



AQUIND Limited

AQUIND INTERCONNECTOR

Environmental Statement – Volume 3 – Appendix 21.4 Heritage and Archaeology Impact Tables

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

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APPENDIX 21.4 HERITAGE AND ARCHAEOLOGY IMPACT TABLES

1.1. **PREDICTED CONSTRUCTION STAGE ENVIRONMENTAL EFFECTS (PRIOR TO MITIGATION)**

The Table below includes those assets with a moderate, high or known potential to be present within the Site. Archaeological remains for particular periods which are considered to have low potential (eg due to significant past ground disturbance) are unlikely to be present within the Order Limits and on that basis they not assessed in the table below. The table presents only likely significant effects in accordance with EIA methodology. The Heritage Significance of potential assets would depend on their nature and extent.

1.1.1.1. Note that the impact of the Proposed Development on possible later medieval and post-medieval buried agricultural remains, for which there is background potential is considered an insignificant effect and has been scoped out and therefore have been omitted from table below Where there is evidence to suggest more significant remains, e.g. later medieval earthwork remnants of ridge and furrow cultivation, or cropmarks, this has been scoped in. The impact on isolated prehistoric flint tools has also been assessed as insignificant and has been scoped out.

1.1.1.2.

Table 1 - Predicted Construction Stage Environmental Effects (prior to mitigation)

Route Section	Receptor (Heritage Asset)	Potential	Heritage significance	Magnitude of change	Description of impact	Significance of environmental effect (prior to mitigation)
1	Prehistoric activity in the form of isolated pits and enclosure ditches with possibility for burials	High	Medium or High, depending on nature and extent	Large	Preliminary works including topsoil removal, establishment of site compounds and temporary storage areas.	Major or Moderate Adverse
	Roman settlement activity	Moderate to High	Medium or High	Large	Construction works associated with the Proposed Converter Station including cut/fill earthworks, foundations and construction of temporary/permanent access roads, Fibre Optica Cable ('FOC') infrastructure, landscaping, drainage	Major or Moderate Adverse
	Early Medieval activity	Uncertain, possibly Low	Medium, High or Very High	Large		Uncertain (Moderate or Major Adverse)
	Cropmark evidence of a later medieval field systems visible	Moderate to High	Low or Medium	Large		Moderate or Minor Adverse

	as cropmarks or ridge and furrow cultivation				and ecological mitigation works. Cable trenching for Alternating Current / Direct Current ('AC'/DC) cables (possibly Medium magnitude of change).	
2	Prehistoric activity	Moderate to High	Medium or High	Large	Topsoil removal and subsequent construction activities (trench excavation, 6 m working width, construction compounds), Excavation for Joint Bays ('JB'). Cable trenching for DC cables (possibly Medium magnitude of change).	Major or Moderate Adverse
	Roman activity	Uncertain, possibly low to moderate	Medium or High	Large		Major or Moderate Adverse
	Early Medieval activity	Uncertain, possibly low	Medium, High or Very High			Uncertain (Moderate or Major Adverse)
3	Prehistoric activity	Moderate	Medium or High	Large	Topsoil removal and subsequent construction activities (trench	Major or Moderate Adverse

	Roman activity	Uncertain, possibly low to moderate	Medium or High		excavation, 6 m working width, construction compounds), Excavation for JBs and establishment of Horizontal Directional Drilling ('HDD') compounds. Cable trenching for DC Cables (possibly Medium magnitude of change).	Major or Moderate Adverse
	Early Medieval activity	Uncertain, possibly low	Medium, High or Very High			Uncertain (Moderate or Major Adverse)
4	Prehistoric activity including potential Iron Age settlement remains (particularly at Portsdown Hill)	Localised, moderate to High	Medium or High	Small	Localised impact from cable trench excavation, as the Cable Route lies in a brownfield area (i.e. existing roads/urban areas).	Minor Adverse
				Large	Impact from topsoil stripping and excavation for JBs, where on open fields/car parks adjacent to road.	Moderate or Major Adverse

	Roman settlement activity and remains of Roman road	Moderate to High	High or Very High	Small	Localised impact from cable trench excavation, as the Cable Route lies in a brownfield area (i.e. existing roads/urban areas).	Moderate Adverse
				Large	Excavation for Jbs, where on open fields/car parks adjacent to road.	Major Adverse
	Early medieval burials	Localised, Moderate to high	High or Very High	Medium	Localised impact from cable trench excavation, as the Cable Route lies in a brownfield area (i.e. existing roads/urban areas).	Major or Moderate Adverse
				Large	Excavation for JB areas,	Major Adverse
6	Palaeoenvironmental remains (Raised Marine Deposits)	Uncertain, Low to Moderate	Low or Medium	Small	Excavation for HDD reception pits and localised impact where	Minor Adverse

	Roman Remains	Uncertain, probably low	Low, Medium or High	Large	HDD bores would emerge at entry/exit points.	Uncertain (Minor, Moderate or Major Adverse)
7	Palaeoenvironmental remains (Raised Marine Deposits)	Moderate	Low or medium	Small	Excavation for HDD reception pits and localised impact where HDD bores would emerge at entry/exit points.	Minor Adverse
	Prehistoric activity relating to exploitation of intertidal resources	Uncertain, low to moderate	Low, Medium or High	Small	Localised impact from cable trench excavation, where the Cable Route lies in a brownfield area (i.e. existing roads/urban areas)	Minor Adverse
				Large	Excavation for JB's and establishment of HDD compounds and cable where situated in open fields.	Moderate Adverse

	Roman activity	Uncertain, Low to moderate	Medium or High	Small	Localised impact from cable trench excavation, where the Cable Route lies in a brownfield area (i.e. existing roads/urban areas)	Minor Adverse
				Large	Excavation for JB's and establishment of HDD compounds and cable where situated in open fields.	Moderate Adverse
8	Palaeoenvironmental remains	Moderate	Low or medium	Small	Majority of works throughout Section 8 not considered to be of a sufficient depth to impact potential Palaeoenvironmental remains. Excavation of HDD6 at Milton Common may extend below modern made-ground.	Minor Adverse
	Prehistoric activity relating to	Uncertain, possibly	Medium or High	Small	Possible localised impact from cable trench	Minor Adverse

	exploitation of intertidal resources	low to moderate			excavation, where the Cable Route lies in a brownfield area (i.e. existing roads/urban areas)	
				Small	Excavation for JB areas where extending below made-ground.	Minor Adverse
	Roman activity	Uncertain, probably low	Medium or High,	Small	Possible localised impact from cable trench excavation, where the Cable Route lies in a brownfield area (i.e. existing roads/urban areas)	Minor Adverse
				Small	Excavation for JB areas where extending below made-ground.	Minor Adverse
9	Palaeoenvironmental remains	Moderate	Low or medium	Small	Localised impact where HDD bores would emerge at entry/exit points (HDD2)	Minor Adverse

	Prehistoric activity relating to exploitation of intertidal resources.	Uncertain, possibly moderate	Medium or High	Small	Localised impact from cable trench excavation, where the Cable Route lies in a brownfield area (i.e. existing roads/urban areas)	Minor Adverse
				Large	Excavation for JBs and establishment of HDD compounds (HDD2) and where cable trench situated in open fields/verges.	Major or Moderate Adverse
	Post-medieval below ground remains associated with the early 19th century Portsmouth and Arundel Canal	High	Medium of High	Small	Localised impact from cable trench excavation and excavation of JB areas.	Minor or Moderate Adverse
10	Palaeoenvironmental remains	Moderate	Low or medium	Small	Excavation for Transitional Joint Bays ('TJBs') and where HDD bores would emerge at entry/exit points (HDD1).	Minor Adverse

	Prehistoric activity relating to exploitation of intertidal resources.	Uncertain, possibly, low to moderate	Low or Negligible	Small	Localised impact from cable trench excavation and from Optical Regeneration Station(s) ('ORS') infrastructure foundations.	Minor Adverse
				Large	Excavation for TJB areas/HDD compound	Major or Moderate Adverse
	Roman activity	Uncertain, probably low	Medium or High	Small	Localised impact from cable trench excavation and from ORS foundations.	Minor Adverse
				Large	Excavation for TJB areas/HDD compound	

1.2. **TABLE 2 PREDICTED OPERATIONAL STAGE ENVIRONMENTAL EFFECTS (PRIOR TO MITIGATION)**

Note that Operational Stage effects would arise from permanent changes to the setting of above ground designated heritage assets due to the presence of the proposed Converter Station in route Section 1. Since the Proposed Development/Onshore Cable Route is otherwise entirely below-ground, only those designated assets within the vicinity of the Converter Station and Landfall have been assessed for potential impact during the Operational Stage. Assets identified with a number (ie. **A1, 2** etc) have detailed listing descriptions within Appendix 21.2 (Historic Environment Desk Based Assessment ('HEBDA') of the Environmental Statement ('ES') Volume 3 (document reference 6.3.21.2).

1.2.1.1.

Table 2 - Predicted Operational Stage Environmental Effects (prior to mitigation)

Route Section	Receptor (Heritage Asset)	Heritage significance	Magnitude of change	Description of impact	Significance of environmental effect (prior to mitigation)
1	Rookwood, Grade II* listed (A87)	Very High	Negligible	No significant impact on setting	Negligible
	Granary 5 Metres West of Rockwood, Grade II listed (A125)	High	Negligible	No significant impact on setting	Negligible
	Ludmore Cottages, Grade II listed (A129)	High	Negligible	No significant impact on setting	Negligible
	Barn Cottage, Grade II listed (A102)	High	Negligible	Barn Cottage has extensive views of the rural agricultural landscape. In the surrounding area, the hedgerows lining the roads and marking field boundaries are very dense and high which prevent many long-distance views over the landscape. It is not believed that Barn Cottage will have any views of the Converter Station.	Negligible
	Denmead Farm (3 Assets):	High	Negligible	Due to further vegetation screening and some built structure screening from other farms it is not believed	Negligible

Denmead Farmhouse (A109) Granary 20 Meters West of Denmead Farmhouse (A109) Cottage at Denmead Farm.				that the group of assets at Denmead Farm will have any views of the Converter Station.	
Little Denmead Farm and Bleak Cottage (3 Assets): Farmhouse at Little Denmead (A101) The Barn at Little Denmead (A101) Bleak Cottage (A93)	High	Negligible		The significance of the group of assets at Little Denmead Farm & Bleak Cottage are of high significance and their setting makes a moderate contribution to their significance. The distance and dense vegetation screening in the form of road and field boundaries prevents any views of the Converter Station.	Negligible
Stoneacre (A120)	High	Negligible		Stoneacre is a very well sheltered property, with vegetation enclosing the asset on all sides. This prevents any extensive views of the surrounding landscape and will also therefore prevent any views of the Converter Station.	Negligible
Scotland (A117)	High	Small		Access directly up to Scotland Cottage was not possible on the	Minor adverse

				<p>day of the site visit as the road leading to the house is private and therefore assessment had to be made from further west down Dogkennel Lane. From here, views over the landscape were extensive due to the asset being based on an area of higher land. It is possible that the asset will have views of the Converter Station. Despite this, the distance between the asset and the Converter Station will mean that impacts will be minimal and most rural views from Scotland will be retained.</p>	
	Hinton Manor House (A141)	High	Negligible	<p>Hinton Manor House is an enclosed asset, existing within its own boundary wall which has high vegetation screening. This prevents views out towards the surrounding landscape. Additionally, screening on the west side of Hinton Manor Lane also prevents any views.</p>	Negligible
	Catherington Conservation Area (A159)	High	Negligible	<p>Viewpoints taken outside of the conservation area on open land to the west, shows that the Converter Station would largely be screened by a mature vegetation belt, both in</p>	Negligible

				summer and in winter when the trees are not in leaf. In winter there may be glimpses of the new structure in views looking out towards the west from the conservation area but these would be slight and would not affect how the asset is experienced. Despite this, most of the views of the landscape and the internal views of the village would not be affected. The proposed Converter Station would also not impact on the relationship of the Designated Heritage Assets located within the conservation area to each other.	
10	<p>Fort Cumberland (A96); Scheduled Monument and Listed Buildings:</p> <ul style="list-style-type: none"> - Grade II* listed 17th–18th century Fort Cumberland; - Grade II listed Late 18th century Former Guard House; - Grade II listed Late 18th century Former 	Very High	Negligible	The car park does not currently contribute to the setting of the fort, but as it is still flat does allow continuation of the historic sight lines from the ravelin towards Fort Cumberland Road, the original defence point. The ORS will be based in the north-east corner of the car park, and will only be approximately 4 m high. They will also be fenced off and enclosed with native vegetation. As such, the	Negligible

	<p>Hospital and Ancillary Buildings; - Grade II listed mid 19th century Former Officers Quarters.</p>		<p>majority of the flat landscape of the car park will be retained.</p>	
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