

MONA OFFSHORE WIND PROJECT

Annex 3.7 to the Applicant's response to Relevant Representation at the Procedural Deadline

NRW Sediment sample analysis proforma in response to NRW RR-11.170

Sediment sample results 2021(B)

Deadline: Procedural Deadline

Application Reference: EN01037

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F01



Image of an offshore wind farm

MONA OFFSHORE WIND PROJECT

Document status

Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
F01	Examination – Procedural Deadline	RPS	Mona Offshore Wind Ltd	Mona Offshore Wind Ltd	June 2024

Prepared by:

RPS

Prepared for:

Mona Offshore Wind Ltd.

Physical characteristics data

Instructions:

1. Record the laboratory/contractor responsible for analysis
2. Record the date the samples were analysed.
3. Enter full dataset for each sample in the analysis results table
4. Where copying and pasting entries please use paste values only
5. Where entering multiple Sample IDs please use the pop-up form
IDs should be separated by a comma

Analysis information:

Laboratory/contractor: Kenneth Pye Associates Ltd. and Ocean Ecology
Date of analysis: <input style="width: 80%;" type="text"/>

Physical characteristics analysis outputs:

Laboratory sample number	Dredge Area	Sample ID(s)	Visual appearance*	Exempt from chemical analysis ^o
ENV64		ENV64	Sandy gravel/gravelly sand with shell fragments	y
ENV65		ENV65	Gravelly sand with shell fragments. Occasional boulders and cobbles	
ENV66		ENV66	Gravelly sand with shell fragments. Areas of plain sand. Occasional boulders	y
ENV67		ENV67	Sand with shell fragments	y
ENV68		ENV68	Gravelly sand	y
ENV69		ENV69	Sandy slope. Areas of shell fragments and gravel at bottom of	y
ENV70		ENV70	Gravelly sand with shell fragments. Occasional sand waves/ripples and	y
ENV71		ENV71	Gravelly sand with shell fragments. Occasional cobbles	
ENV82		ENV82	Gravelly sand. Occasional boulders. Areas of shell fragments	y
ENV83		ENV83	Gravelly sand with shell fragments	y
ENV84		ENV84	Coarse sand with gravel and shell fragments	y
ENV86		ENV86	Gravelly sand with shell fragments. Occasional boulders and cobbles. Large boulders at east	y
ENV88		ENV88	Gravelly sand with shell fragments. Occasional boulders. Areas of boulders and	y
ENV89		ENV89	Gravelly sand with shell fragments. Occasional faunal burrows	y
ENV90		ENV90	Gravelly sand with shell fragments. Some areas of rippled sand	y
ENV95		ENV95	Gravelly sand with shell fragments. Occasional cobbles and	y
ENV96		ENV96	Coarse sand with shell fragments and faunal burrows.	y
ENV97		ENV97	Gravelly sand with shell fragments. Occasional cobbles and boulders	y

* **Visual appearance:** Include a description of what the material looks like and what it contains, e.g. sandy material containing brick fragments, or black silt, or foreign man made matter caught in the sample.

^o **Exempt from chemical analysis:** enter 'y' where sediment samples contain glacial material or are too coarse and thus exempt from chemical analysis.



vals)

5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0
22.1µm	15.6µm	11µm	7.8µm	5.5µm	3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
0.70	0.80	1.10	1.20	1.20	1.00	0.70	0.50	0.30	0.20	0.90	
0.60	0.80	1.10	1.30	1.20	1.00	0.70	0.50	0.30	0.20	0.90	
0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.50	0.60	0.80	0.90	0.80	0.70	0.50	0.30	0.20	0.20	0.60	
1.00	1.20	1.50	1.60	1.50	1.20	0.80	0.50	0.40	0.30	1.10	
0.20	0.30	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.30	
0.50	0.60	0.90	1.00	0.90	0.80	0.60	0.40	0.30	0.20	0.80	
0.90	1.10	1.40	1.50	1.40	1.20	0.80	0.50	0.30	0.20	1.00	
0.20	0.20	0.40	0.40	0.40	0.40	0.20	0.20	0.10	0.10	0.30	
1.00	1.30	1.70	1.90	1.80	1.50	1.00	0.70	0.40	0.30	1.30	
0.70	0.80	1.20	1.40	1.30	1.10	0.90	0.60	0.40	0.30	1.10	
0.60	0.80	1.10	1.30	1.30	1.10	0.80	0.50	0.30	0.30	1.10	
0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.20	
0.70	0.90	1.30	1.50	1.40	1.20	0.80	0.50	0.30	0.30	1.10	
1.00	1.10	1.40	1.60	1.60	1.40	1.10	0.80	0.60	0.50	1.90	
0.40	0.50	0.70	0.70	0.70	0.60	0.40	0.20	0.20	0.20	0.60	
0.60	0.80	1.10	1.20	1.30	1.10	0.80	0.60	0.40	0.30	1.10	



Trace metal data

Instructions:

- Record the laboratory/contractor responsible for trace metal analysis
- Record the date the samples were analysed.
- Enter full dataset for each sample in the analysis results table
- Trace metal analysis results should be reported in mg/kg (ppm) dry weight
- Enter methodological limit of detection for each trace metal prior to inputting raw data
- Where analysis outputs are less than the limits of detection please enter text "<LOD"
- Where copying and pasting entries please use paste values only
- Where entering multiple Sample IDs please use the pop-up form
IDs should be separated by a comma

Analysis information:

Laboratory/contractor: Kenneth Pye Associates Ltd. and Ocean Ecology
Date of analysis:

Determinand analysis outputs:

Laboratory sample number	Dredge Area	Sample ID(s)	Metals as mg/kg dry weight							
			Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
ENV65		ENV65	20.2	0.08	11.4	5.6	0.05	10.3	10.6	31.4
ENV71		ENV71	9	0.04	10.1	5.4	0.05	8.8	8.4	21.9
Limits of detection (mg/kg dry weight):			1	0.04	0.5	2	0.01	0.5	2	3

PAHs as dry weight (µg/kg dry weight)

C1-Phenanthrenes	C2-Napthalenes	C3-Napthalenes	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[123-c,d]pyrene
5.87	5.46	4.87	2.82	<LOD	3.7	<LOD	4.85
5.1	4.38	3.57	2.8	<LOD	3.41	<LOD	4.14
1	1	1	1	1	1	1	1

Polychlorinated biphenyl data

Instructions:

1. Record the laboratory/contractor responsible for PCB analysis
2. Record the date the samples were analysed.
3. Enter full dataset for each sample in the analysis results table
4. Analysis results should be reported in mg/kg (ppm) dry weight.
5. Enter methodological limit of detection for each PCB prior to inputting raw data
6. Where analysis outputs are less than the limits of detection please enter text "<LOD"
7. ICES 7 PCBs are highlighted in bold
8. Where copying and pasting entries please use paste values only
9. Where entering multiple Sample IDs please use the pop-up form
IDs should be separated by a comma

Analysis information:

Laboratory/contractor: Kenneth Pye Associates Ltd. and Ocean Ecology
Date of analysis:

Determinand analysis outputs:

Laboratory sample number	Dredge Area	Sample ID(s)	2,2',4,5,5'- Pentachlorobiphenyl CB101	2,3,3',4,4'- Pentachlorobiphenyl CB105
ENV65		ENV65	<LOD	<LOD
ENV71		ENV71	<LOD	<LOD
Limits of detection (mg/kg dry weight):			0.00008	0.00008

