

1 Data structure

- 1.1 The data is supplied with the folder structure shown in **Table 1.1**.
- 1.2 In order for the MXD to function correctly, the file structure, naming and location of the files should be kept in this format. Moving or renaming files will result in broken links in the project file (MXD).

Table 1.1 Folder structure

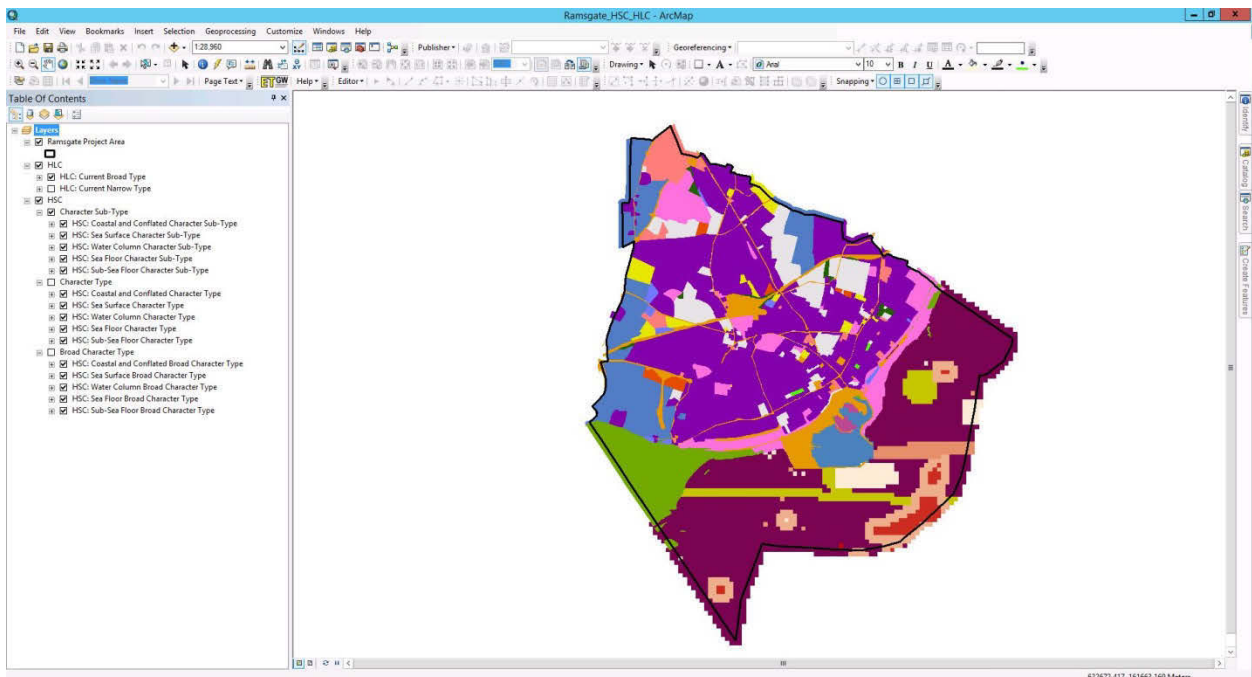
Folder Name	Files contained
Data	Geodatabase containing Historic Seascape Characterisation (HSC) and Historic Landscape Characterisation (HLC)
Data_10_3	Geodatabase containing HSC and HLC in format compatible with ArcMap 10.3
LayerFiles	2 HLC layer files (HLC Broad Type, HLC Narrow Type) 3 HSC layer files (copies from the NHSC database)
MXD	MXD
MXD_10_3	MXD in format compatible with ArcMap 10.3
Texts	HSC and HLC texts

2 Using the HSC and HLC data

Loading and navigating the MXD

- 2.1 **Figure 2.1** shows how the MXD will appear once loaded. There are symbolised layers set up for both the HSC and the HLC. The HSC is shown at each marine level (and Coastal and Conflated) at Broad Character Type, Character Type and Character Sub-type. The HLC is shown at both Broad Type and Narrow Type.
- 2.2 This MXD provides some examples of how the GIS might be displayed. The data can additionally be displayed using any of the fields present in the GIS attribute table. This can be achieved by copying and pasting another instance of the HLC or HSC layer and using the symbology palette to recolour the data by another attribute field.

Figure 2.1 Screenshot of Ramsgate_HSC_HLC MXD



Structure of HLC and HSC data

- 2.3 The data structure of the HLC and HSC data sets are set out in Table 2.1 and Table 2.2. The HLC has a 2 tier hierarchy:
 - Broad Type
 - Narrow Type
- 2.4 The HSC has a 3 tier hierarchy:
 - Broad Character Type
 - Character Type
 - Character Sub-type

Table 2.1 HLC GIS data structure

Field name	Field alias	Population method	Data type	Field length
CBT	Current Broad Type	Manual	String	254
CNT	Current Narrow Type	Manual	String	254
CSC	Current Source	Manual	String	254
C_LINK	Current Link	Manual	String	254
CDT	Current Date by	Manual	String	254
P1BT	Previous Broad Type 1	Manual	String	254
P1NT	Previous Narrow Type 1	Manual	String	254
P1SC	Previous Source 1	Manual	String	254
P1_LINK	Previous Link 1	Manual	String	254
P1DT	Previous 1 Date by	Manual	String	254
P1BT	Previous Broad Type 2	Manual	String	254
P2NT	Previous Narrow Type 2	Manual	String	254
P2SC	Previous Source 2	Manual	String	254
P2_LINK	Previous Link 2	Manual	String	254
P2DT	Previous 1 Date by	Manual	String	254
P3BT	Previous Broad Type 3	Manual	String	254
P3NT	Previous Narrow Type 3	Manual	String	254
P3SC	Previous Source 3	Manual	String	254
P3_LINK	Previous Link 3	Manual	String	254
P3DT	Previous 1 Date by	Manual	String	254
NTS	Notes	Manual	String	254
CRT_DT	Creation Date	Manual	String	254
CRTR	Creator	Manual	String	254
Shape_Length	Shape Length	Automated	Double	19
Shape_Area	Shape Area	Automated	Double	19

Table 2.2 HSC GIS data structure

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
Shape	Shape	Shape of data (i.e. polygon), automatically generated and updated by database.	Automated	Geometry	0
OBJECTID	OBJECTID	ID automatically generated and updated by database.	Automated	Integer	10
NAME	Name	Name of area or topographic identifier, local or popular name.	Manual	String	254

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
CC_SBTY	Coastal and Conflated Character Sub-Type	Sub-character type (present, dominant; local level). Landward (above MHW) this will relate to coastal land HSC, whereas seaward it will relate to the 'conflated' HSC as derived from the marine levels.	Manual	String	254
CC_TY	Coastal and Conflated Character Type	Character Type (present, dominant; regional level). Landward (above MHW) this will relate to coastal land HSC, whereas seaward it will relate to the 'conflated' HSC as derived from the marine levels.	Manual	String	254
CC_BDTY	Coastal and Conflated Broad Character Type	Broad Character Type (present, dominant; national strategic level). Landward (above MHW) this will relate to coastal land HSC, whereas seaward it will relate to the 'conflated' HSC as derived from the marine levels.	Manual	String	254
SSRFC_SBTY	Sea Surface Character Sub-Type	Present and dominant historic character of the sea-surface (recorded at sub-character, character and broad character levels).	Manual	String	254
SSRFC_TY	Sea Surface Character Type		Manual	String	254
SSRFC_BDTY	Sea Surface Broad Character Type		Manual	String	254
WTRCL_SBTY	Water Column Character Sub-Type	Present and dominant historic character of the water column (recorded at sub-character, character and broad character levels).	Manual	String	254
WTRCL_TY	Water Column Character Type		Manual	String	254
WTRCL_BDTY	Water Column Broad Character Type		Manual	String	254
SFLR_SBTY	Sea Floor Character Sub-Type	Present and dominant historic character of the sea-floor (recorded at sub-character, character and broad character levels).	Manual	String	254
SFLR_TY	Sea Floor Character Type		Manual	String	254
SFLR_BDTY	Sea Floor Broad Character Type		Manual	String	254
SBFLR_SBTY	Sub-Sea Floor Character Sub-Type	Present and dominant historic character of the sub-sea floor (recorded	Manual	String	254

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
SBFLR_TY	Sub-Sea Floor Character Type	at sub-character, character and broad character levels).	Manual	String	254
SBFLR_BDTY	Sub-Sea Floor Broad Character Type		Manual	String	254
DATA_TYPE	Data Type	Identifies if data is 'Gridded' sea data or 'Not gridded' land data.	Manual	String	254
CC_PRD	Coastal and Conflated Period	Benchmark period of origin of the area represented in the polygon or cell. Recorded for present historic character. Landward (above MHW) this will relate to coastal land HSC, whereas seaward it will relate to the 'conflated' HSC as derived from the marine levels.	Manual	String	254
CC_SRC	Coastal and Conflated Source	Sources used to identify present and previous historic character. Attribute values to record supplier, date, precise GIS file name. To include reference to the scale of original data used. Landward (above MHW) this will relate to coastal land HSC, whereas seaward it will relate to the 'conflated' HSC as derived from the marine levels.	Manual	String	254
CC_CNF	Coastal and Conflated Confidence	Degree of certainty/confidence of HSC interpretation of present historic character. Landward (above MHW) this will relate to coastal land HSC, whereas seaward it will relate to the 'conflated' HSC as derived from the marine levels.	Manual	String	254
CC_NTS	Coastal and Conflated Notes	Further background information on history of the polygon. Expansion on information recorded at broad character and sub-character levels.	Manual	String	254
CC_LINK	Coastal and Conflated Link	URL hyperlink to Character Type texts and multi-media. Landward (above MHW) this will record coastal land HSC, whereas seaward it will record the 'conflated' HSC as derived from the marine	Manual	String	254

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
		levels.			
SSRFC_PRD	Sea Surface Period	Benchmark period of origin of the area represented in the polygon. Recorded for present historic character levels and previous historic character.	Manual	String	254
SSRFC_SRC	Sea Surface Source	Sources used to identify historic character. Attribute values to record supplier, date and precise GIS file name. To include reference to the scale of original data used.	Manual	String	254
SSRFC_CNF	Sea Surface Confidence	Degree of certainty/confidence of HSC interpretation of present historic character.	Manual	String	254
SSRFC_NTS	Sea Surface Notes	Further background information on history of the polygon. Expansion on information recorded at broad character and sub-character levels.	Manual	String	254
SSRFC_LINK	Sea Surface Link	URL hyperlink to Character Type texts and multi-media.	Manual	String	254
WTRCL_PRD	Water Column Period	Benchmark period of origin of the area represented in the polygon cell.	Manual	String	254
WTRCL_SRC	Water Column Source	Sources used to identify historic character. Attribute values to record supplier, date, precise GIS filename. To include reference to the scale of original data used.	Manual	String	254
WTRCL_CNF	Water Column Confidence	Degree of certainty/confidence of HSC interpretation of present historic character.	Manual	String	254
WTRCL_NTS	Water Column Notes	Further background information on history of the polygon. Expansion on information recorded at broad character and sub-character levels.	Manual	String	254
WTRCL_LINK	Water Column Link	URL hyperlink to Character Type texts and multi-media.	Manual	String	254

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
SFLR_PRD	Sea Floor Period	Benchmark period of origin of the area represented in the polygon cell.	Manual	String	254
SFLR_SRC	Sea Floor Source	Sources used to identify historic character. Attribute values to record supplier, date, precise GIS filename. To include reference to the scale of original data used.	Manual	String	254
SFLR_CNF	Sea Floor Confidence	Degree of certainty/confidence of HSC interpretation of present historic character.	Manual	String	254
SFLR_NTS	Sea Floor Notes	Further background information on history of the polygon. Expansion on information recorded at broad character and sub-character levels.	Manual	String	254
SFLR_LINK	Sea Floor Link	URL hyperlink to Character Type texts and multi-media.	Manual	String	254
SBFLR_PRD	Sub-Sea Floor Period	Benchmark period of origin of the area represented in the polygon cell.	Manual	String	254
SBFLR_SRC	Sub-Sea Floor Source	Sources used to identify historic character. Attribute values to record supplier, date, precise GIS filename. To include reference to the scale of original data used.	Manual	String	254
SBFLR_CNF	Sub-Sea Floor Confidence	Degree of certainty/confidence of HSC interpretation of present historic character.	Manual	String	254
SBFLR_NTS	Sub-Sea Floor Notes	Further background information on history of the polygon. Expansion on information recorded at broad character and sub-character levels.	Manual	String	254
SBFLR_LINK	Sub-Sea Floor Link	URL hyperlink to Character Type texts and multi-media.	Manual	String	254
PRVS_SBTY1	Previous Character Sub-Type 1	Previous historic character for which evidence is available. Recorded for multiple time-slices on basis of source dataset.	Manual	String	254
PRVS_SBTY2	Previous Character Sub-Type 2		Manual	String	254
PRVS_SBTY3	Previous Character Sub-Type 3		Manual	String	254

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
PRVS_SBTY4	Previous Character Sub-Type 4		Manual	String	254
PRVS_SBTY5	Previous Character Sub-Type 5		Manual	String	254
PRVS_PRD1	Previous Period 1	Benchmark period of origin of the area represented in the polygon. Recorded for present historic character levels and previous historic character.	Manual	String	254
PRVS_PRD2	Previous Period 2		Manual	String	254
PRVS_PRD3	Previous Period 3		Manual	String	254
PRVS_PRD4	Previous Period 4		Manual	String	254
PRVS_PRD5	Previous Period 5		Manual	String	254
PRVS_SRC1	Previous Source 1	Sources used to identify historic character. Attribute values to record supplier, date, precise GIS filename. To include reference to the scale of original data used.	Manual	String	254
PRVS_SRC2	Previous Source 2		Manual	String	254
PRVS_SRC3	Previous Source 3		Manual	String	254
PRVS_SRC4	Previous Source 4		Manual	String	254
PRVS_SRC5	Previous Source 5		Manual	String	254
PRVS_CNF1	Previous Confidence 1	Degree of certainty/confidence of HSC interpretation of present historic character.	Manual	String	254
PRVS_CNF2	Previous Confidence 2		Manual	String	254
PRVS_CNF3	Previous Confidence 3		Manual	String	254
PRVS_CNF4	Previous Confidence 4		Manual	String	254
PRVS_CNF5	Previous Confidence 5		Manual	String	254
PRVS_NTS1	Previous Notes 1	Further background information on history of the polygon. Expansion on information recorded at broad character and sub-character levels.	Manual	String	254
PRVS_NTS2	Previous Notes 2		Manual	String	254
PRVS_NTS3	Previous Notes 3		Manual	String	254
PRVS_NTS4	Previous Notes 4		Manual	String	254
PRVS_NTS5	Previous Notes 5		Manual	String	254
PRVS_LINK1	Previous Link 1	URL hyperlink to Character Type texts and multi-media.	Manual	String	254
PRVS_LINK2	Previous Link 2		Manual	String	254
PRVS_LINK3	Previous Link 3		Manual	String	254
PRVS_LINK4	Previous Link		Manual	String	254

Field name	Field alias	Description and guidance, terminology	Population method	Data type	Field length
	4				
PRVS_LINK5	Previous Link 5		Manual	String	254
CA1	Character Area 1	Unique Character Area.	Manual	String	254
CA2	Character Area 2		Manual	String	254
LCTN	Location	General location (eg. Offshore marine, inshore marine, estuary, coast etc).	Manual	String	254
CELL_SZ	Cell Size	Size of grid used for gridded sea data (eg. 250m etc), un-gridded land data should have the value 0..	Manual	Double	19
CRT_DT	Creation Date	Date of dataset /polygon creation/completion.	Manual	String	254
CRTR	Creator	Name of the person/organisation who compiled the HSC.	Manual	String	254
HSC_LINK_ID	Link Table ID	ID for link to hyperlink summary table.	Manual	Double	19
Shape_Length	Shape Length	Polygon length in metres automatically generated and updated by database.	Automated	Double	19
Shape_Area	Shape Area	Polygon area in metres squared, automatically generated and updated by database.	Automated	Double	19

Use of hyperlinks to the HSC and HLC Texts



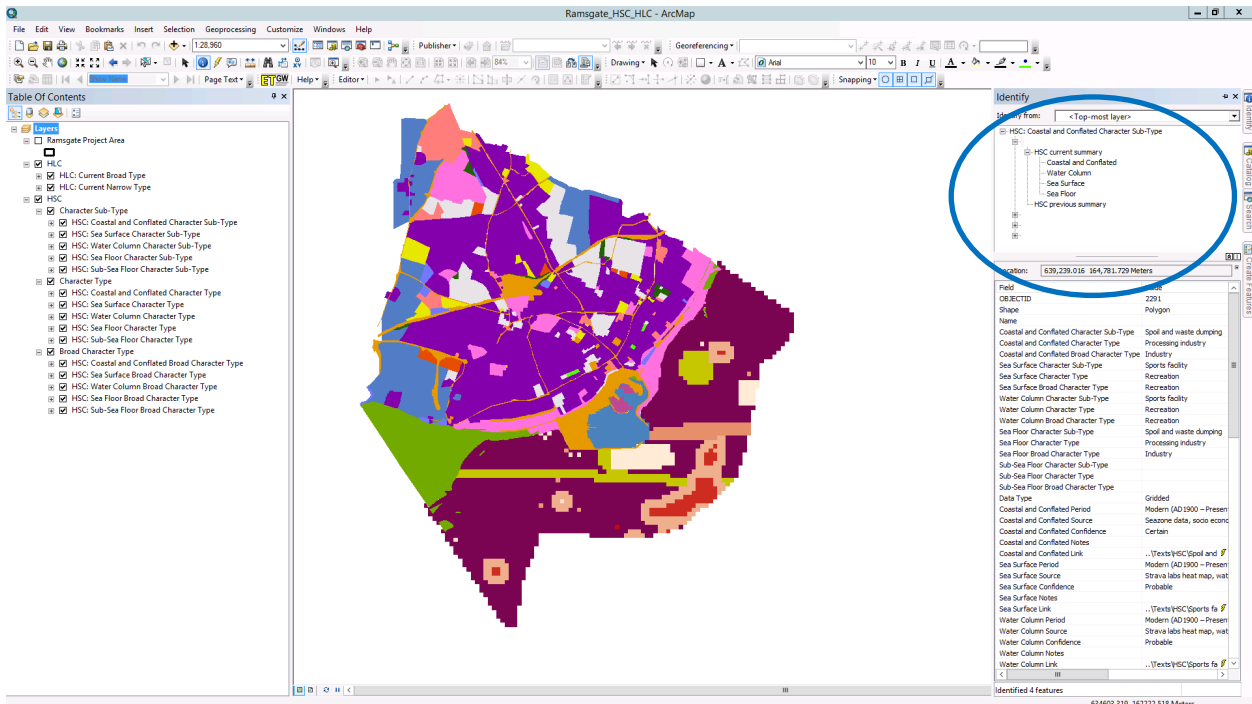
- 2.5 The MXD has been set up to better facilitate access to the attribute data stored in the database. The hyperlinks to the HLC Narrow Type and HSC Sub-type texts can be used by activating the hyperlink tool  and clicking on a polygon on the required data set. By doing so, the relevant Text will load. This is reliant on the GIS user having kept the folder structure of the GIS data and linked texts intact (as supplied). If the folders are moved, the links will not work.
- 2.6 Alternatively, the texts' hyperlinks can also be viewed and selected from each polygon's or grid cell's attribute table via use of the identify tool . Using this approach gives the user access to Sub-type texts for all of the HSC marine levels as well as those associated with the previous Sub-types.
- 2.7 **Figure 2.2** shows the identify window pane on the right hand side, the marine levels and previous character are available to choose from and the hyperlink can be activated from the identify tool bar.

Figure 2.2 Use of the identify tool to access all hyperlinks



Layer files

- 2.8 The NHSC symbology is applied to HSC data in the Ramsgate_HSC_HLC MXD and new symbology has been created for the HLC data Broad Types and Narrow Types. If the symbology needs to be applied to the data in a new MXD, the NHSC or newly created HLC layer files can be used.
- 2.9 The layer files can be used by adding them to the MXD with the HSC and/or HSC data. In the data *Properties*, the symbology can be imported from the layer file (Figure 2.3).
- 2.10 The new HLC Narrow Type layer file is grouped by Broad Type (example shown in Figure 2.4). The NHSC Character Sub-type symbology is grouped by Broad Character Type (example shown in Figure 2.5).

Figure 2.3 Applying a layer file

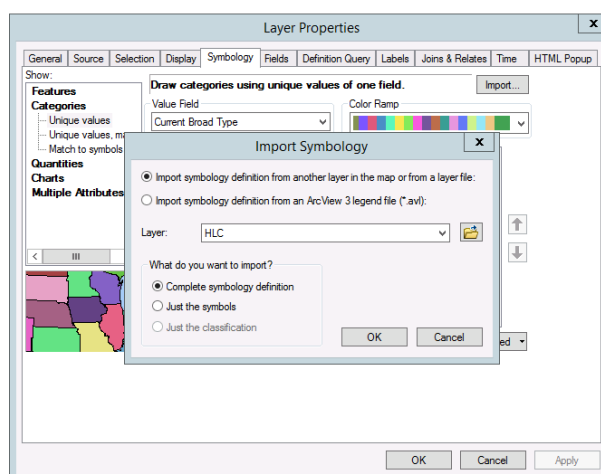


Figure 2.4 Example of HLC Narrow Type symbology grouped by Broad Type.

- HLC: Current Narrow Type
 - Civic Amenities
 - Reservoir
 - Waste Disposal (Recycling)
 - Waste Disposal (Sewage Works)
 - Civic Provision
 - Cemetery
 - Civic Centre
 - College Campus
 - Court House
 - Crematorium Complex
 - Emergency services
 - Government Office
 - Hospice
 - Hospital
 - Library Complex
 - Medical Centre
 - Museum Complex
 - Place Of Worship (Church)
 - School
 - Commerce
 - Business Park
 - Distribution Centre
 - Hotel
 - Public House

Figure 2.5 Example of HSC Character Sub-type grouped by Broad Character Type

- Civic provision
 - Educational establishment
 - Government office
 - Prison hulk
- Coastal infrastructure
 - Flood and erosion defence
 - Flood defence
 - Sea defence
- Commerce
 - Financial institution
- Communications
 - Bridge
 - Canal
 - Civilian airfield
 - Railway
 - Road
 - Submarine telecommunications cable
 - Telecommunications
 - Tramway
 - Tunnel
- Cultural topography
 - Cliff
 - Cultural topography (marine) (unspecified)
 - Palaeolandscapes component
 - Coarse sediment plains
 - Dunes
 - Exposed bedrock
 - Fine sediment plains
 - Lagoon
 - Lake, pond
 - Mixed sediment plains