

CEMP Appendix R2: Environmental concentrations of radionuclides associated with the offshore oil and gas non-nuclear sector (Revised 2017)

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Title: Environmental concentrations of radionuclides associated with the offshore oil and gas non-nuclear sector			
Monitoring Purpose	<i>State/impact</i>	Applicable MSFD GES Criteria	Not applicable (NA); not included in Commission Decision 2010/477/EU
Monitoring Guidelines / Monitoring Method in place	<p>OSPAR AGREEMENT ON A MONITORING PROGRAMME FOR CONCENTRATIONS OF RADIOACTIVE SUBSTANCES IN THE MARINE ENVIRONMENT (2005-08, 2011 Revision)</p> <p>http://www.ospar.org/documents?d=32324</p> <p>Cf. Agreement 2005-08: Data should only be reported to OSPAR for:</p> <ul style="list-style-type: none"> Po-210, Pb-210, Ra-226, Ra-228 for surface seawater (0.5 -4 m); Po-210, Pb-210, Ra-226, Ra-228 for biota (fish, molluscs and seaweed) <p>Sampling and analysis carried out as per national monitoring programmes and requirements.</p>	Assessment Guidelines	<p>measured environmental concentrations of radionuclides associated with the offshore oil and gas non-nuclear sector against a baseline. Data are collected to provide information on natural concentrations of these radionuclides in the environment.</p> <p>[refer to the work of ICG-MOD in 2018]</p>
Quality Assurance Procedures in place	National QA procedures for analysis are documented in OSPAR RSC Quality assurance for the monitoring of concentrations of radioactive substances in the marine environment (RSC 13/8/4-Rev.1)	Assessment tools available	<p>Dose to biota.</p> <p>Methodology for Deriving Environmental Assessment Criteria and their application</p>
Quality Control	<p>Other QC - National QC through national and international validation exercises.</p> <p>National QC in reporting of data through use of defined reporting format and QC before submission to RSC database by RSC task manager</p>	Data Custodian	OSPAR

Element Monitored	<i>Po-210, Pb-210, Ra-226, Ra-228</i>		Data Depository	ODIMS OSPAR radionuclide concentrations database	
Parameter Measured	Po-210, Pb-210, Ra-226, Ra-228 in seawater Po-210, Pb-210, Ra-226, Ra-228 in seaweed, molluscs and fish		Indicator Metric	Bq/l for seawater Bq/kg (f.w.) for biota	
Temporal scope	Start date: 1995 End date: 9999 (9999 if ongoing) Monitoring frequency: Other - Monitoring frequencies and data reported can vary between years and for individual radionuclides per subregion and environmental compartments (i.e. seawater and biota) according to national monitoring programmes and requirements		Data submission Frequency/ deadline and link to reporting format	30 November Annually Reporting Format [Link to reporting format will be added following OSPAR data strategy]	
Spatial Scope	<i>Variable</i>	<i>(explanation of spatial scope) Data reported from national monitoring programmes includes coastal monitoring stations and open sea locations (e.g. from monitoring/research cruises)</i>			
Nature of Data	<i>Unprocessed data</i>		Aggregation of Data	<i>By RSC subregion</i>	
OSPAR Region	Arctic Waters	Greater North Sea	Celtic Seas	Bay of Biscay & Iberian Coast	Wider Atlantic
RSC Subregion²⁶	13, 14, 15	2, 3, 7, 8, 9, 10, 11, 12	1, 4, 5, 6, 7	1	1
Contracting Parties monitoring	NO	BE, DK, NL, NO, UK	IE, UK		
Contracting parties supplying data	NO	BE, DK, NL, NO, UK	IE, UK		
Spatial Resolution (proportion)	<i>100% for RSC subregions where data is reported</i>	<i>100% for RSC subregions where data is reported</i>	<i>100% for RSC subregions where data is reported</i>		
Spatial Resolution (Density)	Variable but for 2010 SW 0, BIO 0	Variable but for 2010 SW 86, BIO 81	Variable but for 2010 SW 0, BIO 4		
Contracting Parties with an “opt out”	NA	NA	NA	NA	NA

²⁶ Note from the Secretariat: for the purpose of monitoring concentrations of radioactive substances in the marine environment, the OSPAR maritime area is divided in fifteen subdivisions as shown in Annex 1