



- Legend:**
- Proposed Site Boundary
  - Flue Gas Stack (117.9m)
  - Regenerator (70m)
  - Absorber & Gas Wash Tower (50m)
  - CO<sub>2</sub> Compressor (20m)
  - Distance Radii from Site (1, 2, 3, 4, 5km)
  - Viewpoints
  - Woodland (modelled at 15m)
  - Buildings (modelled at 7.5m)
- Zone of Theoretical Visibility**
- Gas Flue may be visible
  - Gas Flue and Regenerator may be visible
  - Gas Flue, Regenerator and Absorber/Gas Tower may be visible
  - All structures may be visible

**FIGURE DATA:**  
 This figure has been based on the following data:  
 Layout file: D003-Obvs-T5-5km.shp; Terrain data: T5-DSM-With-FFL.asc  
 Viewer's eye height: 2m above ground level; Calculation grid size: 5m

**NOTES:**  
 This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.  
 The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.  
 A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.  
 The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.  
 The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DTM and has a 5m resolution.  
 Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter

Rev	Date	Description	Drn	Chk	App
02	10/04/2024	Gas Flue Height Changed	MP	ZF	
01	12/03/2024	Updated Figure Title	MP	ZF	
00	05/11/2023	First Draft	MP	ZF	

**Padeswood Carbon Capture and Storage Project**

RSK

TITLE: Volume 3, Figure 9.2:  
Zone of Theoretical Visibility and Viewpoint Locations

ID: P663575\_LANSH\_9-2\_ZTV\_A3\_L

0 0.5 1

Kilometres

Scale: 1:42,500 @ A3

REV 02