



Digitised ZTVI for area from which site / part of site is visible

- Digitised ZTVI viewshed
- Site Boundary
- Public Rights of Way

Method was as follows:

**Data used:**  
EA LiDAR composite first return Digital Surface Model 2022 (1m resolution) (DSM)  
EA LiDAR composite first return Digital Terrain Model 2022 (1m resolution) (DTM)  
Software: QGIS 3.16.11

The Random Points tool was used to generate random points within the site boundary, to create the 28 observer points. These were manually adjusted to ensure some distribution around the edges of the site.

The DSM was extracted for within the site. The site was subtracted from the DTM. The site DSM was added to the DTM, resulting in a layer showing the DTM for OUTSIDE the site and DSM data WITHIN the site. This is to ensure that the effect of vegetation on the observer height is removed - ie the site itself is 'flat', with no vegetation but the surrounding area accounts for vegetation present at the time of data capture.

A viewshed was then created using the Viewshed tool, run on the composite DSM/DTM later.

The following parameters were set:  
Observer height 1.6m (the points in the site)  
Target height 0m - all surrounding pixels in the DSM Radius 2000m.

The result counts the number of points that can be seen from each 1m x 1m pixel across the DSM/DTM composite layer. The data was then presented as a gradient (0 to 28 points can be seen) and binary layer - 0 for no view of the site and 1 for at least one point in the site can be seen.

This ZTVI shows a digitised viewshed from which at least one point within the Site is visible.

# ASLA02

Digitised ZTVI  
Land East of Albion Road and North of Copper Lane, Marden  
LVIA PoE