/2024

Survey Grid System: OSGB LT521 - Bingally 400kv Substation

Co-ordinates: 234478.12 mE

> 830787.47 mN 155.53 mOD

Approved By:  $\mathsf{AH}$ PRELIM

Log Status:

Hole Type:

Checked By:

Print Date: 31/07/2024

RPC

SR

Orientation: - - deg.

Date Completed: Inclination: 90 deg. Final Depth: 0.05m 04/07/2024

Ground Level:

								D	epth Re	lated	Explor	atory Ho	ole Info	rmat	ion								
From (m)	To (n	n)	Type RPC	Start		End		Plant			Barrel		l Bit	imat	Rig C	Crew		Loggei SR	r	I		narks	
0.00	0.05	·	RPC	04/07/20	)24   (	04/07/2024	1 Rus	ssian Peat C	Corer									SR		Bould	ers along su	tace.	
												<u> </u>											
Date	Time	e De		g-Drilling Casing		ss epth Water (	(m)	Remark	(S	De	epth (m)	Dia.		ter by	Depth Rema	arks	Depti	n (m) D	ia. (mm		ter by Depth Ren	narks	
04/07/2024 04/07/2024	07:3 17:3	0	0.00 0.05				Star	rt of shift e complete					,						,				
										Er	om (m)	То	(m)	Value	ne (litres)	Wat	er Added	Records	Po	marks			
										FI	OIII (III)	10	(111)	volun	ne (iltres)				Re	IIIaiks			
			Depth	Related											ing Detai		1_	, , ,		rilling Flus			
From (m) To	To (m)				Re	marks				Fr	om (m)	То	(m)	Duratio	on (hh:mm)	Tool	From	(m) To	(m) R	eturns (%)	Flush		Colour
			West	Chile					ī		Marita		4-11-4	Direction	- Mari					Davidiji	Daka ila		
Date S	Strike (m)	Casing (m)	Wate Time (mins)	r Strikes Depth (m)	Sealed (m	n)	Remar	ks	Type Pi	ipe ID	Monito From (m	ring Ins	tallation	n Pipe ım) Pii	e Work pe Type	Remarks	From	(m) To	(m)	Backfill [ Legend		escript	ion
									Stor	dard	I Penetra	tion Ton	et Pocu	ulto									
Depth (m) Ty	уре	N Value	Casing (n	n) Water	(m) SW	/Pen(mm) I	Blows1	Pen1(mm)							Blows4	Pen4(mm)	Blows5	Pen5(mm	) Blows	6 Pen6(ı	mm) Ham	mer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Location ID: PC55 Sheet 1 of 1

Hole Type:

Checked By:

LT521 - Bingally 400kv Substation Project Name:

RGN.331V

Client:  $\mathsf{BAM}$ 

Engineer: Fairhurst Date Started: 04/07/2024

Access Track GI Project No:

Ground Level:

Co-ordinates:

Survey Grid System:

831006.27 mN 135.32 mOD

OSGB

234511.30 mE

Approved By:  $\mathsf{AH}$ 1:25

Log Status: **PRELIM** 

RPC

SR

Orientation: - - deg. Print Date: 31/07/2024

Date Completed: 04/07/2024				Inclina	tion:				9	00 deg.	Final	Dept	h:		0.25m	1
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			Γ
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units		IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Brown fine to medium SAND with frequent fine roots.  0.00 - 0.25m : Moist.  0.25m : Refusal on hard base.  Terminated at 0.25m		- - - - - - - - - - - - - - - - - - -	135.07													
		- - - - - - -														
		- - - - - -														
		_ _ _ _ _														
		- - - - - -														

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



### **Exploratory Information Sheet**

Ground Level:

Location ID: PC55 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

BAM

Client: Engineer: Fairhurst

Date Started: 04/07/2024

RGN.331V

Survey Grid System: OSGB Co-ordinates:

234511.30 mE Checked By:

SR Approved By:  $\mathsf{AH}$ 

831006.27 mN 135.32 mOD

Log Status: PRELIM

Print Date:

Hole Type:

31/07/2024

RPC

Orientation: - - deg.

Date Completed:	04/07/2024			ation:	90 deg. Fir	nal Depth: 0.25m
	04/07/2024	Depth Re	lated Exploratory H		Jo deg. Til	0.20m
From (m) To (m) 0.00 0.25	Type Start RPC 04/07/2024	End Plant 04/07/2024 Russian Peat Corer		Bit Rig Crew	Logger SR	Remarks
	Boring-Drilling Pro	grace	Holo	Diameter by Depth	Cacina	g Diameter by Depth
Date Time 4/07/2024 07:30 4/07/2024 17:30	Depth (m)   Casing (m)   0.00   0.25	Depth Water (m) Remarks Start of shift Hole complete		mm) Remarks	Depth (m) Dia. (mm)	Remarks
			From (m) To	(m) Volume (litres)	ter Added Records Rem	arks
rom (m) To (m)	Depth Related Ren	narks Remarks		g / Hard Boring Details (m) Duration (hh:mm) Tool		ling Flush Details
om (m) 10 (m)		remarks	From (m) 10	(III) Duration (nn:mm) 1001	From (m) To (m) Retu	ums (%) Flush Colour
Date Strike (m) Casi	Water Strikes ing (m) Time (mins) Depth (m) Seale	ed (m) Remarks Type Pi		tallation Pipe Work ) Dia(mm) Pipe Type Remarks	From (m) To (m) Le	Backfill Details egend Description
					0.00 0.25	905 Arisings
epth (m) Type N Va	alue Casing (m) Water (m)	Stan SWPen(mm) Blows1 Pen1(mm) Blows2	ndard Penetration Te Pen2(mm) Blows3		Blows5 Pen5(mm) Blows6	Pen6(mm) Hammer E. Ratio

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Date Started:

# **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC56 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

Engineer: Fairhurst

Project No: RGN.331V Client: BAM

04/07/2024

Survey Grid System: OSGB Co-ordinates:

234890.92 mE 831310.91 mN

131.41 mOD

Checked By:

Hole Type:

Approved By: Scale:

1:25 Log Status: **PRELIM** 

RPC

SR

ΑН

- - deg. Print Date: 31/07/2024

Date Completed: 04/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		0.14n	n
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			T
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)		Blows/ [mins]	Test	Test Result	Units	SCR	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	.
TOPSOIL: Brown clayey fine to medium SAND.  0.14m: Refusal on hard base. /  Terminated at 0.14m		- - 0.14 - - - - -	131.27													N N N N N N N N N N N N N N N N N N N
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Client:

### **Exploratory Information Sheet**

Location ID: PC56 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst
Date Started: 04/07/2024

Survey Grid System: OSGB

Ground Level:

Co-ordinates: 234890.92 mE

831310.91 mN 131.41 mOD Checked By: SR Approved By: AH

Log Status:

Hole Type:

Print Date: 31/07/2024

RPC

PRELIM

Orientation: - - deg.

Inclination: 90 deg. Final Depth: 0.14m

Date Completed:	04/07/2024		Inclination	n:	90 deg. Fir	nal Depth: 0.14m
From (m) To (m)	Type Start End RPC 04/07/2024 04/07/2024	Plant	ated Exploratory Hole I Barrel Drill Bit	nformation Rig Crew	Logger SR	Remarks Point is 14 m away from actual
0.00 0.14	RPC 04/07/2024 04/07/2024	Russian Peat Corer			SK	Point is 14 m away from actual location, access issues due to dense forest.
Date Time	Boring-Drilling Progress  Depth (m) Casing (m) Depth Water (m)	Remarks	Hole Diar Depth (m) Dia. (mm	neter by Depth ) Remarks	Casing Depth (m) Dia. (mm)	g Diameter by Depth Remarks
04/07/2024 07:30 04/07/2024 17:30	0.00	Start of shift Hole complete				
			From (m) To (m)	Volume (litres)	er Added Records	narks
			Trom (m)	volume (mues)	Kelli	ici no
	Depth Related Remarks		Chiselling / H	ard Boring Details	Dril	lling Flush Details
From (m) To (m)	Remarks		From (m) To (m)	Duration (hh:mm) Tool	From (m) To (m) Ret	turns (%) Flush Colour
Date Strike (m) Ca	Water Strikes sing (m) Time (mins) Depth (m) Sealed (m) R	emarks Type Pip	Monitoring Installa		From (m) To (m) L	Backfill Details egend Description 905 Arisings
		Store	dard Desetation Test De	auth-	0.00 0.14	905 Arisings
Depth (m) Type N \	/alue Casing (m) Water (m) SWPen(mm) Blo	ows1 Pen1(mm) Blows2 I	dard Penetration Test Re Pen2(mm) Blows3 Pen	3(mm) Blows4 Pen4(mm)	Blows5 Pen5(mm) Blows6	6 Pen6(mm) Hammer E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



# **Exploratory Hole Log**

Ground Level:

Location ID: PC57 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Engineer: Fairhurst

Client: BAM

Date Started: 04/07/2024 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 235076.99 mE

> 831590.45 mN 100.64 mOD

Approved By:

Hole Type:

Checked By:

1:25

Log Status: **PRELIM** 

RPC

SR

 $\mathsf{AH}$ 

Orientation: - - deg. Print Date: 31/07/2024 00 doa Inclination: Final Denth 0 17m

te Completed:	04/07/2024				Inclina	tion:				g	00 deg.	Final	Dept	h:		0.17r	n
			Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR	IFmin mm			I
	Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	ting Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfil	Л
OPSOIL: Brown o	layey fine to medium SAND.		E														3
	0.47m : Defined on hand have		0.17	100.47													4
	0.17m: Refusal on hard base. / Terminated at 0.17m		F														
			F														
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL Remarks



### **Exploratory Information Sheet**

Location ID: PC57 Sheet 1 of 1

Project Name: LT521 - Bingally 400kv Substation

Access Track GI

RGN.331V

Client: BAM

Date Started: 04/07/2024

Engineer: Fairhurst

Survey Grid System: OSGB

Co-ordinates: 235076.99 mE

831590.45 mN 100.64 mOD Checked By: SR Approved By: AH

Log Status:

Hole Type:

Print Date: 31/07/2024

RPC

PRELIM

Orientation: - - deg.

Date Completed: 04/07/2024 Inclination: 90 deg. Final Depth: 0.17m

Ground Level:

			4/01/20	, <u>,</u>				Г	epth Re	lated	Explora	atory Ho	ole Info	rmatic	on					'		
From (m)	To (	m)	Туре	Star		End		Plant			Barrel		l Bit		Rig C	Crew		Logger SR			Remar	
0.00	0.1	17	RPC	04/07/20	024 (	04/07/2024	Rus	sian Peat C	Corer									SR			s 13 m away fro	m actual es due to dense
																				forest.		os due lo delise
			Borin	g-Drilling	Progre	ss							Diamet	ter by [						Diamet	er by Depth	
Date 04/07/2024	Tin 07:	ne De	epth (m) 0.00	Casing	(m) De	epth Water (	m) Star	Remark t of shift	(S	De	pth (m)	Dia.	(mm)		Rem	arks	Depth	(m) Dia	a. (mm)		Remarl	(S
04/07/2024	17:		0.17					e complete														
										F	()	T =-	/\ I		an A	Wat	er Added	Records	D			
										FIC	om (m)	10	(m)	volume	e (litres)				Rem	arks		
			Denti	h Related	Remor	rke						hisellin	n / Har	d Borin	ng Detai	le			Drill	ling Fluct	h Details	
From (m)	To (m)		Берп	Ttelated		marks				Fro	om (m)				(hh:mm)	Tool	From	m) To (r		urns (%)	Flush	Colour
	/																					
		-1	Wate	er Strikes						1	Monito	ring Ins	tallation	n Pipe	Work				, E	Backfill D	)etails	
Date	Strike (r	n) Casing (m)	Time (mins)	Depth (m)	Sealed (n	n)	Remar	ks	Type Pi	ipe ID	From (m	To (m	) Dia(m	m) Pipe	е Туре	Remarks	From			egend		ription
																	0.00	0.1	′	905	Arisings	
	1				l				Star	ndard	Penetra	tion Tes	st Resu	ılts								
Depth (m)	Туре	N Value	Casing (r	m) Water	(m) SW	/Pen(mm) [	3lows1	Pen1(mm)	Blows2	Pen2	2(mm) I	3lows3	Pen3(r	mm) B	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(n	nm) Hamme	E. Ratio%
	-																					

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Location ID: PC58 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started: 04/07/2024 Survey Grid System: OSGB Co-ordinates:

235047.60 mE

Hole Type: Checked By:

SR Approved By: ΑН

831622.59 mN Ground Level: 91.46 mOD

1:25 **PRELIM** 

RPC

Orientation: - - deg.

Log Status: 31/07/2024

Print Date: Inclination: 90 deg. Final Depth:

e Completed: 04/07/2024				Inclina	tion:				ç	00 deg.	Final	Dept	h:		0.02r
•		Depth				ng, Co	oring	and In S							
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec		Test	Test Result	Units	SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfil
PSOIL: Brown clayey fine to medium SAND.	X777X	0.02	91.44	, ,		` ′						/*			X7777XV7
0.02m : Refusal on hard base. Terminated at 0.02m		F													
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		_													
		F													
		E													
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



### **Exploratory Information Sheet**

Location ID: PC58 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst

Date Started: 04/07/2024 Survey Grid System: OSGB

Ground Level:

Co-ordinates: 235047.60 mE

> 831622.59 mN 91.46 mOD

Checked By: Approved By:  $\mathsf{AH}$ 

Log Status: Print Date:

Hole Type:

PRELIM 31/07/2024

RPC

SR

Orientation: - - deg.

Date Com	pletec	l:	04/07/20	24							nation			90	deg.	Final De	epth:	0.02m
From (m) 0.00	To (	m)	Type RPC	Start	End		D Plant	epth Re	lated Exp Barre	loratory l	lole Info	ormation R	ig Crew		_ogger SR		Remarl	
Date 04/07/2024	Tin 07:	ne 30	Borin Depth (m) 0.00	g-Drilling F Casing (n		er (m)	Remark tart of shift		Depth (i		e Diame . (mm)	ter by Dep	h emarks	Depth (n	Ca	asing Diame	close to road tra	
04/07/2024	17:	30	0.02			H	ole complete		From (r	n) To	o (m)	Volume (litr		ter Added Re		Remarks		
From (m)	To (m)		Dept	n Related F	emarks Remarks				From (r		ng / Har o (m)	d Boring D	etails	From (m)	To (m)	Drilling Flu Returns (%		Colour
Date	Strike (r	n) Casing (	Watem) Time (mins)	er Strikes Depth (m) s	ealed (m)	Rem:	arks	Type Pi				n Pipe Wo		From (m) 0.00	To (m) 0.02	Backfill Legend 905		ription
Depth (m)	Type	N Valu	e Casing (i	n) Water (i	n) SWPen(mn	) Blows	1 Pen1(mm)	Stan Blows2	ndard Pend Pen2(mm	etration Ti	sest Results	ults mm) Blow	s4 Pen4(mm)	Blows5 Per	n5(mm) Bio	ows6 Pen6(	(mm) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Location ID: PC59 Sheet 1 of 1

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

BAM

Engineer: Fairhurst Date Started:

Survey Grid System: OSGB

Co-ordinates: 234476.13 mE

> 830894.71 mN 147.24 mOD

Approved By:

Scale:

Hole Type:

Checked By:

1:25

RPC

SR

ΑН

Log Status: **PRELIM** 

04/07/2024 Orientation: - - deg. Print Date: 31/07/2024 Date Completed: 04/07/2024 Inclination: 90 deg. Final Depth: 0.05m

Ground Level:

		Denth			Sampli	na Ca	ring	and In S	itu Test	ina		TCP			
Stratum Description	Leg.	Depth (Thick- ness)	Level (m)	Depth (m)				Blows/ [mins]		Test Result	Units	SCR RQD	IFmin mm IFave mm IFmax mm or [FI]	Water	Wel Back
own fine to medium SAND.		(m) - 0.05	147.19	()		()	,,,	[9]				70	5. []		\\\\\
0.05m : Refusal on boulders at surface.		0.05	147.10												
Terminated at 0.05m		-													
iciminated at 0.00m															
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Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL

Remarks



### **Exploratory Information Sheet**

Survey Grid System:

Co-ordinates:

Location ID: PC59 Sheet 1 of 1

Hole Type:

Checked By:

Approved By:

Log Status:

Print Date:

RPC

SR

 $\mathsf{AH}$ 

PRELIM

31/07/2024

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

Client: BAM

Engineer: Fairhurst Date Started: 04/07/2024

Ground Level: 147.24 mOD

Orientation: - - deg.

OSGB

234476.13 mE

830894.71 mN

Date Start			04/01/20						Unemail						0.05
Date Com	pleted	:	04/07/20	24					Inclination			90 c	ieg. Fir	nal Depth:	0.05m
From (m)	To (	m) T	Type	Start	End	D Plant	epth Re	lated Explora  Barrel	atory Hole Inf		Crew	In	ager	Rema	arks
From (m) 0.00	0.0	15	Type RPC	04/07/2024	04/07/2024	Russian Peat C	Corer	Barrer	Dim Dit	1119	Olow	5	gger SR	Boulders along surfa	
			Davis	g-Drilling Pro					Hala Diama	eter by Depth			0	Diameter by Depth	
Date	Tim	ne [	Depth (m)	Casing (m)	Depth Water (n	n) Remark	S	Depth (m)			narks	Depth (m)		Rema	arks
04/07/2024 04/07/2024	07: 17:	30	0.00 0.05			Start of shift Hole complete									
14/01/2024	17.	30	0.03			riole complete									
								From (m)	To />	Nature #11		er Added Reco		orko	
								From (m)	To (m)	Volume (litres)			Rem	airs	
	-		Deptl	n Related Re				C	hiselling / Ha	rd Boring Deta	ils			ing Flush Details	
rom (m)	To (m)				Remarks			From (m)	To (m)	Duration (hh:mm	Tool	From (m)	To (m) Retu	urns (%) Flush	Colour
				er Strikes				Monito	ring Installation	n Pipe Work			E	Backfill Details	
Date	Strike (n	n) Casing (r	n) Time (mins)	Depth (m) Seal	ed (m)	Remarks	Type P	ipe ID From (m	) To (m) Dia(r	nm) Pipe Type	Remarks	From (m)	To (m) Le		scription
												0.00	0.05	905 Arisings	
							Star	dard Penetra	 ation Test Resi	ults					
epth (m)	Туре	N Value	Casing (	m) Water (m)	SWPen(mm) B	lows1 Pen1(mm)					Pen4(mm)	Blows5 Pen5	(mm) Blows6	Pen6(mm) Hamm	ner E. Ratio%
1															

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.



Client:

# **Exploratory Hole Log**

Ground Level:

Orientation:

Location ID: PC60 Sheet 1 of 1

RPC

SR

 $\mathsf{AH}$ 

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

RGN.331V

 $\mathsf{BAM}$ Fairhurst

Engineer: Date Started: 04/07/2024 Survey Grid System: OSGB

Co-ordinates: 232198.76 mE

> 827138.02 mN 295.65 mOD

Approved By: 1:25

Hole Type:

Checked By:

Log Status: **PRELIM** 

Print Date: 31/07/2024

- - deg.

Date Completed: 04/07/2024				Inclina	tion:				9	90 deg.	Final	Dept	h:		0.50m	1
		Depth			Sampli	ng, C	oring	and In S	itu Test	ting		TCR				П
Stratum Description	Leg.	(Thick- ness) (m)	Level (m)	Depth (m)	Туре	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	SCR RQD %	IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
	alta a salta a	(Thick- ness) (m)	Level (m) 295.15	Depth	Sampli	Dia	Rec	Blows/	itu Test	ting	I	TCR SCR RQD	IFmin mm IFave mm IFmax mm	Water	Well/ Backfill	

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked. BAM Ritchies, Glasgow Road, Kilsyth, Glasgow G65 9BL



Date Started:

### **Exploratory Information Sheet**

Location ID: PC60 Sheet 1 of 1

Hole Type:

Checked By:

Approved By:

Log Status:

Print Date:

RPC

SR

 $\mathsf{AH}$ 

PRELIM

31/07/2024

LT521 - Bingally 400kv Substation Project Name:

Access Track GI

BAM

Client: Engineer: Fairhurst

RGN.331V

04/07/2024

Ground Level: 295.65 mOD

Survey Grid System:

Co-ordinates:

Orientation: - - deg.

OSGB

232198.76 mE

827138.02 mN

Date Completed	l: 0	4/07/202	4							ation:			9	00 deg.	Fin	al Depth	:	0.50m
From (m) To (	(m)	Tyne	Start	End		Depth Plant	Rela	ated Explo	atory Ho	ole Inform	nation Rig (	Crew	1	Logger			Remarks	
From (m) To ( 0.00 0.5	50	Type RPC (	04/07/2024	04/07/2024	Russ	sian Peat Corer		Barrer	Dill	I Dit	rug	Siew		Logger SR			remans	
Date Tim 04/07/2024 07:3	30	epth (m) 0.00	Drilling Proc Casing (m)	gress Depth Water (	Start	Remarks		Depth (m)			by Depth Rem	narks	Depth	(m) Dia	Casing i. (mm)	Diameter I	by Depth Remarks	5
04/07/2024 17:3	30	0.50			noie	complete	-	From (m)	То	(m) V	olume (litres)		er Added I	Records	Rema	arks		
										()	name (mase)							
		Depth F	Related Ren	narks					Chisellin	g / Hard F	Boring Deta	ils			Drilli	ng Flush D	)etails	
From (m) To (m)				Remarks				From (m)		(m) Du	ration (hh:mm)	Tool	From (n	n) To (n		rns (%)	Flush	Colour
Date Strike (n	n) Casing (m)		Strikes epth (m) Seale	d (m)	Remark	s Typ	e Pip	Monit			Pipe Work Pipe Type	Remarks	From (n		Bn) Le	ackfill Deta gend 905 Ari	Descri	ption
							Stand	dard Penetr	ation Tes	st Results			0.00	0.50			isings	
Depth (m) Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1 F	Pen1(mm) Blow	ws2	Pen2(mm)	Blows3	Pen3(mr	n) Blows4	Pen4(mm)	Blows5 P	en5(mm)	Blows6	Pen6(mm	) Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.