

## **Appendix A – Licences and Permits**

- **Dumping at Sea Permit Ref. No. S0016-01**
- **Foreshore Licence Ref. No. MS51/6/318**



Headquarters  
P.O. Box 3000  
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County Wexford  
Ireland

DUMPING AT SEA PERMIT

<b>Permit Register Number:</b>	S0016-01
<b>Permit holder:</b>	Iarnród Eireann, Rosslare Europort, Terminal Building, County Wexford.
<b>Location of loading:</b>	Rosslare Europort
<b>Location of dumping:</b>	Irish Sea, 6.5 km offshore from Rosslare Europort

## ***INTRODUCTION***

This introduction is not part of the permit and does not purport to be a legal interpretation of the permit.

The permit sets out in detail the conditions under which Iarnród Eireann will carry out loading and dumping at sea. This permit is for the loading of dredged material from maintenance dredging at Rosslare Europort and an adjacent small boat harbour, and the dumping of the dredged material in the Irish Sea a distance of 6.5 km offshore from Rosslare Harbour. Under this permit, a maximum of 210,000 tonnes of material shall be loaded and dumped per campaign. A total of five biennial campaigns shall be conducted, such that a total maximum of 1,050,000 tonnes of dredged material shall be loaded and dumped under this permit over an eight year timeframe. The permit holder is required to manage the permitted activities to ensure the protection of the marine environment and to submit reports on the loading and dumping activities and monitoring results to the Agency.

The permit sets out in detail the conditions under which Iarnród Eireann will carry out loading and dumping at sea.

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## ***Glossary of Terms***

All terms in this permit should be interpreted in accordance with the definitions in the Dumping at Sea Acts 1996 to 2010, unless otherwise defined in the section.

<b>AER</b>	Annual Environmental Report.
<b>Agreement</b>	Agreement in writing.
<b>Annually</b>	All or part of a period of twelve consecutive months.
<b>Application</b>	The application by the permit holder for this permit.
<b>Biennially</b>	Once every two years.
<b>Campaign</b>	A planned period of sustained activity.
<b>CEN</b>	Comité Européen De Normalisation – European Committee for Standardisation.
<b>Chart</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this permit.
<b>Competent laboratory</b>	A testing facility meeting the general management and technical requirements of EN ISO/IEC-17025 standard, or other equivalent standards accepted at international level and utilising methods of analysis, including laboratory, field, and on-line methods, which are validated and documented in accordance with the above standard(s) for the specific tests.
<b>Documentation</b>	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this permit.
<b>Dumping</b>	(a) any deliberate disposal in the maritime area (including side-cast dredging, plough dredging, water injection dredging and other such dredging techniques) of a substance or material from or in conjunction with a vessel or aircraft or offshore installation, (b) any deliberate disposal in the maritime area of vessels, aircraft or offshore installations.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this permit.
<b>Environmental damage</b>	As defined in Directive 2004/35/EC.
<b>EPA</b>	Environmental Protection Agency.
<b>Exclusive economic zone</b>	The outer limit of the exclusive economic zone is the line every point of which lies at a distance of 200 nautical miles from the nearest point of the baseline.
<b>Incident</b>	The following shall constitute as incident for the purposes of this permit: (i) an emergency; (ii) any loading or dumping at sea activity which does not comply with the requirements of this permit; (iii) any indication that environmental pollution has, or may have, taken place; (iv) a complaint of an environmental nature.

<b>Inland waters</b>	All sea areas which lie on the landward side of the baseline of the territorial seas.
<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately.
<b>Monitored Zone</b>	Area which must be monitored for marine mammals by a Marine Mammal Observer
<b>Noise-sensitive location (NSL)</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
<b>OSPAR</b>	Convention for the Protection of the Marine Environment of the North-East Atlantic
<b>Permit Holder</b>	Iarnród Eireann, Rosslare Europort, Terminal Building, County Wexford.
<b>Position</b>	Latitude and longitude coordinates in degrees and decimal minutes, based on the WGS 84 datum.
<b>Sample(s)</b>	Unless the context of this permit indicates to the contrary, the term sample(s) shall include measurements taken by electronic instruments.
<b>Slack Water</b>	The state of a tidal current when its speed is near zero, especially the moment when a reversing current changes direction and its speed is zero. The term also is applied to the entire period of low speed near the time of turning of the current when it is too weak to be of any practical importance in navigation. The relation of the time of slack water to the tidal phases varies in different localities.
<b>Standard Method</b>	A National, European or internationally recognised procedure (e.g., I.S. EN, ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of “Standard Methods for the Examination of Water and Wastewater” (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an alternative method as may be agreed by the Agency.
<b>The Agency</b>	Environmental Protection Agency.
<b>The Maritime Area</b>	Comprises <ul style="list-style-type: none"><li>(i) the inland waters and territorial seas of the State, and the seabed and subsoil beneath them,</li><li>(ii) any area for the time being standing designated by order under section 2 of the Continental Shelf Act 1968 for the purposes of that Act, and the waters above it, and</li><li>(iii) the exclusive economic zone of the State.</li></ul>

## ***Decision & Reasons for the Decision***

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this permit, the loading and dumping activities will comply with and will not contravene any of the requirements of Section 5 of the Dumping at Sea Acts 1996 to 2010.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant, all submissions received from other parties and the report of its inspector.

### ***Part I Schedule of Activities Permitted***

In pursuance of the powers conferred on it by the Dumping at Sea Acts 1996 to 2010, the Environmental Protection Agency (the Agency), under Section 5 of the said Acts, grants this Dumping at Sea Permit to Iarnród Eireann, Rosslare Europort, Terminal Building, County Wexford. The permit authorises the loading and dumping at sea activities described below, subject to conditions listed in Part II, with the reasons therefor and the associated schedules attached thereto.

## ***Part II Conditions***

### **Condition 1. Scope**

- 1.1 Statutory Obligations
  - 1.1.1 This permit is for the purposes of loading and dumping at sea under the Dumping at Sea Acts 1996 to 2010, only and nothing in this permit shall be construed as negating the permit holder's statutory obligations or requirements under any other enactments or regulations.
  - 1.1.2 This permit may be technically amended, as and when considered necessary by the Agency.
- 1.2 The material or substance to which this permit relates shall be dredged material loaded from that part of the sea specified in *Schedule A: Limitations*.
- 1.3 For the purposes of this permit, the location of the loading areas authorised by this permit is in part of the sea bounded by the coordinates specified in *Schedule A: Limitations* of this permit. The permitted loading activity shall be carried on only within the areas specified.
- 1.4 For the purposes of this permit, the location of the dumping site authorised by this permit is in that part of the sea bounded by the coordinates specified in *Schedule A: Limitations* of this permit. Any reference in this permit to "dumping site" shall mean the area thus specified. The permitted dumping activity shall be carried out only within the area specified.
- 1.5 The Monitored Zone for marine mammals authorised by this permit is the area within a 500 m radial distance of the loading activity.
- 1.6 Loading and dumping at sea shall be limited as set out in *Schedule A: Limitations* of this permit.
- 1.7 Loading and dumping at sea shall be controlled and operated as set out in the permit. All programmes required to be carried out under the terms of this permit become part of this permit.
- 1.8 No change to the loading and dumping activities authorised by this permit shall be carried out or commenced without the agreement of the Agency.

**Reason:** *To clarify the scope of this permit.*

### **Condition 2. Management of the loading and dumping at sea activities**

- 2.1 The permit holder shall adopt all reasonably practicable measures to minimise the noise impact of the permitted activities. Noise from the permitted activities shall not cause a nuisance at any NSLs.
- 2.2 The permit holder shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience as required and shall be aware of the requirements of this permit.
- 2.3 The permit holder shall ensure that a nominated, suitably qualified and experienced person is present at all times when activities covered by this permit are ongoing.
- 2.4 The permit holder shall notify the Agency at least two weeks prior to the commencement of each loading and dumping campaign.
- 2.5 Documentation

The permit holder shall issue a copy of this permit to all relevant personnel whose duties relate to any condition of this permit.



## 2.6 Corrective Action

The permit holder shall initiate an investigation and corrective action in the event of a reported non-conformity with this permit to the satisfaction of the Agency.

## 2.7 Communications Programme

The permit holder shall, within one month of the date of grant of this permit, establish and maintain a Public Awareness and Communication Programme to ensure members of the public can obtain information at reasonable times.

**Reason:** *To make provision for management of the loading and dumping at sea activities on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the marine environment.*

# Condition 3. Loading and dumping at sea activities

- 3.1 Loading and dumping activities must be completed within eight years of the date of commencement of activities.
- 3.2 Loading and dumping activities shall be conducted as five campaigns.
- 3.3 Following submission of the results of the monitoring specified in *Schedule B.1: Monitoring at Loading Area* of this permit, loading and dumping activities may not proceed without the agreement of the Agency.
- 3.4 No material shall be dumped at sea which has been categorised as unsuitable for disposal.
- 3.5 Dumping shall be effected by release of the material through the hull of the vessel.
- 3.6 Loading shall be carried out by trailing suction hopper dredger, unless otherwise agreed by the Agency in accordance with Condition 1.8.
- 3.7 The use of plough dredging shall be limited to moving material from confined areas of the harbour into open areas accessible to the trailing suction hopper dredger.
- 3.8 Per individual load, loading activities at the port shall repeatedly alternate between the Approach Channel and the Inner Harbour.
- 3.9 The mixed material loaded from the Approach Channel and the Inner Harbour in accordance with Condition 3.8 shall be dumped at the southern end of the dumping site on north-flowing flood tides and at the northern end of the dumping site on south-flowing ebb tides.
- 3.10 Material from the Small Boat Harbour shall be dumped at the centre of the dumping site within 30 minutes either side of slack water.
- 3.11 The permit holder shall take all reasonably practicable measures during loading to limit the release of suspended solids into the water column.
- 3.12 The permit holder shall liaise with the Harbour Master at Rosslare Europort prior to the commencement of and during the loading and dumping activities.
- 3.13 Information relating to the activity shall be automatically recorded during each dumping voyage and shall as a minimum contain details of the following:
  - (i) The name of the vessel;
  - (ii) The source of the substance or material;
  - (iii) The date, time, location and position at which the voyage for the purposes of dumping began;
  - (iv) The date, time and position at which dumping began;
  - (v) The date, time and position at which dumping ended;
  - (vi) The quantity, stated in metric tonnes, of the substance or material dumped;

- (vii) The date, time and position at which the vessel completed the voyage for the purpose of dumping;
  - (viii) Logged vessel track record data.
- 3.14 Prior to the commencement of the permitted activity, the permit holder shall consult with the Marine Survey Office of the Department of Transport to ensure that all vessels used in connection with the loading and dumping activities specified in this permit meet the requirements of the Marine Survey Office. The permit holder shall ensure that the vessels used in connection with this permit are fully certified for the entire period of loading and dumping activities specified in this permit.
- 3.15 The permit holder shall permit authorised officers and nominated monitoring personnel to be on board the vessel. They shall permit and facilitate the carrying out by the authorised officer of his functions under the Dumping at Sea Acts 1996 to 2010, and shall comply with the provisions of those Acts in relation to the authorised officer and those functions.
- 3.16 Marine Mammals
- 3.16.1 Prior to commencement of each loading and dumping campaign, an appropriately qualified Marine Mammal Observer (MMO) shall undertake survey work to ensure that the Monitored Zone specified in Condition 1.5 is clear of marine mammals.
  - 3.16.2 Sound-producing activity shall not commence until at least thirty minutes have elapsed with no marine mammal detections in the Monitored Zone.
  - 3.16.3 Loading activity may continue if marine mammals enter the Monitored Zone following operational start-up.
  - 3.16.4 Marine mammals should not be harassed or chased from the Monitored Zone. The use of acoustic deterrent devices is not permitted.
  - 3.16.5 The MMO shall meet the monitoring and reporting requirements of the National Parks and Wildlife Service. Full reporting on MMO operations and mitigation undertaken should be made to offshore@ahg.gov.ie within 1 month of completion of each campaign.

**Reason:** *To provide for appropriate controls on loading and dumping at sea activities to ensure the protection of the marine environment.*

## Condition 4. Control and Monitoring

- 4.1 The permit holder shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and in accordance with *Schedule B: Monitoring*, of this permit.
- 4.1.1 Analyses and measurements shall be undertaken by competent staff in accordance with documented operating procedures.
  - 4.1.2 Analysis for compliance purposes, including any sub-contracted analysis, shall be done by a competent laboratory.
- 4.2 The permit holder shall ensure that:
- (i) sampling and analysis for all parameters listed in the Schedules to this permit; and
  - (ii) any reference measurements for the calibration of automated measurement systems;
- shall be carried out by an appropriate Standard Method.
- 4.3 The scope and detail of the monitoring programme shall be submitted to the Agency for agreement within three months of the date of grant of this permit.

- 4.4 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this permit, may be amended with the agreement of the Agency following evaluation of test results.

**Reason:** *To provide for the protection of the marine environment by way of monitoring of the impacts associated with the loading and dumping at sea activities.*

## Condition 5. Incident Prevention and Emergency Response

### 5.1 Incidents

In the event of an incident the permit holder shall immediately:

- (i) identify the date, time and place of the incident;
  - (ii) as soon as practicable notify the Agency, in a format prescribed, and other relevant authorities;
  - (iii) carry out an investigation to identify the nature, source and cause of the incident and any impact arising therefrom;
  - (iv) isolate the source of any such impact;
  - (v) evaluate the environmental pollution, if any, caused by the incident;
  - (vi) identify and execute measures to minimise the impact and the effects thereof;
- 5.2 The permit holder shall provide a report of the investigation into the incident to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency. The report shall include a proposal to:
- (i) identify and put in place measures to avoid recurrence of the incident; and
  - (ii) identify and put in place any other appropriate remedial actions.
- 5.3 The permit holder shall, in advance of the commencement of the activities, ensure that a documented Accident Prevention Procedure is in place that addresses hazards, particularly in relation to the prevention of accidents with a possible impact on the environment.
- 5.4 The permit holder shall, in advance of the commencement of the activities, ensure that a document Emergency Response Procedure is in place that addresses any emergency situation which may arise. This procedure shall include provision for minimising the effects of any emergency on the environment.

**Reason:** *To provide for the protection of the marine environment.*

## Condition 6. Notification, Records and Reports

- 6.1 The permit holder shall notify the Agency by both telephone and either email or webform, to the Agency's headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any incident (as defined in this permit). The permit holder shall include as part of the notification, the date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any impacts.
- 6.2 In the case of any incident relating to any impact on water, the permit holder shall notify the Marine Institute, Sea Fisheries Protection Authority, Inland Fisheries Ireland, Bord Iascaigh Mhara and any other relevant authorities as soon as practicable after such an incident.
- 6.3 In the case of any incident relating to archaeology, marine mammals or migratory fish, the permit holder shall notify the National Parks and Wildlife Service, Marine Institute, Sea Fisheries Protection Authority and Inland Fisheries Ireland and any other relevant authorities as soon as practicable after such an incident.

- 6.4 The permit holder shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to manage the incident, and the effect on the marine environment, and avoid recurrence. The permit holder shall, as soon as practicable following incident notification, submit to the Agency the incident record.
- 6.5 The permit holder shall record all complaints related to the loading and dumping activities. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and give details of the nature of the complaint. A record shall be kept of the response made and any corrective action undertaken in the case of each complaint. This record shall be made available to the Agency upon request.
- 6.6 The permit holder shall as a minimum keep the following documents:
- (i) the permit relating to the dumping site;
  - (ii) the previous years' AERs for the dumping site;
  - (iii) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this permit and any previous permits dating back at least three years;
  - (iv) all correspondence with the Agency;
  - (v) complaints register;
  - (vi) up to date drawings/plans showing the location of the loading areas and the dumping site authorised by this permit.
- This documentation shall be available to the Agency for inspection at all reasonable times and shall be submitted to the Agency, as required, in such a format as may be requested, including electronic submittal of the information or a summary of such information.
- 6.7 The permit holder shall submit electronically to the Agency, by the 31<sup>st</sup> March of each year, an AER covering the previous calendar year. This report shall include as a minimum the information specified in *Schedule C: Annual Environmental Report* of this permit and shall be prepared in accordance with any relevant guidelines issued by the Agency or as otherwise prescribed by the Agency.
- 6.8 A full record, which shall be open to inspection by authorised officer of the Agency at all times, shall be kept by the permit holder on matters relating to each load of the substance or material intended to be dumped, and put on board the vessel. This record shall be maintained continually and shall as a minimum contain those details specified in Condition 3.13 of this permit. This information shall be submitted as required by and as may be prescribed by the Agency as part of the annual environmental report and immediately on request by an authorised officer.
- 6.9 All reports shall be certified accurate and representative by the permit holder, manager or a nominated, suitably qualified and experienced deputy.
- 6.10 The permit holder shall notify the Agency in writing upon completion of each loading and dumping campaign to which this permit relates.

**Reason:** *To provide for the collection and reporting of adequate information on the loading and dumping at sea activity.*

## **Condition 7. Financial Charges and Provisions**

- 7.1 Agency Charges
- 7.1.1 The permit holder shall pay to the Agency a contribution or such sum, as the Agency from time to time determines having regard to variations in the extent of reporting, auditing, inspections, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the discharges as the Agency considers necessary for the performance of its functions under the Dumping at Sea Acts 1996 to 2010.

- 7.1.2 The cost of any other tests, sampling, analysis and monitoring which the Agency may require in relation to the loading and dumping of the substance or material the subject of this permit shall be borne by the permit holder. Furthermore, the cost of any tests, sampling, analysis and monitoring surveys carried out by an authorised officer or by or on behalf of the Agency in relation to the sampling of a substance or material the subject of this permit shall also be borne by the holder of the permit.
- 7.2 The Permit Holder shall indemnify the Agency and its authorised officers against all cost occurred by him as a result of a breach of any of the conditions of this permit.
- 7.3 Environmental Liabilities
- 7.3.1 The permit holder shall as part of the AER, provide an annual statement as to the measures taken or adopted at the loading areas and the dumping site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events or accidents/incidents, as may be associated with loading and dumping at sea.
- 7.3.2 The permit holder shall arrange for the completion, by an independent and appropriate qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA) to address the liabilities from loading and dumping at sea. A report on this assessment, to the satisfaction of the Agency, shall be submitted as part of the second AER (required under Condition 6.7). The ELRA shall be reviewed as necessary to reflect any significant change to the volume or character of the material/substance to be loaded and dumped at sea, and in any case every three years following initial agreement. The results of the review shall be notified as part of the AER.
- 7.3.3 As part of the measures identified in Condition 7.3.1, the permit holder shall, to the satisfaction of the Agency, make financial provision to cover any liabilities identified in Condition 7.3.2. The amount of indemnity held shall be reviewed and revised as necessary, but at least triennially. Proof of renewal or revision of such financial indemnity shall be included in the annual ‘Statement of Measures’ report identified in Condition 7.3.1.
- 7.3.4 The permit holder shall have regard to the most recent Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Decommissioning Management Plans and Financial Provision when implementing Conditions 7.3.2 and 7.3.3 above.

**Reason:** *To provide for adequate financing for monitoring and financial provisions for measures to protect the marine environment.*

**SCHEDULE A: Limitations****A.1 Dumping at sea of a material/substance**

	Maximum quantity per campaign (tonnes)	Total maximum quantity (tonnes)
Dredged material	210,000	1,050,000

**A.2 Location of Loading Areas****Approach Channel and Inner Harbour**

	Latitude	Longitude
(i)	52°15.23' N	06°20.45' W
(ii)	52°15.40' N	06°20.65' W
(iii)	52°15.67' N	06°19.85' W
(iv)	52°15.58' N	06°19.78' W
(v)	52°15.44' N	06°20.24' W
(vi)	52°15.27' N	06°20.04' W
(vii)	52°15.15' N	06°20.29' W

**Small Boat Harbour**

	Latitude	Longitude
(i)	52°15.12' N	06°20.84' W
(ii)	52°15.12' N	06°21.06' W
(iii)	52°15.16' N	06°20.88' W
(iv)	52°15.14' N	06°21.03' W

**A.3 Location of Dumping Site**

	Latitude	Longitude
(i)	53°16.88' N	06°15.38' W
(ii)	53°16.88' N	06°15.10' W
(iii)	53°17.06' N	06°15.21' W
(iv)	53°17.06' N	06°15.10' W
(v)	53°17.21' N	06°15.26' W
(vi)	53°17.21' N	06°15.38' W



## SCHEDULE B: Monitoring

### B.1 Monitoring at Loading Areas <sup>Note 1</sup>

Parameters	Date	Monitoring Points Ref. No. and position	Analysis Method/ Technique
<ul style="list-style-type: none"> <li>• Granulometry <sup>Note 2</sup></li> <li>• Organic carbon</li> <li>• Zinc</li> <li>• Nickel</li> <li>• Copper</li> <li>• Lead</li> <li>• Arsenic</li> <li>• Cadmium</li> <li>• Lithium</li> <li>• Aluminium</li> <li>• Chromium</li> <li>• Mercury</li> <li>• Dibutyl tin</li> <li>• Tributyl tin</li> <li>• Polychlorinated biphenyls <sup>Note 3</sup></li> <li>• Polyaromatic hydrocarbons <sup>Note 4</sup></li> </ul>	2013 2016 2019	<ul style="list-style-type: none"> <li>• S01A: 52°15.17' N, 06°20.25' W</li> <li>• S02A: 52°15.28' N, 06°20.39' W</li> <li>• S05A: 52°15.23' N, 06°20.15' W</li> <li>• S06A: 52°15.26' N, 06°20.09' W</li> <li>• S07A: 52°15.30' N, 06°20.19' W</li> <li>• S08A: 52°15.37' N, 06°20.20' W</li> <li>• S09A: 52°15.38' N, 06°20.36' W</li> <li>• S12A: 52°15.57' N, 06°19.89' W</li> <li>• ROS3: 52°15.13' N, 06°20.88' W</li> <li>• ROS4: 52°15.15' N, 06°20.84' W</li> </ul>	Standard method <sup>Note 5</sup>

**Note 1:** The frequency, methods and scope of monitoring, sampling and analyses may be amended in accordance with Condition 4.4.

**Note 2:** Monitoring of granulometry shall include but not be limited to the following fractions: >2 mm, <2 mm, >63 µm and <63 µm.

**Note 3:** ICES 7 polychlorinated biphenyls (measured as individual congeners): PCB 28, 52, 101, 118, 138, 153, 180.

**Note 4:** Polyaromatic hydrocarbons (measured as individual compounds): Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenzo(ah)anthracene, Benzo(ghi)perylene, Indeno(123-cd)pyrene.

**Note 5:** Sampling and analyses shall be conducted in accordance with the analytical and quality requirements set out in: *M. Cronin et al. 2006. Guidelines for the Assessment of Dredge Material for Disposal in Irish Waters. Marine Environment & Health Series, No. 24. Marine Institute.*



**B.2 Monitoring at Dumping Site** *Note 1*

Parameters	Timing	Monitoring Locations	Analysis Method/Technique
Bathymetry	<ul style="list-style-type: none"> <li>• Prior to the commencement of the first campaign</li> <li>• Within 10 days of completion of each campaign</li> <li>• 6 months after completion of each campaign</li> </ul>	Survey to cover the extent over which dumping occurred plus 50 m on all sides. An additional 50 m shall be surveyed on the side in the direction of the residual flow <i>Note 3</i>	Bathymetric survey: <ul style="list-style-type: none"> <li>- Survey lines to run perpendicular to direction of the residual flow</li> <li>- Vertical resolution <math>\geq 20</math> cm</li> <li>- Horizontal control by DGPS</li> <li>- Line interval at 25 m</li> <li>- Survey information shall be submitted in hardcopy and AutoCAD format as: (i) soundings chart plotted to chart datum, (ii) contoured chart at 200 mm intervals plotted to chart datum, (iii) xyz digital file</li> </ul>
Granulometry <i>Note 2</i>	<ul style="list-style-type: none"> <li>• Prior to the commencement of the first campaign</li> <li>• 1 month after completion of each campaign</li> <li>• 6 months after completion of each campaign</li> </ul>	Representative samples to be taken at the middle, northern end and southern end of the dumping site, and from the eastern reaches of the Long Bank SAC adjacent to the dumping site <i>Note 3</i>	Standard method <i>Note 4</i>

**Note 1:** The frequency, methods and scope of monitoring, sampling and analyses may be amended in accordance with Condition 4.4.

**Note 2:** Monitoring of granulometry shall include but not be limited to the following fractions:  $>2$  mm,  $<2$  mm,  $>63$   $\mu\text{m}$  and  $<63$   $\mu\text{m}$ .

**Note 3:** Proposed monitoring locations to be submitted to the Agency for agreement within 3 months of the date of grant of this permit in accordance with Condition 4.3.

**Note 4:** Sampling and analyses shall be conducted in accordance with the analytical and quality requirements set out in: *M. Cronin et al. 2006. Guidelines for the Assessment of Dredge Material for Disposal in Irish Waters. Marine Environment & Health Series, No. 24. Marine Institute.*





## SCHEDULE C: Annual Environmental Report

<b>Annual Environmental Report Content</b> <sup>Note 1</sup>
Register/log of loading and dumping activities. OSPAR dumping report. Marine positional log. Reported incidents summary. Complaints summary. Monitoring summary. Accident Prevention Procedure. Emergency Response Procedure. Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities). Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions). Any other items specified by the Agency.

**Note 1:** Content may be revised subject to the agreement of the Agency.

**Sealed by the seal of the Agency on this the 30<sup>th</sup> day of March 2012.**

**PRESENT when the seal of the Agency  
Was affixed hereto:**

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**Mary Turner, Authorised Person**

### **LICENCE UNDER SECTION 3(3) OF THE FORESHORE ACT 1933**

The Minister for the Environment, Heritage and Local Government in exercise of the powers conferred on him by Section 3(3) of the Foreshore Act 1933, as amended, hereby authorises Irish Rail to carry out maintenance dredging works at Rosslare Europort and to use this sand for beneficial re-use in a near-shore area off Rosslare Strand.

#### **The licence is granted on condition that:**

1. The Licensee shall indemnify and keep indemnified the State and the Minister for the Environment, Heritage and Local Government (hereinafter referred to as the Minister), their officers, agents and employees against all actions, claims, damages, costs, expenses and demands arising in any manner whatsoever in connection with the said works or in the exercise of the permission hereby granted.
2. The Licensee shall pay to the Minister the sum of €127 on the execution hereof in recognition of the rights and interests of the State in the foreshore concerned.
3. The Licensee shall use that part of the foreshore, the subject matter of this licence, for the purpose of undertaking maintenance dredging works at Rosslare Europort and for no other purpose whatsoever.
4. The Licensee shall ensure that the minimum area of access routes to the works site is utilised to reduce the temporary impact from the proposed works.
5. The Minister shall be at liberty at any time to terminate this Licence by giving to the Licensee notice in writing and upon determination of such notice the Licence and permission hereby granted shall be deemed to be revoked and withdrawn without any liability for the payment of compensation by the Minister to the Licensee.
6. The Licensee shall if so required by the Minister after receipt of such notice, or on the termination of the Licence from any other cause, at its own expense remove any or all equipment in connection with the said works to the satisfaction of the Minister and if the Licensee refuses or fails to do so the Minister may cause the said equipment to be removed and shall be entitled to be paid by and to recover from the Licensee as a civil debt due to the State all costs and expenses incurred by him in connection with such removal.
7. In the event of the breach, non-performance or non-observance by the Licensee of any of the conditions herein contained the Minister may forthwith terminate this Licence without prior notice to the Licensee.
8. Any notice to be given by the Minister may be transmitted through the Post Office addressed to the Licensee at its last known address.

**And on specific condition that:**

9. There is hereby authorised by this licence during the period 1<sup>st</sup> November 2010 to 30<sup>th</sup> June 2011:

(a) The removal of not more than 160,000m<sup>3</sup> of sand during maintenance dredging from the outside (east) of the main breakwater at Rosslare Europort at the following co-ordinates:

- (i) Latitude 52°15.41' N      Longitude 6°20.22' W
- (ii) Latitude 52°15.44' N      Longitude 6°20.18' W
- (iii) Latitude 52°15.39' N      Longitude 6°20.04' W
- (iv) Latitude 52°15.35' N      Longitude 6°20.08' W

(b) The placement of the sand from the location specified at (a) above in that part of the sea bounded by:

- (i) Latitude 52°16.19' N      Longitude 6°22.48' W
- (ii) Latitude 52°16.27' N      Longitude 6°22.04' W
- (iii) Latitude 52°16.09' N      Longitude 6°21.92' W
- (iv) Latitude 52°16.00' N      Longitude 6°22.38' W

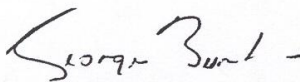
10. None of the works authorised by this licence shall take place outside the dates specified at Condition 9.

11. In order for charts and nautical publications to be updated the applicant shall inform the British Admiralty Hydrographic Office at Taunton, UK of the location and nature of the proposed works (Fax: 0044 1823 284077; e-mail: [hdc@hdc.hydro.gov.uk](mailto:hdc@hdc.hydro.gov.uk)).

12. The applicant shall arrange the publication of a local marine notice giving a general description of operations and approximate dates of commencement and completion. An advertisement in a locally read newspaper will suffice.

13. Any vessel engaged in the works shall comply with all certification requirements and an Irish Load line shall be required for any vessel operating outside Harbour limits.

14. Dumping shall not be carried out in an area where the dumped material is liable to be dispersed into an SAC area.



George Burke  
Principal

An officer authorised in this behalf by the said Minister  
Dated this 21<sup>st</sup> day of October 2010