



**LEGEND**

Application Boundary

Borrow Pit 1

Borrow Pit 2

Borrow Pits 5 km Buffer

**Zone of Theoretical Visibility (Bare Earth)**

Borrow Pit 1

Borrow Pit 2

**Note**

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (1.5 - 2.5m Root Mean Square Error [RMSE]) up to 15km from Borrow Pits locations. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using grid points positioned across the area of the proposed Borrow Pits locations for Kirkton Energy Park.
- The proposed Borrow Pits heights of 0m (ground level) have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.

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## KIRKTON ENERGY PARK - EIA

### LANDSCAPE & VISUAL

### BARE EARTH ZTV: PROPOSED BORROW PITS

### FIGURE 7.2g

Scale  
1:40,000 @ A3

Date  
NOVEMBER 2022

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