



NMBAQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

Own Sample Module Summary Report

Benthic Invertebrate Component - 2021/22

OS77, 78 and 79

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MODULE / EXERCISE DETAILS

Module:	Own Sample (OS)
Exercises:	OS77, 78 and 79
Data/Sample Request Circulated:	08 October 2021
Sample Submission Deadline (Batch 2):	15 April 2022
Number of Subscribing Laboratories:	31
Number of Own Samples Received:	83

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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
LabCode	Estimation of Taxa							Taxonomic errors			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_2801 OS77	104	107	96.3 - 117.7	PASS	1	0.93	-	0	0.00	-	1923	1889	1700.1 - 2077.9	PASS	48	2.54	-	13.4999	12.6825	10.146 - 15.219	PASS	96.56	90	PASS	PASS - GOOD
BI_2801 OS78	34	34	30.6 - 37.4	PASS	0	0.00	-	2	5.88	-	88	93	83.7 - 102.3	PASS	4	4.30	-	0.979	0.9618	0.76944 - 1.15416	PASS	95.29	90	PASS	PASS - GOOD
BI_2801 OS79	87	87	78.3 - 95.7	PASS	0	0.00	-	0	0.00	-	877	873	785.7 - 960.3	PASS	8	0.92	-	34.1958	1.1708	0.93664 - 1.40496	FAIL	98.79	90	PASS	PASS - GOOD
BI_2803 OS77	18	18	16.2 - 19.8	PASS	0	0.00	-	1	5.56	-	52	52	46.8 - 57.2	PASS	0	0.00	-	51.8309	34.6659	27.73272 - 41.59908	FAIL	98.113	90	PASS	PASS - GOOD
BI_2803 OS78	18	19	17.1 - 20.9	PASS	1	5.26	-	1	5.26	-	61	62	55.8 - 68.2	PASS	2	3.23	-	0.97631	0.52	0.416 - 0.624	FAIL	96	90	PASS	PASS - GOOD
BI_2803 OS79	13	13	11.7 - 14.3	PASS	0	0.00	-	2	15.38	-	33	33	29.7 - 36.3	PASS	0	0.00	-	32.8582	21.8355	17.4684 - 26.2026	FAIL	90.909	90	PASS	PASS - ACCEPTABLE
BI_2804 OS77	14	16	14.4 - 17.6	FAIL	2	12.50	-	0	0.00	-	25	30	27 - 33	FAIL	5	16.67	-	-	-	-	-	91.525	90	PASS	PASS - ACCEPTABLE
BI_2804 OS78	21	32	28.8 - 35.2	FAIL	11	34.38	Reprocess	1	3.13	-	99	168	151.2 - 184.8	FAIL	69	41.07	Reprocess	-	-	-	-	73.408	90	FAIL	FAIL - BAD
BI_2804 OS79	4	5	4.5 - 5.5	FAIL	1	20.00	-	0	0.00	-	5	6	5.4 - 6.6	FAIL	1	16.67	-	-	-	-	-	90.909	90	PASS	PASS - ACCEPTABLE
BI_2805 OS77	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	12	12	10.8 - 13.2	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2805 OS78	46	50	45 - 55	PASS	4	8.00	-	1	2.00	-	137	146	131.4 - 160.6	PASS	8	5.48	-	-	-	-	-	95.918	90	PASS	PASS - GOOD
BI_2805 OS79	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	84	84	75.6 - 92.4	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2808 OS77	30	30	27 - 33	PASS	0	0.00	-	1	3.33	-	134	134	120.6 - 147.4	PASS	0	0.00	-	2.0992	2.4256	1.94048 - 2.91072	PASS	99.301	90	PASS	PASS - GOOD
BI_2808 OS78	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	179	179	161.1 - 196.9	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2808 OS79	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	155	155	139.5 - 170.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2810 OS77	7	8	7.2 - 8.8	FAIL	1	12.50	-	1	12.50	-	454	466	419.4 - 512.6	PASS	7	1.50	-	-	-	-	-	98.043	90	PASS	PASS - GOOD
BI_2810 OS78	4	4	3.6 - 4.4	PASS	0	0.00	-	0	0.00	-	372	376	338.4 - 413.6	PASS	2	0.53	-	-	-	-	-	99.465	90	PASS	PASS - GOOD
BI_2810 OS79	6	6	5.4 - 6.6	PASS	0	0.00	-	1	16.67	-	750	750	675 - 825	PASS	6	0.80	-	-	-	-	-	99.467	90	PASS	PASS - GOOD
BI_2811 OS77	45	45	40.5 - 49.5	PASS	0	0.00	-	0	0.00	-	174	174	156.6 - 191.4	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2811 OS78	33	33	29.7 - 36.3	PASS	0	0.00	-	0	0.00	-	253	253	227.7 - 278.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2811 OS79	30	30	27 - 33	PASS	0	0.00	-	0	0.00	-	136	136	122.4 - 149.6	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2812 OS77	37	37	33.3 - 40.7	PASS	0	0.00	-	1	2.70	-	105	105	94.5 - 115.5	PASS	0	0.00	-	-	-	-	-	99.057	90	PASS	PASS - GOOD
BI_2812 OS78	35	35	31.5 - 38.5	PASS	0	0.00	-	0	0.00	-	205	205	184.5 - 225.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2812 OS79	54	54	48.6 - 59.4	PASS	0	0.00	-	0	0.00	-	209	209	188.1 - 229.9	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2825 OS77	31	31	27.9 - 34.1	PASS	0	0.00	-	0	0.00	-	243	243	218.7 - 267.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2825 OS78	43	43	38.7 - 47.3	PASS	0	0.00	-	1	2.33	-	366	366	329.4 - 402.6	PASS	0	0.00	-	-	-	-	-	98.913	90	PASS	PASS - GOOD
BI_2825 OS79	69	69	62.1 - 75.9	PASS	0	0.00	-	0	0.00	-	770	769	692.1 - 845.9	PASS	0	0.00	-	-	-	-	-	99.935	90	PASS	PASS - GOOD
BI_2826 OS77	10	10	9 - 11	PASS	0	0.00	-	1	10.00	-	342	347	312.3 - 381.7	PASS	4	1.15	-	-	-	-	-	98.984	90	PASS	PASS - GOOD
BI_2826 OS78	2	2	1.8 - 2.2	PASS	0	0.00	-	0	0.00	-	3	3	2.7 - 3.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2826 OS79	13	13	11.7 - 14.3	PASS	0	0.00	-	0	0.00	-	35	35	31.5 - 38.5	PASS	1	2.86	-	-	-	-	-	97.222	90	PASS	PASS - GOOD
BI_2827 OS77	9	9	8.1 - 9.9	PASS	0	0.00	-	0	0.00	-	430	430	387 - 473	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2827 OS78	25	26	23.4 - 28.6	PASS	1	3.85	-	0	0.00	-	121	122	109.8 - 134.2	PASS	1	0.82	-	-	-	-	-	99.595	90	PASS	PASS - GOOD
BI_2827 OS79	17	17	15.3 - 18.7	PASS	0	0.00	-	0	0.00	-	30	29	26.1 - 31.9	PASS	0	0.00	-	-	-	-	-	98.361	90	PASS	PASS - GOOD
BI_2828 OS77	15	16	14.4 - 17.6	PASS	1	6.25	-	1	6.25	-	143	146	131.4 - 160.6	PASS	1	0.68	-	-	-	-	-	97.578	90	PASS	PASS - GOOD
BI_2828 OS78	25	25	22.5 - 27.5	PASS	0	0.00	-	0	0.00	-	179	188	169.2 - 206.8	PASS	9	4.79	-	-	-	-	-	97.574	90	PASS	PASS - GOOD
BI_2828 OS79	8	8	7.2 - 8.8	PASS	0	0.00	-	0	0.00	-	49	49	44.1 - 53.9	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2830 OS77	20	20	18 - 22	PASS	0	0.00	-	0	0.00	-	96	97	87.3 - 106.7	PASS	2	2.06	-	-	-	-	-	99.482	90	PASS	PASS - GOOD
BI_2830 OS78	28	28	25.2 - 30.8	PASS	0	0.00	-	0	0.00	-	51	49	44.1 - 53.9	PASS	0	0.00	-	-	-	-	-	96.429	90	PASS	PASS - GOOD
BI_2830 OS79	20	20	18 - 22	PASS	0	0.00	-	0	0.00	-	72	72	64.8 - 79.2	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2832 OS77	32	32	28.8 - 35.2	PASS	0	0.00	-	0	0.00	-	772	772	694.8 - 849.2	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2832 OS78	43	44	39.6 - 48.4	PASS	1	2.27	-	0	0.00	-	250	251	225.9 - 276.1	PASS	1	0.40	-	-	-	-	-	99.603	90	PASS	PASS - GOOD
BI_2832 OS79	37	37	33.3 - 40.7	PASS	0	0.00	-	0	0.00	-	170	170	153 - 187	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 28 Annual report, section 2.4.

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
LabCode	Estimation of Taxa							Taxonomic errors			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_2833 OS77	8	8	7.2 - 8.8	PASS	0	0.00	-	0	0.00	-	10	10	9 - 11	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2833 OS78	27	28	25.2 - 30.8	PASS	0	0.00	-	1	3.57	-	78	74	66.6 - 81.4	PASS	1	1.35	-	-	-	-	-	94.545	90	PASS	PASS - ACCEPTABLE
BI_2833 OS79	27	28	25.2 - 30.8	PASS	2	7.14	-	0	0.00	-	106	110	99 - 121	PASS	4	3.64	-	-	-	-	-	97.925	90	PASS	PASS - GOOD
BI_2834 OS77	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	77	80	72 - 88	PASS	4	5.00	-	-	-	-	-	96.855	90	PASS	PASS - GOOD
BI_2834 OS78	13	16	14.4 - 17.6	FAIL	2	12.50	-	0	0.00	-	55	62	55.8 - 68.2	FAIL	5	8.06	-	-	-	-	-	92.308	90	PASS	PASS - ACCEPTABLE
BI_2834 OS79	18	21	18.9 - 23.1	FAIL	3	14.29	Reprocess	1	4.76	-	116	165	148.5 - 181.5	FAIL	53	32.12	Reprocess	-	-	-	-	74.912	90	FAIL	FAIL - BAD
BI_2835 OS77	10	11	9.9 - 12.1	PASS	0	0.00	-	0	0.00	-	19	20	18 - 22	PASS	0	0.00	-	-	-	-	-	97.561	90	PASS	PASS - GOOD
BI_2835 OS78	11	11	9.9 - 12.1	PASS	0	0.00	-	0	0.00	-	8	8	7.2 - 8.8	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2835 OS79	13	10	9 - 11	FAIL	0	0.00	-	1	10.00	-	16	16	14.4 - 17.6	PASS	0	0.00	-	0.254	0.2258	0.18064 - 0.27096	PASS	89.362	90	FAIL	FAIL - POOR
BI_2836 OS77	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	218	214	192.6 - 235.4	PASS	1	0.47	-	0.5061	0.4684	0.37472 - 0.56208	PASS	99.074	90	PASS	PASS - GOOD
BI_2836 OS78	12	13	11.7 - 14.3	PASS	0	0.00	-	1	7.69	-	289	288	259.2 - 316.8	PASS	0	0.00	-	2.1167	1.9259	1.54072 - 2.31108	PASS	93.75	90	PASS	PASS - ACCEPTABLE
BI_2836 OS79	24	24	21.6 - 26.4	PASS	0	0.00	-	1	4.17	-	78	76	68.4 - 83.6	PASS	0	0.00	-	63.189	61.2833	49.02664 - 73.53996	PASS	97.561	90	PASS	PASS - GOOD
BI_2837 OS77	52	53	47.7 - 58.3	PASS	0	0.00	-	1	1.89	-	536	529	476.1 - 581.9	PASS	1	0.19	-	1.4639	1.3132	1.05056 - 1.57584	PASS	99.16	90	PASS	PASS - GOOD
BI_2837 OS78	43	43	38.7 - 47.3	PASS	0	0.00	-	1	2.33	-	131	129	116.1 - 141.9	PASS	0	0.00	-	0.6822	0.6822	0.54576 - 0.81864	PASS	87.313	90	FAIL	FAIL - POOR
BI_2837 OS79	90	90	81 - 99	PASS	0	0.00	-	0	0.00	-	911	912	820.8 - 1003.2	PASS	0	0.00	-	12.9123	12.1361	9.7089 - 14.56332	PASS	98.414	90	PASS	PASS - GOOD
BI_2838 OS77	18	18	16.2 - 19.8	PASS	0	0.00	-	0	0.00	-	96	94	84.6 - 103.4	PASS	0	0.00	-	0.5928	0.5441	0.43528 - 0.65292	PASS	98.958	90	PASS	PASS - GOOD
BI_2838 OS78	39	41	36.9 - 45.1	PASS	2	4.88	-	3	7.32	-	204	206	185.4 - 226.6	PASS	4	1.94	-	4.2657	4.2483	3.39864 - 5.09796	PASS	93.75	90	PASS	PASS - ACCEPTABLE
BI_2838 OS79	45	46	41.4 - 50.6	PASS	0	0.00	-	1	2.17	-	537	535	481.5 - 588.5	PASS	0	0.00	-	15.2898	13.3963	10.71704 - 16.07556	PASS	99.63	90	PASS	PASS - GOOD
BI_2839 OS77	18	18	16.2 - 19.8	PASS	0	0.00	-	0	0.00	-	106	106	95.4 - 116.6	PASS	0	0.00	-	0.1198	0.0947	0.07576 - 0.11364	FAIL	100	90	PASS	PASS - EXCELLENT
BI_2839 OS78	31	32	28.8 - 35.2	PASS	1	3.13	-	0	0.00	-	83	83	74.7 - 91.3	PASS	0	0.00	-	-	-	-	-	99.448	90	PASS	PASS - GOOD
BI_2839 OS79	24	31	27.9 - 34.1	FAIL	6	19.35	-	2	6.45	-	176	194	174.6 - 213.4	PASS	19	9.79	-	-	-	-	-	94.054	90	PASS	PASS - ACCEPTABLE
BI_2840 OS77	2	3	2.7 - 3.3	FAIL	1	33.33	Review	0	0.00	-	4	5	4.5 - 5.5	FAIL	1	20.00	Review	-	-	-	-	88.889	90	FAIL	FAIL - POOR
BI_2840 OS78	9	11	9.9 - 12.1	FAIL	1	9.09	-	0	0.00	-	18	20	18 - 22	PASS	2	10.00	-	0.0746	0.0406	0.03248 - 0.04872	FAIL	90	90	PASS	PASS - ACCEPTABLE
BI_2840 OS79	18	18	16.2 - 19.8	PASS	0	0.00	-	0	0.00	-	775	775	697.5 - 852.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2841 OS77	44	44	39.6 - 48.4	PASS	0	0.00	-	2	4.55	-	156	158	142.2 - 173.8	PASS	2	1.27	-	7.0795	7.0803	5.66424 - 8.49636	PASS	97.714	90	PASS	PASS - GOOD
BI_2841 OS78	27	27	24.3 - 29.7	PASS	0	0.00	-	0	0.00	-	170	170	153 - 187	PASS	0	0.00	-	0.0111	0.0104	0.00832 - 0.01248	PASS	100	90	PASS	PASS - EXCELLENT
BI_2841 OS79	29	29	26.1 - 31.9	PASS	0	0.00	-	0	0.00	-	113	114	102.6 - 125.4	PASS	0	0.00	-	0.0445	0.0409	0.03272 - 0.04908	PASS	99.574	90	PASS	PASS - GOOD
BI_2842 OS77	32	36	32.4 - 39.6	FAIL	4	11.11	-	3	8.33	-	59	63	56.7 - 69.3	PASS	6	9.52	-	6.4694	5.6238	4.49904 - 6.74856	PASS	90.164	90	PASS	PASS - ACCEPTABLE
BI_2842 OS78	108	111	99.9 - 122.1	PASS	4	3.60	-	1	0.90	-	751	792	712.8 - 871.2	PASS	54	6.82	-	8.0992	24.4055	19.5244 - 29.2866	FAIL	96.61	90	PASS	PASS - GOOD
BI_2843 OS77	29	29	26.1 - 31.9	PASS	0	0.00	-	0	0.00	-	293	291	261.9 - 320.1	PASS	0	0.00	-	4.8939	5.516	4.4128 - 6.6192	PASS	99.322	90	PASS	PASS - GOOD
BI_2843 OS78	30	29	26.1 - 31.9	PASS	0	0.00	-	0	0.00	-	249	245	220.5 - 269.5	PASS	0	0.00	-	36.8106	25.299	20.2392 - 30.3588	FAIL	98.805	90	PASS	PASS - GOOD
BI_2843 OS79	42	43	38.7 - 47.3	PASS	1	2.33	-	0	0.00	-	422	427	384.3 - 469.7	PASS	2	0.47	-	30.232	29.1516	23.32128 - 34.98192	PASS	99.183	90	PASS	PASS - GOOD
BI_2844 OS77	25	25	22.5 - 27.5	PASS	0	0.00	-	0	0.00	-	1392	1374	1236.6 - 1511.4	PASS	3	0.22	-	14.0978	12.6605	10.1284 - 15.1926	PASS	99.35	90	PASS	PASS - GOOD
BI_2844 OS78	24	25	22.5 - 27.5	PASS	0	0.00	-	1	4.00	-	498	499	449.1 - 548.9	PASS	0	0.00	-	32.2523	31.7126	25.37008 - 38.05512	PASS	99.7	90	PASS	PASS - GOOD
BI_2844 OS79	70	72	64.8 - 79.2	PASS	0	0.00	-	3	4.17	-	656	666	599.4 - 732.6	PASS	2	0.30	-	1.015	1.1015	0.8812 - 1.3218	PASS	98.42	90	PASS	PASS - GOOD
BI_2845 OS77	38	45	40.5 - 49.5	FAIL	6	13.33	Reprocess	1	2.22	-	143	173	155.7 - 190.3	FAIL	33	19.08	Reprocess	3.1119	2.2427	1.79416 - 2.69124	FAIL	88.485	90	FAIL	FAIL - POOR
BI_2845 OS78	11	11	9.9 - 12.1	PASS	0	0.00	-	0	0.00	-	274	275	247.5 - 302.5	PASS	1	0.36	-	0.1509	0.1465	0.1172 - 0.1758	PASS	99.819	90	PASS	PASS - GOOD
BI_2845 OS79	17	17	15.3 - 18.7	PASS	0	0.00	-	0	0.00	-	526	526	473.4 - 578.6	PASS	0	0.00	-	16.8025	16.8207	13.45656 - 20.18484	PASS	100	90	PASS	PASS - EXCELLENT
BI_2846 OS77	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	84	84	75.6 - 92.4	PASS	0	0.00	-	10.1898	10.9327	8.74616 - 13.11924	PASS	100	90	PASS	PASS - EXCELLENT
BI_2846 OS78	19	19	17.1 - 20.9	PASS	0	0.00	-	0	0.00	-	437	427	384.3 - 469.7	PASS	0	0.00	-	79.7393	84.7946	67.83568 - 101.75352	PASS	98.851	90	PASS	PASS - GOOD
BI_2846 OS79	13	13	11.7 - 14.3	PASS	0	0.00	-	0	0.00	-	104	104	93.6 - 114.4	PASS	0	0.00	-	45.4668	47.9675	38.374 - 57.561	PASS	100	90	PASS	PASS - EXCELLENT

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 (OS77-79).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2801	OS77	AD count	16	903	8	-	222	639	51	50	1889
		Missed	0	30	0	-	1	15	0	2	48
		%missed	0.0	3.3	0.0	-	0.5	2.3	0.0	4.0	2.5
	OS78	AD count	-	16	-	-	15	31	30	1	93
		Missed	-	0	-	-	0	1	3	0	4
		%missed	-	0.0	-	-	0.0	3.2	10.0	0.0	4.3
	OS79	AD count	1	103	8	-	511	163	6	81	873
		Missed	0	0	0	-	1	7	0	0	8
		%missed	0.0	0.0	0.0	-	0.2	4.3	0.0	0.0	0.9
BI_2803	OS77	AD count	-	29	-	-	9	3	11	-	52
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS78	AD count	-	25	-	-	15	2	2	18	62
		Missed	-	1	-	-	0	0	0	1	2
		%missed	-	4.0	-	-	0.0	0.0	0.0	5.6	3.2
	OS79	AD count	1	18	-	-	11	1	2	-	33
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_2804	OS77	AD count	-	21	1	-	-	2	-	6	30
		Missed	-	3	0	-	-	0	-	2	5
		%missed	-	14.3	0.0	-	-	0.0	-	33.3	16.7
	OS78	AD count	16	65	62	-	12	8	1	4	168
		Missed	2	19	29	-	12	4	1	2	69
		%missed	12.5	29.2	46.8	-	100.0	50.0	100.0	50.0	41.1
	OS79	AD count	-	1	-	-	2	2	-	1	6
		Missed	-	0	-	-	1	0	-	0	1
		%missed	-	0.0	-	-	50.0	0.0	-	0.0	16.7
BI_2805	OS77	AD count	-	4	-	-	1	5	1	1	12
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS78	AD count	2	92	1	-	10	28	5	8	146
		Missed	0	3	1	-	2	1	0	1	8
		%missed	0.0	3.3	100.0	-	20.0	3.6	0.0	12.5	5.5
	OS79	AD count	1	27	-	-	-	51	5	-	84
		Missed	0	0	-	-	-	0	0	-	0
		%missed	0.0	0.0	-	-	-	0.0	0.0	-	0.0
BI_2808	OS77	AD count	3	41	30	-	5	3	-	52	134
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS78	AD count	-	73	25	-	19	1	-	61	179
		Missed	-	0	0	-	0	0	-	0	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS79	AD count	-	70	-	-	29	54	-	2	155
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_2810	OS77	AD count	-	272	23	-	-	2	-	169	466
		Missed	-	1	0	-	-	1	-	5	7
		%missed	-	0.4	0.0	-	-	50.0	-	3.0	1.5
	OS78	AD count	-	118	-	-	2	-	-	256	376
		Missed	-	1	-	-	0	-	-	1	2
		%missed	-	0.8	-	-	0.0	-	-	0.4	0.5
	OS79	AD count	-	744	-	-	4	-	-	2	750
		Missed	-	6	-	-	0	-	-	0	6
		%missed	-	0.8	-	-	0.0	-	-	0.0	0.8

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS77-79).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2811	OS77	AD count	1	55	-	-	30	49	37	2	174
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS78	AD count	4	172	-	-	8	44	23	2	253
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS79	AD count	-	12	-	-	30	73	21	-	136
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_2812	OS77	AD count	1	60	-	-	3	27	11	3	105
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS78	AD count	-	148	-	-	9	19	25	4	205
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS79	AD count	2	128	4	-	11	42	17	5	209
		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_2825	OS77	AD count	4	214	-	-	2	13	1	9	243
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS78	AD count	4	277	-	-	14	52	2	17	366
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS79	AD count	18	619	-	-	22	83	13	14	769
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
BI_2826	OS77	AD count	-	37	36	-	272	1	-	1	347
		Missed	-	3	0	-	1	0	-	0	4
		%missed	-	8.1	0.0	-	0.4	0.0	-	0.0	1.2
	OS78	AD count	-	3	-	-	-	-	-	-	3
		Missed	-	0	-	-	-	-	-	-	0
		%missed	-	0.0	-	-	-	-	-	-	0.0
	OS79	AD count	9	6	8	-	8	3	-	1	35
		Missed	0	0	0	-	1	0	-	0	1
		%missed	0.0	0.0	0.0	-	12.5	0.0	-	0.0	2.9
BI_2827	OS77	AD count	-	320	88	-	-	-	-	22	430
		Missed	-	0	0	-	-	-	-	0	0
		%missed	-	0.0	0.0	-	-	-	-	0.0	0.0
	OS78	AD count	2	19	-	-	5	91	3	2	122
		Missed	0	0	-	-	1	0	0	0	1
		%missed	0.0	0.0	-	-	20.0	0.0	0.0	0.0	0.8
	OS79	AD count	-	8	-	-	-	15	6	-	29
		Missed	-	0	-	-	-	0	0	-	0
		%missed	-	0.0	-	-	-	0.0	0.0	-	0.0
BI_2828	OS77	AD count	1	82	-	-	62	1	-	-	146
		Missed	0	1	-	-	0	0	-	-	1
		%missed	0.0	1.2	-	-	0.0	0.0	-	-	0.7
	OS78	AD count	1	65	19	-	3	99	-	1	188
		Missed	0	0	0	-	0	9	-	0	9
		%missed	0.0	0.0	0.0	-	0.0	9.1	-	0.0	4.8
	OS79	AD count	-	42	5	-	-	2	-	-	49
		Missed	-	0	0	-	-	0	-	-	0
		%missed	-	0.0	0.0	-	-	0.0	-	-	0.0
BI_2830	OS77	AD count	-	60	-	-	15	21	1	-	97
		Missed	-	2	-	-	0	0	0	-	2
		%missed	-	3.3	-	-	0.0	0.0	0.0	-	2.1
	OS78	AD count	-	10	-	-	8	27	3	1	49
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS79	AD count	-	24	-	-	8	36	2	2	72
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS77-79).

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2832	OS77	AD count	1	655	-	-	32	80	-	4	772
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS78	AD count	9	84	-	-	9	107	-	42	251
		Missed	0	0	-	-	0	1	-	0	1
		%missed	0.0	0.0	-	-	0.0	0.9	-	0.0	0.4
	OS79	AD count	8	42	-	-	7	94	-	19	170
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_2833	OS77	AD count	-	7	-	-	3	-	-	-	10
		Missed	-	0	-	-	0	-	-	-	0
		%missed	-	0.0	-	-	0.0	-	-	-	0.0
	OS78	AD count	-	51	-	-	2	14	-	7	74
		Missed	-	1	-	-	0	0	-	0	1
		%missed	-	2.0	-	-	0.0	0.0	-	0.0	1.4
	OS79	AD count	1	14	-	-	76	9	-	10	110
		Missed	0	2	-	-	2	0	-	0	4
		%missed	0.0	14.3	-	-	2.6	0.0	-	0.0	3.6
BI_2834	OS77	AD count	-	71	2	-	-	7	-	-	80
		Missed	-	2	1	-	-	1	-	-	4
		%missed	-	2.8	50.0	-	-	14.3	-	-	5.0
	OS78	AD count	4	24	-	-	30	1	-	3	62
		Missed	0	0	-	-	5	0	-	0	5
		%missed	0.0	0.0	-	-	16.7	0.0	-	0.0	8.1
	OS79	AD count	-	32	33	-	6	94	-	-	165
		Missed	-	1	2	-	5	45	-	-	53
		%missed	-	3.1	6.1	-	83.3	47.9	-	-	32.1
BI_2835	OS77	AD count	1	5	-	-	5	8	-	1	20
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS78	AD count	-	6	-	-	1	1	-	-	8
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
	OS79	AD count	-	5	-	-	10	-	-	1	16
		Missed	-	0	-	-	0	-	-	0	0
		%missed	-	0.0	-	-	0.0	-	-	0.0	0.0
BI_2836	OS77	AD count	-	37	18	-	1	142	-	16	214
		Missed	-	0	0	-	0	1	-	0	1
		%missed	-	0.0	0.0	-	0.0	0.7	-	0.0	0.5
	OS78	AD count	1	1	37	-	-	231	-	18	288
		Missed	0	0	0	-	-	0	-	0	0
		%missed	0.0	0.0	0.0	-	-	0.0	-	0.0	0.0
	OS79	AD count	-	41	-	-	14	19	-	2	76
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_2837	OS77	AD count	23	394	-	-	37	64	4	7	529
		Missed	0	1	-	-	0	0	0	0	1
		%missed	0.0	0.3	-	-	0.0	0.0	0.0	0.0	0.2
	OS78	AD count	15	20	2	-	37	49	1	5	129
		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
	OS79	AD count	14	631	4	1	78	164	2	18	912
		Missed	0	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	0.0
BI_2838	OS77	AD count	1	52	-	-	11	21	9	-	94
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS78	AD count	2	113	-	-	24	44	5	18	206
		Missed	0	3	-	-	0	0	0	1	4
		%missed	0.0	2.7	-	-	0.0	0.0	0.0	5.6	1.9
	OS79	AD count	5	371	-	-	2	140	10	7	535
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS77-79).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2839	OS77	AD count	-	69	12	1	12	12	-	-	106
		Missed	-	0	0	0	0	0	0	0	0
		%missed	-	0.0	0.0	0.0	0.0	0.0	0.0	-	-
	OS78	AD count	-	63	-	-	1	17	1	1	83
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS79	AD count	3	121	-	-	2	41	20	7	194
		Missed	0	4	-	-	1	11	3	0	19
		%missed	0.0	3.3	-	-	50.0	26.8	15.0	0.0	9.8
BI_2840	OS77	AD count	-	1	-	-	4	-	-	-	5
		Missed	-	0	-	-	1	-	-	-	1
		%missed	-	0.0	-	-	25.0	-	-	-	20.0
	OS78	AD count	-	10	-	-	6	4	-	-	20
		Missed	-	0	-	-	1	1	-	-	2
		%missed	-	0.0	-	-	16.7	25.0	-	-	10.0
	OS79	AD count	4	359	224	-	10	176	-	2	775
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
BI_2841	OS77	AD count	11	30	1	-	74	14	-	28	158
		Missed	0	0	0	-	0	2	-	0	2
		%missed	0.0	0.0	0.0	-	0.0	14.3	-	0.0	1.3
	OS78	AD count	30	81	-	-	23	1	-	35	170
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS79	AD count	2	43	7	-	25	9	-	28	114
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
BI_2842	OS77	AD count	1	28	2	-	13	9	1	9	63
		Missed	0	0	1	-	0	3	0	2	6
		%missed	0.0	0.0	50.0	-	0.0	33.3	0.0	22.2	9.5
	OS78	AD count	5	264	2	-	48	254	4	215	792
		Missed	0	26	1	-	2	12	0	13	54
		%missed	0.0	9.8	50.0	-	4.2	4.7	0.0	6.0	6.8
BI_2843	OS77	AD count	8	155	-	-	42	83	-	3	291
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS78	AD count	6	152	-	-	64	21	2	-	245
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
OS79	AD count	32	222	6	-	16	135	2	14	427	
	Missed	0	0	0	-	0	2	0	0	2	
	%missed	0.0	0.0	0.0	-	0.0	1.5	0.0	0.0	0.5	
BI_2844	OS77	AD count	-	28	-	-	38	1304	-	4	1374
		Missed	-	0	-	-	1	2	-	0	3
		%missed	-	0.0	-	-	2.6	0.2	-	0.0	0.2
	OS78	AD count	2	23	216	-	135	116	-	7	499
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS79	AD count	15	364	-	-	69	136	62	20	666
		Missed	0	0	-	-	0	2	0	0	2
		%missed	0.0	0.0	-	-	0.0	1.5	0.0	0.0	0.3
BI_2845	OS77	AD count	3	80	9	-	17	62	-	2	173
		Missed	0	5	3	-	5	18	-	2	33
		%missed	0.0	6.3	33.3	-	29.4	29.0	-	100.0	19.1
	OS78	AD count	-	228	-	-	30	17	-	-	275
		Missed	-	0	-	-	0	1	-	-	1
		%missed	-	0.0	-	-	0.0	5.9	-	-	0.4
	OS79	AD count	-	336	56	-	114	20	-	-	526
		Missed	-	0	0	-	0	0	-	-	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	-	0.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS77-79).

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2846	OS77	AD count	-	66	-	-	10	8	-	-	84
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
	OS78	AD count	9	167	-	-	34	199	-	18	427
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS79	AD count	-	26	-	-	60	18	-	-	104
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0

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 (OS77 - 79) (erroneous identifications in brackets).

LabCode / Smp.	Taxonomic		Major Taxonomic Group					
	Errors		Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2801	OS77	0	-	-	-	-	-	-
	OS78	2	<i>Nephtys hombergii</i> (<i>Nephtys kersivalensis</i>)	-	<i>Bathyporeia elegans</i> (<i>Bathyporeia sarsi</i>)	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2803	OS77	1	-	-	<i>Pontocrates moorei</i> (<i>Pontocrates arenarius</i>)	-	-	-
	OS78	1	<i>Glycera oxycephala</i> (<i>Glycera lapidum</i>)	-	-	-	-	-
	OS79	2	-	-	<i>Pontocrates moorei</i> (<i>Pontocrates arenarius</i>)	-	-	Nemertea (Sipuncula)
BI_2804	OS77	0	-	-	-	-	-	-
	OS78	1	<i>Protodorvillea kefersteini</i> (<i>Schistomerings neglecta</i>)	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2805	OS77	0	-	-	-	-	-	-
	OS78	1	-	-	-	<i>Antalis vulgaris</i> (<i>Antalis entalis</i>)	-	-
	OS79	0	-	-	-	-	-	-
BI_2808	OS77	1	-	-	-	-	-	Animalia fragment (Hildenbrandiaceae)
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2810	OS77	1	<i>Coulleriella species C</i> (<i>Chaetozone christiei</i>)	-	-	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	1	<i>Spirobranchus lamarcki</i> (<i>Pomatoceros triqueter</i>)	-	-	-	-	-
BI_2811	OS77	0	-	-	-	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2812	OS77	1	-	-	-	<i>Cyrellia aequalis</i> (<i>Cyrellia linearis</i>)	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2825	OS77	0	-	-	-	-	-	-
	OS78	1	-	-	-	<i>Philine</i> (Golfingiidae)	-	-
	OS79	0	-	-	-	-	-	-
BI_2826	OS77	1	-	-	-	<i>Mulinia lateralis</i> (<i>Spisula subtruncata</i>)	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2827	OS77	0	-	-	-	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2828	OS77	1	-	-	<i>Pontocrates moorei</i> (<i>Pontocrates altamarinus</i>)	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2830	OS77	0	-	-	-	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2832	OS77	0	-	-	-	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	0	-	-	-	-	-	-
BI_2833	OS77	0	-	-	-	-	-	-
	OS78	1	-	-	-	-	-	Electridae (<i>Callopora dumerilii</i>)
	OS79	0	-	-	-	-	-	-
BI_2834	OS77	0	-	-	-	-	-	-
	OS78	0	-	-	-	-	-	-
	OS79	1	<i>Aphelochaeta marioni</i> sensu MarLIN (<i>Tharyx robustus</i>)	-	-	-	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS77 - 79) (erroneous identifications in brackets).

LabCode / Smp.	Taxonomic Errors	Major Taxonomic Group					
		Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2835	OS77	0	-	-	-	-	-
	OS78	0	-	-	-	-	-
	OS79	1	-	-	-	-	Rhodothamniella (CHLOROPHYTA)
BI_2836	OS77	0	-	-	-	-	-
	OS78	1	-	<i>Tubificoides benedii</i> (Enchytraeidae)	-	-	-
	OS79	1	-	-	<i>Bathyporeia elegans</i> (<i>Bathyporeia gracilis</i>)	-	-
BI_2837	OS77	1	-	-	-	-	<i>Acrocnida brachiata</i> (<i>Amphipholis squamata</i>)
	OS78	1	-	-	<i>Bathyporeia guilliamsoniana</i> (<i>Bathyporeia pelagica</i>)	-	-
	OS79	0	-	-	-	-	-
BI_2838	OS77	0	-	-	-	-	-
	OS78	3	<i>Syllis pontxioi</i> (<i>Syllis licheri</i>)	-	-	-	RHODOPHYTA (CHLOROPHYTA)
	OS79	1	-	-	-	<i>Dosinia Juvenile</i> (<i>Chamelea striatula</i>)	Sphacelaria (RHODOPHYTA)
BI_2839	OS77	0	-	-	-	-	-
	OS78	0	-	-	-	-	-
	OS79	2	-	-	-	<i>Abra nitida</i> (<i>Abra alba</i>)	<i>Phoronis</i> (<i>Owenia</i>)
BI_2840	OS77	0	-	-	-	-	-
	OS78	0	-	-	-	-	-
	OS79	0	-	-	-	-	-
BI_2841	OS77	2	<i>Streptosyllis bidentata</i> (<i>Streptosyllis campoyi</i>)	-	-	-	Ulva (Rhodophyta)
	OS78	0	-	-	-	-	-
	OS79	0	-	-	-	-	-
BI_2842	OS77	3	<i>Chaetozone elakata</i> (<i>Chaetozone christiei</i>)	-	<i>Pseudocuma simile</i> (<i>Monopseudocuma gilsoni</i>)	-	<i>Ammodytes marinus</i> (<i>Ammodytes tobianus</i>)
	OS78	1	<i>Eulalia mustela</i> (<i>Eulalia tripunctata</i>)	-	-	-	-
BI_2843	OS77	0	-	-	-	-	-
	OS78	0	-	-	-	-	-
	OS79	0	-	-	-	-	-
BI_2844	OS77	0	-	-	-	-	-
	OS78	1	-	<i>Baltidrilus costatus</i> (<i>Tubificoides pseudogaster</i> Agg)	-	-	-
	OS79	3	<i>Aricidea catherinae</i> (<i>Aricidea</i> (<i>Acmira</i>) <i>laubieri</i>) <i>Spio goniocephala</i> (<i>Spio symphyta</i> /aff. <i>decorata</i>)	-	-	-	<i>Cerebratulus</i> + <i>Thysanocardia procera</i> (POLYCHAETA Fragment)
BI_2845	OS77	1	-	-	-	-	<i>Walkeria ulva</i> + <i>Campanulariidae</i> (<i>Amathia</i>)
	OS78	0	-	-	-	-	-
	OS79	0	-	-	-	-	-
BI_2846	OS77	0	-	-	-	-	-
	OS78	0	-	-	-	-	-
	OS79	0	-	-	-	-	-
TOTAL	39	12	2	7	6	1	11
% Error		31	5	18	15	3	28

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

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 OS77-OS79.

		OS77								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2801	OD	0.4234	6.1626	0.0003	-	0.5905	3.8344	2.1139	0.3748	13.4999
	AD	0.3820	5.7063	0.0002	-	0.5523	3.6051	2.0998	0.3368	12.6825
	%diff.	9.78	7.40	33.33	-	6.47	5.98	0.67	10.14	6.05
BI_2803	OD	-	0.4473	-	-	0.0608	2.2023	49.1204	-	51.8308
	AD	-	0.2771	-	-	0.0412	2.0288	32.3188	-	34.6659
	%diff.	-	38.05	-	-	32.24	7.88	34.20	-	33.12
BI_2804	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2805	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2808	OD	0.0001	0.2104	0.0011	-	0.0016	0.0006	-	1.8854	2.0992
	AD	0.0001	0.2471	0.0007	-	0.0018	0.0005	-	2.1754	2.4256
	%diff.	0.0000	-17.4430	36.3636	-	-12.5000	16.6667	-	-15.3814	-15.5488
BI_2835	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2836	OD	-	0.4340	0.0049	-	0.0001	0.0437	-	0.0234	0.5061
	AD	-	0.3863	0.0048	-	0.0001	0.0566	-	0.0206	0.4684
	%diff.	-	10.9908	2.0408	-	0.0000	-29.5195	-	11.9658	7.45
BI_2837	OD	0.1823	0.3668	-	-	0.0396	0.8485	0.0241	0.0026	1.4639
	AD	0.1439	0.2826	-	-	0.0339	0.8319	0.0187	0.0022	1.3132
	%diff.	21.06	22.96	-	-	14.39	1.96	22.41	15.38	10.29
BI_2838	OD	0.0001	0.2561	-	-	0.0096	0.3161	0.0109	-	0.5928
	AD	0.0001	0.2163	-	-	0.0051	0.3139	0.0087	-	0.5441
	%diff.	0.00	15.54	-	-	46.88	0.70	20.18	-	8.22
BI_2839	OD	-	0.0875	0.0021	0.0001	0.0092	0.0209	-	-	0.1198
	AD	-	0.0657	0.0007	0.0001	0.0060	0.0222	-	-	0.0947
	%diff.	-	24.91	66.67	0.00	34.78	-6.22	-	-	20.95
BI_2840	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2841	OD	0.0460	0.0976	0.0001	-	0.0064	0.0016	-	6.9278	7.0795
	AD	0.0472	0.0958	0.0001	-	0.0050	0.0016	-	6.9306	7.0803
	%diff.	-2.61	1.84	0.00	-	21.88	0.00	-	-0.04	-0.01
BI_2842	OD	0.0146	0.2331	0.0001	-	0.0044	2.6153	0.2023	3.3996	6.4694
	AD	0.0118	0.1218	0.0001	-	0.0028	2.4435	0.0829	2.9609	5.6238
	%diff.	19.18	47.75	0.00	-	36.36	6.57	59.02	12.90	13.07
BI_2843	OD	0.0592	0.5377	-	-	0.0031	2.0594	2.2335	0.0010	4.8939
	AD	0.0474	0.3689	-	-	0.0053	2.0312	3.0615	0.0017	5.5160
	%diff.	19.93	31.39	-	-	-70.97	1.37	-37.07	-70.00	-12.71
BI_2844	OD	-	0.0187	-	-	0.0508	14.0278	-	0.0005	14.0978
	AD	-	0.0135	-	-	0.0446	12.6020	-	0.0004	12.6605
	%diff.	-	27.81	-	-	12.20	10.16	-	20.00	10.20
BI_2845	OD	0.0034	0.7774	0.0001	-	0.7805	1.1911	0.3594	-	3.1119
	AD	0.0020	0.4004	0.0001	-	0.3583	1.1557	0.3262	-	2.2427
	%diff.	41.18	48.49	0.00	-	54.09	2.97	9.24	-	27.93
BI_2846	OD	-	0.1152	-	-	0.0196	10.0550	-	-	10.1898
	AD	-	0.1187	-	-	0.0189	10.7951	-	-	10.9327
	%diff.	-	-3.04	-	-	3.57	-7.36	-	-	-7.29

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 OS77-OS79.

		OS78								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2801	OD	-	0.0920	-	-	0.0065	0.4476	0.0484	0.3845	0.9790
	AD	-	0.0920	-	-	0.0042	0.4610	0.0460	0.3586	0.9618
	%diff.	-	0.00	-	-	35.38	-2.99	4.96	6.74	1.76
BI_2803	OD	0.0056	0.7635	-	-	0.1727	0.0008	0.0084	0.0254	0.9764
	AD	0.0030	0.3757	-	-	0.1154	0.0003	0.0078	0.0178	0.5200
	%diff.	46.43	50.79	-	-	33.18	62.50	7.14	29.92	46.74
BI_2804	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2805	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2808	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2835	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2836	OD	0.3656	0.0002	0.0221	-	-	1.7029	-	0.0259	2.1167
	AD	0.2612	0.0002	0.0108	-	-	1.6346	-	0.0191	1.9259
	%diff.	28.5558	0.0000	51.1312	-	-	4.0108	-	26.2548	9.01
BI_2837	OD	0.0066	0.1829	0.0001	-	0.0570	0.4343	0.0012	0.0001	0.6822
	AD	0.0066	0.1829	0.0001	-	0.0570	0.4343	0.0012	0.0001	0.6822
	%diff.	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
BI_2838	OD	0.0059	0.1086	-	-	0.8478	3.1907	0.1039	0.0088	4.2657
	AD	0.0063	0.1150	-	-	0.8067	3.1853	0.1276	0.0074	4.2483
	%diff.	-6.78	-5.89	-	-	4.85	0.17	-22.81	15.91	0.41
BI_2839	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2840	OD	-	0.0630	-	-	0.0048	0.0068	-	-	0.0746
	AD	-	0.0295	-	-	0.0039	0.0072	-	-	0.0406
	%diff.	-	53.17	-	-	18.75	-5.88	-	-	45.58
BI_2841	OD	0.0045	0.0050	-	-	0.0011	0.0001	-	0.0004	0.0111
	AD	0.0041	0.0047	-	-	0.0010	0.0002	-	0.0004	0.0104
	%diff.	8.89	6.00	-	-	9.09	-100.00	-	0.00	6.31
BI_2842	OD	0.0168	0.9070	0.0003	-	0.1191	7.0456	0.0086	0.0018	8.0992
	AD	0.0160	0.7432	0.0001	-	0.0879	23.5505	0.0063	0.0015	24.4055
	%diff.	4.76	18.06	66.67	-	26.20	-234.26	26.74	16.67	-201.33
BI_2843	OD	0.0015	0.6029	-	-	0.0166	5.7780	30.4116	-	36.8106
	AD	0.0008	0.4845	-	-	0.0164	5.5697	19.2276	-	25.2990
	%diff.	46.67	19.64	-	-	1.20	3.61	36.78	-	31.27
BI_2844	OD	0.0056	0.2673	0.0990	-	0.1692	31.7110	-	0.0002	32.2523
	AD	0.0060	0.2787	0.0949	-	0.1255	31.2073	-	0.0002	31.7126
	%diff.	-7.14	-4.26	4.14	-	25.83	1.59	-	0.00	1.67
BI_2845	OD	-	0.0589	-	-	0.0747	0.0173	-	-	0.1509
	AD	-	0.0566	-	-	0.0725	0.0174	-	-	0.1465
	%diff.	-	3.90	-	-	2.95	-0.58	-	-	2.92
BI_2846	OD	0.0080	0.0708	-	-	0.1101	79.5503	-	0.0001	79.7393
	AD	0.0077	0.0623	-	-	0.1159	84.6086	-	0.0001	84.7946
	%diff.	3.75	12.01	-	-	-5.27	-6.36	-	0.00	-6.34

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 OS77-OS79.

		OS79								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2801	OD	0.0030	33.3731	0.0003	-	0.1371	0.6430	0.0011	0.0382	34.1958
	AD	0.0024	0.3678	0.0003	-	0.1331	0.6342	0.0008	0.0322	1.1708
	%diff.	20.00	98.90	0.00	-	2.92	1.37	27.27	15.71	96.58
BI_2803	OD	0.0092	0.9002	-	-	0.0115	0.0002	31.9370	-	32.8581
	AD	0.0054	0.5289	-	-	0.0064	0.0001	21.2947	-	21.8355
	%diff.	41.30	41.25	-	-	44.35	50.00	33.32	-	33.55
BI_2804	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2805	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2808	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2835	OD	-	0.1445	-	-	0.1087	-	-	0.0008	0.2540
	AD	-	0.1229	-	-	0.1028	-	-	0.0001	0.2258
	%diff.	-	14.9481	-	-	5.4278	-	-	87.5000	11.10
BI_2836	OD	-	0.2388	0.0001	-	0.0088	62.9409	-	0.0004	63.1890
	AD	-	0.1569	0.0001	-	0.0070	61.1190	-	0.0003	61.2833
	%diff.	-	34.2965	0.0000	-	20.4545	2.8946	-	25.0000	3.02
BI_2837	OD	0.1450	2.4633	0.0001	0.0001	0.0350	9.8885	0.1257	0.2546	12.9123
	AD	0.1239	1.9869	0.0001	0.0001	0.0178	9.6616	0.1187	0.2270	12.1361
	%diff.	14.55	19.34	0.00	0.00	49.14	2.29	5.57	10.84	6.01
BI_2838	OD	0.0137	8.0381	-	-	0.0025	5.2773	1.9300	0.0282	15.2898
	AD	0.0102	6.4916	-	-	0.0015	5.1831	1.6901	0.0198	13.3963
	%diff.	25.55	19.24	-	-	40.00	1.79	12.43	29.79	12.38
BI_2839	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2840	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2841	OD	0.0144	0.0217	0.0001	-	0.0022	0.0059	-	0.0002	0.0445
	AD	0.0137	0.0199	0.0001	-	0.0020	0.0050	-	0.0002	0.0409
	%diff.	4.86	8.29	0.00	-	9.09	15.25	-	0.00	8.09
BI_2842	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2843	OD	0.0718	2.4665	0.0001	-	0.0035	27.6634	0.0011	0.0256	30.2320
	AD	0.0536	2.2858	0.0001	-	0.0021	26.7929	0.0005	0.0166	29.1516
	%diff.	25.35	7.33	0.00	-	40.00	3.15	54.55	35.16	3.57
BI_2844	OD	0.0104	0.5288	-	-	0.0125	0.3958	0.0568	0.0107	1.0150
	AD	0.0085	0.4910	-	-	0.0129	0.3950	0.0613	0.1328	1.1015
	%diff.	18.27	7.15	-	-	-3.20	0.20	-7.92	-1141.12	-8.52
BI_2845	OD	-	0.2065	0.0095	-	0.0498	16.5367	-	-	16.8025
	AD	-	0.2081	0.0072	-	0.0453	16.5601	-	-	16.8207
	%diff.	-	-0.77	24.21	-	9.04	-0.14	-	-	-0.11
BI_2846	OD	-	0.0739	-	-	0.0398	45.3531	-	-	45.4668
	AD	-	0.0773	-	-	0.0365	47.8537	-	-	47.9675
	%diff.	-	-4.60	-	-	8.29	-5.51	-	-	-5.50

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 2021/22 (OS01-79).

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
	Total	1616	300	84

* - Own Samples selected from completed data matrices
 BCSI - Bray Curtis Similarity Index (untransformed)