



Shannon Foynes
PORT COMPANY

Foynes
County Limerick
Ireland

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SHANNON FOYNES PORT COMPANY

SIX-YEAR MAINTENANCE DREDGING

PLAN 2012 TO 2017

**APPLICATION FOR A DUMPING AT SEA
PERMIT UNDER THE**

**THE FORESHORE AND DUMPING AT SEA
(Amendment) Act 2009**

**TO THE ENVIRONMENTAL PROTECTION
AGENCY**

**JOHN CARLTON
ENGINEERING & PORT SERVICES MANAGER**

FEBRUARY 2012





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Environmental Licensing Programme,
Office of Climate, Licensing & Resource Use,
Environmental Protection Agency,
PO Box 3000,
Johnstown Castle Estate,
County Wexford.

2nd February 2012

RE:- APPLICATION FOR A DUMPING AT SEA PERMIT

Dear Sir/Madam,

Please find enclosed, a completed Application Form for a dumping at Sea Permit for Shannon Foynes Port Company to cover our Maintenance Dredging requirements for the next six years.

The Application includes all the attachments required along with tables, maps and drawings. There is one Original and one copy of the documentation enclosed along with two electronic copies of all documents in searchable PDF format. There are also two electronic files containing AutoCAD drawings in ITM and WGS84 Projection, outlining the Dredge Sites, Dump Sites and Sampling Locations. The location Co-ordinates in ITM and WGS84 for the Dredge Sites, Dump Sites and Sampling Locations are provided in Excel Format.

The Application Fee is also enclosed.

We will be placing the Public Notice in the press next week and will forward this when it is published.

We will be lodging an Application for a Foreshore Licence with the Department of the Environment, Heritage and Local Government, once we have been issued with a Reference number for the Dumping at Sea Permit Application from yourselves and will forward the Licence once it is granted.

It is essential for us as a Commercial Port, to maintain the required depths of water needed to service vessels frequenting the Port, serving our Customers. We hope that our application will be successful and thus enabling us to organize our dredging requirements in a more cost effective manner.



Attached is a summary of our Application.

We hope that all the enclosed documentation is in order, but should you have any queries please feel free to contact the undersigned.

Yours Faithfully,
FOR SHANNON FOYNES PORT COMPANY

A handwritten signature in blue ink, appearing to read 'J. Carlton', is written over a horizontal line.

John Carlton
Engineering and Port Services Manager

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SHANNON FOYNES PORT COMPANY
SIX-YEAR MAINTENANCE DREDGING PLAN

GENERAL

While the Shannon Foynes Port Company controls approximately 200 square miles of waterway in the Shannon Estuary there are just two locations in our ownership, which require ongoing maintenance dredging:

- (a) The approach channel and enclosed Dock at Ted Russell Dock, Limerick.
- (b) The Berths and Channel at the Foynes Terminal.

HISTORY OF MAINTENANCE DREDGING

(a) **Limerick:**

Mud/Silt is carried downriver and is initially deposited where the river widens at the approach channel to the Dock Gates (these Gates retain the fixed head of water within the enclosed Dock when the tide recedes). The quantity of mud deposited annually in the channel is approximately 30,000 tonnes during a wet summer as the large volume of fresh water coming down river scours away the silt from the channel. However during a dry summer the volume of fresh water flowing downriver is restricted because the rainfall is low in the catchment area and also the E.S.B. retains enough water up river to service the Hydro-Electric Station at Ardnacrusha. During a dry

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summer quantities to be dredged can exceed 120,000 tonnes. The latter scenario requires continuous dredging from June until November annually.

A fraction of the mud deposited in the channel is carried into the enclosed Dock as the Gates are opened for a period at each high tide. This necessitates maintenance dredging and quantities of up to 6,000 tonnes annually are involved.

(b) Foynes:

In the West Jetty development in 1999/2000 capital dredging was carried out with volumes of 330,000 cubic meters of silt, 40,000 cubic meters of boulder clay and 20,000 cubic metres of rock being removed. To maintain the depths achieved maintenance dredging is required annually. While the feasibility studies carried out for the above capital works indicated that maintenance dredging would not increase substantially due to the increased depths it is now apparent that annual maintenance dredging will be 100,000 to 150,000 tonnes of silt. To maximise the benefit of the above capital works it is also apparent that the dredging should be carried out every three to four months and not once yearly as draft restrictions would have to be increased every three to four months throughout the year.

We will be better able to manage our dredging requirements if we are successful in acquiring a six-year licence in that we can carry out the dredging when required and thereby minimise the possible effects that the dumping operation may have on the areas involved. This of course would take account of any periods of time when dumping would be prohibited under the conditions of the licence.

It would also help us in procuring contractors to carry out some of the works and make it more cost effective.

DISPOSAL OF SPOIL

In accordance with the requirements of the Department of Communications, Marine and Natural Resources the possibility of disposing of the dredge spoil at both locations by bringing the material ashore was investigated. It was found not to be practicable to do this and so the approved dumpsites are used for disposal at sea. The dumpsites are indicated on the attached charts.

MAINTENANCE DREDGING PLAN

Shannon Foynes Port Company are preparing a detailed dredging plan outlining the history of the port and the maintenance dredging carried out in the past and that which it intends to carry out over the next six years. The quantities in the plan are expected to be the absolute maximum based on experience and allow for contingencies.

What we plan to do at the approach channel to Limerick Dock is to initiate bed leveling during Spring Tides so that the disturbed silt material is dispersed down river during the EBB tide. Some will be deposited in the River awaiting removal by Trailing Suction Hopper Dredger during the Annual Dredging Campaign.

The Plan in Foynes will be to initiate bed leveling during Spring Tides along the Berths and in the central harbour so that the disturbed silt material is dispersed down river during the EBB tide. Some will be deposited in the deeper sections of the Harbour awaiting removal by Trailing Suction Hopper Dredger during the Annual Dredging Campaign.

This Annual Dredging Campaign is essential to maintain depths to accommodate the vessels using the Port and it is vital to ensure the Port remains commercially viable.

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Maximum predicted quantities of mud/silt to be Dumped at Sea

Area	Tonnes
Ted Russell Dock	6,000
Limerick Approach Channel	120,000
Foynes	150,000
Annual Total	276,000
Total over six Years	1,656,000

MONITORING OF DREDGE/DUMP SITES

Hydrographic Surveys of all dump sites will be undertaken every year to ensure that there is no unusual pattern of material movement. Material analysis of all dredge sites will be carried out. These analyses shall be repeated under our monitoring plan during the life of the Licence. The same applies to other interim studies that may be requested by the Environmental Protection Agency or other bodies represented on the vetting committee.

For SHANNON FOYNES PORT COMPANY



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This is a draft document and is subject to revision.



Dumping at Sea Permit Application Form

EPA Ref. N^o:
(Office use only)

Environmental Protection Agency

PO Box 3000, Johnstown Castle Estate, Co. Wexford
Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699
Web: www.epa.ie Email: info@epa.ie



Dumping at Sea Permit Application Form

Tracking Amendments to Draft Application Form

Version No.	Date	Amendment since previous version	Reason
V.1.	07/09/2010	N/A	
V.2.	27/07/2011	V.1.	Clerical update

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Dumping at Sea Permit Application Form

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ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for a Dumping at Sea permit under the Dumping at Sea Acts, 1996 to 2010.

The application form **must** be completed in accordance with the instructions and guidance provided in the *Dumping at Sea Permit Application Guidance Note*. The guidance note gives an overview of Dumping at Sea permitting, outlines the permit application process (including the number of copies required) and specifies the information to be submitted as part of the application. The guidance note and application form are available to download from the Licensing page of the EPA's website at www.epa.ie.

A valid application for a Dumping at Sea permit must, as a minimum, contain the information set out in the First Schedule to the Dumping at Sea Acts, 1996 to 2010. This application form is designed to set out the relevant questions in a structured manner and not necessarily in the order presented in the First Schedule. In order to help ensure a legally valid application in respect of these requirements, please complete the checklist provided in Annex 2.

This application form does not purport to be, and should not be considered, a legal interpretation of the provisions and requirements of the Dumping at Sea Acts, 1996 to 2010. While every effort has been made to ensure the accuracy of the material contained in the application form, the EPA assumes no responsibility and gives no guarantee or warranty concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.

Should there be any contradiction between the informational requirements set out in the application form and any clarifying explanation contained in the accompanying guidance note, then the requirements in this application form shall take precedence.

PROCEDURES

The procedure for making and processing of applications for Dumping at Sea permits and for the processing of reviews of such permits is summarised below. The application fee that shall accompany an application is currently set at €63.49.

Within 21 days after the submission of an application to the Agency the applicant must publish in a newspaper circulating in the area, a notice of the application, in accordance with Section 5A of the Dumping at Sea Acts, 1996 to 2010. Following publication of the aforementioned notice, any persons who wish to do so may make a submission or comment on the permit application. The permit application and all submissions by third parties shall be put on public display in electronic format on the EPA website and be open to inspection by any person, as soon as reasonably possible by the Agency.

An application for a permit must be submitted on the appropriate form (available from the Agency) with the correct fee and should contain relevant supporting documentation as attachments. The application should be based on responses to the information requested in the form and include supporting written text and the appropriate use of tables and drawings. Where multiple loading or dumping sites are proposed in a single application, a system of unique reference numbers should be used to denote each loading and dumping site. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions is to facilitate both the applicant and the Agency in the provision of the information and in its assessment. **Please adhere to the format as set out in the application form and clearly number each section and associated attachments accordingly.** Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made to publications should be supported by a bibliography.

All questions should be answered. Where information is requested in the application form which is not relevant to the particular application, the words "not applicable" should be clearly written on the form. The abbreviation "N/A" should not be used.

Additional information may need to be submitted beyond that explicitly requested on this form. The Agency may request further information if it considers that its provision is pertinent to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Applicants should be aware that disposing of a substance or material at sea without a permit, or contravening the conditions of a Dumping at Sea permit, are offences under the Dumping at Sea Acts, 1996 to 2010. Offenders are liable upon conviction to a fine or imprisonment or both.

Note: Drawings and Charts: The following guidelines are included to assist applicants:

- All drawings submitted should be titled and dated.
- All drawings should have a unique reference number and should be signed by a clearly identifiable person.
- All drawings should indicate a scale and the direction of north.
- All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown. Drawings delineating the loading boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. All drawings should be A3 or less and of an appropriate scale such that they are clearly legible.
- The applicant should provide legends on all drawings and maps as appropriate.
- In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

A signed original and 1 additional hardcopy of the application and accompanying documents/particulars in hardcopy format plus 2 copies of all files in electronic searchable PDF format on CD-Rom (OCR'd) or other format agreeable to the Agency shall be submitted to the headquarters of the Agency.

It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.

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SECTION A: GENERAL

Advice on completing this section is provided in the "Application Guidance Note".

A.1 Applicant's Details

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Company Name:	SHANNON FOYNES PORT COMPANY
C.R.O.^a No.:	332414
Address:	MILL HOUSE
	FOYNES
	COUNTY LIMERICK
Tel:	069 73100
Fax:	069 73140
e-mail:	engineering@sfpc.ie

Nominated Contact Person

Name*:	JOHN CARLTON
Company Name:	SHANNON FOYNES PORT COMPANY
Address:	MILL HOUSE
	FOYNES
	COUNTY LIMERICK
Tel:	069 73100
Fax:	069 73140
e-mail:	engineering@sfpc.ie

*This should be the name of a person nominated by the applicant for the purposes of the application. This person may be a company employee or a suitably qualified external consultant.

^a Company Registration Office.

A.2 Planning Authority

Planning Permission relating to the loading works which is the subject of this application: (tick as appropriate)

<i>has been obtained</i>		<i>is being processed</i>	
<i>is not yet applied for</i>		<i>is not required</i>	✓

Local Authority Planning File Reference N^o:	NOT APPLICABLE
---------------------------------------------------------------	----------------

Attachment A.2 should contain, where appropriate, *the most recent* planning permission, including a copy of *all* conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, explain why not and provide relevant correspondence, *etc.*

Attachment A.2 included	Yes	No
		✓

A.3 Other Authorities

A.3 (i) Shannon Free Airport Development Company (SFADCo.) area

The applicant should tick the appropriate box below to identify whether the loading or dumping operations are located within the Shannon Free Airport Development Company (SFADCo.) area.

Attachment A.3(i) should contain details of any or all operations located within the SFADCo. area.

Attachment A.3(i) included	Yes	No
		✓

A.3 (ii) Health Services Executive Region

The applicant should indicate the **Health Services Executive Region(s)** where the loading and dumping operations are or will be located.

Name:	NOT APPLICABLE
Address:	
Tel:	
Fax:	
e-mail:	

A.3 (iii) Harbour Authority/Local Authority

The applicant should indicate the **Harbour Authority/Local Authority** where the loading and dumping operations are or will be located. In the event that loading and dumping operations take place in separate functional areas, please provide details of all relevant authorities.

Name:	SHANNON FOYNES PORT COMPANY
Address:	MILL HOUSE
	FOYNES
	CO. LIMERICK
Tel:	069 73100
Fax:	069 73140
e-mail:	engineering@sfpc.ie

Relevant Authorities Notified	Yes	No
	✓	

Attachment A.3(iii) should contain a copy of the correspondence issued to all relevant harbour authorities/local authorities.

Attachment A.3(iii) included	Yes	No
		✓

A.4 Newspaper Advertisement

Section 5A of the Dumping at Sea Acts 1996 to 2010, requires all applicants to advertise the application in a newspaper (within 21 days following date of application). See *Guidance Note for full details*.

Attachment A.4 The original page of the newspaper in which the advertisement was placed must be submitted within 21 days of the advertisement being published.

Attachment A.4 included	Yes	No
		✓

_____ **TO FOLLOW** _____

A.5 FEES

Class of Activity	Tonnage	Fee (in €)
DUMPING AT SEA	276,000 ANNUALLY 1,656,000 TOTAL	€63.49

Appropriate Fee Included	Yes	No
	✓	

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A.6 Foreshore Act Licences

Where applicable, provide a copy of the most recent Foreshore Act licence issued under the Foreshore Acts 1933 to 2009 in relation to relevant loading operations at the site. If an application for a Foreshore Act licence pertaining to the operations to which this application relates is currently under consideration by the Minister, outline details of the application should be submitted, including application file number, the date the application was submitted and a brief summary of the operation.

Attachment A.6 should contain the most recent relevant licence issued under the Foreshore Acts 1933 to 2009, including a copy of **all** conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable. Outline details of any existing permit applications should be submitted, if applicable.

Attachment A.6 included	Yes	No
		✓

FORESHORE APPLICATION REQUIRES EPA REF. NO. (WILL BE LODGED THEN)

A.7 Current/Previous Permits

Provide details of any current or previous permits held by the applicant under the Dumping at Sea Acts, 1996 to 2010.

Attachment A.7 should contain the most recent permit issued under the Dumping at Sea Acts, 1996 to 2010, including any monitoring returns for the previous 12-month period, if applicable.

Attachment A.7 included	Yes	No
	✓	

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SECTION B: LOADING OPERATIONS

Advice on completing this section is provided in the accompanying guidance note.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

B.1 Alternative measures

Under the provisions of Section 5(2) of the Dumping at Sea Acts, 1996 to 2010, the dumping of substances or material at sea is only acceptable when the Agency is satisfied there is no suitable alternative means of disposal. Provide details of all investigations into alternative means of disposal or reuse of the substance or material. Applicants must also demonstrate that all necessary steps have been taken to minimise the quantity of material to be dumped or to render the material less harmful for dumping at sea. A complete and full answer must be provided.

Attachment B.1 should contain reports and supporting documentation with regard to the investigations into alternative means of disposal, treatment or reuse. Any associated drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab or other upon agreement) in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84).

Attachment B.1 included	Yes	No
	✓	

B.2 Purpose of the operation

Provide details on the purpose of the operation, e.g., is the work proposed capital or maintenance loading work. Details of any previous loading at the proposed site(s) should also be included.

Attachment B.2 should contain any supporting documentation on the purpose of the loading operation and details of any previous loading. Any associated drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab or other upon agreement) in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84).

Attachment B.2 included	Yes	No
	✓	

B.3 Loading Area

Four sets of coordinates must be given in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84). If loading at more than one area is to occur, coordinates for additional areas should be appended.

	Latitude	Longitude	ITM
(a)			
(b)	THESE ARE ATTACHED	AS TABLE B.3 AS THERE	ARE MULTIPLE
(c)	POINTS AND FOUR	SEPERATE DREDGE SITES	THEY ARE ALSO ON
(d)	DRAWINGS 1 & 2 AND	ON ELECTRONIC AUTOCAD	FILES & EXCEL FILES

Attachment B.3: Any associated drawings / maps should be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab or other upon agreement) in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84).

Attachment B.3 included	Yes	No
	✓	

B.4 Details of the operation

Provide details on the following aspects of the operation:

- B.4 (I) Date of commencement of loading operations;
- B.4 (III) Location and method of loading of the substance or material;
- B.4 (IV) Total quantities (in tonnes and cubic meters) to be loaded:

- per load
- per week
- per month.

Attachment B.4 should contain any supporting documentation on the details of the loading operations. Any associated drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab or other upon agreement) in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84).

Attachment B.4 included	Yes	No
	✓	

SECTION C: MATERIAL ANALYSIS

Advice on completing this section is provided in the accompanying Guidance Note.

C.1. Tabular data on Sampling Points

Applicants should submit the following information for each sampling point at the loading site(s), at which the material or substance for disposal has been analysed:

PT_CD	Latitude	Longitude	ITM
Point Code (Referencing system outlined in guidance notes, e.g. L1-1)	THESE ARE ATTACHED AS TABLE C.1 AND ALSO IN EXCEL ELECTRONIC FILES		

An individual record (i.e., row) is required for each sampling point. Acceptable file formats include Excel, Access or other upon agreement with the Agency.

If more than one loading site is proposed, individual tables must be completed for each site.

C.2 Characteristics and Composition of the Substance or Material for Disposal

Give particulars of the nature, composition and quantity of the substance or material to be disposed.

At a minimum, sampling must be conducted for the physical and chemical parameters listed in Tables C.1 (I) and (II), located in Annex 1 to this application form. Details of all sampling results of the substance or material to be disposed should be supplied via Tables C.1(I) and (II).

Applicants must also address the following criteria relating to the composition of the substance or material to be disposed:

- Amount and composition of the material;
- Material form, e.g., solid, liquid;
- Physical properties (especially solubility, specific gravity and density);
- Chemical and biochemical properties (e.g., oxygen demand, nutrients);
- Biological properties (viruses, bacteria, yeasts, parasites);
- Radioactivity;
- Toxicity;
- Persistence in the environment (physical, chemical and biological);
- Accumulation and biotransformation in biological materials or sediments;
- Chemical and physical changes of the substance or material after release, including formation of new compounds;
- Probability of production of taints or other changes reducing marketability of resources (e.g., fish, shellfish).

A report on the characteristics and composition of the substance or material for disposal should be submitted, addressing all criteria listed above, and any supporting information, as **Attachment C.2**.

Attachment C.2 included	Yes	No
	✓	

SECTION D: IMPACT ON THE RECEIVING ENVIRONMENT

Advice on completing this section is provided in the accompanying Guidance Note.

D.1. Assessment of Impact on the Environment

- Provide an assessment of the predicted impacts of the proposed dumping at sea to which this application relates. This assessment should include the following, where applicable:
 - Initial dilution to be achieved by proposed method of release;
 - Methods of packaging and containment, if any;
 - Dispersal, horizontal transport and vertical mixing characteristics;
 - Existence and impact of current and/or previous dumping in the area (including accumulative effects);
 - Sea bottom characteristics, including topography, geochemical and geological characteristics and benthic micro-fauna and macro-fauna;
 - Water characteristics (e.g., temperature, pH, salinity, oxygen indices of pollution-dissolved oxygen (DO), nitrate, nitrite, ammonia, phosphate and suspended matter);
 - Interference with shipping, fishing, recreation, mineral extraction, desalination, fish spawning and nursery habitats, areas of special scientific importance, areas of natural or archaeological heritage importance, biological diversity (including diversity within species, between species, and of ecosystems) and other legitimate use of the sea.

- Details of any previous sampling at the loading and dumping sites, conducted either as part of this application or previous post-dumping monitoring programmes, should be supplied via Tables D.1(I) and (II). If sampling has been conducted as part of an EIS which has also been submitted with the application form, reference to the appropriate table(s) of results in the EIS will be sufficient in this case. Results of the National Seabed Survey should be included, where available.

- Describe the existing environment at the loading and dumping sites in terms of water quality and sediment quality, with particular reference to environmental quality standards or other legislative standards.

- Give details of any designations under any Council Directive or Regulations that apply in relation to the loading and dumping sites. Indicate whether or not the loading and disposal of the substance or material, the dumping methods employed, or other factors associated with such operations are likely to have a significant effect on a designated site.

- Any site which may have an impact on a Natura 2000 site (SPA or SAC) must be subject to screening for Appropriate Assessment in accordance with Article 6(3) of the Habitats Directive (92/43/EEC). The results of any such screening must be submitted as part of this application. Where screening has determined that an appropriate assessment is required, an appropriate assessment must be completed and a copy of said assessment submitted as part of this application. Please refer to the National Parks and Wildlife Service guidance document 'Appropriate Assessment of Plans and Projects in Ireland' with regard to this assessment.

- This section should also contain full details of any modelling of the proposed loading and dumping operations.

Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment D.1**.

Attachment D.1 included	Yes	No
	✓	

SECTION E: DUMPING OPERATIONS

Advice on completing this section is provided in the accompanying Guidance Note.

E.1 Site Selection

Provide details of the site selection process, including site description, suitability and rationale for final site selection. Full details of the site selection process should be submitted as **Attachment E.1**

Attachment E.1 included	Yes	No
	✓	

E.2 General Information

Provide information on the following points in the spaces provided.

E.2 (I) Has the proposed dump site(s) been used previously for disposal of material from the current proposed loading area(s) or any other loading area(s)? If so, provide details of tonnages/volumes, duration and any investigations into the impact of the dumping operations on the environment at the dump site(s). Please provide details of any previous permits relating to dumping operations at the site(s), if applicable.

Attachment E.2(I) included	Yes	No
	✓	

E.2 (II) Dump site – four sets of coordinates must be given in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84). If dumping is to occur at more than one location, coordinates for additional areas should be appended.

	Latitude	Longitude	ITM
(a)			
(b)	THESE ARE ATTACHED	AS TABLE E.2 (II) AS THERE	ARE MULTIPLE
(c)	POINTS AND THREE	SEPERATE DUMP SITES	THEY ARE ALSO ON
(d)	DRAWINGS 3 & 4 AND	ON ELECTRONIC AUTOCAD	FILES & EXCEL FILES

Attachment E.2(II) Any associated drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab or other upon agreement) in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84).

Attachment E.2(II) included	Yes	No
	✓	

E.2 (III) Name and address of disposal operator contracted to carry out the dumping (if known)

Name:	NOT KNOWN YET
Address:	NOT KNOWN YET
Tel:	NOT KNOWN YET

Fax:	NOT KNOWN YET
e-mail:	NOT KNOWN YET

E.2 (IV) Distance of dump site from the nearest shore.

DUMP SITE "A" = 0.2 Km
DUMP SITE "B" = 1.0 Km
DUMP SITE "C" = 1.25 Km

E.2 (V) Provide details of the average, minimum and maximum depth of the dump site(s) (to chart datum).

DUMP SITE "A" : AVERAGE = 0.9 m MINIMUM = 0.5 m & MAXIMUM = 1.3 m
DUMP SITE "B" : AVERAGE = 2.5 m MINIMUM = 2.0 m & MAXIMUM = 3.0 m
DUMP SITE "C" : AVERAGE = 36.0 m MINIMUM = 35.0 m & MAXIMUM = 37.0 m

E.2 (VI) Provide details of the method and rate of disposal (i.e. tonnes and cubic meters per day/week/month) of substance or material from the vessel.

DUMP SITE "A" : 900 TONNES/DAY 4,500/WEEK	THROUGH VESSELS BOTTOM
DUMP SITE "A" : 900 TONNES/DAY 4,500/WEEK	THROUGH VESSELS BOTTOM
DUMP SITE "A" : 30,000 TONNES/DAY 150,000/WEEK	THROUGH VESSELS BOTTOM

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SECTION F: MONITORING

Advice on completing this section is provided in the accompanying Guidance Note.

F.1. Monitoring Programme

Proposed programmes for environmental monitoring at both the loading and dumping sites should be submitted as part of the application. These programmes should be provided as Attachment F.1.

Reference should be made to the proposed location of monitoring points, sampling methods, analytical and quality control procedures, including equipment calibration, equipment maintenance and data recording/reporting procedures to be carried out in order to ensure accurate and reliable monitoring.

In determining the monitoring programme to be carried out, the nature, frequency and duration of dumping operations and, where relevant, the effects of intermittent dumping on the receiving environment should be considered.

Details of any accreditation or certification of analysis should be included.

Attachment F.1 should also contain any supporting information.

Attachment F.1 included	Yes	No
	✓	

F.2. Tabular data on Monitoring Points

Applicants should submit the following information for each proposed monitoring point:

PT_CD	LATITUDE	LONGITUDE	ITM
Point Code (Referencing system outlined in guidance notes)	THESE ARE ATTACHED AS TABLE F.2 AND ALSO IN EXCEL ELECTRONIC FILES		

An individual record (i.e., row) is required for each monitoring point. Acceptable file formats include Excel, Access or other upon agreement with the Agency.

SECTION G: DECLARATION

Declaration

I hereby apply for a Dumping at Sea permit, pursuant to the provisions of the Dumping at Sea Acts, 1996 to 2010.

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website.

This consent relates to this application itself and to any further information or submission, whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Signed by: JD Carlton
(on behalf of the organisation)

Date: 2/02/2012

Print signature name: JOHN CARLTON

Position in organisation: ENGINEERING AND PORT SERVICES MANAGER

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ANNEX 1: TABLES

Table C.1(I) Material Sampling – Physical Properties

Sampling Date:		Sampling location: (e.g., L1-1, L1-2.....)
Substance	Result	
Fine Fraction Conc. (<2mm) ^{Note 1} :		
<63µm:		
% Solids		
	Units of Measurement	
Density/Specific Gravity		
TOC		

Note 1: to be expressed as a percentage of total sample.

THESE ARE ATTACHED AS TABLE C.1 (I) AND IN EXCEL ELECTRONIC FILE FORMAT

Table C.1(II) Material Sampling – Chemical Composition

Sampling Date:		Sampling location: (e.g., L1-1, L1-2.....)
Substance	Units of Measurement	Result
Arsenic		
Copper		
Cadmium		
Chromium		
Lead		
Mercury		
Nickel		
Zinc		
Aluminium		
Lithium		
Organochlorine Pesticides		
Tributyltin (TBT) ^{Note 1}		
Dibutyltin (DBT) ^{Note 1}		
PCBs ^{Note 1}		
PAHs ^{Note 1}		
Total Extractable Hydrocarbons		

Note 1: Only determined in certain circumstances – see Application Guidance Note for further information.

THESE ARE ATTACHED AS TABLE C.1 (II) AND IN EXCEL ELECTRONIC FILE FORMAT

Table D.1(I) Receiving Environment Sampling – Physical Properties

Sampling Date:		Sampling location: (e.g., D1-1, D1-2.....)
Substance	Result	
Fine Fraction Conc. (<2mm) ^{Note 1} :		
<63µm		
% Solids		

	Units of Measurement	
Density/Specific Gravity		
TOC		

Note 1: to be expressed as a percentage of total sample.

NOT APPLICABLE

Table D.1(II) Receiving Environment Sampling – Chemical Composition

Sampling Date:		Sampling location: (e.g., D1-1, D1-2.....)	
Substance	Units of Measurement	Result	
Total Organic Nitrogen			
Arsenic			
Copper			
Cadmium			
Chromium			
Lead			
Mercury			
Nickel			
Zinc			
Aluminium			
Lithium			
Organochlorine Pesticides			
Tributyltin (TBT) ^{Note 1}			
Dibutyltin (DBT) ^{Note 1}			
PCBs ^{Note 1}			
PAHs ^{Note 1}			
Total Extractable Hydrocarbons			

Note 1: Only determined in certain circumstances – see Application Guidance Note for further information.

NOT APPLICABLE

ANNEX 2: APPLICATION CHECKLIST

This checklist is to assist the applicant in ensuring a valid and complete application is submitted to the Agency.

Section of Application Form		Checked by Applicant	Checked by Agency
A.2	Planning Permission / EIS attached	NOT APPLICABLE	
A.3(i)	SFADCo. correspondence attached	NOT APPLICABLE	
A.3(iii)	Harbour Authority notice attached	NOT APPLICABLE	
A.4	Original newspaper notice included	TO FOLLOW	
A.5	Appropriate fee paid	✓	
A.6	Foreshore Licence attached	TO FOLLOW	
A.7	Current / previous permit attached	✓	
B.1	Alternative measures investigation attached	✓	
B.2	Purpose of the operation attached	✓	
B.3	Loading location maps / drawings attached	✓	
B.4	Operational details attached	✓	
C.1	Material analysis report attached	✓	
D.1	Assessment of impact on the environment attached	✓	
E.1	Site selection report attached	✓	
E.2(II)	Dump site maps / drawings attached	✓	
F.1	Correspondence from Marine Survey Office attached	TO FOLLOW	
F.2	Details of marine position recording equipment attached	TO FOLLOW	
G.1	Programme for environmental monitoring attached	✓	
Additional Checks			
All drawings / maps provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab or other upon agreement) in both 12-digit Irish Transverse Mercator (ITM) and in Longitude and Latitude (WGS 84)		✓	
1 signed original application form (with attachments).		✓	
1 additional application hardcopy.		✓	
2 copies of all files in electronic searchable PDF format on CD_ROM (OCR'd) or other agreed format.		✓	

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