



NMBAQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

Own Sample Module Summary Report

Benthic Invertebrate Component - 2025/26

OS89, 90 and 91

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MODULE / EXERCISE DETAILS

Module:	Own Sample (OS)
Exercises:	OS89, 90 and 91
Data/Sample Request Circulated:	31 October 2025
Sample Submission Deadline (Batch 2):	01 May 2026
Number of Subscribing Laboratories:	26
Number of Own Samples Received:	69 (excludes 3 samples supplied without residues)

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Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	Estimation of Taxa							Taxonomic errors			Taxonomic resolution edits	No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	%	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_3202 OS89	27	27	24.3 - 29.7	PASS	0	0.00	-	1	3.70	-	22.22%	297	302	271.8 - 332.2	PASS	5	1.66	-	-	-	-	-	98.839	90	PASS	PASS - GOOD
BI_3202 OS90	14	14	12.6 - 15.4	PASS	1	7.14	-	1	7.14	-	21.43%	20	20	18 - 22	PASS	1	5.00	-	-	-	-	-	95.455	90	PASS	PASS - GOOD
BI_3202 OS91	24	25	22.5 - 27.5	PASS	1	4.00	-	2	8.00	-	8.51%	181	177	159.3 - 194.7	PASS	3	1.69	-	-	-	-	-	96.438	90	PASS	PASS - GOOD
BI_3204 OS89	29	29	26.1 - 31.9	PASS	0	0.00	-	0	0.00	-	34.48%	1016	1021	918.9 - 1123.1	PASS	5	0.49	-	121.587058	123.4196	98.735688 - 148.103532	PASS	99.755	90	PASS	PASS - GOOD
BI_3204 OS90	26	34	30.6 - 37.4	FAIL	6	17.65	-	0	0.00	-	19.23%	372	398	358.2 - 437.8	PASS	8	2.01	-	319.768098	321.8654	257.49232 - 386.23848	PASS	96.268	90	PASS	PASS - GOOD
BI_3204 OS91	3	3	2.7 - 3.3	PASS	0	0.00	-	0	0.00	-	33.33%	5	5	4.5 - 5.5	PASS	0	0.00	-	0.15833	0.111	0.0888 - 0.1332	FAIL	100	90	PASS	PASS - EXCELLENT
BI_3209 OS89	25	26	23.4 - 28.6	PASS	0	0.00	-	0	0.00	-	12.00%	69	72	64.8 - 79.2	PASS	2	2.78	-	-	-	-	-	97.987	90	PASS	PASS - GOOD
BI_3209 OS90	25	24	21.6 - 26.4	PASS	0	0.00	-	0	0.00	-	4.00%	50	50	45 - 55	PASS	0	0.00	-	-	-	-	-	99.083	90	PASS	PASS - GOOD
BI_3209 OS91	17	18	16.2 - 19.8	PASS	0	0.00	-	0	0.00	-	5.88%	42	42	37.8 - 46.2	PASS	0	0.00	-	-	-	-	-	98.901	90	PASS	PASS - GOOD
BI_3211 OS89	15	16	14.4 - 17.6	PASS	1	6.25	-	0	0.00	-	6.67%	40	40	36 - 44	PASS	0	0.00	-	-	-	-	-	98.765	90	PASS	PASS - GOOD
BI_3211 OS90	32	33	29.7 - 36.3	PASS	1	3.03	-	0	0.00	-	12.50%	77	78	70.2 - 85.8	PASS	1	1.28	-	-	-	-	-	99.355	90	PASS	PASS - GOOD
BI_3211 OS91	29	29	26.1 - 31.9	PASS	0	0.00	-	0	0.00	-	20.69%	65	63	56.7 - 69.3	PASS	0	0.00	-	-	-	-	-	98.438	90	PASS	PASS - GOOD
BI_3214 OS89	16	19	17.1 - 20.9	FAIL	4	21.05	Reprocess	1	5.26	Review	12.50%	97	116	104.4 - 127.6	FAIL	22	18.97	Reprocess	-	-	-	-	89.72	90	FAIL	FAIL - POOR
BI_3214 OS90	11	12	10.8 - 13.2	PASS	1	8.33	Review	0	0.00	-	18.18%	59	89	80.1 - 97.9	FAIL	30	33.71	Reprocess	-	-	-	-	80	90	FAIL	FAIL - BAD
BI_3214 OS91	6	8	7.2 - 8.8	FAIL	1	12.50	Review	1	12.50	-	0.00%	62	68	61.2 - 74.8	PASS	9	13.24	-	-	-	-	-	95.385	90	PASS	PASS - GOOD
BI_3215 OS89	65	69	62.1 - 75.9	PASS	4	5.80	-	1	1.45	-	7.69%	249	265	238.5 - 291.5	PASS	16	6.04	-	-	-	-	-	95.849	90	PASS	PASS - GOOD
BI_3215 OS90	39	40	36 - 44	PASS	0	0.00	-	1	2.50	-	12.82%	64	64	57.6 - 70.4	PASS	0	0.00	-	-	-	-	-	95.484	90	PASS	PASS - GOOD
BI_3215 OS91	18	18	16.2 - 19.8	PASS	0	0.00	-	1	5.56	-	11.11%	50	50	45 - 55	PASS	0	0.00	-	-	-	-	-	98.148	90	PASS	PASS - GOOD
BI_3216 OS89	24	24	21.6 - 26.4	PASS	0	0.00	-	2	8.33	-	4.17%	28	28	25.2 - 30.8	PASS	0	0.00	-	-	-	-	-	94.737	90	PASS	PASS - ACCEPTABLE
BI_3216 OS90	16	16	14.4 - 17.6	PASS	0	0.00	-	0	0.00	-	12.50%	285	285	256.5 - 313.5	PASS	0	0.00	-	54.9489	57.967	46.3736 - 69.5604	PASS	100	90	PASS	PASS - EXCELLENT
BI_3216 OS91	10	11	9.9 - 12.1	PASS	1	9.09	-	1	9.09	-	0.00%	492	495	445.5 - 544.5	PASS	3	0.61	-	0.2769	0.2382	0.19056 - 0.28584	PASS	99.494	90	PASS	PASS - GOOD
BI_3217 OS89	20	21	18.9 - 23.1	PASS	1	4.76	-	4	19.05	-	15.00%	60	61	54.9 - 67.1	PASS	1	1.64	-	-	-	-	-	94.488	90	PASS	PASS - ACCEPTABLE
BI_3217 OS90	19	19	17.1 - 20.9	PASS	1	5.26	-	2	10.53	-	20.00%	82	82	73.8 - 90.2	PASS	1	1.22	-	-	-	-	-	96.429	90	PASS	PASS - GOOD
BI_3217 OS91	41	43	38.7 - 47.3	PASS	3	6.98	Review	2	4.65	-	24.39%	131	137	123.3 - 150.7	PASS	7	5.11	Review	-	-	-	-	86.347	90	FAIL	FAIL - POOR
BI_3218 OS89	31	32	28.8 - 35.2	PASS	0	0.00	-	2	6.25	-	2.33%	42	41	36.9 - 45.1	PASS	0	0.00	-	17.1611	11.2644	9.01152 - 13.51728	FAIL	94.12	90	PASS	PASS - ACCEPTABLE
BI_3218 OS90	133	136	122.4 - 149.6	PASS	3	2.21	-	1	0.74	-	2.66%	1332	1352	1216.8 - 1487.2	PASS	39	2.88	-	17.0622	14.397	11.5176 - 17.2764	PASS	97.58	90	PASS	PASS - GOOD
BI_3218 OS91	126	137	123.3 - 150.7	PASS	3	2.19	-	0	0.00	-	1.66%	1069	1067	960.3 - 1173.7	PASS	9	0.84	-	1.2015	0.9299	0.74392 - 1.11588	FAIL	98.31	90	PASS	PASS - GOOD
BI_3228 OS89	30	30	27 - 33	PASS	0	0.00	-	0	0.00	-	3.33%	169	171	153.9 - 188.1	PASS	2	1.17	-	-	-	-	-	99.412	90	PASS	PASS - GOOD
BI_3228 OS90	21	23	20.7 - 25.3	PASS	2	8.70	-	0	0.00	-	0.00%	71	72	64.8 - 79.2	PASS	1	1.39	-	-	-	-	-	98.611	90	PASS	PASS - GOOD
BI_3228 OS91	20	20	18 - 22	PASS	0	0.00	-	0	0.00	-	5.00%	125	125	112.5 - 137.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_3229 OS89	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	0.00%	120	120	108 - 132	PASS	1	0.83	-	13.8729	11.5288	9.22304 - 13.83456	FAIL	99.167	90	PASS	PASS - GOOD
BI_3229 OS90	12	13	11.7 - 14.3	PASS	1	7.69	-	0	0.00	-	8.33%	37	43	38.7 - 47.3	FAIL	6	13.95	-	8.5029	7.3053	5.84424 - 8.76636	PASS	92.5	90	PASS	PASS - ACCEPTABLE
BI_3229 OS91	19	19	17.1 - 20.9	PASS	0	0.00	-	0	0.00	-	15.79%	296	295	265.5 - 324.5	PASS	0	0.00	-	21.3462	19.4812	15.58496 - 23.37744	PASS	99.831	90	PASS	PASS - GOOD
BI_3231 OS89	15	15	13.5 - 16.5	PASS	0	0.00	-	1	6.67	-	20.00%	99	99	89.1 - 108.9	PASS	1	1.01	-	-	-	-	-	97.98	90	PASS	PASS - GOOD
BI_3231 OS90	4	4	3.6 - 4.4	PASS	0	0.00	-	0	0.00	-	0.00%	186	193	173.7 - 212.3	PASS	7	3.63	-	-	-	-	-	98.153	90	PASS	PASS - GOOD
BI_3231 OS91	29	30	27 - 33	PASS	0	0.00	-	2	6.67	Review	6.90%	206	209	188.1 - 229.9	PASS	5	2.39	-	-	-	-	-	89.737	90	FAIL	FAIL - POOR
BI_3232 OS89	36	37	33.3 - 40.7	PASS	1	2.70	-	0	0.00	-	13.89%	348	368	331.2 - 404.8	PASS	20	5.43	-	-	-	-	-	97.26	90	PASS	PASS - GOOD
BI_3232 OS90	18	19	17.1 - 20.9	PASS	1	5.26	-	0	0.00	-	11.11%	24	24	21.6 - 26.4	PASS	1	4.17	-	-	-	-	-	96.774	90	PASS	PASS - GOOD
BI_3232 OS91	84	87	78.3 - 95.7	PASS	2	2.30	-	1	1.15	-	25.00%	1772	1830	1647 - 2013	PASS	51	2.79	-	-	-	-	-	98.263	90	PASS	PASS - GOOD
BI_3233 OS89	44	47	42.3 - 51.7	PASS	3	6.38	-	1	2.13	-	6.82%	324	340	306 - 374	PASS	12	3.53	-	-	-	-	-	97.459	90	PASS	PASS - GOOD
BI_3233 OS90	31	32	28.8 - 35.2	PASS	1	3.13	-	3	9.38	-	3.23%	248	249	224.1 - 273.9	PASS	2	0.80	-	-	-	-	-	98.597	90	PASS	PASS - GOOD
BI_3233 OS91	17	18	16.2 - 19.8	PASS	1	5.56	-	0	0.00	-	5.88%	357	358	322.2 - 393.8	PASS	2	0.56	-	-	-	-	-	99.029	90	PASS	PASS - GOOD
BI_3234 OS89	12	12	10.8 - 13.2	PASS	0	0.00	-	0	0.00	-	8.33%	93	91	81.9 - 100.1	PASS	0	0.00	-	0.1988	0.1591	0.12728 - 0.19092	FAIL	98.936	90	PASS	PASS - GOOD
BI_3234 OS90	17	18	16.2 - 19.8	PASS	1	5.56	-	0	0.00	-	0.00%	30	30	27 - 33	PASS	0	0.00	-	0.7098	0.6984	0.55872 - 0.83808	PASS	98.413	90	PASS	PASS - GOOD
BI_3234 OS91	28	29	26.1 - 31.9	PASS	1	3.45	-	0	0.00	-	7.14%	83	82	73.8 - 90.2	PASS	0	0.00	-	0.3962	0.3851	0.30808 - 0.46212	PASS	97.674	90	PASS	PASS - GOOD
BI_3235 OS89	95	99	89.1 - 108.9	PASS	2	2.02	-	2	2.02	-	5.26%	2582	2604	2343.6 - 2864.4	PASS	23	0.88	-	5.8245	5.64922	4.519376 - 6.779064	PASS	99.353	90	PASS	PASS - GOOD
BI_3235 OS90	13	13	11.7 - 14.3	PASS	1	7.69	-	1	7.69	-	7.69%	38	37	33.3 - 40.7	PASS	0	0.00	-	0.1045	0.0973	0.07784 - 0.11676	PASS	96.296	90	PASS	PASS - GOOD
BI_3235 OS91	39	40	36 - 44	PASS	1	2.50	-	2	5.00	-	2.56%	89	89	80.1 - 97.9	PASS	0	0.00	-	0.0734	0.0644	0.05152 - 0.07728	PASS	97.817	90	PASS	PASS - GOOD

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	Estimation of Taxa							Taxonomic errors			Taxonomic resolution edits	No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	%	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_3236 OS89	19	22	19.8 - 24.2	FAIL	0	0.00	-	4	18.18	-	5.26%	239	236	212.4 - 259.6	PASS	0	0.00	-	0.1065	0.0809	0.06472 - 0.09708	FAIL	98.196	90	PASS	PASS - GOOD
BI_3236 OS90	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	10.00%	541	541	486.9 - 595.1	PASS	0	0.00	-	1.3895	1.3894	1.11152 - 1.66728	PASS	100	90	PASS	PASS - EXCELLENT
BI_3236 OS91	12	12	10.8 - 13.2	PASS	0	0.00	-	1	8.33	-	16.67%	225	227	204.3 - 249.7	PASS	2	0.88	-	0.209	0.1781	0.14248 - 0.21372	PASS	98.238	90	PASS	PASS - GOOD
BI_3237 OS89	11	11	9.9 - 12.1	PASS	0	0.00	-	0	0.00	-	9.09%	14	14	12.6 - 15.4	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_3237 OS90	92	92	82.8 - 101.2	PASS	0	0.00	-	3	3.26	-	6.38%	1178	1183	1064.7 - 1301.3	PASS	6	0.51	-	-	-	-	-	99.466	90	PASS	PASS - GOOD
BI_3237 OS91	12	19	17.1 - 20.9	FAIL	4	21.05	Reprocess	2	10.53	Review	16.67%	46	58	52.2 - 63.8	FAIL	12	20.69	Reprocess	6.0521	5.3544	4.28352 - 6.42528	PASS	74.286	90	FAIL	FAIL - BAD
BI_3238 OS89	54	59	53.1 - 64.9	PASS	0	0.00	-	4	6.78	-	24.07%	1451	1450	1305 - 1595	PASS	3	0.21	-	3.9743	3.5809	2.86472 - 4.29708	PASS	99.074	90	PASS	PASS - GOOD
BI_3238 OS90	64	68	61.2 - 74.8	PASS	2	2.94	-	4	5.88	-	25.00%	648	653	587.7 - 718.3	PASS	0	0.00	-	38.6419	35.6762	28.54096 - 42.81144	PASS	98.096	90	PASS	PASS - GOOD
BI_3238 OS91	41	52	46.8 - 57.2	FAIL	10	19.23	-	1	1.92	-	24.39%	528	540	486 - 594	PASS	12	2.22	-	8.8569	9.2142	7.37136 - 11.05704	PASS	97.872	90	PASS	PASS - GOOD
BI_3239 OS89	49	53	47.7 - 58.3	PASS	3	5.66	-	2	3.77	-	22.92%	555	562	505.8 - 618.2	PASS	4	0.71	-	4.0374	3.0616	2.44928 - 3.67392	FAIL	98.855	90	PASS	PASS - GOOD
BI_3239 OS90	56	58	52.2 - 63.8	PASS	2	3.45	-	1	1.72	-	25.00%	872	868	781.2 - 954.8	PASS	7	0.81	-	1.8156	2.1955	1.7564 - 2.6346	PASS	99.142	90	PASS	PASS - GOOD
BI_3239 OS91	38	42	37.8 - 46.2	PASS	3	7.14	-	0	0.00	-	26.32%	1158	1250	1125 - 1375	PASS	37	2.96	-	13.5681	10.277	8.2216 - 12.3324	FAIL	95.98	90	PASS	PASS - GOOD
BI_3240 OS89	22	24	21.6 - 26.4	PASS	2	8.33	-	0	0.00	-	18.18%	102	105	94.5 - 115.5	PASS	0	0.00	-	4.3499	3.8476	3.07808 - 4.61712	PASS	97.273	90	PASS	PASS - GOOD
BI_3240 OS90	44	55	49.5 - 60.5	FAIL	10	18.18	-	1	1.82	-	25.00%	156	160	144 - 176	PASS	6	3.75	-	0.6191	0.4965	0.3972 - 0.5958	FAIL	91.185	90	PASS	PASS - ACCEPTABLE
BI_3240 OS91	26	31	27.9 - 34.1	FAIL	5	16.13	-	3	9.68	-	23.08%	283	289	260.1 - 317.9	PASS	17	5.88	-	0.2065	0.1916	0.15328 - 0.22992	PASS	92.361	90	PASS	PASS - ACCEPTABLE
BI_3241 OS89	32	33	29.7 - 36.3	PASS	1	3.03	-	1	3.03	-	12.90%	312	314	282.6 - 345.4	PASS	5	1.59	-	-	-	-	-	98.273	90	PASS	PASS - GOOD
BI_3241 OS90	13	16	14.4 - 17.6	FAIL	3	18.75	-	1	6.25	-	23.08%	675	669	602.1 - 735.9	PASS	5	0.75	-	-	-	-	-	98.96	90	PASS	PASS - GOOD
BI_3241 OS91	51	51	45.9 - 56.1	PASS	0	0.00	-	2	3.92	-	7.84%	171	170	153 - 187	PASS	1	0.59	-	0.7943	0.443	0.3544 - 0.5316	FAIL	97.143	90	PASS	PASS - GOOD
BI_3242 OS89	50	56	50.4 - 61.6	FAIL	5	8.93	-	7	12.50	-	10.00%	232	261	234.9 - 287.1	FAIL	30	11.49	-	-	-	-	-	91.935	90	PASS	PASS - ACCEPTABLE
BI_3242 OS90	38	41	36.9 - 45.1	PASS	3	7.32	-	0	0.00	-	5.26%	163	184	165.6 - 202.4	FAIL	14	7.61	-	-	-	-	-	93.103	90	PASS	PASS - ACCEPTABLE
BI_3242 OS91	20	23	20.7 - 25.3	FAIL	3	13.04	-	3	13.04	-	0.00%	503	539	485.1 - 592.9	PASS	44	8.16	-	10.705	10.1215	8.0972 - 12.1458	PASS	95.785	90	PASS	PASS - GOOD

Key:
OD = Original Data (participant), AD = Auditor Data, Target for Estimation of Taxa and No. Individuals is +/- 10% AD, Target for Estimation of Biomass is +/- 20% AD, BCSI = Bray Curtis Similarity Index.

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS89-91).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_3202	OS86	AD count	1	116	1	-	79	35	-	70	302
		Missed	0	0	0	-	0	3	-	2	5
		%missed	0.0	0.0	0.0	-	0.0	8.6	-	2.9	1.7
	OS89	AD count	-	6	-	-	8	3	1	2	20
		Missed	-	0	-	-	0	0	0	1	1
		%missed	-	0.0	-	-	0.0	0.0	0.0	50.0	5.0
	OS91	AD count	2	53	45	-	3	68	5	1	177
		Missed	0	0	0	-	0	2	0	1	3
		%missed	0.0	0.0	0.0	-	0.0	2.9	0.0	100.0	1.7
BI_3204	OS86	AD count	-	549	10	-	24	420	18	-	1021
		Missed	-	1	0	-	0	3	1	-	5
		%missed	-	0.2	0.0	-	0.0	0.7	5.6	-	0.5
	OS89	AD count	12	109	-	-	9	193	71	4	398
		Missed	0	3	-	-	0	3	1	1	8
		%missed	0.0	2.8	-	-	0.0	1.6	1.4	25.0	2.0
	OS91	AD count	-	5	-	-	-	-	-	-	5
		Missed	-	0	-	-	-	-	-	-	0
		%missed	-	0.0	-	-	-	-	-	-	0.0
BI_3209	OS86	AD count	2	15	-	-	8	20	25	2	72
		Missed	0	0	-	-	0	0	2	0	2
		%missed	0.0	0.0	-	-	0.0	0.0	8.0	0.0	2.8
	OS89	AD count	-	22	-	-	14	9	5	-	50
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS91	AD count	2	18	-	-	5	12	5	-	42
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_3211	OS86	AD count	-	19	-	-	3	5	13	-	40
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS89	AD count	1	57	-	-	1	10	7	2	78
		Missed	0	0	-	-	0	0	0	1	1
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	50.0	1.3
	OS91	AD count	-	38	-	-	5	10	10	-	63
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_3214	OS86	AD count	1	41	-	-	6	67	-	1	116
		Missed	1	6	-	-	0	14	-	1	22
		%missed	100.0	14.6	-	-	0.0	20.9	-	100.0	19.0
	OS89	AD count	1	35	23	-	1	29	-	-	89
		Missed	0	2	5	-	0	23	-	-	30
		%missed	0.0	5.7	21.7	-	0.0	79.3	-	-	33.7
	OS91	AD count	-	62	-	-	1	5	-	-	68
		Missed	-	8	-	-	0	1	-	-	9
		%missed	-	12.9	-	-	0.0	20.0	-	-	13.2
BI_3215	OS86	AD count	8	158	3	2	52	8	10	24	265
		Missed	0	3	1	1	2	3	0	6	16
		%missed	0.0	1.9	33.3	50.0	3.8	37.5	0.0	25.0	6.0
	OS89	AD count	4	12	-	-	25	16	-	7	64
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS91	AD count	1	5	-	-	1	40	-	3	50
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_3216	OS86	AD count	-	18	1	-	-	9	-	10	38
		Missed	-	0	0	-	-	0	-	0	0
		%missed	-	0.0	0.0	-	-	0.0	-	0.0	0.0
	OS89	AD count	-	6	-	-	28	251	-	-	285
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
	OS91	AD count	-	409	3	-	80	1	-	2	495
		Missed	-	1	0	-	1	0	-	1	3
		%missed	-	0.2	0.0	-	1.3	0.0	-	50.0	0.6

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS89-91).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_3217	OS86	AD count	-	15	-	-	-	45	1	-	61
		Missed	-	1	-	-	-	0	0	-	1
		%missed	-	6.7	-	-	-	0.0	0.0	-	1.6
	OS89	AD count	-	32	-	-	1	43	4	2	82
		Missed	-	1	-	-	0	0	0	0	1
		%missed	-	3.1	-	-	0.0	0.0	0.0	0.0	1.2
	OS91	AD count	3	78	-	-	4	13	6	33	137
		Missed	0	2	-	-	1	0	0	4	7
		%missed	0.0	2.6	-	-	25.0	0.0	0.0	12.1	5.1
BI_3218	OS86	AD count	-	16	-	-	1	18	6	-	41
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS89	AD count	2	454	-	8	374	241	1	272	1352
		Missed	0	11	-	0	2	11	0	15	39
		%missed	0.0	2.4	-	0.0	0.5	4.6	0.0	5.5	2.9
	OS91	AD count	5	348	5	3	210	417	71	8	1067
		Missed	0	2	0	0	1	5	0	1	9
		%missed	0.0	0.6	0.0	0.0	0.5	1.2	0.0	12.5	0.8
BI_3228	OS86	AD count	5	90	1	-	-	71	-	4	171
		Missed	0	2	0	-	-	0	-	0	2
		%missed	0.0	2.2	0.0	-	-	0.0	-	0.0	1.2
	OS89	AD count	-	25	3	-	-	38	-	6	72
		Missed	-	0	0	-	-	0	-	1	1
		%missed	-	0.0	0.0	-	-	0.0	-	16.7	1.4
	OS91	AD count	3	42	53	-	-	16	1	10	125
		Missed	0	0	0	-	-	0	0	0	0
		%missed	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0
BI_3229	OS86	AD count	-	18	-	-	37	65	-	-	120
		Missed	-	0	-	-	0	1	-	-	1
		%missed	-	0.0	-	-	0.0	1.5	-	-	0.8
	OS89	AD count	1	11	-	-	9	15	-	7	43
		Missed	0	0	-	-	0	0	-	6	6
		%missed	0.0	0.0	-	-	0.0	0.0	-	85.7	14.0
	OS91	AD count	-	38	-	-	21	233	-	3	295
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_3231	OS86	AD count	-	86	13	-	-	-	-	-	99
		Missed	-	1	0	-	-	-	-	-	1
		%missed	-	1.2	0.0	-	-	-	-	-	1.0
	OS89	AD count	-	191	1	-	-	-	-	1	193
		Missed	-	7	0	-	-	-	-	0	7
		%missed	-	3.7	0.0	-	-	-	-	0.0	3.6
	OS91	AD count	-	112	2	-	9	78	-	8	209
		Missed	-	3	0	-	0	0	-	2	5
		%missed	-	2.7	0.0	-	0.0	0.0	-	25.0	2.4

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS89-91).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_3232	OS86	AD count	-	119	11	-	176	17	-	45	368
		Missed	-	0	0	-	8	2	-	10	20
		%missed	-	0.0	0.0	-	4.5	11.8	-	22.2	5.4
	OS89	AD count	-	11	1	-	1	8	-	3	24
		Missed	-	0	0	-	1	0	-	0	1
		%missed	-	0.0	0.0	-	100.0	0.0	-	0.0	4.2
	OS91	AD count	9	666	3	90	108	213	51	690	1830
		Missed	1	9	3	1	4	5	0	28	51
		%missed	11.1	1.4	100.0	1.1	3.7	2.3	0.0	4.1	2.8
BI_3233	OS86	AD count	8	286	-	-	5	35	2	4	340
		Missed	0	9	-	-	0	3	0	0	12
		%missed	0.0	3.1	-	-	0.0	8.6	0.0	0.0	3.5
	OS89	AD count	-	181	36	-	3	17	-	12	249
		Missed	-	1	0	-	0	1	-	0	2
		%missed	-	0.6	0.0	-	0.0	5.9	-	0.0	0.8
	OS91	AD count	1	228	117	-	-	2	-	10	358
		Missed	0	1	1	-	-	0	-	0	2
		%missed	0.0	0.4	0.9	-	-	0.0	-	0.0	0.6
BI_3234	OS86	AD count	-	1	-	-	51	31	-	8	91
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS89	AD count	2	12	1	-	12	1	-	2	30
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS91	AD count	3	22	1	-	16	38	-	2	82
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
BI_3235	OS86	AD count	5	1023	685	-	211	299	-	381	2604
		Missed	0	8	3	-	0	11	-	1	23
		%missed	0.0	0.8	0.4	-	0.0	3.7	-	0.3	0.9
	OS89	AD count	1	6	-	-	30	-	-	-	37
		Missed	0	0	-	-	0	-	-	-	0
		%missed	0.0	0.0	-	-	0.0	-	-	-	0.0
	OS91	AD count	1	10	1	-	11	11	19	36	89
		Missed	0	0	0	-	0	0	0	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
BI_3236	OS86	AD count	-	5	7	-	191	20	-	13	236
		Missed	-	0	0	-	0	0	-	0	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS89	AD count	-	141	66	-	331	-	-	3	541
		Missed	-	0	0	-	0	-	-	0	0
		%missed	-	0.0	0.0	-	0.0	-	-	0.0	0.0
	OS91	AD count	-	170	14	-	39	-	-	4	227
		Missed	-	0	1	-	0	-	-	1	2
		%missed	-	0.0	7.1	-	0.0	-	-	25.0	0.9
BI_3237	OS86	AD count	-	6	-	-	1	5	-	2	14
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS89	AD count	19	1039	3	14	31	68	-	9	1183
		Missed	0	4	0	2	0	0	-	0	6
		%missed	0.0	0.4	0.0	14.3	0.0	0.0	-	0.0	0.5
	OS91	AD count	-	26	16	-	-	16	-	-	58
		Missed	-	1	0	-	-	11	-	-	12
		%missed	-	3.8	0.0	-	-	68.8	-	-	20.7
BI_3238	OS86	AD count	12	1163	111	-	37	122	3	2	1450
		Missed	0	2	0	-	0	1	0	0	3
		%missed	0.0	0.2	0.0	-	0.0	0.8	0.0	0.0	0.2
	OS89	AD count	54	423	38	-	11	114	2	3	645
		Missed	0	0	0	-	0	0	0	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	OS91	AD count	3	412	-	1	4	116	1	3	540
		Missed	0	0	-	0	0	12	0	0	12
		%missed	0.0	0.0	-	0.0	0.0	10.3	0.0	0.0	2.2

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS89-91).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_3239	OS86	AD count	14	462	14	-	35	30	3	4	562
		Missed	0	1	0	-	0	3	0	0	4
		%missed	0.0	0.2	0.0	-	0.0	10.0	0.0	0.0	0.7
	OS89	AD count	36	577	118	-	27	48	1	61	868
		Missed	0	2	0	-	0	3	0	2	7
		%missed	0.0	0.3	0.0	-	0.0	6.3	0.0	3.3	0.8
	OS91	AD count	15	1119	59	-	3	14	10	30	1250
		Missed	1	22	7	-	1	4	0	2	37
		%missed	6.7	2.0	11.9	-	33.3	28.6	0.0	6.7	3.0
BI_3240	OS86	AD count	24	26	3	-	28	12	11	1	105
		Missed	0	0	0	-	0	0	0	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	OS89	AD count	1	68	7	-	34	33	12	5	160
		Missed	0	0	0	-	0	3	0	3	6
		%missed	0.0	0.0	0.0	-	0.0	9.1	0.0	60.0	3.8
	OS91	AD count	1	32	1	-	226	21	-	8	289
		Missed	0	0	0	-	3	9	-	5	17
		%missed	0.0	0.0	0.0	-	1.3	42.9	-	62.5	5.9
BI_3241	OS86	AD count	-	94	-	-	9	207	1	3	314
		Missed	-	4	-	-	0	1	0	0	5
		%missed	-	4.3	-	-	0.0	0.5	0.0	0.0	1.6
	OS89	AD count	-	28	388	-	1	35	-	217	669
		Missed	-	1	2	-	0	1	-	1	5
		%missed	-	3.6	0.5	-	0.0	2.9	-	0.5	0.7
	OS91	AD count	3	31	7	-	19	84	-	26	170
		Missed	0	0	0	-	0	0	-	1	1
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	3.8	0.6
BI_3242	OS86	AD count	1	132	2	-	47	64	-	15	261
		Missed	0	11	2	-	9	2	-	6	30
		%missed	0.0	8.3	100.0	-	19.1	3.1	-	40.0	11.5
	OS89	AD count	-	138	-	-	8	30	8	-	184
		Missed	-	8	-	-	2	4	0	-	14
		%missed	-	5.8	-	-	25.0	13.3	0.0	-	7.6
	OS91	AD count	-	338	148	-	17	10	-	26	539
		Missed	-	18	15	-	0	4	-	7	44
		%missed	-	5.3	10.1	-	0.0	40.0	-	26.9	8.2

Key: AD = Audit Data

Missed = numbers of individuals missed in residue sorting

% Missed = Percentage missed in residue sorting

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS89 - 91) (erroneous identifications in brackets).

LabCode / Smp.	Taxonomic Errors	Major Taxonomic Group					
		Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BL_3202	OS89	1	<i>Eteone longa</i> agg. (<i>Pseudomystides limbata</i>)	-	-	-	-
	OS90	1	-	-	-	-	Nemertea (<i>Notomastus</i>)
	OS91	2	-	-	-	-	-
BL_3204	OS89	0	-	-	<i>Turbonilla acuta</i> (<i>Turbonilla pusilla</i>)	-	-
	OS90	0	-	-	-	-	-
	OS91	0	-	-	-	-	-
BL_3209	OS89	0	-	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	0	-	-	-	-	-
BL_3211	OS89	0	-	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	0	-	-	-	-	-
BL_3214	OS89	1	<i>Spiophanes bombyx</i> agg. (<i>Lanice conchilega</i> Juv.)	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	1	<i>Streblospio</i> (<i>Pygospio elegans</i>)	-	-	-	-
BL_3215	OS89	1	<i>Ampharete lindstroemi</i> agg. (<i>Anobothrus gracilis</i>)	-	-	-	-
	OS90	1	-	-	-	-	-
	OS91	1	-	-	<i>Tricola picta</i> (<i>Tricola pullus</i>) <i>Thracia villosiuscula</i> (<i>Thracia phaseolina</i>)	-	-
BL_3216	OS89	2	-	-	-	-	<i>Audouinia</i> (<i>Ectocarpus</i> aggregate)
	OS90	0	-	-	-	-	<i>Ceramium</i> (<i>Cladophora</i>)
	OS91	1	-	-	-	-	<i>Blidingia minima</i> (<i>Ulva intestinalis</i> s. Agg)
BL_3217	OS89	4	<i>Aphelochaeta</i> "species A" (<i>Cirratulus caudatus</i> Juv.) Orbinidae (<i>Apistobranchus tullbergi</i>)	-	<i>Abra nitida</i> (<i>Abra alba</i>) <i>Abra alba</i> (<i>Abra nitida</i>)	-	-
	OS90	2	<i>Pista mediterranea</i> (<i>Pistella lornensis</i>)	-	-	-	Filifera (Entoprocta)
	OS91	2	-	-	-	-	<i>Thysanocardia procera</i> (Golfingia) Astrorhiza (Protozoa)
BL_3218	OS89	2	-	-	<i>Ennucula tenuis</i> (<i>Nucula nitidosa</i>)	-	Barentsia (<i>Electra pilosa</i>)
	OS90	1	<i>Chaetozone elakata</i> (<i>Chaetozone gibber</i>)	-	-	-	-
	OS91	0	-	-	-	-	-
BL_3228	OS89	0	-	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	0	-	-	-	-	-
BL_3229	OS89*	0	-	-	-	-	-
	OS90*	0	-	-	-	-	-
	OS91*	0	-	-	-	-	-
BL_3231	OS89	1	<i>Scolaplos armiger</i> (<i>Leitoscolaplos mammosus</i>)	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	2	<i>Scolaplos armiger</i> (<i>Leitoscolaplos mammosus</i>)	-	<i>Abra nitida</i> (<i>Abra alba</i>)	-	-
BL_3232	OS89	0	-	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	1	-	-	<i>Epilepton clarkiae</i> (<i>Montacuta substriata</i>)	-	-
BL_3233	OS89	1	-	-	Polybidae juv. (Portunidae juv)	-	-
	OS90	3	<i>Eumida sanguinea</i> agg. (<i>Eumida bahiensis</i>)	<i>Tubificoides benedii</i> (<i>Tubificoides pseudogaster</i> agg.)	<i>Diastylis laevis</i> (<i>Diastylis rugosa</i>)	-	-
	OS91	0	-	-	-	-	-
BL_3234	OS89	0	-	-	-	-	-
	OS90	0	-	-	-	-	-
	OS91	0	-	-	-	-	-
BL_3235	OS89	2	-	-	<i>Abra alba</i> / <i>Thracia</i> juv. (<i>Scrobicularia plana</i> Juvenile)	-	<i>Ciliophora</i> (<i>Toxosomella varians</i>)
	OS90	1	-	<i>Bathyporeia pelagica</i> (<i>Bathyporeia elegans</i>)	-	-	-
	OS91	2	-	-	-	-	<i>Blidingia</i> (<i>Ulva intestinalis</i> Aggregate) <i>Rhizoclonium</i> (<i>Chaetomorpha ligustica</i>)
BL_3236	OS89	4	-	-	<i>Ecribia ventrosa</i> (<i>Peringia ulvae</i>)	-	<i>Blidingia</i> (<i>Ulva intestinalis</i> Aggregate) Osmundea (Gracilariaceae) <i>Rhizoclonium</i> (Bacillariophyceae)
	OS90	0	-	-	-	-	-
	OS91	1	-	-	-	-	<i>Blidingia</i> (<i>Ulva intestinalis</i> Aggregate)
BL_3237	OS89	0	-	-	-	-	-
	OS90	3	-	<i>Nymphon brevirostre</i> (<i>Nymphon gracile</i>)	<i>Phoxas pellucidus</i> (<i>Ensis</i> juvenile <40mm)	-	<i>Carradoriella elongata</i> (<i>Polysiphonia stricta</i>)
	OS91	2	<i>Spio armata</i> agg. / <i>Spio goniocephala</i> (<i>Spio martinensis</i>) <i>Tharyx killariensis</i> (<i>Tharyx robustus</i>)	-	-	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS89 - 91) (erroneous identifications in brackets).

LabCode / Smp.		Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_3238	OS89	4	Tharyx robustus / Chaetozone vivipara (Chaetozone christiei)	-	-	Modiolus juv. (Mytilidae Juvenile)	Ophiuridae juv. (Amphiuridae)	-
			Magelona minuta (Magelona filiformis)	-	-	-	-	-
			Leitoscoloplos mammosus (Scoloplos armiger)	-	-	Modiolus juv. (Mytilidae Juvenile)	-	-
	OS90	4	Caulerella alata (Chaetozone christiei)	-	-	-	-	-
			Chaetozone gibber (Chaetozone zetlandica)	-	-	-	-	-
OS91	1	Nephtys kersivalensis (Nephtys hombergii)	-	-	-	-	-	
BI_3239	OS89	2	-	-	-	-	-	Ascidacea colony (ANIMALIA Eggs)
			-	-	-	-	-	Eucratea loricata (Bugulidae)
	OS90	1	Scalibregma inflatum (Scoloplos armiger)	-	-	-	-	-
	OS91	0	-	-	-	-	-	-
BI_3240	OS89	0	-	-	-	-	-	-
	OS90	1	-	Limnodriloides (Tubificoides pseudogaster_Agg)	-	-	-	-
	OS91	3	-	-	Pseudocuma simile (Pseudocuma (Pseudocuma) longicorne)	-	-	-
			-	-	Eurydice truncata (Eurydice pulchra)	-	-	-
			-	-	Balanomorpha cyprid (Ostracoda)	-	-	-
BI_3241	OS89	1	Spiophanes kroyeri agg. (Spiophanes bombyx)	-	-	-	-	-
	OS90	1	-	-	-	Abra tenuis (Scrobicularia plana)	-	-
	OS91	2	-	Limnodriloides (Tubificoides pseudogaster_Agg)	-	-	-	Phascolion strombus (Golfingia (Golfingia) vulgaris vulgaris)
BI_3242	OS89	7	Lumbrineris cingulata agg. (Lysidice unicornis)	-	-	Nucula nitidosa (Nucula nucleus)	-	-
			Lysidice unicornis (Lumbrineris cingulata Confer)	-	-	Venerupis corrugata (Ruditapes decussatus)	-	-
			Tharyx killariensis (Tharyx Species A)	-	-	-	-	-
			Praxillella affinis agg. (Euclymene oerstedii Aggregate)	-	-	-	-	-
			Ampharete lindstroemi agg. (Amphicteis midas)	-	-	-	-	-
	OS90	0	-	-	-	-	-	-
	OS91	3	Melinna palmata (Pygospio elegans)	-	-	-	-	Ciliophora (Loxosomella)
			Pygospio elegans (Streblospio)	-	-	-	-	-
TOTAL		76	28	4	7	16	1	20
% Error			37	5	9	21	1	26

NB: % errors for taxonomic groups are percentages of the total errors generated by each taxon (not percentages of errors within each taxon)

* - Own Samples not from NE Atlantic region

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS89-OS91.

		OS89							
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other
BI_3204	OD	-	7.1827	0.0016	-	0.0244	112.0082	2.3701	-
	AD	-	5.5401	0.0015	-	0.0179	115.5798	2.2803	-
	%diff.	-	22.87	6.25	-	26.64	-3.19	3.79	-
BI_3216	OD	-	-	-	-	-	-	-	-
	AD	-	-	-	-	-	-	-	-
	%diff.	-	-	-	-	-	-	-	-
BI_3218	OD	-	0.2993	-	-	0.0013	0.1321	16.7284	-
	AD	-	0.1488	-	-	0.0002	0.1191	10.9963	-
	%diff.	-	50.2840	-	-	84.6154	9.8410	34.2657	-
BI_3229	OD	-	2.2120	-	-	10.3348	1.3261	-	-
	AD	-	1.6560	-	-	8.6423	1.2305	-	-
	%diff.	-	25.1356	-	-	16.3767	7.2091	-	-
BI_3234	OD	0.0001	0.0014	-	-	0.1914	0.0046	-	0.0013
	AD	0.0009	0.0008	-	-	0.1539	0.0033	-	0.0002
	%diff.	-800.00	42.86	-	-	19.59	28.26	-	84.62
BI_3235	OD	0.0073	5.1184	0.1743	-	0.2236	0.2928	-	0.0081
	AD	0.0063	5.0474	0.1427	-	0.1830	0.2627	-	0.0071
	%diff.	13.6986	1.3872	18.1297	-	18.1574	10.2801	-	12.3457
BI_3236	OD	-	0.0523	0.0019	-	0.0272	0.0029	-	0.0222
	AD	-	0.0418	0.0017	-	0.0189	0.0021	-	0.0164
	%diff.	-	20.0765	10.5263	-	30.5147	27.5862	-	26.1261
BI_3237	OD	-	-	-	-	-	-	-	-
	AD	-	-	-	-	-	-	-	-
	%diff.	-	-	-	-	-	-	-	-
BI_3238	OD	0.0031	1.0913	0.0153	-	0.0310	2.8092	0.0243	0.0001
	AD	0.0044	0.9129	0.0166	-	0.0181	2.6072	0.0216	0.0001
	%diff.	-41.94	16.35	-8.50	-	41.61	7.19	11.11	0.00
BI_3239	OD	0.0202	3.0565	0.0051	-	0.0194	0.5046	0.4183	0.0133
	AD	0.0144	2.1972	0.0038	-	0.0138	0.4603	0.3615	0.0106
	%diff.	28.71	28.11	25.49	-	28.87	8.78	13.58	20.30
BI_3240	OD	0.0081	0.2111	0.0001	-	0.0031	0.0014	4.1259	0.0002
	AD	0.0070	0.0869	0.0001	-	0.0041	0.0027	3.7466	0.0002
	%diff.	13.58	58.83	0.00	-	-32.26	-92.86	9.19	0.00
BI_3241	OD	-	-	-	-	-	-	-	-
	AD	-	-	-	-	-	-	-	-
	%diff.	-	-	-	-	-	-	-	-
BI_3242	OD	-	-	-	-	-	-	-	-
	AD	-	-	-	-	-	-	-	-
	%diff.	-	-	-	-	-	-	-	-

Key: OD - Own data, participating laboratory
AD - Audit data
"-" - No data.

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS89-OS91.

		OS90								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_3204	OD	0.0061	12.8018	-	-	1.6162	5.7611	296.9107	2.6723	319.7682
	AD	0.0029	10.3779	-	-	0.2109	4.7118	304.4080	2.1539	321.8654
	%diff.	52.4590	18.9341	-	-	86.9509	18.2135	-2.5251	19.3990	-0.6559
BI_3216	OD	-	0.1468	-	-	0.2159	54.5862	-	-	54.9489
	AD	-	0.1436	-	-	0.0226	57.8008	-	-	57.9670
	%diff.	-	2.18	-	-	89.53	-5.89	-	-	-5.49
BI_3218	OD	0.0024	1.8969	-	0.0048	0.1171	9.8374	4.6120	0.5916	17.0622
	AD	0.0011	1.3644	-	0.0027	0.0776	9.5963	2.9259	0.4290	14.3970
	%diff.	54.17	28.07	-	43.75	33.73	2.45	36.56	27.48	15.62
BI_3229	OD	0.4223	2.8380	-	-	2.5342	0.3804	-	2.3280	8.5029
	AD	0.3910	2.3645	-	-	1.8979	0.3597	-	2.2922	7.3053
	%diff.	7.4118	16.6843	-	-	25.1085	5.4416	-	1.5378	14.08
BI_3234	OD	0.0001	0.0129	0.0001	-	0.0024	0.0001	-	0.6942	0.7098
	AD	0.0001	0.0111	0.0001	-	0.0015	0.0001	-	0.6855	0.6984
	%diff.	0.00	13.95	0.00	-	37.50	0.00	-	1.25	1.61
BI_3235	OD	0.0008	0.0907	-	-	0.0129	0.0001	-	-	0.1045
	AD	0.0005	0.0863	-	-	0.0104	0.0001	-	-	0.0973
	%diff.	37.5000	4.8512	-	-	19.3798	0.0000	-	-	6.89
BI_3236	OD	-	0.9847	0.0186	-	0.3859	-	-	0.0002	1.3894
	AD	-	0.8339	0.0133	-	0.2846	-	-	0.0004	1.1322
	%diff.	-	15.3143	28.4946	-	26.2503	-	-	-100.0000	18.51
BI_3237	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_3238	OD	0.0122	2.7775	0.0073	-	0.2339	32.6192	2.9742	0.0142	38.6385
	AD	0.0104	2.2567	0.0064	-	0.1812	30.5714	2.6381	0.0120	35.6762
	%diff.	14.75	18.75	12.33	-	22.53	6.28	11.30	15.49	7.67
BI_3239	OD	0.0030	0.6373	0.0169	-	0.0011	2.0289	0.1106	0.0178	2.8156
	AD	0.0023	0.4087	0.0113	-	0.0011	1.6658	0.0957	0.0106	2.1955
	%diff.	23.33	35.87	33.14	-	0.00	17.90	13.47	40.45	22.02
BI_3240	OD	0.0001	0.1081	0.0001	-	0.0848	0.2137	0.2121	0.0002	0.6191
	AD	0.0001	0.0785	0.0001	-	0.0668	0.2119	0.1389	0.0002	0.4965
	%diff.	0.00	27.38	0.00	-	21.23	0.84	34.51	0.00	19.80
BI_3241	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_3242	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

Key: OD - Own data, participating laboratory
AD - Audit data
"-" - No data.

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS89-OS91.

		OS91								
		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	
LabCode										Overall
BI_3204	OD	-	0.1583	-	-	-	-	-	-	0.1583
	AD	-	0.1110	-	-	-	-	-	-	0.1110
	%diff.	-	29.88	-	-	-	-	-	-	29.8800
BI_3216	OD	-	0.2061	0.0001	-	0.0705	0.0001	-	0.0001	0.2769
	AD	-	0.1729	0.0001	-	0.0650	0.0001	-	0.0001	0.2382
	%diff.	-	16.11	0.00	-	7.80	0.00	-	0.00	13.98
BI_3218	OD	0.0035	0.6043	0.0002	0.0016	0.0289	0.5429	0.0192	0.0009	1.2015
	AD	0.0024	0.4237	0.0003	0.0010	0.0253	0.4591	0.0175	0.0006	0.9299
	%diff.	31.43	29.89	-50.00	37.50	12.46	15.44	8.85	33.33	22.61
BI_3229	OD	-	7.1292	-	-	2.2771	7.7241	-	4.2158	21.3462
	AD	-	5.3228	-	-	2.1509	7.9564	-	4.0511	19.4812
	%diff.	-	25.3380	-	-	5.5421	-3.0075	-	3.9067	8.74
BI_3234	OD	0.0005	0.0572	0.0001	-	0.0141	0.3241	-	0.0002	0.3962
	AD	0.0002	0.0546	0.0001	-	0.0124	0.3177	-	0.0001	0.3851
	%diff.	60.00	4.55	0.00	-	12.06	1.97	-	50.00	2.80
BI_3235	OD	0.0001	0.0276	0.0001	-	0.0070	0.0045	0.0337	0.0004	0.0734
	AD	0.0001	0.0217	0.0001	-	0.0069	0.0032	0.0322	0.0002	0.0644
	%diff.	0.0000	21.3768	0.0000	-	1.4286	28.8889	4.4510	50.0000	12.26
BI_3236	OD	-	0.0640	0.0018	-	0.1341	-	-	0.0002	0.2001
	AD	-	0.0483	0.0016	-	0.1280	-	-	0.0002	0.1781
	%diff.	-	24.5313	11.1111	-	4.5488	-	-	0.0000	10.99
BI_3237	OD	-	0.1376	0.0013	-	-	5.9132	-	-	6.0521
	AD	-	0.1176	0.0024	-	-	5.2344	-	-	5.3544
	%diff.	-	14.53	-84.62	-	-	11.48	-	-	11.53
BI_3238	OD	0.0187	1.1048	-	0.0001	0.0111	7.1429	0.5429	0.0364	8.8569
	AD	0.0167	0.8893	-	0.0001	0.0102	6.9359	0.5337	0.8283	9.2142
	%diff.	10.70	19.51	-	0.00	8.11	2.90	1.69	-2175.55	-4.03
BI_3239	OD	0.4785	8.1384	0.0053	-	0.0001	0.0098	2.6607	2.2753	13.5681
	AD	0.3430	6.0536	0.0044	-	0.0001	0.0107	2.4023	1.4629	10.2770
	%diff.	28.32	25.62	16.98	-	0.00	-9.18	9.71	35.71	24.26
BI_3240	OD	0.0015	0.0607	0.0001	-	0.0361	0.0741	-	0.0340	0.2065
	AD	0.0029	0.0639	0.0001	-	0.0314	0.0583	-	0.0350	0.1916
	%diff.	-93.33	-5.27	0.00	-	13.02	21.32	-	-2.94	7.22
BI_3241	OD	0.0019	0.1229	0.0002	-	0.0068	0.1686	-	0.2481	0.5485
	AD	0.0013	0.0617	0.0002	-	0.0040	0.1702	-	0.2051	0.4425
	%diff.	31.58	49.80	0.00	-	41.18	-0.95	-	17.33	19.33
BI_3242	OD	-	3.0057	0.0161	-	0.0372	7.6063	-	0.0397	10.7050
	AD	-	2.6011	0.0079	-	0.0201	7.4726	-	0.0198	10.1215
	%diff.	-	13.46	50.93	-	45.97	1.76	-	50.13	5.45

Key: OD - Own data, participating laboratory
AD - Audit data
"-" - No data.

Table 5. Comparison of the overall performance of laboratories in the Own Sample exercises from 1995/96 to 2025/26 (OS01-91).

Scheme Year	Exercise	Number of samples		% Pass
		Pass (>90% BCSI)	Fail (<90% BCSI)	
02 (1995/96)	01	14	0	100
03 (1996/97)	02, 03, 04	27	11	71
04 (1997/98)	05, 06, 07	33	7	83
05 (1998/99)	08, 09, 10	30	12	71
06 (1999/00)	11, 12, 13	37	14	73
07 (2000/01)	14, 15, 16	30	15	67
08 (2001/02)*	17, 18, 19	35	10	78
09 (2002/03)*	20, 21, 22	33	11	75
10 (2003/04)*	23, 24, 25	43	8	84
11 (2004/05)*	26, 27, 28	51	3	94
12 (2005/06)*	29, 30, 31	50	4	93
13 (2006/07)*	32, 33, 34	63	6	91
14 (2007/08)*	35, 36, 37	69	12	85
15 (2008/09)*	38, 39, 40	67	24	74
16 (2009/10)*	41, 42, 43	75	18	81
17 (2010/11)*	44, 45, 46	85	14	86
18 (2011/12)*	47, 48, 49	95	4	96
19 (2012/13)*	50, 51, 52	102	6	94
20 (2013/14)*	53, 54, 55	73	29	72
2014/15 (21)*	56, 57, 58	71	22	76
2015/16 (22)*	59, 60, 61	81	15	84
2016/17 (23)*	62, 63, 64	72	12	86
2017/18 (24)*	65, 66, 67	70	9	89
2018/19 (25)*	68, 69, 70	73	16	82
2019/20 (26)*	71, 72, 73	89	8	92
2020/21 (27)*	74, 75, 76	65	4	94
2021/22 (28)*	77, 78, 79	83	6	93
2022/23 (29)**	80, 81, 82	91	16	85
2023/24 (30)*	83, 84, 85	58	4	94
2024/25 (31)*	86, 87, 88	55	8	87
2025/26 (32)*	89, 90, 91	64	5	93
Total		1884	333	85

* - Own Samples selected from completed data matrices

* - includes 15 Own Samples from the Black Sea

* - includes 3 Own Samples from the South Africa and/or Namibia

BCSI - Bray Curtis Similarity Index (untransformed)