Project Reference	21.04.022
Site Location	Harbury Playing Fields, Constance Drive, Warwickshire CV33 9HZ
OS Grid Reference	437319, 259530
Development	An electric vehicle charging station facility, complete with a wind turbine, solar
Proposals	panels, electrical storage battery and ancillary services
Current Site Use and	Village Hall at the northern end, with car park, grassed playing fields, all weather
Existing Buildings	sports pitches, cycle sports area and skate park beyond
Topography	The site is generally flat and slopes very gently up to the south, with an elevation
	difference, across the site, of about 2m
Vegetation	The interior of the site was devoid of significant vegetation, but there was a
	hedge of trees and shrubs along nearly all of the eastern and southern
	boundaries, parts of the western boundary, around the children's play area, and
	on the eastern side of the car park. More specifically to the four areas of
	proposed development, are the following approximated distances to significant
	vegetation: Area B: <2m to a 2m high hedgerow (to the west) and 13.2m to 10m
	high trees (to the east); Area C: <2m to a 2m high hedgerow (to the west) and
	<2m to 10m high trees (to the east); Area W1: 12.5m to an 8m high tree hedge (to the east): Area W2: 0.7m to a 14m high Cold tree (to the porth east) and
	(to the east); Area W2: 9.7m to a 14m high Oak? tree (to the north-east) and 8.8m to a 14m high Oak? tree (to the south-east)
Published Geology	Quaternary superficial Till, with the Late Triassic bedrock Rugby Limestone
r ublished deology	Member (of the Blue Lias Formation) beneath
Site History	The site was formed of two large agricultural fields, on the southern (agricultural)
one mistory	side of the village, from the date of the earliest map (1885) and the map of 1971
	shows the Village Hall at the northern end and the remainder of the site marked
	as Playing Fields (and, later, as Recreation Ground). The all-weather (tennis)
	court is first shown on the map of 1987 and the cycle sports area and skate park
	are first seen on aerial imagery dated 2006
Unexploded Ordnance	Low risk
Ground Conditions	A cover of Fill/Topsoil and localised Made Ground to a maximum depth of
Encountered	0.80m; over Till, with thin beds of Glacio-Fluvial Deposits; and Glacio-Fluvial
_	Deposits below about 4.2m at the southern end of the site
Groundwater	Not encountered. (Water inflow in CT02 was, most likely, from a broken land
Chemical Attack on	drain)  Design Sulphate Class DS-1, characteristic pH, 6.4
Buried Concrete	Aggressive Chemical Environment for Concrete, AC-1
Foundations	The existing pavement construction area for the proposed battery store area
(Proposed Battery	should be adequate to support modest loadings without undergoing undue
Store and Proposed	settlement
Wind Turbine)	The Till should prove a suitable bearing stratum for foundations to support the
,	wind turbine on spread foundations, such as pads or a raft. Foundation depths
	to be assessed in accordance with NHBC Standards, with a recommended
	minimum depth for pad foundations, of 0.90m.
	If the bearing pressure stated below are insufficient, then consideration should
	be given to the use of short pile foundations bearing into the Glacio-Fluvial
	Deposits (below about 4.2m depth).
Bearing Pressures	Safe Bearing Pressure of 100kPa for a raft foundation, with a recommendation
(Proposed Battery Store and Proposed	to assess likely settlements once building loads are known.  Allowable Bearing Pressure (for 25mm total settlement) of 140kPa for isolated
Wind Turbine)	square bases up to 3.00m wide at 0.90m depth, increasing, with depth of
Tilla Talbillej	placement, at a uniform rate of 10kPa/0.2m depth, to a maximum of 220kPa at a
	depth of 2.50m
Hardstanding Design	Preliminary design California Bearing Ratio values:
(Proposed Car Park)	Till: 3.0%
,	Made Ground (if extensive): 1.0%
	made ordana (ii extensive). 1.070