

Marine Licence with introductory note

The Marine and Coastal Access Act (2009)

Licence Holder: Cardiff Council

Cardiff Council
County Hall,
Atlantic Wharf,
Cardiff,
CF10 4UW

Cardiff Coastal Defence Scheme

Licence Number: CML2147

7 July 2022

Licence Number: CML2147

Cardiff Coastal Defence Scheme

Marine Licence number: CML2147

Introductory note

This introductory note does not form a part of the marine licence

The main features of the marine licence are as follows.

The scheme is to improve and extend the coastal and fluvial defences in Cardiff along the Rhymney and Severn Estuaries over an area of approximately 40ha.

The status log of the marine licence sets out the marine licence history, including any subsequent marine licence variation(s)

Status log of this marine licence

Description	Date	Comments
Application	Duly made 10/09/2021	Application received and considered to be duly made
Date licence determined	07/07/2022	Determination date

Related marine licences or applications under determination

Not applicable

End of introductory note.

Licence Number: CML2147

MARINE LICENCE, NUMBER CML2147

1 LICENCE DETAILS

1.1 Marine Licence

This is a licence granted by the Licensing Authority in respect of an application numbered CML2147 and duly made on 10 September 2021 and authorises the Licence Holder to carry on activities for which a licence is required under Part 4 of the Marine and Coastal Access Act 2009, (2009 Act). This licence should be interpreted in accordance with **Section 4**.

1.2 Licence Holder

The Licence Holder is the organisation set out below:

Organisation name: Cardiff Council

Address: County Hall, Atlantic Wharf, Cardiff, CF10 4UW

1.3 Licence Validity

Licence Start Date	07 July 2022
Licence End Date	06 July 2029
Licence Issue Date	07 July 2022

1.4 Conditions

This licence is subject to the conditions set out in **Section 3**.

Signed:



Dr. Emmer Litt

For and on behalf of the Licensing Authority

2 LICENSED ACTIVITIES

2.1 Project

Cardiff Coastal Defence scheme aims to improve the existing coastal and fluvial defences. The work comprises of the improvement of coastal flood defences along the Severn Estuary, west and east of its confluence with the Rhymney River, and sections of new fluvial defences along both banks of the Rhymney River from its confluence with the Severn Estuary to Lamby Way bridge over an area of approximately 40ha.

The following Licensed Activities can be conducted within the Licence Period, within the Licensed Area and in accordance with the Approved Application and the Approved Supporting Documents:

Table 1 Licensed Activities

Activity 1 – Construction of Coastal Defence along the coastline	
Type of Licensed Activity	Construction, Alteration or Improvement
Description	<ul style="list-style-type: none"> • Installation of a sloping rock armour revetment of approx. 20m in width along the coastline: two sections of rock armour revetment (2.1km in length, crest of 3.5–4.3m and buried toe of 2.8m in width) with a maximum slope of 1:2.5. • A rock grading of 1 to 3 tonnes with scour protection at the toe embedded to approximately 1.0 metres and a geotextile membrane under the rock armour to stop sediment wash out.
Material types to be removed or deposited	Geotextiles, topsoil, rock, timber, iron/steel, concrete
Activity 2 – Construction of Coastal Defence along the riverbank of the Rhymney River	
Type of Licensed Activity	Construction, Alteration or Improvement
Description	<ul style="list-style-type: none"> • Dycel 220 Erosion protection blocks or similar installed along the slope of the bank with a granular fill and graded formation underneath. • Double layer 450 mm rock armour toe with a soil fill on top to anchor the blocks. • Further up the slope, chestnut stakes will be driven through the Dycel blocks with horizontal logs to be tied to the stakes and brush wood placed in between. • Mud will be placed on top of the Dycel blocks to allow natural re-vegetation.

Licence Number: CML2147

Material types to be removed or deposited	Geotextiles, topsoil, rock, timber, iron/steel, concrete
Combined Quantities and Dimensions for Activity 1 and 2	
Quantities/Dimensions	Maximum of: 50,000 m ² geotextile 10,000m ² embankment fill material 3,000 m ³ topsoil 60,000 m ³ rock armour 15,000 m ² scour protection 9,000 m ² brushwood will be used to construct the revetments and the work along the bank of the Rhymney 31,000 m ³ of excavated material will be re-used on-site
Activity 3 – Ground investigation work	
Type of Licensed Activity	Removals
Description	Ground Investigation work consisting of boreholes and trial pits to determine the ground and groundwater conditions to inform engineering design of the coastal frontage (Activity 1 area)
Material to be removed	Sediment
Quantities/Dimensions	<ul style="list-style-type: none"> Up to 8 boreholes to a depth of up to 15m (5 boreholes west of the Rhymney (location 7) and 3 boreholes to the east (location 6)) Up to 12 trial pits to a depth of up to 3.5m (8 trial pits to the west of the Rhymney (location 7) and 4 trial pits to the east (location 6))

2.2 Licensed Area

The Licence Holder is authorised to conduct Activity 1 and 3 described in Table 1 in the vicinity of Cardiff, adjacent to Rover Way, along the Severn Estuary Coastline, at Location 6 and 7 bounded by the coordinates in Appendix 1 and plan in Appendix 2.

The Licence Holder is authorised to conduct Activity 2 described in Table 1 in the vicinity of Cardiff, adjacent to Rover Way, along the Riverbank of the Rhymney River, at Location 1, 2, 3, 4 and 5 bounded by the coordinates in Appendix 1 and plan in Appendix 2.

In the event of any discrepancy between the coordinates in Appendix 1 and the plan attached at Appendix 2, the coordinates shall take precedence.

2.3 Approved Supporting Documents

Licence Number: CML2147

Title/Description of Document	Date submitted
Cardiff Coastal Defences Area of Permanent Works	10/09/2021
Cardiff Coastal Defences Area of Temporary Works	10/09/2021
Cardiff Coastal Defences Scheme Footprint Below HAT	10/09/2021
Cardiff Coastal Defences Scheme Footprint Below MHWS	10/09/2021
Cardiff Coastal Defences Construction Method Statement	10/09/2021
CCD-JBAU-00-00-AP-EN-0001-S3-P01-Marine_Licence_Additional_Sheets	10/09/2021
Water Framework Directive WFD	10/09/2021
Habitats Regulations Assessment HRA	10/09/2021
Environmental Statement ES – Split into 2 documents to keep file size below 10MB: CCD-JBAU-00-00-RP-EN-0002-S3-P04-Environmental_Statement Without Appendices	10/09/2021
Environmental Statement ES – Split into 2 documents to keep file size below 10MB: CCD-JBAU-00-00-RP-EN-0002-S3-P04-Environmental_Statement Apps E F G H and J	10/09/2021
Non-Technical Summary - CCD-JBAU-00-00-RP-EN-0003-S3-P01-Non-Technical Summary	10/09/2021
Environmental Statement Appendices – Separate Files	10/09/2021
Appendix A&B – Scoping Opinions	10/09/2021
Appendix C – Ecology Phase 1 map – ‘Phase 1 habitats and redline V2’	10/09/2021
Appendix D – Ecology SINC sites map – ‘Cardiff SINCS’	10/09/2021
Appendix I&K – GGAT Desk-based Assessment	10/09/2021
Appendix L – GI Report - CCD-JBAU-ZZ-00-RP-GT-0001-S3-P01-Ground_Investigation_Report	10/09/2021
Protected sites map – ‘Protected sites red line v2’	10/09/2021
NVC/Detailed Botanical Survey - CCD-JBAU-XX-XX-TN-EN-0001-S3-P01-Botany_Survey	10/09/2021
PEA - 2016s5078 Cardiff CRMP OBC - Preliminary Ecological Appraisal v1-2	10/09/2021
Contaminated Land Report - CCD-JBAU-ZZ-00-RP-GT-0002-S3-P01-Contaminated_Land_Review	10/09/2021
Engineering drawings showing details of the proposed scheme	10/09/2021
Location 11: CCD-JBAU-00-11-DR-C-1100-S3-P01 to CCD-JBAU-00-11-DR-C-1106-S3-P01	10/09/2021
Location 11: CCD-JBAU-00-11-DR-C-1150-S3-P01 & CCD-JBAU-00-11-DR-C-1151-S3-P01	10/09/2021
Location 12: CCD-JBAU-00-12-DR-C-1200-S3-P02 to CCD-JBAU-00-12-DR-C-1214-S3-P01	10/09/2021
Location 12: CCD-JBAU-00-12-DR-C-1250-S3-P01 & CCD-JBAU-00-12-DR-C-1251-S3-P01	10/09/2021
Location 21: CCD-JBAU-00-21-DR-C-2100-S3-P01 & CCD-JBAU-00-21-DR-C-2101-S3-P01	10/09/2021
Location 21: CCD-JBAU-00-21-DR-C-2150-S3-P01 & CCD-JBAU-00-21-DR-C-2151-S3-P01	10/09/2021

Licence Number: CML2147

Location 22: CCD-JBAU-00-22-SK-Z-0005	10/09/2021
Location 31: CCD-JBAU-00-31-DR-C-3100-S3-P01 & CCD-JBAU-00-31-DR-C-3101-S3-P01	10/09/2021
Location 31: CCD-JBAU-00-31-DR-C-3150-S3-P01 & CCD-JBAU-00-31-DR-C-3151-S3-P01	10/09/2021
Location 32: CCD-JBAU-00-32-DR-C-3200-S3-P01 to CCD-JBAU-00-32-DR-C-3206-S3-P01	10/09/2021
Location 32: CCD-JBAU-00-32-DR-C-3250-S3-P01 & CCD-JBAU-00-32-DR-C-3251-S3-P01	10/09/2021
Location 42: CCD-JBAU-00-32-DR-C-3250-S3-P01	10/09/2021
Location 42: CCD-JBAU-00-42-DR-C-4250-S3-P01	10/09/2021
Location 52: CCD-JBAU-00-52-DR-C-5200-S3-P01	10/09/2021
Location 52: CCD-JBAU-00-52-DR-C-5250-S3-P01	10/09/2021
2019s0183 Cardiff Outline CEMP v2.0 11.3.2022	11/03/2022
2019s0183 Cardiff Outline SMP v3.0 11.3.2022 Final	11/03/2022
Proposed Sediment Sample Plan 1.0 28.01.2022	28/01/2022
CML2147 CCD-JBAU-XX-XX-RP-EN-0003-S3-P02-WFD	29/11/2021
NVC vegetation map	22/11/2021
CCD-JBAU-00-00-TN-EN-0002-S3-P01-PEA_Update	29/11/2021
CCD-JBAU-00-00-MP-EN-S3-P01-Intertidal_Phase_1_Habitats	29/11/2021
CCD-JBAU-XX-XX-TN-EN-0001-S3-P01-Botany_Survey	29/11/2021
CCD-JBAU-00-00-RP-EN-S3-P02-Addendum_to_ES__HRA_Coastal_Squeeze	22/11/2021
CCD-JBAU-00-00-TN-EN-0001-S0-P01-CS_numbers_clarification FINAL 10.12.21	10/12/2021
Planning, Design and Access Statement V1-0 / 16/07/2021	22/10/2021
WNMP signposting doc- 2019s0183 Cardiff 22.10.2021	22/10/2021
CCD-JBAU-XX-XX-RP-HM-0001-S3-P01-FCA_UPDATED	26/04/2021
CCD-JBAU-ZZ-00-SP-GT-2001-S3-P01-Phase2_GI_Spec	06/07/2022
CCD-JBAU-00-00-DR-GT-2001-S3-P01-Phase2_GI_Plan	06/07/2022
CCD-JBAU-00-00-RA-Z-2001-S3-P03-Phase2_GI_DRA	06/07/2022

3 CONDITIONS

Notification and Inspection

3.1 Notification of Commencement

- 3.1.1 The Licence Holder must notify the Licensing Authority no less than **10 days** before the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.2 The Licence Holder must notify Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) no less than **10 days** before the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.3 The Licence Holder must ensure that local mariners and fishermen's organisations are made fully aware of the Licensed Activities through local

Licence Number: CML2147

notices to mariners **10 days** prior to the commencement of the Licensed Activities.

- 3.1.4 The Licence Holder must ensure that notification is sent to The Source Data Receipt team, UK Hydrographic Office (email: sdr@ukho.gov.uk) at least 10 days prior to commencement of the Licensed Activities. The information supplied must include the start date and end date, a description of the Licensed Activities, positions of the work area (WGS84), and details of any marking arrangements.

3.2 Notification of Vessels and/or Vehicles

The Licence Holder must ensure that the details of the vessels and/or vehicles utilised to undertake the Licensed Activities are submitted to the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) at least **24 hours** prior to the commencement of the Licensed Activities.

3.3 Notification of Agents/Contractors/Sub-contractors

The Licence Holder must ensure that details of any agent(s), contractor(s) or sub-contractor(s) utilised to undertake the Licensed Activities are submitted to the Licensing Authority at least **24 hours** prior to the commencement of Licensed Activities.

3.4 Notification of HM Coastguard

The Licence Holder must ensure that HM Coastguard is made aware of the Licensed Activities at least **24 hours** prior to commencement by contacting The National Maritime Operations Centre at **zone27@mcga.gov.uk**.

3.5 Inspection of Licensed Activities

The Licence Holder must allow Marine Enforcement Officers or any other person authorised by the Licensing Authority to inspect the Licensed Activities at any reasonable time.

3.6 Notification of Completion

- 3.6.1 The Licence Holder must notify the Licensing Authority within 10 days of completion of the Licensed Activities.
- 3.6.2 The Licence Holder must notify Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) within **10 days** of completion of the Licensed Activities.
- 3.6.3 The Licence Holder must notify The Source Data Receipt team, UK Hydrographic Office (email: sdr@ukho.gov.uk) no later than **10 days** after the completion of the Licensed Activities. The information provided must include: any changes to engineering drawings, post dredge surveys, details of new or changed aids to navigation where applicable.

Licence Number: CML2147

- 3.6.4 The Licence Holder must inform the Licensing Authority, of the location of all completed trail pits/boreholes within **10 days** of completion of the work.

3.7 Accident or Emergency

- 3.7.1 If, by reason of force majeure any substances or articles are deposited otherwise than as permitted as part of the Licensed Activities or in the Licensed Area full details of the circumstances shall be notified to the Licensing Authority within **48 hours** of the incident occurring.
- 3.7.2 In case of damage to, or destruction or decay of the licensed activities, that could result in a danger or obstruction to navigation, notification must be issued to the Maritime and Coastguard Agency, Trinity House/NLB, the Kingfisher Information Service of Seafish and the UKHO, as soon as possible and no later than 24 hours following the identification of damage, destruction or decay. The Licence Holder shall lay down such buoys, exhibit such lights and take such steps as directed by Trinity House
- 3.7.3 If it is necessary for the Licence Holder to recover or remove any equipment, plant or machinery used to undertake the Licensed Activities that have been dropped as a result of an accident or emergency, the Licence Holder is permitted to do so provided that the methodology for such recovery or removal has been approved by the Licensing Authority.

3.8 Distribution of Copies of this Licence

The Licence Holder is required to ensure that a copy of this Licence is given to:

- All agent(s), contractor(s) and sub-contractor(s) whose names have been provided to the Licensing Authority under condition 3.3 and
- The Masters of any vessels and transport managers responsible for the vehicles employed in accordance of this Licence whose details have been submitted to the Licensing Authority under condition 3.2.

3.9 Inspection of Documents

Copies of this Licence shall be made available at the following locations:

- at the address of the Licence Holder specified in section 1.2;
- at any site office, located at or adjacent to the Licensed Area, used by the Licence Holder or its agent(s), contractor(s) or sub-contractor(s) responsible for the loading transportation or deposit of any substances or articles permitted as part of the Licensed Activities;
- on board each vessel or vehicle carrying out Licensed Activities.

Licence Number: CML2147

The documents referred to in this Condition shall be available at all reasonable times for inspection by officers appropriately authorised by the Licensing Authority and authorised Marine Enforcement Officers at the locations stated in that paragraph.

Vessels, Plant and Equipment

3.10 Notified Contractors, Vessels and/or Vehicles only to Carry out Licensed Activities

Only those agent(s), contractor(s), sub-contractor(s), vessels and/or vehicles whose details have been notified to the Licensing Authority may operate under the terms of this Licence. Any changes must be notified to and be approved by the Licensing Authority in writing prior to any such agent, contractor, subcontractors or vehicles carrying out any Licensed Activities pursuant to or otherwise operating under this Licence.

3.11 Refuelling of Plant and Equipment

The Licence Holder must ensure that plant, vehicles and machinery are not refuelled on the foreshore or in the sea.

3.12 Equipment, Structures and Access

The Licence Holder must ensure that all equipment, temporary structures, access tracks, waste and/or debris associated with the Licensed Activities are removed on completion of the Licensed activities.

Safety

3.13 Removal of Deposited Material

If the Licensing Authority considers it necessary or advisable for the safety of navigation, the Licence Holder must remove any deposit specified by the Licensing Authority or Marine Enforcement Officers within one month of notice being given by the Licensing Authority, and shall not replace such material until the Licensing Authority has given its written approval.

Pollution control

3.14 Pollution Prevention

The Licence Holder must ensure that pollution prevention best practice is adhered to at all times. Any incidents must be reported to the Licensing Authority as soon as possible using the hotline number **0300 065 3000**.

3.15 Spillage of Pollutants

The Licence Holder must employ bunding, storage facilities and spill kits to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and

Licence Number: CML2147

construction equipment into the marine environment. Secondary containment must be used with a capacity of **no less than 110%** of the container's storage capacity

3.16 Prevention of Disposal of Man-made Debris

The Licence Holder must ensure that all reasonable precautions are taken to prevent the disposal of man-made debris to the marine environment. Such material must be removed immediately and be disposed of appropriately. If it is not possible to prevent manmade debris from entering the marine environment during the Licensed Activities, the Licensed Activities must cease immediately.

3.17 Cleanliness of Equipment

The Licence Holder must ensure that equipment, machinery and PPE are washed with freshwater and/or thoroughly airdried before deployment and before moving between locations.

Activity-specific Conditions

3.18 Construction Environmental Management Plan (CEMP)

3.18.1 The Licence Holder must submit a CEMP to the Licensing Authority for written approval at least **6 weeks** prior to commencement of the Licensed Activities. The CEMP must be in accordance with the outline CEMP (2019s0183 Cardiff Outline CEMP). No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.18.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition(s) 3.18.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.19 Biosecurity Risk Assessment

3.19.1 The Licence Holder must submit a Biosecurity Risk Assessment to the Licensing Authority for written approval at least **6 weeks** prior to commencement of the Licensed Activities. No Licenced Activities may be undertaken prior to written approval from the Licensing Authority.

3.19.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition(s) 3.19.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.20 Saltmarsh Habitat Management Plan

Licence Number: CML2147

3.20.1 The Licence Holder must submit a Saltmarsh Habitat Management Plan (to the Licensing Authority for written approval at least **6 weeks** prior to commencement of the Licensed Activities. The Saltmarsh Habitat Management Plan must be in accordance with the outline Saltmarsh Management Plan (2019s0183 Cardiff Outline SMP v3.0 11.3.2022 Final). No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.20.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition(s) 3.20.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.21 Written Scheme of Investigation (WSI)

3.21.1 The Licence Holder must submit a WSI to the Licensing Authority for written approval at least **2 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.21.2 The Licence Holder must ensure that any actions outlined in the documents detailed in condition(s) 3.21.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.22 Sediment Sample Plan

3.22.1 The Licence Holder must ensure that sampling is undertaken in accordance with the sampling plan described in "*Proposed Sediment Sample Plan 1.0 28.01.2022*" and is analysed at an NRW approved laboratory.

3.22.2 The Licence Holder must submit the written results of the sediment sampling undertaken for written approval by the Licensing Authority prior to commencement of Licensed Activity 1 and 2. This must include an outline of an assessment of alternative uses for the sediment that is to be disposed. Licensed Activities 1 and 2 may not be undertaken prior to written approval from the Licensing Authority.

3.23 Use of Render and Concrete

The Licence Holder must ensure that no waste concrete slurry or wash water from the use of concrete or cement are discharged into the marine environment. Concrete and cement mixing and washing areas should be contained and sited at least **10 metres** from any watercourse or surface water drain to minimise the risk of runoff entering a watercourse.

3.24 Concrete Cure Time

Licence Number: CML2147

The Licence Holder must ensure materials used are suitable for use in the marine environment and works should be timed to ensure maximum concrete cure time.

Licence Number: CML2147

4 INTERPRETATION

In this Licence terms are as defined in section 115 of the Marine and Coastal Access Act unless otherwise stated.

- (a) **"2009 Act"** means the Marine and Coastal Access Act 2009;
- (b) **"Approved Application"** means the Marine Licence Application Form together with the Approved Supporting Documents;
- (c) **"Approved Supporting Documents"** means the documents supporting, or supplementary to, the Approved Application, submitted prior to the Licence Issue Date, listed in the Table at paragraph 2.3 above;
- (d) **"Commencement"** means the first undertaking of any Licensed Activities;
- (e) **"Force majeure"** may be deemed to apply when, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the substances or articles because the safety of human life and/or of the vessel is threatened;
- (f) **"Licensed Activities"** means the activities authorised by this licence as specified in 2.1;
- (g) **"Licensed Area"** means the area within which Licensed Activities are authorised by this licence as specified in section 2.2;
- (h) **"Licence Holder"** means the person(s) or organisation(s) named in section 1.2 to whom this licence is granted;
- (i) **"Licence Period"** means the period beginning with the Licence Start Date and ending on the Licence End Date;
- (j) **"Licensing Authority"** means Natural Resources Wales acting on behalf of the Welsh Ministers;
- (k) **"Marine Enforcement Officers"** means the relevant officers appointed by Welsh Ministers under section 235 of the 2009 Act, contact details for whom are provided in section 5;
- (l) **"Marine Licence Application Form"** means the application form forming part of the application referred to in paragraph 1.1;

Licence Number: CML2147

- (m) **“Method Statement”** means the Method Statement(s) forming part of the Approved Application or Approved Supporting Documents;
- (n) **“Works”** means any construction activities comprised in the Licensed Activities and, where the context permits, includes any plant, equipment or materials used to carry out those activities or operations but excludes monitoring, minor routine maintenance or other ongoing operational activities following completion of any construction activities;
- (o) all times shall be taken to be the time in Greenwich Mean Time (GMT) on any given day;
- (p) all co-ordinates shall be taken to be latitude and longitude decimal degrees
- (q) in the event of any discrepancy between the coordinates listed in paragraph 2.2 and the plan attached at Appendix 1, the coordinates shall take precedence.

5 CONTACTS

Except where otherwise indicated, the primary point of contact with the Licensing Authority and the address for returns, correspondence and requests for variations of the licence is:

Marine Licensing Team
Natural Resources Wales
Permitting Service
29 Newport Road
Cambria House
Cardiff
CF24 0TP

Tel: 0300 065 3000

Email: marinelicensing@naturalresourceswales.gov.uk

Welsh Government Marine Enforcement Officers may be contacted at:

Welsh Government
Suite 3
Cedar Court
Haven's Head Business Park

Licence Number: CML2147

Milford Haven Pembrokeshire
SA73 3LS

Tel: 03000253500

Email: wfmccmpc@gov.wales

Licence Number: CML2147

APPENDIX 1

Coordinates (latitude and longitude decimal degrees) for the works:

Activity 1			
Location 6		Location 7	
lat	long	lat	long
-3.12304	51.49177	-3.1234	51.48777
-3.12311	51.49188	-3.12327	51.48692
-3.12233	51.49209	-3.12318	51.48608
-3.12136	51.49196	-3.12398	51.48513
-3.1199	51.49186	-3.12493	51.48386
-3.11805	51.49224	-3.12564	51.48341
-3.11753	51.49261	-3.12652	51.48267
-3.11537	51.49335	-3.12588	51.48177
-3.11457	51.4934	-3.12546	51.4809
-3.11426	51.49328	-3.12588	51.48005
-3.11526	51.49289	-3.12697	51.4789
-3.11678	51.49238	-3.12797	51.47821
-3.11766	51.4919	-3.12943	51.47732
-3.1194	51.49146	-3.13012	51.47614
-3.12048	51.4914	-3.1309	51.47618
-3.12208	51.49183	-3.13031	51.4775
-3.12304	51.49177	-3.12882	51.47836
		-3.12733	51.47956
		-3.12635	51.48052
		-3.1262	51.48133
		-3.1272	51.48244
		-3.1272	51.48297
		-3.12568	51.4839
		-3.12389	51.48599
		-3.12399	51.48765
		-3.1234	51.48777

Activity 2									
Location 1		Location 2		Location 3		Location 4		Location 5	
lat	long								
-3.13475	51.49678	-3.1305	51.49582	-3.12646	51.49228	-3.13034	51.49102	-3.12701	51.48958
-3.13398	51.49678	-3.13033	51.49593	-3.12627	51.49234	-3.12997	51.49087	-3.12694	51.48948
-3.1334	51.4968	-3.12977	51.49569	-3.12583	51.49247	-3.13002	51.49081	-3.1268	51.48931
-3.13276	51.497	-3.12993	51.4953	-3.12544	51.49249	-3.13007	51.49077	-3.12652	51.48914
-3.13256	51.49696	-3.13052	51.4949	-3.12489	51.49232	-3.13022	51.49083	-3.12615	51.48898
-3.13231	51.49682	-3.12996	51.49463	-3.12449	51.49213	-3.13034	51.49089	-3.12575	51.48885
-3.13232	51.49676	-3.13034	51.49433	-3.12416	51.49195	-3.13038	51.49094	-3.12576	51.48883

Licence Number: CML2147

-3.13256	51.4968	-3.1303	51.49416	-3.12394	51.49159	-3.13034	51.49102	-3.12644	51.48903
-3.1328	51.49673	-3.13049	51.49405	-3.12401	51.49129			-3.12685	51.48927
-3.1331	51.49671	-3.13098	51.49381	-3.12484	51.49127			-3.12703	51.48956
-3.13357	51.49665	-3.13137	51.49368	-3.12498	51.49167			-3.12701	51.48958
-3.13369	51.4965	-3.13164	51.49317	-3.12544	51.49177				
-3.13392	51.49649	-3.13209	51.4933	-3.126	51.49166				
-3.13417	51.49662	-3.13234	51.49283	-3.12621	51.49173				
-3.13474	51.49662	-3.13243	51.49258	-3.12646	51.49228				
-3.13478	51.49663	-3.13236	51.49238						
-3.13475	51.49678	-3.13204	51.4921						
		-3.13112	51.4916						
		-3.13078	51.49154						
		-3.13078	51.49125						
		-3.13127	51.49128						
		-3.13161	51.49124						
		-3.1323	51.49157						
		-3.1326	51.49172						
		-3.13264	51.49185						
		-3.13285	51.49199						
		-3.13304	51.49227						
		-3.13316	51.49254						
		-3.13306	51.49296						
		-3.13294	51.4933						
		-3.13272	51.49362						
		-3.13244	51.49396						
		-3.13141	51.49487						
		-3.13064	51.49526						
		-3.13021	51.49527						
		-3.13003	51.49558						
		-3.1305	51.49582						

Licence Number: CML2147

APPENDIX 2

Cardiff Coastal Defence Marine Licence Activity map:

