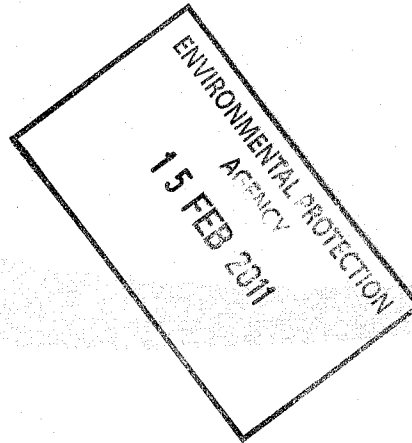




Radiological Protection Institute of Ireland
An Institiúid Éireannach um Chosaint Raideolaíoch



Ms Noeleen Roche
Environmental Licensing Programme
Environmental Protection Agency
PO Box 3000
Johnstown Castle Estate
Co. Wexford

11 February 2011

Reg. No. S0006-01

Dear Ms Roche,

Further to my telephone conversation with Tara Higgins on the 11th of February, I would like to inform you that radiological analysis was carried out in this area in 2008. The samples analysed are sufficient to cover the area of the intended dredging operation. Furthermore, the measurements made were found to be *de minimis*, indicating that the dumping of these materials at sea will not result in a radiological hazard. I have enclosed a copy of the test report for the samples analysed in 2008 for your information.

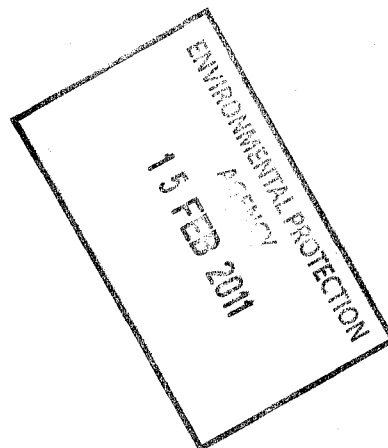
I would be grateful if you could keep us informed of any further works into the future as we may request samples should the radiological conditions in the Irish Sea change significantly.

If you require any further information please do not hesitate to contact us.

Yours sincerely,

Jennie Wong
Radiation Monitoring

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Laboratory Test Report

Report Date: 11th July 2008
Samples Tested on Behalf of: Mr M Clooney
 Port of Waterford Company.
 3rd Floor Marine Point
 Belview
 Slieverue
 Waterford

Laboratory Analysis: High Resolution Gamma Spectrometry with appropriate density correction

Sample Type: Marine Sediment ex Waterford Harbour

Date of Receipt: 5th June 2008

Date of Analysis: 5th June- 11th July 2008

Results:

RPII Reference	Client Reference	Coordinates	Nuclide	Activity Concentration (Bq/kg, dry) ¹
CT0800405	12	260 717 Easting 112 838 Northing	K-40	517 ± 53
			I-131	Less than 1
			Cs-134	Less than 1
			Cs-137	13.7 ± 0.5
			Ra-226	Less than 92
			U-235	4 ± 1
			U-238	52 ± 5
CT0800406	2	265 993 Easting 112 664 Northing	K-40	554 ± 39
			I-131	Less than 2
			Cs-134	Less than 2
			Cs-137	5.8 ± 0.3
			Ra-226	Less than 97
			U-235	5 ± 1
			U-238	38 ± 4

CT0800407	5	267 954 Easting 114 128 Northing	K-40	433 ± 44
			I-131	Less than 1
			Cs-134	Less than 1
			Cs-137	4.1 ± 2.0
			Ra-226	Less than 75
			U-235	4 ± 1
			U-238	64 ± 4
CT0800408	9	272 575 Easting 105 393 Northing	K-40	453 ± 55
			I-131	Less than 1
			Cs-134	Less than 1
			Cs-137	6.2 ± 0.3
			Ra-226	Less than 175
			U-235	9 ± 1
			U-238	161 ± 9

Note:

(1) Quoted uncertainties are ±1 SD counting statistics

The Radiological Protection Institute of Ireland received four samples from Hydrographic Surveys Ltd on 5th June. These samples were taken in Waterford harbour area in support of application for a Maintenance Dredging Permit 2008-2010. The samples were prepared by placing an aliquot of sample in a well-defined counting geometry. These were then measured on a high-resolution gamma spectrometer. Appropriate density corrections were applied to the resultant spectra to take account of the differences in sample density. Dry to wet weight ratio was determined for the sample. Results are quoted on a dry weight basis.

L Curran
Lorraine Curran
Laboratory Manager

Notes:

- This report relates only to the samples tested.
- This report shall not be reproduced except in full, without the approval of the Institute
- The following scientific officers may sign test reports on behalf of the laboratory manager: Mr David Pollard, Ms Mary Fegan, Mr Kevin Kelleher, Ms Alison Dowdall
- Where applicable, the number following the symbol ± is the combined standard uncertainty and not a confidence interval.