



# Aberdeen Harbour Expansion Project

## Construction Environmental Management Document

AHEP-DRA-APP-0001 Rev 6  
21 October 2019

**DRAGADOS**

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# Chapter 17

## Vessel Management Plan

## Revision Log

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Revision Number	Date	Location of Revision	Revision Details
Rev 4	16/05/2018	Front of Document	Document updated to Rev 4 and date updated
		Section 17.1.2	Addition of Works Completed Section
		Section 17.1.3, Table 17.1	Table updated to remove individuals names
		Section 17.5.3, Figure 17.2	Drawing Updated
		Section 17.6.2	Oil spill response procedure updated
Rev 5	08/10/2019	Section 17.4.8	Marine mammals included as subject of toolbox talks.
		Section 17.6.2	Oil spill response procedure updated
Rev 6	21/10/2019	Throughout the document	Aligned to improve format  Updated Marine licence reference

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## 17 Vessel Management Plan

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### 17.1 Introduction

#### 17.1.1 Objective

This document was developed to provide information on the vessel management requirements and procedures associated with the proposed construction stage of the Aberdeen Harbour Expansion Project (AHEP). Dragados acknowledges the need to manage and monitor construction vessel movements during throughout the life cycle of the construction process. A Vessel Management Plan (VMP) provides a formal means through which such management and monitoring can be implemented in a structured, organised manner.

This VMP should be treated as a ‘live’ document and will be updated throughout all stages of the construction process in accordance with changes to the construction works. It provides a framework for managing the implementation of all construction vessel activity resulting from the construction process, and identifying a range of mitigation measures to help minimise any potential environmental and marine impacts on the surrounding area.

Dragados will ensure that all vessels associated with the dredging and deposit activities adhere to the approved VMP. The route to and from the deposit site is at the vessel master, Harbour Master and Aberdeen Vessel Traffic Services (VTS)’s discretion, subject to the port operations and environmental conditions.

VMP must include details on vessels, their expected speeds, anticipated routes and frequency of trips during the licensed activities, creations of high and low disturbance areas, a vessel free buffer zone around Girdleness and Greyhope Bay, and details of how vessel management will be coordinated.

Relative to the operation of the harbour, the VMP must include a code of practice to guide the behaviour of vessels in and in the vicinity of the harbour around marine mammals and rafts of birds and avoidance of the area around Girdleness and Greyhope Bay. An Operational Environmental Management Plan will be produced at a later date to cover operational vessel requirements.

#### 17.1.2 Work Completed

The following works have been carried out:

- Establishment of the dedicated project communication channels as outlined in Section 17.2.4; and
- The notices to Marine Scotland, Her Majesty’s Coastguard (HMCG) and Mariners were provided as per Section 17.3 prior to 2017 dredging activities commencing.

- For 2019 the contractor Van Oord have dredged 737,285 m<sup>3</sup> of material as of 27/08.

### 17.1.3 Roles, Responsibilities and Cross-Referencing

Table 17.1 details the responsibilities that selected members of staff have relating to the management of project vessels.

Table 17.1: Roles and Responsibility Table

Job Title	Responsibilities
Construction Marine Coordinator	VTS procedures Emergency coordination and management Incident and pollution response coordination with Aberdeen Harbour Ensure general compliance with regulations Marine licencing conditions Managing the vessel movement log Coordination with dredging contractors Enforcement of exclusion zones Adverse weather protocol Force majeure response Automatic Identification Systems (AIS) monitoring and management
Deputy Coordinator	Assisting the Construction Marine Coordinator

#### 17.1.3.1 Cross-Referencing

The VMP should be read in conjunction with the following CEMD’s:

- Construction Method Statement;
- Pollution Prevention Plan;
- Marine Mammal Management Plan;
- Fish Species Protection Plan;
- Piling Management Plan;
- Marine Invasive Non-Native Species and Biosecurity Management Plan;
- Habitat Management Plan; and
- Dredging and Dredge Spoil Disposal Management and Monitoring Plan.



## 17.2 Contacts and Emergency Information

The Dragados Health and Safety Plan will be available from the project Health and Safety Manager, and should be consulted and the emergency procedure it provides should be followed.

### 17.2.1 Emergency Contact Details

#### Emergency Services

In the event of an emergency occurring in or adjacent to the site, contact the emergency services including Police Scotland, Scottish Ambulance Service, HM Coastguard and Scottish Fire & Rescue Service on:

999

or HM Coastguard on VHF Channel 16

### 17.2.2 Emergency Services - Non Emergency Numbers

The non emergency contact number (Table 17.2) should be used when the issue does not require immediate attention. In the event of an emergency both on and off-site that does require immediate attention, the offshore CMC and site-based Health and Safety Officer must be informed immediately. They will assist any emergency services on site as required with regards to accessing the site and moving site equipment and personnel to allow uninterrupted access.

Table 17.2: Emergency Contact Numbers

Name	Contact Details
HM Coastguard	HM Coastguard co-ordinates Search and Rescue (SAR) through a National Maritime Operations Centre (NMOC) and a network of Coastguard Operations Centres (CGOC).
CGOC Aberdeen (non emergency)	Tel: UK (00 44) 01224 592334 Email: zone3@hmcg.gov.uk
Police Scotland	Nearest Station - 15 Victoria Road, Aberdeen Non- Emergency – Tel 101

### 17.2.3 Dedicated Construction Marine Co-ordinator (CMC)

#### CMC Contact Details

In accordance with the mitigation measures of the Environmental Statement (ES), Dragados have appointed a dedicated Construction Marine Co-ordinator (CMC). The primary function of this role is to maintain a complete overview of current and

planned marine construction activities, to liaise daily with VTS and AHB Marine Department on the construction plans and ensure compliance by construction works vessels with the standards set by AHB.

The name and contact details of the appointed CMC are listed in Table 17.3.

Table 17.3: Appointed Dragados Staff

Name of CMC	Contact Details
Primary Construction Marine Co-ordinator	01224 063600
Deputy Construction Marine Co-ordinator	01224 063600

### CMC Responsibilities

The appointed Construction Marine Coordinator is responsible for the following aspects of marine activity for the project.

- VTS procedures (17.2.3);
- Emergency coordination and management (17.2.4);
- Incident and pollution response coordination with Aberdeen Harbour (17.6);
- Ensure general compliance with regulations and practices listed in (17.3.1);
- Ensuring marine licencing conditions are adhered to (17.3);
- Ensuing that the vessel movement log is accurate, kept up to date and is available for inspection (17.5.1);
- Coordination with dredging contractors over their compliance with marine licencing conditions and the completion of the material movement log (17.5.2);
- Enforcement of exclusion zones during marine activities (17.4.9);
- The correct protocol regarding adverse weather limits for all vessels (17.5.8);
- The response in the event of a force majeure (17.5.9);
- The correct installation and operation of Automatic Identification Systems (AIS) on all vessels (17.4.5);

### 17.2.4 Communication Channels

All radio communication between vessels relating to the project will be carried out on **channel 13**. Communication with other vessels in Aberdeen Harbour not relating to construction activities and with Aberdeen Harbour VTS is carried out on channel 12. In the event of emergencies communication will be carried out on channel 16. All vessels must communicate on these specific channels and must not use other channels for communication without prior permission from the CMC and Aberdeen Harbour Board (AHB). The Coastguard (HMCG) will be made aware of the use of channel 13 for project communications.

No communication is to be carried out on **channel 11**.

## 17.2.5 Vessel Traffic Service (VTS)

### Contact Information

**Vessel Traffic Services (Source: Aberdeen Harbour Website)**

All shipping movements within the Aberdeen VTS area (**that area below the level of high water within a radius of 2.3 nautical miles from Girdle Ness Lighthouse at Aberdeen**) are monitored and organised by Aberdeen VTS.

Aberdeen VTS provide the following services

Traffic Organisation Services

Information Service.

Call:		Aberdeen		VTS
VHF	Frequency	Ch	12;	16
Telephone		+44(0)1224		597000

Email [vt@aberdeen-harbour.co.uk](mailto:vt@aberdeen-harbour.co.uk)

**Participation with VTS is mandatory.**

**For Additional information on VTS see MGN 401 (M+F) Vessel Traffic Services and Local Port Services in the UK; and MSN 1796 (M+F) Amendment 2: Vessel Traffic Services – Designation of Vessel Traffic Services in the UK**

More information can be found online at:

<http://www.aberdeen-harbour.co.uk/operations/information-for-port-users/>

Appendix A contains the VTS procedure information for all vessels wishing to enter Port Limits as shown in Figure 17.1. It is advised that all masters read this information before working within the project area.

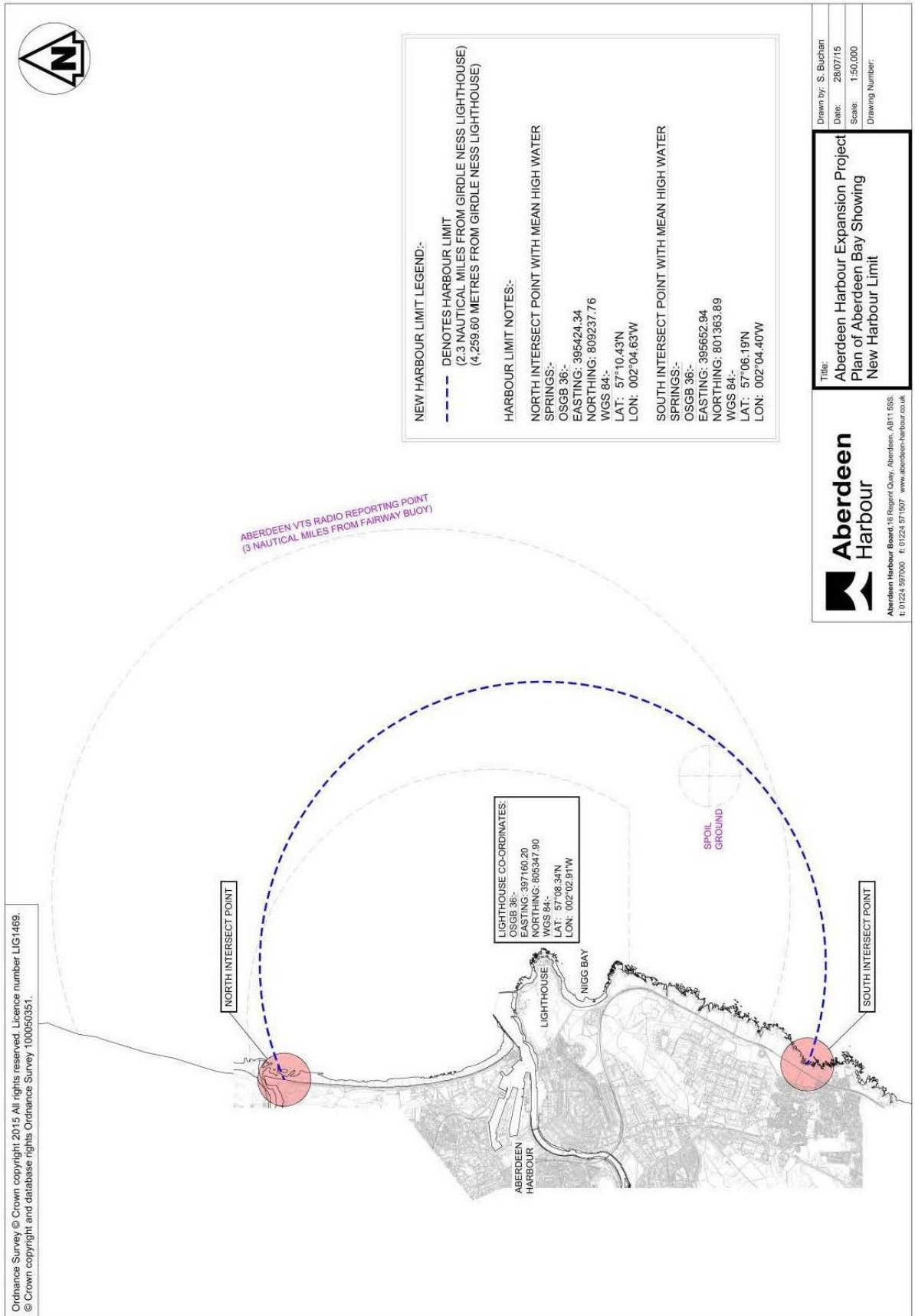


Figure 17.1 Aberdeen Harbour New Harbour Limits

## VTIS Procedure

All marine contractors operating vessels throughout the duration of the project will establish direct communication between the Vessel Traffic Service (VTS) at Aberdeen Harbour. VTS will be informed of all vessel activity information (including Notice to Mariners and/or radio warnings);

VTS guidance is available on the Aberdeen Harbour website and contained within Appendix B. These guidelines must be followed by all vessels working on the project:

The CMC should ensure that all vessels are aware of VTS and adhere to all their instructions.

## 17.3 Guidelines for Dragados

### 17.3.1 Notice to Marine Scotland

Dragados will provide the name of any agent, contractor or sub-contractor appointed to undertake the licensed activities and their role to the Marine Scotland Licencing Operations Team (MS LOT) 72 hours prior to the licensed activities commencing.

The following Marine Licences have been granted for the duration of the project works:

- 05965/16/0 (Licence to construct, alter or improve works and to deposit or use explosive substances or articles within the Scottish marine area)
- 05964/19/0 (Licence to carry out dredging and to deposit dredged spoil substances or objects within the Scottish marine area)

If there are changes to any of the details provided, Dragados will notify MS LOT, in writing, prior to any agent, contractor or sub-contractor undertaking any licensed activity.

Dragados will ensure that only those agents, contractors or sub-contractors notified to the MS LOT are permitted to undertake the licensed activities.

Dragados will provide a copy of the Licence and any subsequent variations that have been made to this Licence in accordance with section 30 of the Marine Scotland Act 2010 to any agent, contractor or sub-contractor appointed to carry out any part, or all, of the licensed activities. Dragados will ensure that any such agent, contractor or sub-contractor is aware of and understands the extent of the works for which this Licence has been granted, the activity which is licensed and the terms of the conditions attached to the Licence before allowing work to commence.

In the event that the licensee wishes to update or amend the VMP, the licensee must submit, in writing, details of the proposed updates or amendments to the licensing authority for their written approval, no later than one month or at such a time as agreed with the licensing authority, prior to the planned implementation of the proposed updates or amendments. It is not permissible for any activities associated

with the proposed updates or amendments to proceed prior to the granting of such approval.

Changes to the VMP will be undertaken in line with any change management procedures as outlined in the Environmental Management System (EMS) (Section 7.1).

If any information that was provided to MS LOT to obtain a Licence changes over time, Dragados will disclose these changes to the authority in writing as soon as possible.

In accordance with the Marine Licence, all marine licenses and marine works will be available for inspection by enforcement officers. Licences must be on board all vessels carrying out licenced activities in addition to the contractor's office. Dragados will be given 72 hours' notice of any inspections and will provide transport to and from the licenced site.

It is the responsibility of the Construction Marine Coordinator that all marine licencing compliance requirements are met and adhered to throughout the duration of the project.

### **17.3.2 Notice to HMCG**

Dragados will submit a report to HMCG detailing planned activities and a list of all operating vessels on a monthly basis.

### **17.3.3 Notice to Mariners**

In accordance with the Marine Licence, prior to commencement of any marine activity, the marine contractor will provide a detailed Notice to Mariners. These notices will be in the following forms:

- All notices will be distributed via AHB who will submit to the Admiralty for distribution;
- A marine activity post will be placed in the listed marinas/yacht clubs detailing the project and will be revised every 6 months to provide update information as the project progresses;
  - Aberdeen Boat Club;
  - Aberdeen University Boat Club; and
  - Aberdeen and Stonehaven Yacht Club.
- Radio broadcasts will be made by vessels on a daily basis in agreement with VTS at scheduled time. This information broadcast will highlight hazard presence, detail the construction vessel proposed transit routes and warn of any operations or exclusion zones in force.

It is the responsibility of the CMC to ensure that these notices are made and the timing listed above is adhered to.

## 17.4 Guidelines for Vessels

### 17.4.1 General Guidelines for Vessels

In accordance with the Marine Licence and mitigation measures in the project's Environmental Statement (ES), the following guidelines have been agreed among all parties and must be adhered to at all times by marine contractors during vessel activity. It is the responsibility of the CMC to ensure all guidelines are followed by all vessels associated with the project:

- All vessels will adhere to instructions and guidance from the Aberdeen VTS and Harbour Master;
- All vessels involved with the project will comply Maritime and Coastguard Agency (MCA) codes including guidelines for the prevention of oil pollution;
- All vessels involved with the project will comply with applicable international conventions (SOLAS/COLREGS etc.) regarding the general operation and maintenance of vessels;
- The CMC should be aware of the Port Marine Safety Code and Guidance with regards to marine safety, environmental duty, pilotage and safe port operations;
- All vessels will follow advice from the Environmental Clerk of Works (ECoW)/Marine Mammal Observers (MMO) with regard to marine mammal activity during sensitive operations;
- All vessels that work outwith UK waters are encouraged to conform to the IMO Ballast Water Management (BWM) Convention 2004;
- Vessels must comply with the protocols outlined in the Marine Non-Native Species and Biosecurity Management Plan (MNNS and BsM Plan) and Marine Mammal Mitigation Plan (MMMP) (CEMD Chapters 12 and 11 respectively);
- Vessel users will report any instances of salmon or other diadromous fish breaching to the ECoW.
- Vessel users will report all observations of dead or injured fish to the ECoW. This will be in lines with the Fish Species Protection Plan Section 8.5.5
- Vessels will follow the Scottish Marine Wildlife Watching Code: A Guide to Best Practice for Watching Marine Wildlife (SMWWC), when manoeuvring around marine mammals and birds including:
  - Keeping a watch for marine mammals during vessel movements;
  - Small craft will avoid directly approaching marine mammals/birds where it is safe and practicable to do so;
  - Small craft will reduce speed to 5 knots if marine mammals are within 300m, unless vessel is enroute to an incident response;
  - Small craft will avoid rapid changes of direction if marine mammals are within 300m, providing it is safe to do so;
  - Avoid directly approaching the animals (as per the Aberdeen harbour dolphin code);
  - Avoid turning engines on and off if dolphins are present (as per the Aberdeen harbour dolphin code);

- If dolphins or other marine mammals choose to come in close to the vessel maintain a steady course and slow speed (as per the Aberdeen harbour dolphin code and the Scottish Marine Wildlife Watching Code (SMMWC). The code can be found at the following website: <http://www.marinecode.org/documents/Scottish-Marine-Code-web.pdf>.

Larger, less manoeuvrable craft will be limited in their ability to avoid marine mammals, but will instead hold a steady course and speed if marine mammals are within 300m.

Additional guidelines that vessels should be aware of are listed in Table 17.4

Table 17.4: Additional guidelines for vessels

<ul style="list-style-type: none"> <li>• <b>Maritime and Coastguard Agency (MCA) guidance and regulation</b> <a href="https://www.gov.uk/government/organisations/maritime-and-coastguard-agency">https://www.gov.uk/government/organisations/maritime-and-coastguard-agency</a></li> <li>• <b>Port Marine Operations: Good Practice Guide</b> <a href="https://www.gov.uk/government/publications/a-guide-to-good-practice-on-port-marine-operations">https://www.gov.uk/government/publications/a-guide-to-good-practice-on-port-marine-operations</a></li> <li>• <b>Port Marine Safety Code and guidance:</b> <a href="https://www.gov.uk/government/publications/port-marine-safety-code">https://www.gov.uk/government/publications/port-marine-safety-code</a></li> <li>• <b>International Association of Lighthouse Authorities guidelines and regulations</b> <a href="http://www.iala-aism.org/">http://www.iala-aism.org/</a></li> <li>• <b>Health &amp; Safety Executive Compliance</b> <a href="http://www.hse.gov.uk/Construction/cdm/2015/index.htm">http://www.hse.gov.uk/Construction/cdm/2015/index.htm</a> <b>Compliance with international conventions</b></li> <li>• <a href="http://www.imo.org/en/About/Conventions/ListOfConventions/Pages/International-Convention-for-the-Safety-of-Life-at-Sea-(SOLAS),-1974.aspx">http://www.imo.org/en/About/Conventions/ListOfConventions/Pages/International-Convention-for-the-Safety-of-Life-at-Sea-(SOLAS),-1974.aspx</a></li> <li>• <a href="http://www.imo.org/en/About/conventions/listofconventions/pages/colreg.aspx">http://www.imo.org/en/About/conventions/listofconventions/pages/colreg.aspx</a></li> <li>• <b>SMWWC guidance:</b> <a href="http://www.marinecode.org/documents/Guide-web.pdf">http://www.marinecode.org/documents/Guide-web.pdf</a></li> <li>• <b>IMO Standard Marine Communications Phrases</b></li> <li>• <b>Government National Contingency Plan (NCP)</b> <a href="https://www.gov.uk/government/publications/national-contingency-planncp">https://www.gov.uk/government/publications/national-contingency-planncp</a></li> </ul>
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### 17.4.2 Operational Language

Throughout the duration of the project and associated works, all vessels must communicate in **English**.

**Under no circumstances are vessels permitted to communicate over radio channels in any language other than English**



### 17.4.3 Speed Limits

The speed limit in the existing harbour and within the project boundary is 5 knots. This limit must be adhered to at all times.

### 17.4.4 Vessel Limits

The following vessel limits have been determined by Aberdeen Harbour for vessels wishing to enter the harbour. Vessels exceeding any of the following limits may be granted access to the harbour after an extensive risk assessment.

Table 17.5: Vessel Limits for Existing Harbour

Dimension of vessel	Harbour limit (m)
Maximum Length	165
Maximum Beam	30
Maximum Draft	8.5

### 17.4.5 Automatic Identification System (AIS)

All vessels involved in construction activities are required to have Automatic Identification System (AIS) installed, regardless of carriage requirements or size. It is the responsibility of the CMC to ensure that all vessel's operating on the project have a working AIS. (The carriage of class B AIS is acceptable)

### 17.4.6 Refuelling

Refuelling is only permitted to take place in the existing harbour with permission from Aberdeen Harbour Board and an agreed contract with a fuel company within the harbour.

**Under no circumstances is ship to ship refuelling permitted by any vessels within the Aberdeen Port limits or while in territorial waters (12nm).**

### 17.4.7 Marine Mammal Guidelines

When marine mammals are observed, all vessels must follow the guidelines provided in Section 17.4.1. The recommendations apply to all marine mammals including dolphins and harbour seals. It is the responsibility of the CMC to ensure that all vessels follow the guidelines listed in Section 17.4.1.

The guidelines must be followed by all vessels at all times and not limited to times when moving within the project marine boundary.

Appendix B2 contains the Aberdeen Harbour Dolphin Code leaflet. It is also available on the Aberdeen Harbour website.

### 17.4.8 Rafting Seabirds

All vessels must stay vigilant for seabird rafts in the existing harbour limits and in the surrounding area. Vessels must keep a distance of at least 50m when travelling

past rafts (if it is safe to do so) and maintain a speed limit of no greater than 5 knots in order to reduce the effect of a wake. It is the responsibility of the masters to ensure their vessels are being vigilant for seabird rafts and is the responsibility of the CMC to ensure that masters are aware of this duty. The ECoW will provide regular toolbox talks regarding marine mammals and seabirds.

### 17.4.9 Exclusion Zones

In accordance with the requirements outlined in the Harbour Revision Order, the following exclusion zones have been established in the project site in the interest of Eider conservation:

- 1) 57-08.275N 002-02.84W
- 2) 57-08.20N 002-02.74W
- 3) 57-08.20N 002-02.40W
- 4) 57-08.42N 002-02.40W
- 5) 57-08.68N 002-03.34W (point of South breakwater)

**This vessel free buffer zone of around Girdle Ness and Greyhove Bay applies to all vessels.** All marine contractors must adhere to the exclusion zones established throughout the duration of works and shown in Figure 17.2. No vessels are to be west of the coordinates listed above.

## 17.5 Vessel Movement

### 17.5.1 Vessels Activity Register

In accordance with the Marine Licence, Dragados will notify the licencing authority MS LOT, in writing, of any vessel being used to carry out any licensed activity under this Licence on behalf of Dragados. Such notification must be received by the licensing authority no less than 72 hours before the commencement of the activities. The notification will contain the following information:

- Master's name;
- Vessel type;
- Vessel IMO number; and
- Vessel owner or operating company.

Appendix A contains the Vessel Activity Register that is to be reproduced and used by every project vessel.

### 17.5.2 Materials Movement and Deposit Log

Dragados will, no later than 1 month prior to commencement of the dredging and other marine activity, notify the licensing authority of the names and addresses of

the marine contractors undertaking dredging and deposit activities and the names of specific vessels to be used.

All vessels associated with the dredging and deposit activities must adhere to the approved VMP. The route to and from the deposit site is at the Master and Harbour Master's discretion, subject to Port operations and environmental conditions.

A log of operations will be maintained on each vessel employed to undertake the marine works and deposit operations. The log(s) will be kept on board the vessels throughout the operations and will be available for inspection by any authorised Enforcement Officer.

The details of these movement logs can be found in the Dredging and Dredge Spoil Disposal Management Plan (DDSDMP) that will be implemented by the dredging specialists working on the project. The dredging contractor will be responsible for ensuring that the materials movement log will be kept up to date and available for inspection at all times.

### **17.5.3 Project Marine Site Movement**

#### **Project Boundary**

Figure 17.2 shows the limits of the project site relating to marine activity. These limits will be communicated to vessels by Aberdeen VTS as agreed with Aberdeen Harbour.

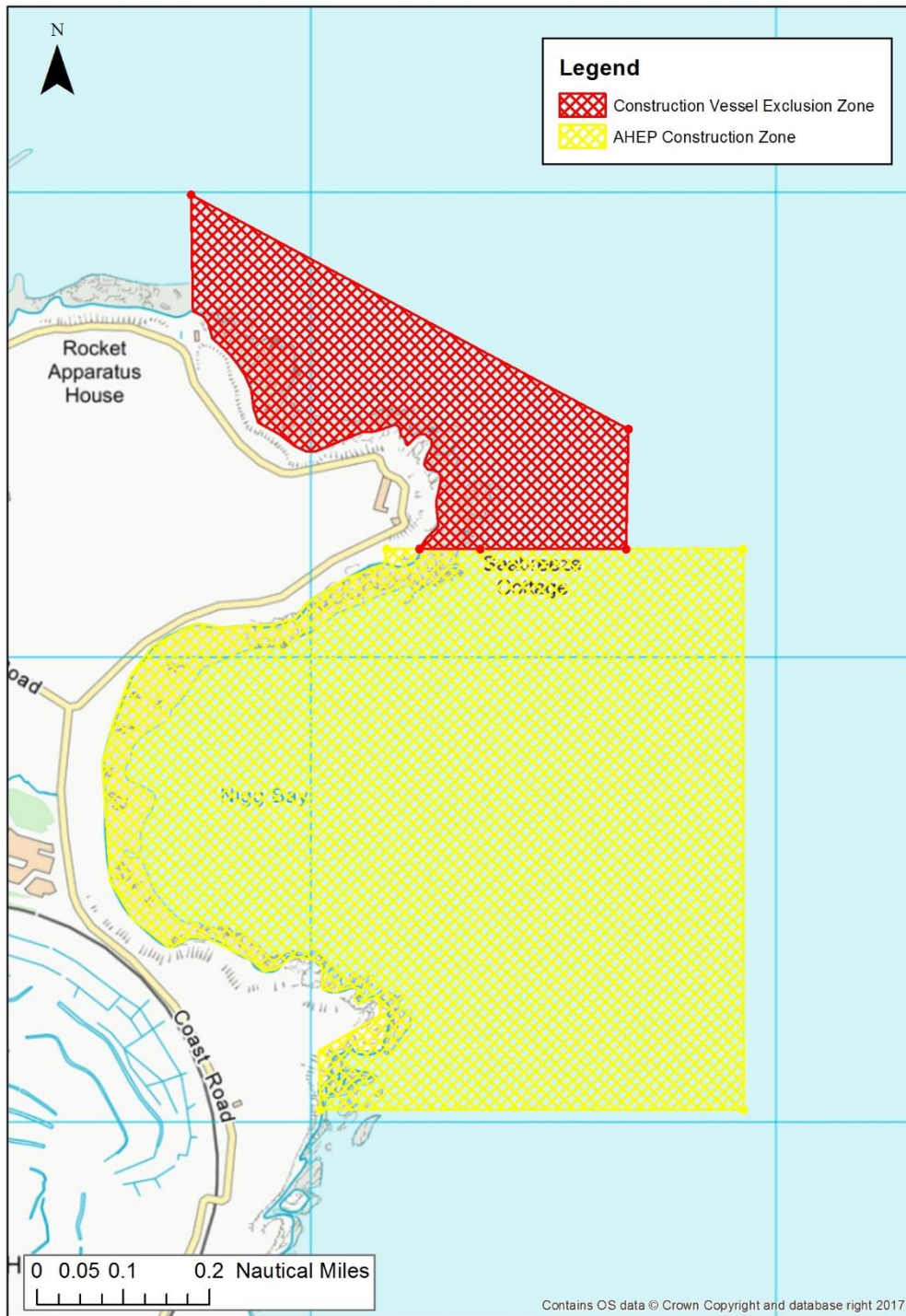


Figure 17.2: Project Site Boundary and Construction Vessel Exclusion Zone

Construction vessels are free to move within the designated project site without seeking permission from VTS however are still within the VTS and may be given instructions inside the designated works area. Any movements to leave the project site must be approved by VTS before the movement takes place and the vessel master must contact VTS prior to beginning any movement operations.

### Navigational Marking

The project site boundary will not be identifiable with markers. It is the responsible of the master of each vessel to learn the project site marine boundary and construction vessel exclusion zone using this plan and by discussing any issues with Dragados.

#### 17.5.4 Movement to Existing Harbour

Project vessels wishing to enter the existing harbour must adhere to all instructions given by Aberdeen VTS. It is the responsibility of the CMC to ensure that all vessels follow Aberdeen VTS instructions for moving to the existing harbour.

All vessel movement outside of the project boundary will be directed by VTS. Dragados will communicate with VTS to ensure that where practical, all construction vessel activity to and from the existing harbour will follow a standard route.

#### 17.5.5 Anchoring

Anchoring within the port limits is prohibited as per Aberdeen Harbour by-laws unless operations are sanctioned by the harbour master or in emergency situations.

#### 17.5.6 Anchorage

There are no set anchorage points for vessels within the existing port limits. Vessel are only allowed to anchor outside of the port limits.

#### 17.5.7 Pilotage

A pilot will be required for all vessels greater than 75m wishing to enter the existing harbour. A Pilot Exemption Certificate (PEC) can be obtained for vessels once they have been properly assessed by Aberdeen Harbour.

Table 17.6 shows the requirements for obtaining a PEC

Table 17.6: Pilot Exemption Certificate Requirements

Length of vessel	PEC Requirements
60m to 74.99m with operational bow thruster	No Pilotage required
75 to 84.99m	Minimum of 6 inwards voyages and minimum of 6 outwards voyages and an oral exam,
Above 85m	Minimum of 12 inwards voyages and minimum of 12 outwards voyages and an oral exam

Aberdeen Harbour Board can provide pilotage training simulations at the Marine Operations Centre however this must be discussed and agreed with AHB.

### 17.5.8 Adverse Weather

All masters working on the project must provide vessels specifications to the Aberdeen marine department prior to commencing work. The weather limits for the vessel will be established (wave heights, wind speed etc) and the master of the vessel must ensure these limits are respected throughout the duration of the project. In the event that weather conditions exceed the designated limits of the vessel, work must stop immediately and the vessel must make provision to wait out the weather. The CMC is responsible for ensuring this protocol is followed each vessel is responsible for determining when the limits of their vessels have been exceeded.

A Waverider DWR-MKIII monitoring buoy has been installed at the location shown in Figure 17.3. This buoy will measure wave heights in the project and is to be used as a reference for vessel master’s deciding whether to continue operations or to cease activities and come into Aberdeen harbour for shelter. Details of the buoy can be found in Appendix C.

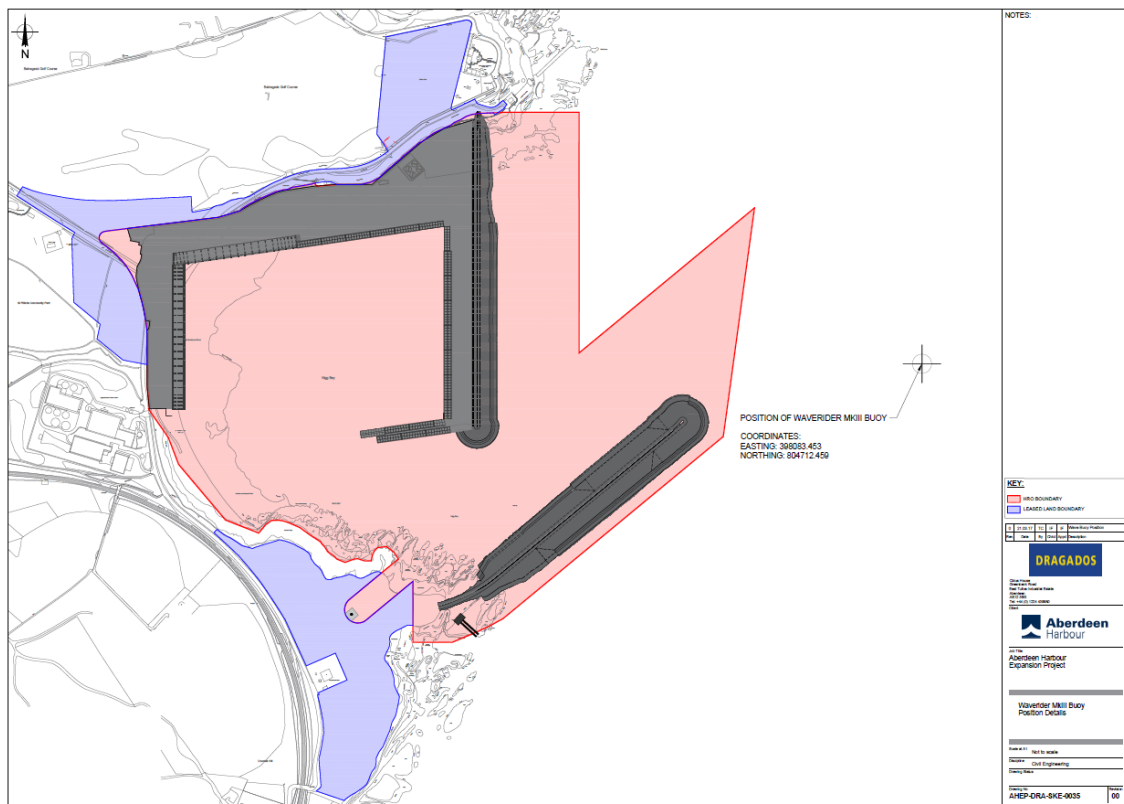


Figure 17.3: Location of Waverider MkIII Buoy (57° 07' 59.9"N, 2° 01' 59.9" W)

In the event of a vessel wishing to seek shelter in the existing harbour. The harbour must be contacted and a berth must be requested. Aberdeen Harbour cannot guarantee that a suitable berth will be available every time. It is strongly advised that all vessels that believe they may require berthing should contact the harbour at the earliest opportunity.

## 17.5.9 Marine Licences - Unforeseen Circumstances (Force Majeure)

As per condition 3.1.4 of the Dredging Marine Licence (05964/19/0) and Construction Marine Licence (05965/16/0)

If by any reason of *force majeure* any substance or object is deposited other than at the site which is described in the Marine Licences then Dragados must notify the licensing authority of the full details of the circumstances of the deposit within 48 hours of the incident occurring (failing which as soon as reasonably practicable after that period of 48 hours has elapsed). *Force majeure* may be deemed to apply when, due to stress of weather or any other cause, the master of a vessel, vehicle or marine structure determines that it is necessary to deposit the substance or object other than at the specified site because the safety of human life or, as the case may be, the vessel, vehicle or marine structure is threatened. Under Annex II, Article 7 of the Convention for the Protection of the Marine Environment of the North-east Atlantic, the licensing authority is obliged to immediately report *force majeure* incidents to the Convention Commission.

### 17.5.10 Guard Vessel

The use of a works vessel as guard vessel may occur during construction activities to ensure compliance with any exclusion zone. The presence of a guard vessel is not guaranteed at all times.

## 17.6 Incident and Pollution Response

### 17.6.1 Emergency Response

The existing Aberdeen Harbour has an emergency response plan in place that covers the project site. In the event of an emergency this response plan should be followed. It is the responsibility of the CMC to ensure that each vessel is aware of the content of the plan and that all masters have read and understood the protocol to follow in the event of an emergency.

Aberdeen Harbour Board has a planned and exercised capability to assist in the event of an incident.

The harbour authority is responsible for managing the overall response to any incident within the harbour limits. The responsibilities are noted within the Marine Safety Management System. HM Coastguard may still manage the Search and Rescue phase of the incident, as they do outside the harbour limits, but will coordinate with Aberdeen VTS.

### 17.6.2 Oil Spill Contingency Plan

The Aberdeen Harbour Board Oil Spill Contingency Plan (AHBOSCP) covers harbour limits and is approved by the MCA. An addendum to the AHBOSCP will be agreed with the MCA to cover the construction period of AHEP. AHB have an

accredited Tier 2 response contingency as required by the Oil Pollution Preparedness Response and Cooperation Convention.

The procedures and commitments within the AHBOSCP addendum will be managed by the AHEP Construction Marine Co-ordinator (CMC) and AHEP Environmental Manager (EM). The site office will have a copy of both the main AHOSCP and the AHEP focussed Addendum. It is the responsibility of the CMC to ensure that each vessel working on AHEP is aware of the content of the AHBOSCP Addendum and that all masters have read and understood the protocol to follow in the event of a spillage. The EM will ensure exercises and audits of the OSCCP Addendum are completed on a regular basis.

The following spill response equipment will be held at AHEP Quayside Resources:

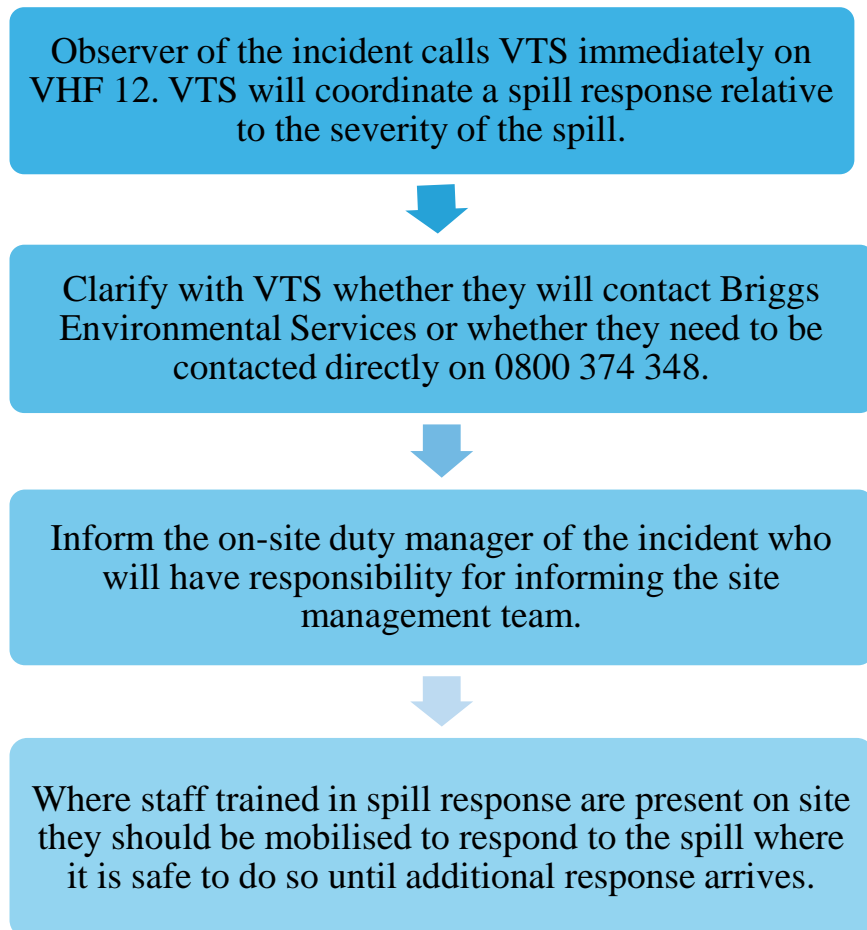
- 1 Sorbent Boom (14m)
- 100 Sorbent Pads (2' x 2')
- 1 Coil Polypropylene Rope

There are three tiered oil spill response levels, determined by the quantity of the spill and whether it will require a local, regional or national level of response.

Tier 1	1600 Litres Marine Gas Oil (MGO) or 1600 Litres Light Fuel Oil (LFO)	<b>Operational spills where events can be controlled by onsite resources. A Tier 1 spill is not likely to require recourse to intervention by resources outwith the port, an external incident response organisation or external authorities, except for purposes of notification.</b>
Tier 2	100 Tonnes MGO	Medium sized spills that will be handled by Harbour Personnel and a nominated contractor or other external assistance as nominated within this plan.
Tier 3	3000 Tonnes MGO	Larger spills or a loss of containment incident that will require full involvement of other authorities and possible mobilisation of Tier 3 and national stockpiles.



In the event of a spill, regardless of the spill tier, the following process should be followed:



HM Coastguard must be verbally advised of any oil pollution in the marine environment. This should be backed up in writing as soon as practicably possible. Information regarding the Aberdeen Harbour and UK National Oil Spill Contingency Plan can be found at following links:

<http://www.aberdeen-harbour.co.uk/operations/information-for-port-users/information-for-mariners/>

<https://www.gov.uk/government/publications/national-contingency-planncp>

## **Appendix A**

### **Vessel Activity Register**

## A1 Vessel Activity Register

A vessel activity register will be prepared, outlining the vessels, key construction activities, dates and any special requirements associated with the specific construction works. The register template is presented in Table A1.1.

	Master's Name	Vessel Type	Vessel Number	IMO	Company Name
Activity Description					
Date:					
Activity Description					
Date:					
Activity Description					
Date:					
Activity Description					
Date:					
Activity Description					
Date:					
Activity Description					
Date:					
Activity Description					
Date:					
Activity Description					
Date:					

## Appendix B

Aberdeen Harbour Published  
Guidance

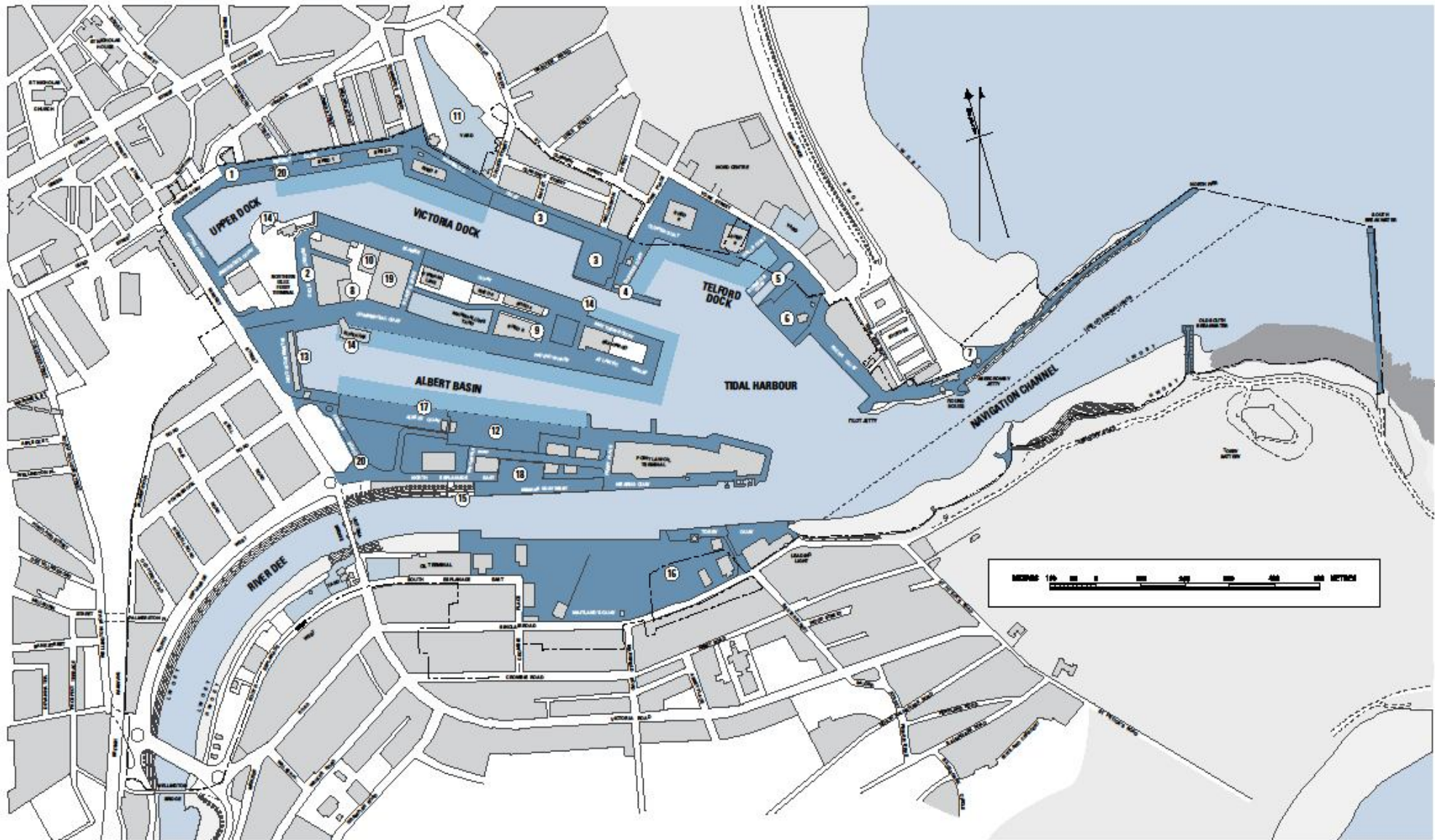
# B1 VTS Guidance

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## **Aberdeen VTS: Guidance for Masters**

March 2015 Version 5



## MAP OF PORT AREA

### KEY

- |                    |                            |                                     |                            |                              |
|--------------------|----------------------------|-------------------------------------|----------------------------|------------------------------|
| ① Harbour Office   | ⑤ Dry Dock                 | ⑨ Grain Export Terminal             | ⑬ Fish Market              | ⑰ Total E&P UK Base          |
| ② Weighbridges     | ⑥ Peterson-SBS             | ⑩ Harbour Maintenance Dept.         | ⑭ RO-RO Ramps              | ⑱ Mearns Quay Base           |
| ③ Peterson-SBS     | ⑦ Marine Operations Centre | ⑪ Waterloo Quay Multimodal Terminal | ⑮ Petrofac Training Centre | ⑲ Maritime Coastguard Agency |
| ④ Lifeboat Station | ⑧ Multi-storey Car Park    | ⑫ BP Exploration Base               | ⑯ Shell Base               | ⑳ Security Gatehouse         |

- Harbour Roads and Quaysides
- Yards
- Deepwater Berths
- Harbour Boundary

## **Aberdeen VTS**

**On the 1 October 2005, Aberdeen Port Control became Aberdeen Harbour Vessel Traffic Services (VTS).**

The service conforms to the standards set by I.A.L.A. and our team of Vessel Traffic Service Officers have completed M.C.A. approved training and are V-103/1 Certificated VTS Operators.

Aberdeen VTS is stationed in the Marine Operations Centre, located at the base of the North Pier. Designed by SMC Parr Associates of Dundee, the new building has won a number of architectural awards.

This facility accommodates all our marine operations services and houses radar, AIS, radio and traffic management systems. The building also houses two ships bridge simulators and training rooms that are available for hire.

### **A combined Information and Traffic Organisation Service**

Aberdeen VTS is a combined service, providing both information and instructions to maritime traffic. Participation in the VTS scheme is compulsory for all vessels operating the VTS area. Further details are available on Admiralty Chart 1446 "Approaches to Aberdeen Harbour" and also in "Admiralty List of Radio Signals Volume 6(1)".

The **Information Service** aims to ensure essential information is supplied to ships in time to aid navigational decision making.

The **Traffic Organisation Services** aims to prevent the development of dangerous maritime traffic situations. It will give instructions and clearances to make sure that vessels move around the port safely and efficiently.

**Masters will continue to have absolute responsibility for the safety and conduct of their vessel at all times. Aberdeen VTS does not relieve a vessel's Master of these responsibilities.**

Further information is available from:-

Aberdeen VTS Authority  
Aberdeen Harbour Board  
16 Regent Quay  
Aberdeen  
AB11 5SS

Telephone: +44 (0) 1224 597000  
Fax: +44 (0) 1224 571507  
e-mail: [harbourmasters@aberdeen-harbour.co.uk](mailto:harbourmasters@aberdeen-harbour.co.uk)



## Identifier

The call identifier for Aberdeen Harbour is:  
“Aberdeen VTS”

## Clearance

All vessels must receive “traffic clearance” from Aberdeen VTS before carrying out any manoeuvre.

## Communications and Surveillance

Aberdeen VTS monitors current tidal and meteorological conditions and is also equipped with:

VHF Radio	The working Channel is Channel 12. Channel 16 is also monitored.
AIS Receiver	Ensure your AIS is transmitting accurate, up-to-date data.
Radar	
Telephone	+44 (0) 1224 597000
Fax	+44 (0) 1224 597007
CCTV	Most quayside areas covered.
E-mail	<a href="mailto:vts@aberdeen-harbour.co.uk">vts@aberdeen-harbour.co.uk</a> (The VTS Office). <a href="mailto:waste@aberdeen-harbour.co.uk">waste@aberdeen-harbour.co.uk</a> (Ships Waste Notifications ONLY). <a href="mailto:dangerous@aberdeen-harbour.co.uk">dangerous@aberdeen-harbour.co.uk</a> (Dangerous Goods Notifications ONLY). <a href="mailto:pfs@aberdeen-harbour.co.uk">pfs@aberdeen-harbour.co.uk</a> (ISPS Pre-Arrival Notifications ONLY).

N.B. All these services are recorded.

Marine related information, including the latest Aberdeen Harbour Notices to Mariners, can be found at:

<http://www.aberdeen-harbour.co.uk/operations/information-for-port-users/>

## Reporting Points

Five reporting and holding points have been designated. All vessels must report when passing points I and B and must report at points A, C and D when required by VTS to do so.

India:	Three miles from the Fairway Buoy.
Alpha:	The transition point between the Tidal Harbour and <u>Al</u> bert Basin.
Bravo:	In the vicinity of the Fairway <u>B</u> uoy.
Charlie:	The transition point between the Tidal Harbour and Victoria Dock (The <u>C</u> ut).
Delta:	The transition point between the Turning Basin and the River <u>D</u> ee.

## **B2**     **Dolphin Code**

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# Aberdeen Harbour Dolphin Code

**The area around the harbour mouth at Aberdeen is a feeding ground for bottlenose dolphins. These animals are protected by national and international legislation and disturbing them is a criminal offence.**

The simplest way to reduce the risk of inadvertently breaking the law is by keeping watch for the animals and following this advice, which has been approved by Aberdeen Harbour Board, Scottish Natural Heritage, Police Scotland and the East Grampian Coastal Partnership.

- > **When dolphins are nearby, maintain a steady course and the slowest safe speed you can.**
- > **When entering or leaving the harbour stay well away from the breakwaters to avoid startling or boxing-in animals behind them.**
- > **If it is safe and practicable to do so, avoid directly approaching the animals.**
- > **Avoid turning engines on and off if dolphins are present.**
- > **Never allow anyone to swim with, touch or feed dolphins.**

There is a great deal of local interest in the dolphins and their welfare, with many people watching the animals from Torry Point Battery. It is therefore likely that any suspected acts of disturbance will be noted and reported to the police and/or the press.

Operators should take particular care to avoid inadvertently 'herding' the animals. Small boats under way in groups should adopt a single-file formation, especially in the harbour mouth, whenever it is safe to do so.

## WHAT TO DO IF DOLPHINS COME TOWARDS YOUR VESSEL

From time to time, dolphins may choose to come in to close quarters with your vessel. If you are lucky enough for this to happen, maintain a steady course and slow speed until the animals move away. If you wish to 'lose' the animals, it is best to slowly come to standstill with your engine idling and wait for them to lose interest. Never chase animals that are moving away from you.

For more information about safely interacting with marine wildlife visit [www.marinecode.org](http://www.marinecode.org)

## WHAT TO DO IF YOU SEE OTHER MARINE MAMMALS

Please apply the same code of conduct when encountering whales, porpoises and seals. Should you see a whale then please record the position and report the details to Seawatch Foundation.

[sightings@seawatchfoundation.org.uk](mailto:sightings@seawatchfoundation.org.uk)



## Appendix C

Waverider Information	MKIII	Buoy
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# Directional Waverider MkIII

Datawell - Oceanographic Instruments

## The Directional Waverider DWR-MkIII: Three years of continuous operation

The Directional Waverider hardly needs any introduction: it is the world's standard for measuring wave height and wave direction. Its success is due to the proprietary well-proven and accurate Datawell stabilized platform sensor, enabling wave height measurements by a single accelerometer. For the wave direction, direct pitch and roll measurements are performed needing no integration. In combination with horizontal accelerometers and a compass this forms the complete sensor unit, the heart of the instrument.

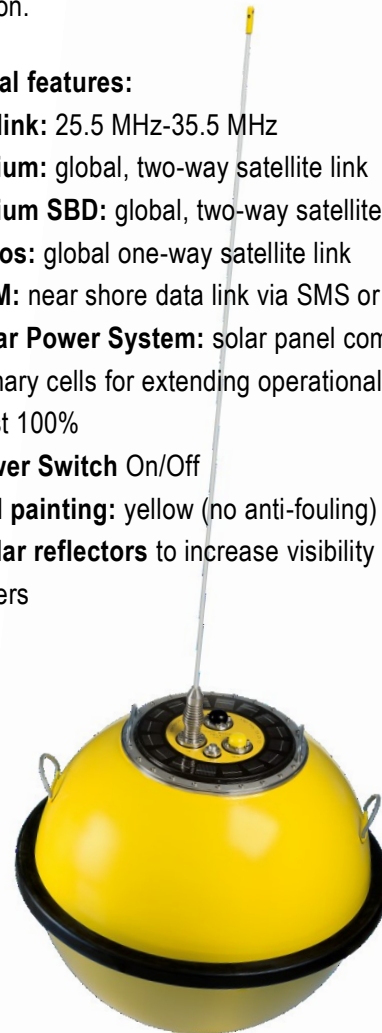
### The highlights:

- **Real time** measurement of wave height with half-hourly heave and directional spectra updates.
- **HF link up to 50 km** over sea. The proprietary Datawell HF link module is easy replaceable if a different transmission frequency is required.
- **LED flashlight** integrated in the top of the antenna increasing the buoy's visibility.
- **GPS receiver** for buoy positioning has now become a standard feature of the DWR-MkIII, and facilitates its retrieval.
- **Integrated datalogger** based on the latest flash card technology.
- A **water temperature sensor** in the mooring eye providing sea surface temperature
- **High capacity primary cells** operating reliably and safely under all wave conditions and weather circumstances for **up to three years** without replacement.
- Built-in **energy meter** reports an accurate estimation of the remaining operating life.
- **Intelligent Test Box** enables sequential discharge of individual battery strings

The DWR-MkIII comes standard with the Datawell HF link for ranges up to 50 Km over sea. For larger ranges the HF link can be combined or replaced with Iridium, Argos or Orbcmm satellite communication. For near shore applications, a GSM link is also available. The MkIII can be supplied in a 70 cm hull offering easier handling and 1.2 years of continuous operation or a 90 cm hull for 3.5 years of continuous operation.

### Optional features:

- **HF link:** 25.5 MHz-35.5 MHz
- **Iridium:** global, two-way satellite link
- **Iridium SBD:** global, two-way satellite link
- **Argos:** global one-way satellite link
- **GSM:** near shore data link via SMS or Internet
- **Solar Power System:** solar panel combined with primary cells for extending operational life by at least 100%
- **Power Switch** On/Off
- **Hull painting:** yellow (no anti-fouling)
- **Radar reflectors** to increase visibility in busy waters



DWR-MkIII with optional solar panels, power switch and painted hull



# Directional Waverider MkIII

Datawell - Oceanographic Instruments

## Specifications

<b>Resolution and Accuracy</b>	Heave	Range: -20 m - +20 m, resolution: 0.01m Accuracy: < 0.5% of measured value after calibration < 1.0% of measured value after 3 year Period: 1.6 s - 30 s
	Direction	Range: 0° - 360°, resolution 1.4° (1 binary degree) Heading error: 0.4° - 2° (depending on latitude) typical 0.5° Period: 1.6 s - 30 s (free floating)
	Water temperature	Range: -5 °C - +46 °C, resolution: 0.05 °C Accuracy: < 0.1 °C (sensor accuracy)
<b>Sensor and Processing</b>	Type	Datawell stabilized platform sensor, performing heave and direct pitch and roll measurements combined with a 3D fluxgate compass and X/Y accelerometers.
	Sampling	8-channel, 14bit @ 3.84Hz
	Processing	32 bits microprocessor system
<b>Standard features</b>	Integrated datalogger	Compact flash module 1Gb
	LED Flashlight	Antenna with integrated LED flasher, colour yellow (590 nm), pattern 5 flashes every 20 s, standard length 35 cm
	GPS position	12 channel, fix every 30 min, precision <5 m
	Intelligent Test Box	Enables sequential discharge of individual battery strings
<b>Optional features</b>	Datawell HF link	Frequency range 25.5 - 35.5 MHz (35.5 - 45.0 MHz on request) Transmission range 50 Km over sea, user replaceable. For use with Datawell RX-C or RX-D receivers.
	Iridium / Argos	Satellite communication
	GSM	Mobile communication
	Solar power system	Solar panel combined with Boostcap capacitors
	Power Switch	Data files are closed and secured
	Hull painting	Brantho KorruX "3 in 1" paint system (no anti-fouling)
	Radar reflectors	Two reflectors mounted on hatchcover (retrofitable)
	Hull diameter	0.7 m and 0.9 m (excluding fender)
<b>General</b>	Material	Stainless steel AISI316 or Cunifer10
	Weight	Approx. 109 Kg 0.7m AISI316, 113Kg 0.7m Cunifer10
		Approx. 216 Kg 0.9m AISI316, 225Kg 0.9m Cunifer10
	Batteries	0.7 m diam. operational life 1.2 years, 1 section of 15 batteries 0.9 m diam. operational life 3.5 years, 3 sections of 15 batteries Type: Datacell RC24B ( 200 Wh black)
Temperature range	Operating: -5 °C - +35 °C Storage: -5 °C - +40 °C (+ 55 °C short term, weeks only)	