

APPENDIX C – EA PRODUCT 6 DATA

HNL Guidance on using Product 6 data in a Flood Risk Assessment

The Product 6 data can be viewed using several GIS applications such as:

- ArcGIS
- Civil3D
- AutoCad
- Mapinfo
- QGIS

As an example, QGIS is an open-source GIS application which is licensed under the General Public License (GNU) and can be freely used for commercial purposes on a wide range of devices.

The flood outlines (usually in shapefile format), 1D nodes (usually in shapefile format) along with flood level (h) 2D nodes/2D grids (usually in shapefile/ascii format) can be loaded into GIS software for further investigation.

For the 1D nodes, please provide a 1D node map and accompanying 1D node table with all relevant annual exceedance probabilities (AEP) in the Flood Risk Assessment similar to the examples given in figure 1 and table 1.

For the 2D nodes please provide a 2D node map showing the 2D node points labelled with the flood level height values for all relevant AEPs in the Flood Risk Assessment similar to the example given in figure 2. You should clearly demonstrate the highest and most representative flood levels for the lifetime of your proposed development inclusive of climate change.

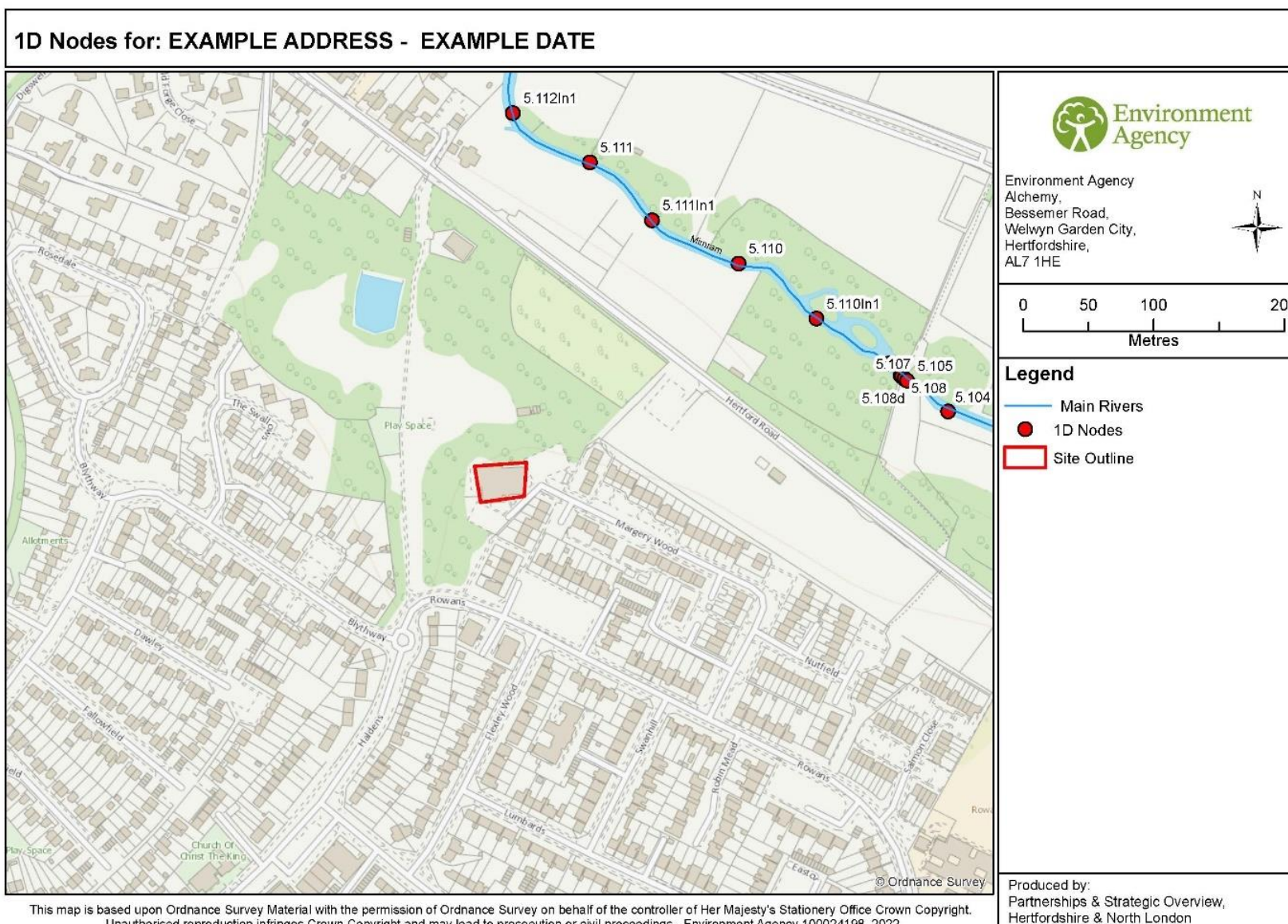
The data provided in a Flood Risk Assessment will be checked against our records when we are consulted by the Local Planning Authority in our remit as statutory consultee for fluvial and tidal flood risk. Please ensure you have the most up to date data as not having this data could delay our review of the application.

If you have any further queries regarding the data please reply to this email or contact HNLenquiries@environment-agency.gov.uk.

Table 1. Example 1D Node Table

Node Label	National Grid Reference		Modelled Flows				Modelled Levels			
	Easting	Northing	Annual Exceedance Probability (AEP)				Annual Exceedance Probability (AEP)			
				Insert	AEP/s			Insert	AEP/s	
e.g. 5.110										
e.g. 5.110In1										
e.g. 5.111										

Figure 1. Example 1D Node Map (please note the size of this map has been reduced for convenience of this guidance document).



1. Outline your site boundary clearly. Please use an appropriate and up to date base map at a 1:3500 scale to ensure clarity of the location.

2. Label each node point with the node label provided in the model data as demonstrated in figure 1.

3. Provide a modelled flows and levels table similar to table 1, extracting flow and level data for the appropriate AEPs from the node points.

4. Ensure the map has an appropriate title, legend, scale bar, north arrow and is exported clearly.

