

Cardiff Coastal Defences

Environmental Statement

Final Report

September 2021



Llywodraeth Cymru
Welsh Government

JBA Project Manager

Anne-Marie Moon
JBA Consulting
Kings Chambers
8 High Street
Newport
NP20 1FQ

Revision history

Revision Ref/Date	Amendments	Issued to
v1 / 22/04/2021	Draft Report	Cardiff Council/PAC
v2 / 01/09/2021	Final Report	Cardiff Council /NRW ML Team

Contract

This report describes work commissioned by Cardiff Council. Hannah Hepworth, Harry Rowlands and Tim Carter of JBA Consulting carried out this work.

Prepared by Hannah Hepworth BSc MSc
Environmental Consultant

Prepared by Harry Rowlands BA
Environmental Consultant

Reviewed by Tim Carter BSc MSc CMLI MIEMA CEnv
Technical Director

Purpose

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EIA Quality Mark

This Environmental Statement, and the Environmental Impact Assessment (EIA) carried out to identify the significant environmental effects of the proposed development, was undertaken in line with the EIA Quality Mark Commitments.

The EIA Quality Mark is a voluntary scheme, operated by IEMA, through which EIA activity is independently reviewed, on an annual basis, to ensure it delivers excellence in the following areas:

- *EIA Management*
- *EIA Team Capabilities*
- *EIA Regulatory Compliance*
- *EIA Context & Influence*
- *EIA Content*
- *EIA Presentation*
- *Improving EIA practice*



To find out more about the EIA Quality Mark please visit: <http://www.iema.net/eia-quality-mark/>

Appendix E: Extent of the LANDMAP aspect areas

Appendix F: Summary of the LANDMAP aspect attribute tables

Appendix G: Landscape viewpoints

Appendix H: Landscape Mitigation Plan

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Appendix L: Ground Investigation Report

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Appendix E: Extent of the LANDMAP aspect areas

Appendix F: Summary of the LANDMAP aspect attribute tables

Appendix G: Landscape viewpoints

Appendix H: Landscape Mitigation Plan

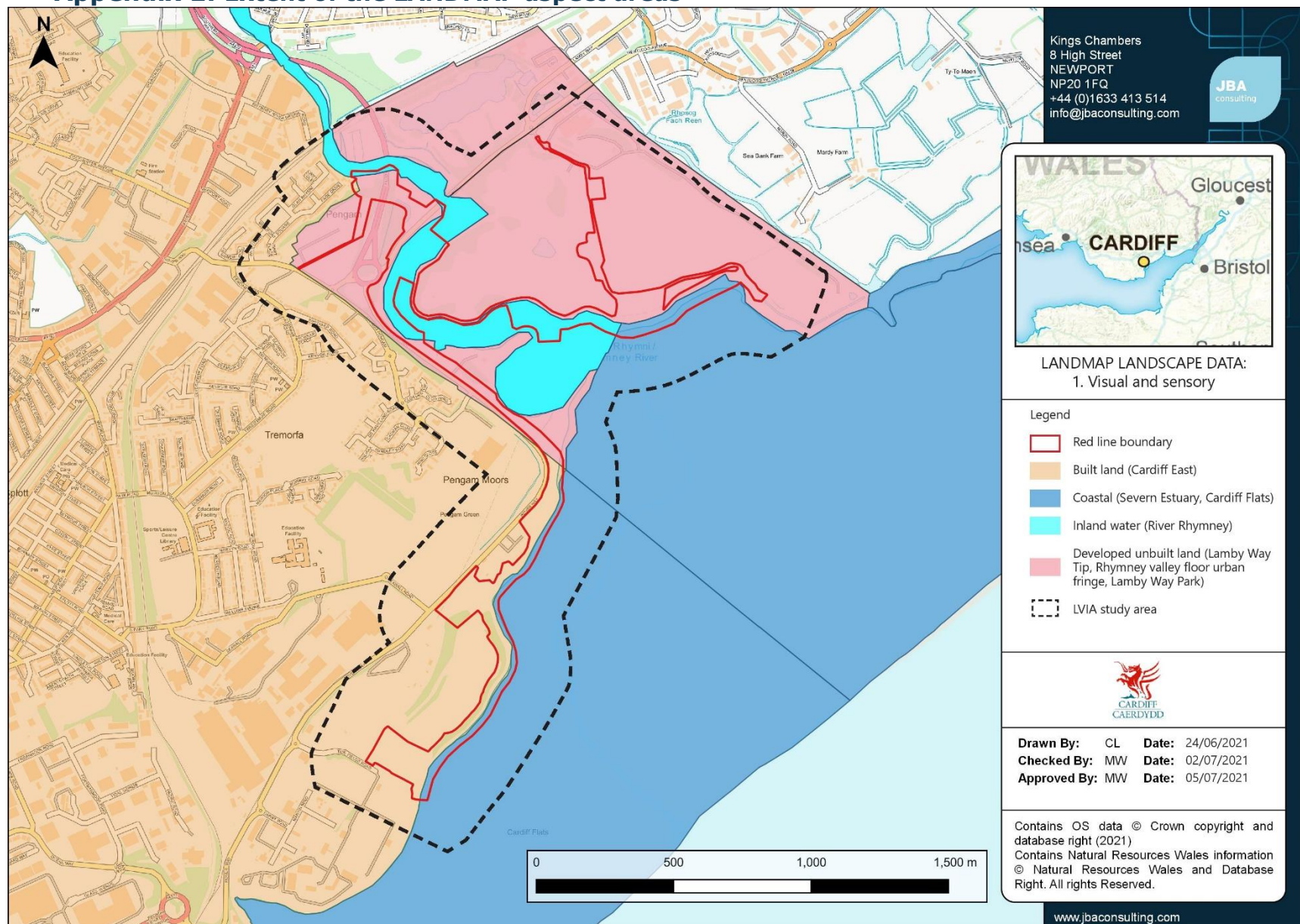
Appendix I: Glamorgan-Gwent Archaeological Trust Desk-Based Assessment

Appendix J: Designated heritage assets

Appendix K: Glamorgan-Gwent Archaeological Trust Site Walkover Survey

Appendix L: Ground Investigation Report

Appendix E: Extent of the LANDMAP aspect areas



Kings Chambers
8 High Street
NEWPORT
NP20 1FQ
+44 (0)1633 413 514
info@jbaconsulting.com



LANDMAP LANDSCAPE DATA: 2. Historic Landscape

Legend

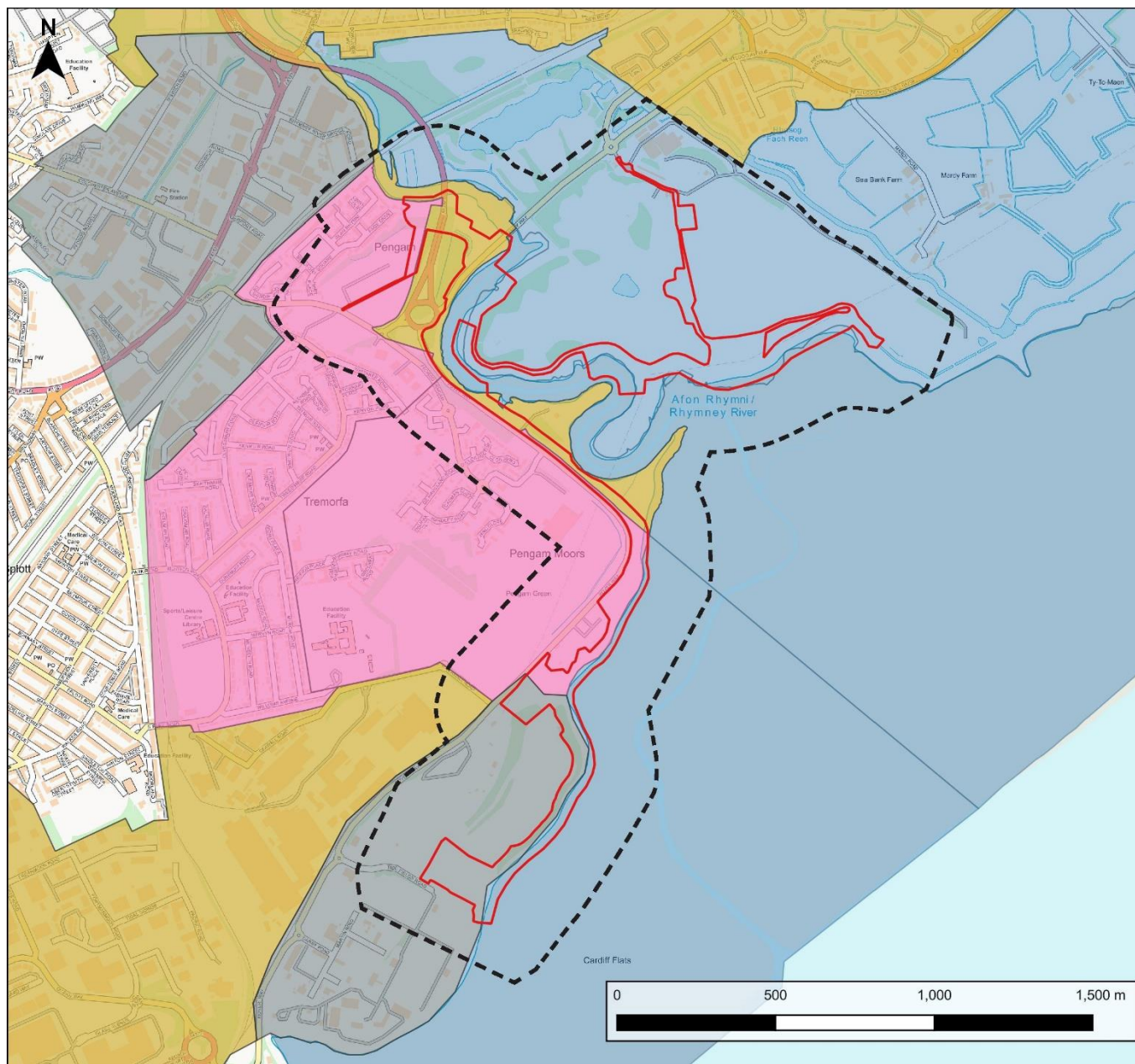
- Red line boundary
- Settlement (Pengam Moor, Tremorfa)
- Non agricultural (Southwest Wentloog Level, Rumney Intertidal Zone, Cardiff Flats)
- Industrial (Cardiff Flats Reclaimed Land)
- Other built environment (River Rhymney Corridor, East Moors)
- LVIA study area

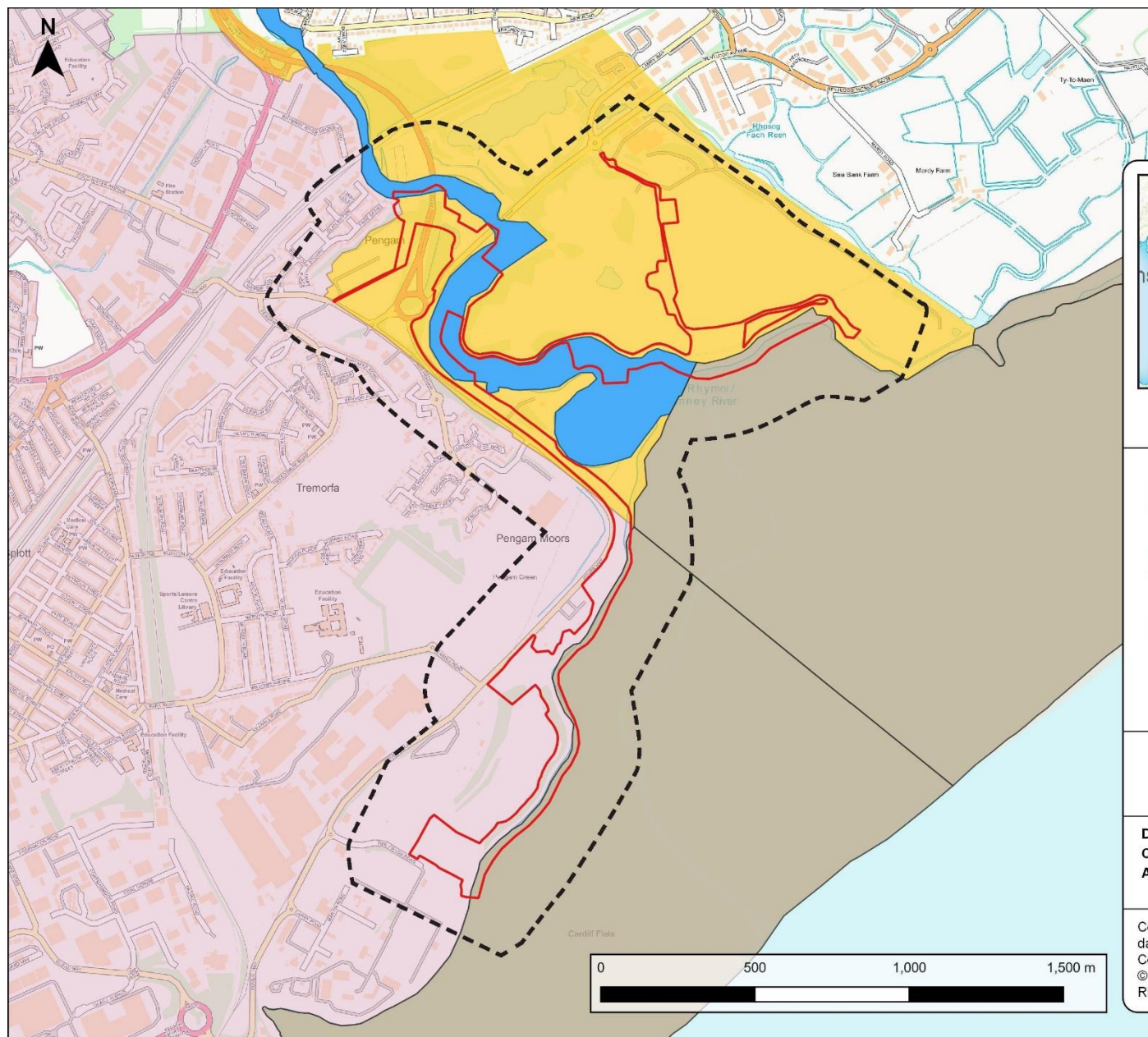


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Checked By: MW **Date:** 02/07/2021
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LANDMAP LANDSCAPE DATA: 3. Cultural Landscape Services

Legend

- Red line boundary
- Urban (Cardiff East)
- River (River Rhymney)
- Coastal (Cardiff Flats, Severn Estuary)
- Developed unbuilt land (Rhymney valley floor urban fringe, Lamby Way Park, Lamby Way Tip)
- LVIA study area

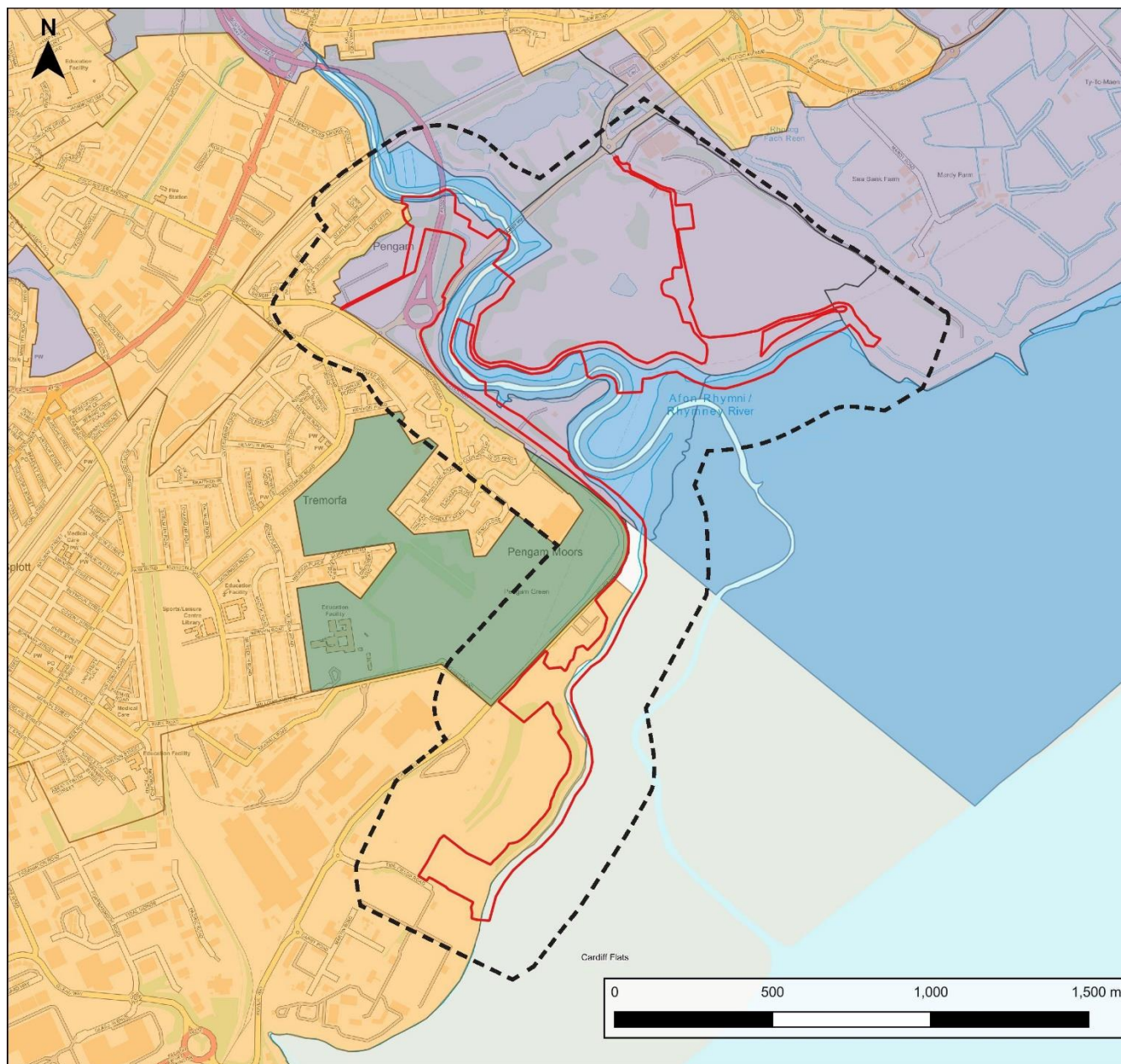


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LANDMAP LANDSCAPE DATA:
4. Landscape Habitats

Legend

- Red line boundary
- Built Up Areas (Maindy to Splott, Cardiff Docks and Atlantic Wharf)
- Coastland (Rhyymney Estuary, Rhyymney Mudflats)
- Mosaic (Lamby Tip, Lamby Lake & surrounds, Wentlooge Levels - S. of Rhyymney, West of Rhyymney Estuary)
- Grassland & Marsh (Pencarn Green and Tremorfa Park)
- LVIA study area - blank areas contain no LANDMAP data



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LANDMAP LANDSCAPE DATA: 5. Geological Landscape

Legend

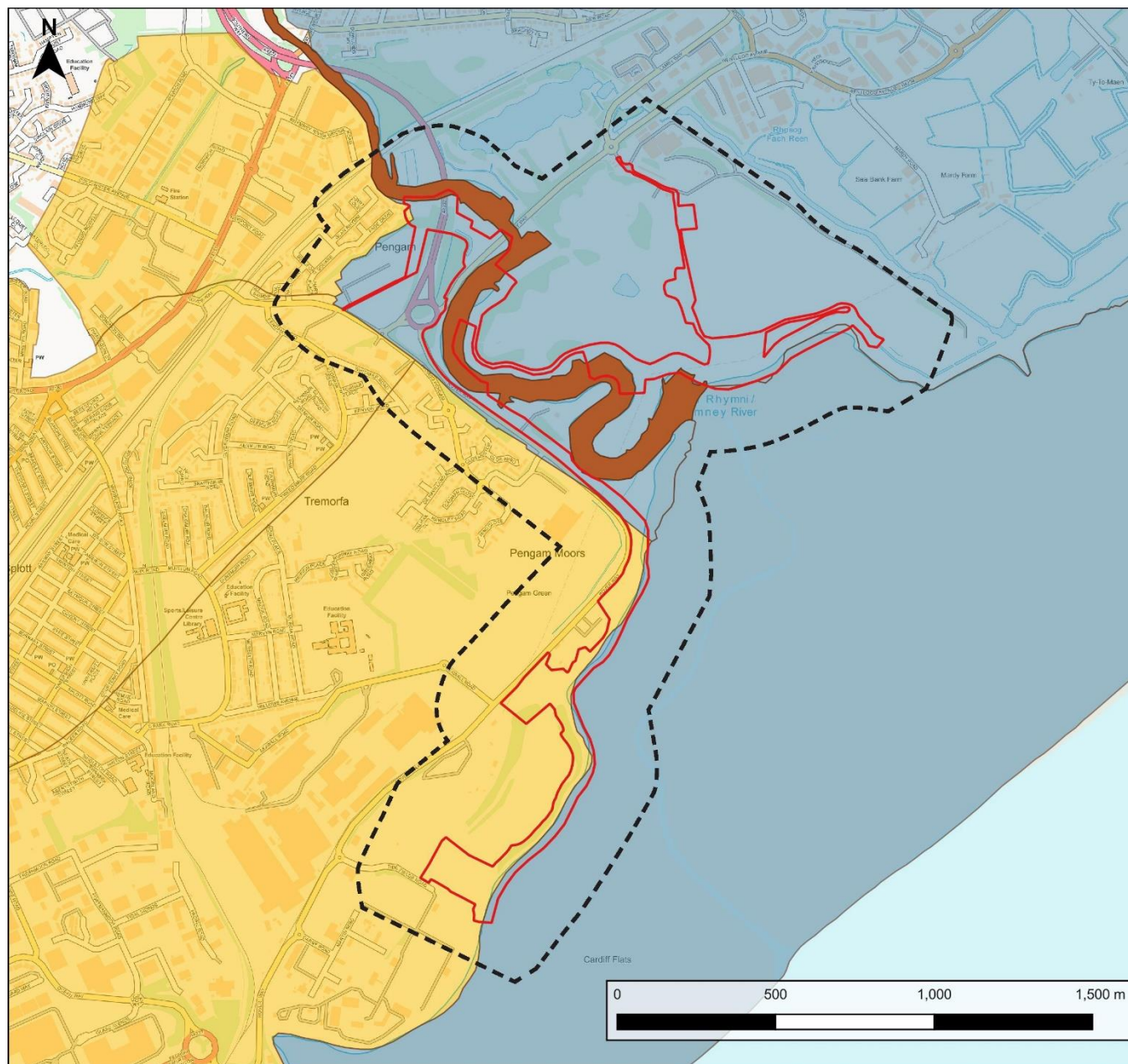
- Red line boundary
- Coastal (Newton, Cardiff Flats)
- Lowland hills and valleys (Rhymer/ Rhymer river)
- Man-made (Docks, East and Pengam Moors, Cathays - Roath, N Pengam)
- LVIA study area



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Appendix F: Summary of the LANDMAP aspect attribute tables

LANDMAP data set	Question nr.	Question
Geological Landscape	2	Does this area have a special or functional link with an adjacent area?
	31	Evaluation Criteria: Rarity / Uniqueness
	33	Evaluation Criteria: Overall Evaluation
Landscape Habitats	42	Evaluation Criteria: Connectivity/Cohesion
	45	Evaluation Criteria: Overall Evaluation Habitat and Species
Cultural Landscape Services	10	Is there any folklore or are there legends that are particularly famous or associated with the Aspect Area? Specify.
	12	Are there any technical / scientific discoveries that are particularly famous or associated with the Aspect Area? Specify.
	13	What are the attributes of the cultural elements in the Aspect Area?
Visual & Sensory	46	Evaluation Criteria: Scenic quality
	48	Evaluation Criteria: Character
	50	Evaluation Criteria: Overall Evaluation
Historic Landscape	40	Evaluation Criteria: Overall Evaluation

1. Geological Landscape

Table 1-1

Survey Date	28/02/2018	08/10/2007	27/02/2018	27/02/2018	27/02/2018	27/02/2018
UID	CRDFFGL040	CRDFFGL001	CRDFFGL038	CRDFFGL037	CRDFFGL036	CRDFFGL039
AreaName	Cathays - Roath	Newton	N Pengam	Rhymney river	Docks, East and Pengam Moors	Cardiff Flats
Region	Cardiff	Cardiff	Cardiff	Cardiff	Cardiff	Cardiff
CLS1	Man-made	Coastal	Man-made	Lowland hills and valleys	Man-made	Coastal
CLS2	Man-made	Estuary	Man-made	Lowland river and drainage systems	Man-made	NULL
CLS3	Engineered features and reclaimed / infilled land	Other	Engineered features and reclaimed / infilled land	Active lowland river-flood plain system	Engineered features and reclaimed / infilled land	NULL
GL2	No	Yes	No	Yes	Yes	Yes
GL31	Moderate	High	Low	Moderate	Low	Moderate
GL33	High	High	Low	Moderate	Low	Moderate

2. Landscape Habitats

Table 2-1

Survey Date	20/02/2018	21/02/2018	08/10/2007	08/10/2007	21/02/2018
UID	CRDFFLH051	CRDFFLH058	CRDFFLH001	CRDFFLH005	CRDFFLH060
AreaName	Cardiff Docks and Atlantic Wharf	Maindy to Splott	Rhymney Mudflats	Rhymney Estuary	Pengam Green and Tremorfa Park
Region	Cardiff	Cardiff	Cardiff	Cardiff	Cardiff
CLS1	Dry (Relatively) Terrestrial Habitats	Dry (Relatively) Terrestrial Habitats	Coastal & Marine Habitats	Coastal & Marine Habitats	Dry (Relatively) Terrestrial Habitats
CLS2	Built Up Areas	Built Up Areas	Coastland	Coastland	Grassland & Marsh
CLS3	Industrial	Residential/Green Space	Intertidal, Including Muds/Sands, Saltmarsh, Shingle/Gravel	Intertidal, Including Muds/Sands, Saltmarsh, Shingle/Gravel	Improved Grassland

			and Boulders/Rocks	and Boulders/Rocks	
LH42	Moderate	Low	Moderate	High	Moderate
LH45	Low	Low	Outstanding	High	Moderate

Table 2-2

Survey Date	10/10/2007	09/10/2007	11/10/2007	08/10/2007	
UID	CRDFFLH002	CRDFFLH004	CRDFFLH006	CRDFFLH007	
AreaName	Wentlooge Levels (S. of Rhymney)	Lamby Tip	West of Rhymney Estuary	Lamby Lake & surrounds	
Region	Cardiff	Cardiff	Cardiff	Cardiff	
CLS1	Dry (Relatively) Terrestrial Habitats	Dry (Relatively) Terrestrial Habitats	Dry (Relatively) Terrestrial Habitats	Dry (Relatively) Terrestrial Habitats	
CLS2	Mosaic	Mosaic	Mosaic	Mosaic	
CLS3	Mosaic	Mosaic	Mosaic	Mosaic	
LH42	High	Unassessed	Unassessed	Unassessed	
LH45	Outstanding	Moderate	Moderate	Moderate	

3. Cultural Landscape services

Table 3-1

Survey Date	05/03/2019	05/03/2019	05/03/2019	05/03/2019	05/03/2019
UID	CRDFFCLS039	CRDFFCLS078	CRDFFCLS079	CRDFFCLS051	CRDFFCLS076
AreaName	Wentlooge Levels south west	Lamby Way Park	Rhymney valley floor urban fringe	Cardiff Flats	River Rhymney
Region	Cardiff	Cardiff	Cardiff	Cardiff	Cardiff
CLS1	Lowland	Development	Development	Lowland	Water
CLS2	Flat Lowland/Levels	Developed Unbuilt Land	Developed Unbuilt Land	Coastal	Inland Water
CLS3	Flat Open Lowland Farmland	Amenity Land	Informal Open Space	Intertidal	River
CLS10	Moderate	Moderate	Low	Outstanding	Moderate
CLS12	Low	Moderate	Low	Outstanding	Moderate
CLS13	Outstanding	Moderate	Moderate	Outstanding	Moderate

Table 3-2

Survey Date	05/03/2019	05/03/2019	05/03/2019
UID	CRDFFCLS112	CRDFFCLS041	CRDFFCLS049
AreaName	Lamby Way Tip	Severn Estuary	Cardiff East
Region	Cardiff	Cardiff	Cardiff

CLS1	Development	Lowland	Development
CLS2	Developed Unbuilt Land	Coastal	Built Land
CLS3	Derelict/Waste Ground	Intertidal	Urban
CLS10	Low	Outstanding	NULL
CLS12	Low	High	NULL
CLS13	Low	Outstanding	NULL

4. Visual & Sensory

Table 4-1

Survey Date	05/09/2017	03/10/2007	01/10/2007	06/10/2007	05/09/2017
UID	CRDFFVS037	CRDFFVS055	CRDFFVS083	CRDFFVS032	CRDFFVS039
AreaName	Cardiff East	Lamby Way Park	Lamby Way Tip	Severn Estuary	Cardiff Flats
Region	Cardiff	Cardiff	Cardiff	Cardiff	Cardiff
CLS1	Development	Development	Development	Lowland	Lowland
CLS2	Built Land	Developed Unbuilt Land	Developed Unbuilt Land	Coastal	Coastal
CLS3	Urban	Amenity Land	Derelict/Waste Ground	Intertidal	Intertidal
VS46	NULL	Moderate	Low	High	Outstanding
VS48	NULL	Moderate	Low	Outstanding	Outstanding
VS50	NULL	Moderate	Low	Outstanding	Outstanding

Table 4-2

Survey Date	03/10/2007	03/10/2007
UID	CRDFFVS053	CRDFFVS056
AreaName	River Rhymney	Rhymney valley floor urban fringe
Region	Cardiff	Cardiff
CLS1	Water	Development
CLS2	Inland Water (Including Associated Edge)	Developed Unbuilt Land
CLS3	River	Informal Open Space
VS46	Moderate	Low
VS48	Moderate	Moderate
VS50	Moderate	Low

5. Historic Landscape

Table 5-1

Survey Date	05/11/2007	19/03/2018	19/03/2018	19/03/2018	05/11/2007
UID	CRDFFHL008	CRDFFHL059	CRDFFHL058	CRDFFHL060	CRDFFHL011

AreaName	River Rhymney Corridor	Pengam Moor	Tremorfa	Cardiff Flats Reclaimed Land	Southwest Wentloog Level
Region	Cardiff	Cardiff	Cardiff	Cardiff	Cardiff
CLS1	Built environment	Built environment	Built environment	Built environment	Rural environment
CLS2	Other built environment	Settlement	Settlement	Industrial	Non agricultural
CLS3	Communications	Non-nucleated Settlement	Nucleated Settlement	Processing/Manufacturing	Reclaimed land
HL40	Moderate	Moderate	Moderate	Moderate	Outstanding

Table 5-2

Survey Date	05/11/2007	19/03/2018	19/03/2018
UID	CRDFFHL012	CRDFFHL032	CRDFFHL052
AreaName	Rumney Intertidal Zone	Cardiff Flats	East Moors
Region	Cardiff	Cardiff	Cardiff
CLS1	Rural environment	Rural environment	Built environment
CLS2	Non agricultural	Non agricultural	Other built environment
CLS3	Water & Wetland	Water & Wetland	Designed
HL40	Outstanding	High	Moderate

Appendix G: Landscape viewpoints



Note: This is a supporting panorama image. Annotated Viewpoint photograph is on following page.

Viewpoint location plan

Proposed development location



Viewpoint location



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Location: Cwrt Coles car park adjacent to the railway line

OS Grid Reference: ST 21211 78233

Distance to site: 0.19 km

Camera direction: SE

Viewpoint elevation: 8.49m AOD

Camera model: Nikon D7000

Date of Photography: 03/06/21

Camera lens: DX 35mm fixed lens

35mm equivalent: 50mm fixed lens

Horizontal field of view: 90° (panorama);
54.4° (annotated viewpoint photograph)

Height of Camera above ground: 1.55m

Weather Conditions: dry, clear, overcast

Cardiff Coastal Scheme
Landscape and Visual Impact Assessment
Project: 2019s0183

Viewpoint 1
supporting panorama

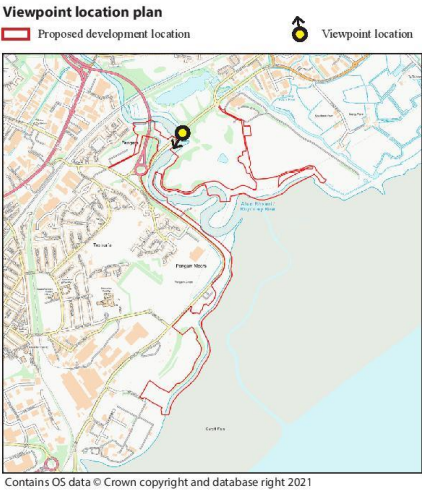
JBA Consulting
Kings Chambers
8 High Street, Newport
NP20 1FQ
t: +44 (0)1633 413 514
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Note: This is a supporting panorama image. Annotated Viewpoint photograph is on following page.



Location: WCP next to the bridge over the River Rhymney on Lamby Way

OS Grid Reference:	ST 21679 78060
Distance to site:	0.02 km
Camera direction:	SW
Viewpoint elevation:	8.85m AOD
Camera model:	Nikon D7000
Date of Photography:	03/06/21

Camera lens:	DX 35mm fixed lens
35mm equivalent:	50mm fixed lens
Horizontal field of view:	90° (panorama); 54.4° (annotated viewpoint photograph)
Height of Camera above ground:	1.55m
Weather Conditions:	dry, clear, overcast

Cardiff Coastal Scheme

Landscape and Visual Impact Assessment

Project: 2019s0183

Viewpoint 2

supporting panorama

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Kings Chambers

8 High Street, Newport

NP20 1PQ

t | +44 (0)1633 413 514

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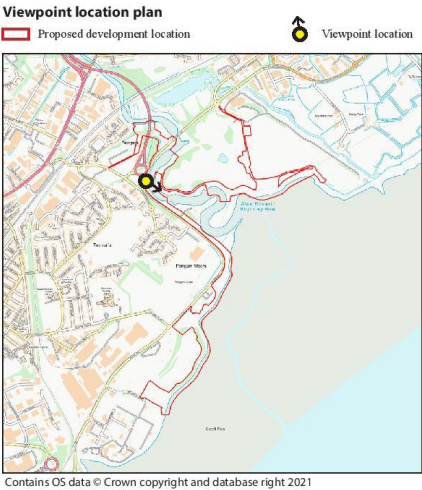
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Note: This is a supporting panorama image. Annotated Viewpoint photograph is on following page.



Location: WCP/PRoW in between River Rhymney and Rover Way, adjacent to the roundabout

OS Grid Reference:

ST 21445 77615

Distance to site:

Within site boundary

Camera direction:

SE

Viewpoint elevation:

8.60m AOD

Camera model:

Nikon D7000

Date of Photography:

03/06/21

Camera lens:

DX 35mm fixed lens

35mm equivalent:

50mm fixed lens

Horizontal field of view:

90° (panorama);
54.4° (annotated viewpoint photograph)

Height of Camera above ground:

1.55m

Weather Conditions:

dry, clear, overcast

Cardiff Coastal Scheme

Landscape and Visual Impact Assessment

Project: 2019s0183

Viewpoint 3

supporting panorama

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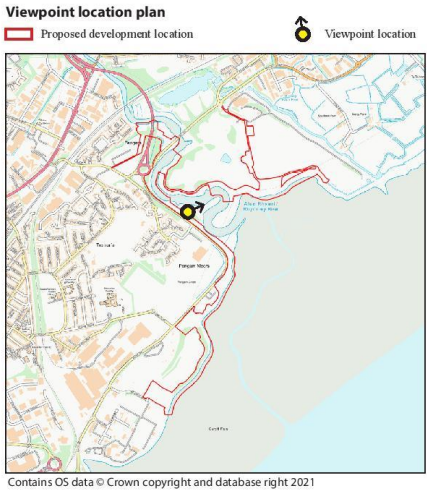
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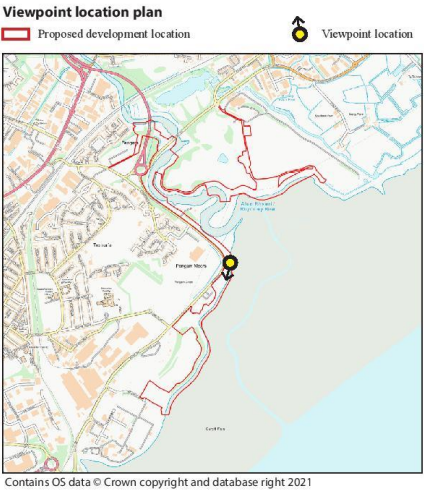


Location: WCP/PRoW in between The Rhymney River Motor Boat, Sail & Angling Club and Rover Way				Cardiff Coastal Scheme	
				Landscape and Visual Impact Assessment	
				Project: 2019s0183	
				Viewpoint 4	
				supporting panorama	
OS Grid Reference:	ST 21584 77489	Camera lens:	DX 35mm fixed lens	JBA Consulting Kings Chambers 8 High Street, Newport NP20 1PQ t +44 (0)1633 413 514 e info@jbaconsulting.com www.jbaconsulting.com JBA consulting	
Distance to site:	Within site boundary	35mm equivalent:	50mm fixed lens		
Camera direction:	NE	Horizontal field of view:	90° (panorama); 54.4° (annotated viewpoint photograph)		
Viewpoint elevation:	9.59m AOD	Height of Camera above ground:	1.55m		
Camera model:	Nikon D7000	Weather Conditions:	dry, clear, overcast		
Date of Photography:	03/06/21				





Note: This is a supporting panorama image. Annotated Viewpoint photograph is on following page.



Location:

WCP/PRow approx. 200m northeast from the Traveller's site

OS Grid Reference:

ST 22049 77053

Distance to site:

Within site boundary

Camera direction:

S

Viewpoint elevation:

8.56m AOD

Camera model:

Nikon D7000

Date of Photography:

03/06/21

Cardiff Coastal Scheme

Landscape and Visual Impact Assessment

Project: 2019s0183

Viewpoint 5

supporting panorama

Camera lens:

DX 35mm fixed lens

35mm equivalent:

50mm fixed lens

Horizontal field of view:

90° (panorama);
54.4° (annotated viewpoint photograph)

Height of Camera above ground:

1.55m

Weather Conditions:

dry, clear, overcast



Appendix I: Glamorgan-Gwent Archaeological Trust Desk-Based Assessment

Appendix J: Designated heritage assets

Designated Heritage Assets

ID	Period	Type	NGR	Description
HLW(Gt)2	Roman - Modern	Historic Landscape	ST 271 806	The Outstanding Historic Landscape of Gwent Levels comprises three discrete and extensive areas of alluvial wetlands and intertidal mudflats situated on the north side of the Severn Estuary represent the largest and most significant example in Wales of a 'hand-crafted' landscape. They are entirely the work of man, having been recurrently inundated and reclaimed from the sea from the Roman period onwards. The areas have distinctive patterns of settlement, enclosure and drainage systems belonging to successive periods of use, and a proven and possibly quite vast potential for extensive, well-preserved, buried, waterlogged, archaeological and palaeoenvironmental deposits surviving from earlier landscapes.

Non-designated Heritage Assets

ID	Period	Type	NGR	Description
02324s	Unknown	Monument	ST225777	A former drainage ditch or reen seen near ST225777 that is visible in a small island of Little Wharf, which owing to recent erosion has become isolated from the main saltmarsh. It is cut into the Wentlooge Formation, and there is also evidence for the recutting of a smaller reen on the same course as the original one. Inspection of the erosional embayments of the nearby saltmarsh edge at Little Wharf suggest that there might be further reens, although exposures of such features were obscured by the most recent beach deposits.
02788s	Medieval	Monument	ST228777	The possible site of a medieval mill.
02812.0s	Post-medieval	Monument	ST218773	Sea defences/post medieval Sea-defence bank north of Splott Moors, shown on 1st ed OS map. The north edge of Splott Moors is shown as a seaward bank with a back-ditch. A rapid site visit was undertaken to assess the site's current land use and to check for the presence of unrecorded archaeological sites. The visit confirmed the cartographic evidence for extensive industrial workings and dumping inland of the current coastline. The old Rover Works has now been cleared to ground level. It is improbable that any traces of the old sea bank (EB 3) survive.
03990s	Modern	Monument	ST2166077502	A modern slipway leading from a boatyard on the west bank of the river Rumney, the structure was not depicted on any OS maps.

05865s/RE001	Post-medieval	Monument	ST2277077670	The Pil Melyn was a watercourse running behind the sea defences, into which the low lying farmland drained. Visible on the 1823 Survey of the sea defences, and appeared on the later Ordnance Survey (1st - 4th edition) mapping as a sluice.
05866s/RE002	Unknown	Monument	ST2167377668	Earthworks first visible on the First Edition Ordnance Survey Map, They appear on subsequent Ordnance Survey Mapping until the Fourth Edition, and on aerial photographs until 1988, when they were buried with the expansion of the Lamby Tip.
05867s/RE003	Unknown	Monument	ST2160077515	A stone marked on the First Edition Ordnance Survey Map. Located on the western side of the estuary, just above the high water mark, its date is unclear: it is possible that it could be anywhere from prehistoric to nineteenth century in date. It had gone by the time of the Second Edition Map. This short-lived appearance in the historic mapping may suggest a relatively recent origin for the stone.
RE006	Modern	Monument	ST2146377957	Allotment Gardens, first visible on the 1941 Ordnance Survey Map and wartime aerial photographs. It is possible that they may have first been planted as part of the 'Dig for Victory' campaigns to support self-sufficiency during the Second World War. They survived the end of the war and continue to be used, although from 1962 they became increasingly fragmented with the construction of roads and other development. The surviving area is sited well away from the river and separated from it by the modern A4232 road.
05870s/RE007	Modern	Monument	ST2200077600	A series of posts forming a distinctive intersecting pattern, visible on the 1941 and 1948 aerial photographs. Their exact purpose is speculative, although it seems likely that they may have been anti-glider poles, other anti-invasion defences, or possibly a decoy site, constructed to divert the attention of German aircraft from other targets (for example RAF Pengam Moor). They had disappeared by 1948.
RE008	Modern	Monument	ST21997718	A brick built structure, first identified on the 1948 aerial photographs as a 'C' shaped. A subsequent site visit found that it consisted of a structure at least 10.6m in length by 4.45m in width, and constructed of red bricks with frogs to an English bond, with a grey cement matrix. The walls measures 0.6m wide. The lowest four courses were each stepped out approximately 0.055m from the ones above, giving a foundation which protruded 0.23m from the rest of the structure. Some of the brick were stamped 'Star'. Three ceramic pipes, 0.1m in diameter were visible at intervals in the southeast facing elevation at the top of the stepped foundation. The walls survived to a maximum height of 1.05m above the existing ground surface. Additionally, the remains of a possible doorway were visible in the southeast facing elevation, 9.1m from the eastern corner of the building and at least 1.5m wide: the remains of a wooden door were recognisable near this opening, although it is unclear whether this door belonged to this structure. The function of the structure remains unknown although the date suggests that it may be related to the wartime (or possibly post-war)

				airfield of Pengam Moor. It cannot be proven that the structure definitely relates to the airfield, however, and it may have had other, unknown functions.
02882s	Bronze Age	Findspot	ST2277	Middle Bronze Age side-looped spearhead recorded in Cadw Coastal Archaeology Survey (Green 1989; Locock 1998). Metal object found unstrat on estuarine clay during field survey (Green 1989; Bell et al. 2000).
06434s	Modern	Monument	ST21447754	Small Arms Range, Cardiff. Identified as removed by the Pillbox study group as part of their database collection on modern defense sites.
01453s	Post-medieval	Monument	ST2217477804	Sites of sea wall, extant pre-1588 (OS record card ST 27 NW 11) (Maynard 1995). Manor of Rumney, Monmouthshire. Feb.1590/1 Refers to the re- building of sea wall by the 'Commission', C.1588, at a new site: 'placed' more into the land than before.

Heritage Events

ID	Type	Date	NGR	Description
E002381	DBA	2014	ST22007700	Further exploration of Wentlooge Food Park (also known as Cardiff Food Park) follows E002267. GGAT was commissioned by Cardiff County Council as they intended to develop an area of land on the Wentlooge Level for Class B2 and B8 use (industrial and distribution use). The site consists of 50.6ha of pastoral farmland. As field evaluation was previously recommended (E002267) a borehole survey was carried out in November 1996. The boreholes were sunk by Exploration Associates, which was monitored by GGAT and included work of both percussion tests and sample bores. The borehole study (and previous studies) revealed that the area was close to the alluvial margin, with the bedrock rising sharply towards Spring Meadow with the area having a high archaeological potential, the development closer to the western boundary of the site requires an archaeological mitigation strategy. See E002267/Locock 1995 for further information (Williams 1996).
E003705	DBA	2012	ST2194977468	National Rivers Authority planned to improve the sea defences between Cardiff, South Glamorgan and Sudbrook, Gwent. The work involved enhancement of the existing sea wall and the cutting of a new back-ditch inland of the present line. A landscape survey and evaluation were recommended in advance of work, whilst a watching brief should be carried out during any subsequent work.
E001381	Field Visit	2009	ST2166077502	GGAT 76 Waterfronts in Southeast Wales. This project aimed to provide a deeper insight in the survival of archaeological remains in waterfront locations, which are increasingly under threat from a range of developments. The project has been concerned with trying to enhance understanding of the potential of maritime archaeological remains so that informed decisions regarding the future conservation can be made. Phase 1 (Year 1) of the project studied the historic ports of Chepstow, Newport, Cardiff and Swansea and Phase 2 (Year 2) considered all other small harbours and ports along the coastal fringe and

				estuaries. Site visits were undertaken to assess the condition of these known archaeological interests and to identify and record any previously unrecorded sites, and an assessment of the potential for survival of maritime archaeological remains was made.
E005343	Watching Brief	2005	ST2163377997	Cambria Archaeology were commissioned by Dwr Cymru to undertake a watching brief at Lamby Way, Cardiff, during the installation of a 400mm Trunk extension water pipe. An associated analysis of the site's location and background suggested the potential possibility of preserved maritime structures and relict channels, however none such structures were found. A 5m long pit revealed Silty alluvium containing Modern debris overlain with modern detritus and demolition rubble. The pipe line trench revealed clean redeposited shale. No finds were found. No deposits of archaeological significance were found(Schlee, 2005).
E003726	DBA	1993	ST2227577672	In preparation for an environmental assessment on behalf of Cardiff City Council, GGAT was commissioned to provide the archaeological assessment component of the environmental assessment. The study showed little specific information on the area itself, but the evidence from the surrounding area indicated that there was a high potential for the survival of archaeological and palaeoenvironmental evidence. Two sites, Maerdy farm (PRN 02019s) and the site of a sea wall (PRN 01453s), were identified in the area of study. The study recommended that further research be conducted in to this area before any development commenced given the high archaeological potential of the Levels.

Appendix K: Glamorgan-Gwent Archaeological Trust Site Walkover Survey

Appendix L: Ground Investigation Report

Offices at:

Coleshill
Doncaster
Dublin
Edinburgh
Exeter
Glasgow
Haywards Heath
Isle of Man
Leeds
Limerick
Newcastle upon Tyne
Newport
Peterborough
Saltaire
Skipton
Tadcaster
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Registered Office:

South Barn
Broughton Hall
SKIPTON
North Yorkshire
BD23 3AE
United Kingdom

+44(0)1756 799919
info@jbaconsulting.com
www.jbaconsulting.com
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