NMBAQC
The National Marine Biological Analytical Quality Control Scheme

Own Sample Module Summary Report

Benthic Invertebrate Component - 2014/15

OS56, 57 and 58

October 2015

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APEM

MODULE / EXERCISE DETAILS

Module:	Own Sample (OS)
Exercises:	OS56, 57 and 58
Data/Sample Request Circulated:	15th September 2014
Sample Submission Deadline:	31st October 2014
Number of Subscribing Laboratories:	32
Number of Own Samples Received:	93

Contents

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
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
Lab Code	OD	AD	Target	Flag	Missed	% Missed	Remedial Action	AD	%	Remedial Action	OD	AD	Target	Flag	Missed	% Missed	Remedial Action	OD	AD	Target	Flag	BCSI %	Target	Flag	NMBAQC Sample Flag
OS56 BI_2101	1	1	0.9 - 1.1	PASS	0	0.00	-	0	0.00	-	1	1	0.9 - 1.1	PASS	0	0.00	-	0.0005	0.0002	0.00016 - 0.00024	FAIL	100	90	PASS	PASS - EXCELLENT
OS57 BI_2101	5	6	5.4 - 6.6	FAIL	0	0.00	-	0	0.00	-	58	58	52.2 - 63.8	PASS	0	0.00	-	0.1559	0.1544	0.12352 - 0.18528	PASS	99.145	90	PASS	PASS - GOOD
OS58 BI_2101	24	26	23.4 - 28.6	PASS	0	0.00	-	3	11.54	-	111	114	102.6 - 125.4	PASS	1	0.88	-	13.1776	12.4912	9.99296 - 14.98944	PASS	95.547	90	PASS	PASS - GOOD
OS56 BI_2103	1	1	0.9 - 1.1	PASS	0	0.00	-	0	0.00	-	1	1	0.9 - 1.1	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS57 BI_2103	6	6	5.4 - 6.6	PASS	0	0.00	-	0	0.00	-	21	21	18.9 - 23.1	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS58 BI_2103	2	3	2.7 - 3.3	FAIL	1	33.33	-	0	0.00	-	10	11	9.9 - 12.1	PASS	1	9.09	-	-	-	-	-	95.238	90	PASS	PASS - GOOD
OS56 BI_2104	16	17	15.3 - 18.7	PASS	1	5.88	-	0	0.00	-	97	106	95.4 - 116.6	PASS	8	7.55	-	20.1385	15.5929	12.47432 - 18.71148	FAIL	95.567	90	PASS	PASS - GOOD
OS57 BI_2104	31	33	29.7 - 36.3	PASS	1	3.03	-	1	3.03	-	335	337	303.3 - 370.7	PASS	1	0.30	-	6.70576	5.8496	4.67968 - 7.01952	PASS	99.112	90	PASS	PASS - GOOD
OS58 BI_2104	33	34	30.6 - 37.4	PASS	0	0.00	-	6	17.65	-	136	137	123.3 - 150.7	PASS	1	0.73	-	10.6591	7.8591	6.28728 - 9.43092	FAIL	91.367	90	PASS	PASS - ACCEPTABLE
OS56 BI_2105	92	93	83.7 - 102.3	PASS	3	3.23	-	9	9.68	-	816	810	729 - 891	PASS	15	1.85	-	-	-	-	-	92.131	90	PASS	PASS - ACCEPTABLE
OS57 BI_2105	79	86	77.4 - 94.6	PASS	4	4.65	-	7	8.14	-	741	779	701.1 - 856.9	PASS	50	6.42	-	-	-	-	-	91.688	90	PASS	PASS - ACCEPTABLE
OS58 BI_2105	67	75	67.5 - 82.5	FAIL	4	5.33	-	7	9.33	-	1991	2145	1930.5 - 2359.5	PASS	155	7.23	-	-	-	-	-	95.302	90	PASS	PASS - GOOD
OS56 BI_2106	66	83	74.7 - 91.3	FAIL	10	12.05	Reprocess	6	7.23	Review	226	358	322.2 - 393.8	FAIL	131	36.59	Reprocess	1.8819	1.872	1.4976 - 2.2464	PASS	72.607	90	FAIL	FAIL - BAD
OS57 BI_2106	32	43	38.7 - 47.3	FAIL	8	18.60	Reprocess	8	18.60	Reprocess	59	138	124.2 - 151.8	FAIL	68	49.28	Reprocess	13.7481	12.8562	10.28496 - 15.42744	PASS	52.174	90	FAIL	FAIL - BAD
OS58 BI_2106	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	4	4	3.6 - 4.4	PASS	0	0.00	-	0.8421	0.9083	0.72664 - 1.08996	PASS	100	90	PASS	PASS - EXCELLENT
OS56 BI_2107	24	24	21.6 - 26.4	PASS	0	0.00	-	0	0.00	-	67	67	60.3 - 73.7	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS57 BI_2107	58	57	51.3 - 62.7	PASS	0	0.00	-	2	3.51	-	254	254	228.6 - 279.4	PASS	0	0.00	-	-	-	-	-	99.213	90	PASS	PASS - GOOD
OS58 BI_2107	34	34	30.6 - 37.4	PASS	0	0.00	-	0	0.00	-	140	140	126 - 154	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS56 BI_2112	116	118	106.2 - 129.8	PASS	0	0.00	-	2	1.69	-	1473	1480	1332 - 1628	PASS	5	0.34	-	-	-	-	-	99.593	90	PASS	PASS - GOOD
OS57 BI_2112	61	62	55.8 - 68.2	PASS	1	1.61	-	0	0.00	-	2530	2532	2278.8 - 2785.2	PASS	2	0.08	-	-	-	-	-	99.941	90	PASS	PASS - GOOD
OS58 BI_2112	43	43	38.7 - 47.3	PASS	0	0.00	-	1	2.33	-	72	72	64.8 - 79.2	PASS	0	0.00	-	-	-	-	-	98.824	90	PASS	PASS - GOOD
OS56 BI_2113	10	10	9 - 11	PASS	0	0.00	-	1	10.00	-	10	10	9 - 11	PASS	0	0.00	-	0.622	0.5244	0.41952 - 0.62928	PASS	90.909	90	PASS	PASS - ACCEPTABLE
OS57 BI_2113	20	23	20.7 - 25.3	FAIL	1	4.35	-	2	8.70	Review	24	25	22.5 - 27.5	PASS	0	0.00	-	1.62664	1.6078	1.28624 - 1.92936	PASS	88.889	90	FAIL	FAIL - POOR
OS58 BI_2113	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	5	5	4.5 - 5.5	PASS	0	0.00	-	0.21377	0.1978	0.15824 - 0.23736	PASS	100	90	PASS	PASS - EXCELLENT
OS56 BI_2114	12	12	10.8 - 13.2	PASS	0	0.00	-	0	0.00	-	23	23	20.7 - 25.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS57 BI_2114	6	6	5.4 - 6.6	PASS	0	0.00	-	0	0.00	-	10	10	9 - 11	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS58 BI_2114	9	9	8.1 - 9.9	PASS	0	0.00	-	0	0.00	-	18	18	16.2 - 19.8	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS56 BI_2115	37	44	39.6 - 48.4	FAIL	4	9.09	Review	5	11.36	Reprocess	1714	1952	1756.8 - 2147.2	FAIL	230	11.78	Reprocess	17.0013	16.2526	13.00208 - 19.50312	PASS	89.283	90	FAIL	FAIL - POOR
OS57 BI_2115	20	29	26.1 - 31.9	FAIL	7	24.14	Reprocess	5	17.24	Reprocess	91	132	118.8 - 145.2	FAIL	38	28.79	Reprocess	5.2278	4.6784	3.74272 - 5.61408	PASS	70.852	90	FAIL	FAIL - BAD
OS58 BI_2115	2	2	1.8 - 2.2	PASS	0	0.00	-	0	0.00	-	2	2	1.8 - 2.2	PASS	0	0.00	-	1.3611	1.243	0.9944 - 1.4916	PASS	100	90	PASS	PASS - EXCELLENT
OS56 BI_2116	13	13	11.7 - 14.3	PASS	0	0.00	-	1	7.69	Review	673	661	594.9 - 727.1	PASS	0	0.00	-	-	-	-	-	98.951	90	PASS	PASS - GOOD
OS57 BI_2116	14	14	12.6 - 15.4	PASS	0	0.00	-	1	7.14	Review	119	119	107.1 - 130.9	PASS	0	0.00	-	-	-	-	-	98.319	90	PASS	PASS - GOOD
OS58 BI_2116	17	18	16.2 - 19.8	PASS	1	5.56	Review	1	5.56	Review	235	242	217.8 - 266.2	PASS	7	2.89	-	-	-	-	-	97.694	90	PASS	PASS - GOOD
OS56 BI_2118	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	353	357	321.3 - 392.7	PASS	0	0.00	-	-	-	-	-	98.873	90	PASS	PASS - GOOD
OS57 BI_2118	13	15	13.5 - 16.5	FAIL	0	0.00	-	0	0.00	-	71	187	168.3 - 205.7	FAIL	0	0.00	-	-	-	-	-	55.039	90	FAIL	FAIL - BAD
OS58 BI_2118	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	9	7	6.3 - 7.7	FAIL	0	0.00	-	-	-	-	-	94.118	90	PASS	PASS - ACCEPTABLE
OS56 BI_2121	9	11	9.9 - 12.1	FAIL	2	18.18	-	0	0.00	-	100	115	103.5 - 126.5	FAIL	14	12.17	-	0.5044	0.3627	0.29016 - 0.43524	FAIL	92.593	90	PASS	PASS - ACCEPTABLE
OS57 BI_2121	16	19	17.1 - 20.9	FAIL	3	15.79	Reprocess	3	15.79	Reprocess	333	337	303.3 - 370.7	PASS	4	1.19	-	0.8929	0.6134	0.49072 - 0.73608	FAIL	78.987	90	FAIL	FAIL - BAD
OS58 BI_2121	14	20	18 - 22	FAIL	5	25.00	Reprocess	4	20.00	Reprocess	112	130	117 - 143	FAIL	15	11.54	Reprocess	0.2063	0.1208	0.09664 - 0.14496	FAIL	89.431	90	FAIL	FAIL - POOR
OS56 BI_2122	54	56	50.4 - 61.6	PASS	1	1.79	-	3	5.36	-	146	151	135.9 - 166.1	PASS	3	1.99	-	-	-	-	-	96.296	90	PASS	PASS - GOOD
OS57 BI_2122	51	55	49.5 - 60.5	PASS	4	7.27	-	4	7.27	-	161	164	147.6 - 180.4	PASS	3	1.83	-	-	-	-	-	93.902	90	PASS	PASS - ACCEPTABLE
OS58 BI_2122	46	47	42.3 - 51.7	PASS	1	2.13	-	2	4.26	-	117	117	105.3 - 128.7	PASS	0	0.00	-	-	-	-	-	97.021	90	PASS	PASS - GOOD

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 21 Annual report, section 2.5.

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
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
Lab Code	OD	AD	Target	Flag	Missed	% Missed	Remedial Action	AD	%	Remedial Action	OD	AD	Target	Flag	Missed	% Missed	Remedial Action	OD	AD	Target	Flag	BCSI %	Target	Flag	NMBAQC Sample Flag
OS56 BI_2123	35	34	30.6 - 37.4	PASS	0	0.00	-	3	8.82	-	187	185	166.5 - 203.5	PASS	0	0.00	-	4.2432	3.7205	2.9764 - 4.4646	PASS	97.098	90	PASS	PASS - GOOD
OS57 BI_2123	13	18	16.2 - 19.8	FAIL	5	27.78	-	0	0.00	-	28	33	29.7 - 36.3	FAIL	5	15.15	-	0.2243	0.1289	0.10312 - 0.15468	FAIL	91.429	90	PASS	PASS - ACCEPTABLE
OS58 BI_2123	16	16	14.4 - 17.6	PASS	0	0.00	-	0	0.00	-	65	67	60.3 - 73.7	PASS	3	4.48	-	0.0967	N/A	N/A - N/A	PASS	97.101	90	PASS	PASS - GOOD
OS56 BI_2124	13	14	12.6 - 15.4	PASS	1	7.14	-	0	0.00	-	119	119	107.1 - 130.9	PASS	0	0.00	-	-	-	-	-	99.582	90	PASS	PASS - GOOD
OS57 BI_2124	23	24	21.6 - 26.4	PASS	1	4.17	-	1	4.17	-	63	64	57.6 - 70.4	PASS	1	1.56	-	-	-	-	-	97.638	90	PASS	PASS - GOOD
OS58 BI_2124	9	9	8.1 - 9.9	PASS	0	0.00	-	1	11.11	-	21	21	18.9 - 23.1	PASS	0	0.00	-	-	-	-	-	90.476	90	PASS	PASS - ACCEPTABLE
OS56 BI_2125	17	17	15.3 - 18.7	PASS	0	0.00	-	0	0.00	-	35	35	31.5 - 38.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
OS57 BI_2125	14	14	12.6 - 15.4	PASS	0	0.00	-	1	7.14	-	557	542	487.8 - 596.2	PASS	0	0.00	-	-	-	-	-	97.915	90	PASS	PASS - GOOD
OS58 BI_2125	38	43	38.7 - 47.3	FAIL	6	13.95	-	3	6.98	-	376	385	346.5 - 423.5	PASS	8	2.08	-	-	-	-	-	96.229	90	PASS	PASS - GOOD
OS56 BI_2126	11	13	11.7 - 14.3	FAIL	2	15.38	Review	0	0.00	-	45	56	50.4 - 61.6	FAIL	11	19.64	Reprocess	2.5417	1.7403	1.39224 - 2.08836	FAIL	89.32	90	FAIL	FAIL - POOR
OS57 BI_2126	7	9	8.1 - 9.9	FAIL	2	22.22	Review	0	0.00	-	112	159	143.1 - 174.9	FAIL	47	29.56	Reprocess	0.8387	0.6981	0.55848 - 0.83772	FAIL	82.784	90	FAIL	FAIL - BAD
OS58 BI_2126	5	6	5.4 - 6.6	FAIL	1	16.67	Review	0	0.00	-	93	146	131.4 - 160.6	FAIL	53	36.30	Reprocess	0.3894	0.3073	0.24584 - 0.36876	FAIL	78.008	90	FAIL	FAIL - BAD
OS56 BI_2127	16	18	16.2 - 19.8	FAIL	0	0.00	-	3	16.67	Reprocess	877	902	811.8 - 992.2	PASS	4	0.44	-	-	-	-	-	68.803	90	FAIL	FAIL - BAD
OS57 BI_2127	82	93	83.7 - 102.3	FAIL	11	11.83	Reprocess	18	19.35	Reprocess	4796	5550	4995 - 6105	FAIL	453	8.16	Review	-	-	-	-	63.106	90	FAIL	FAIL - BAD
OS58 BI_2127	25	28	25.2 - 30.8	FAIL	2	7.14	Review	6	21.43	Reprocess	88	92	82.8 - 101.2	PASS	5	5.43	Review	-	-	-	-	55.738	90	FAIL	FAIL - BAD
OS56 BI_2128	55	69	62.1 - 75.9	FAIL	12	17.39	Reprocess	9	13.04	Reprocess	196	233	209.7 - 256.3	FAIL	37	15.88	Reprocess	-	-	-	-	76.43	90	FAIL	FAIL - BAD
OS57 BI_2128	11	12	10.8 - 13.2	PASS	1	8.33	Review	2	16.67	Review	33	32	28.8 - 35.2	PASS	1	3.13	-	-	-	-	-	87.879	90	FAIL	FAIL - POOR
OS58 BI_2128	28	28	25.2 - 30.8	PASS	7	25.00	Reprocess	4	14.29	Reprocess	62	71	63.9 - 78.1	FAIL	13	18.31	Reprocess	-	-	-	-	76.471	90	FAIL	FAIL - BAD
OS56 BI_2129	30	31	27.9 - 34.1	PASS	1	3.23	-	0	0.00	-	268	269	242.1 - 295.9	PASS	1	0.37	-	-	-	-	-	99.815	90	PASS	PASS - GOOD
OS57 BI_2129	35	35	31.5 - 38.5	PASS	0	0.00	-	1	2.86	-	345	345	310.5 - 379.5	PASS	0	0.00	-	-	-	-	-	99.424	90	PASS	PASS - GOOD
OS58 BI_2129	40	40	36 - 44	PASS	0	0.00	-	1	2.50	-	407	409	368.1 - 449.9	PASS	1	0.24	-	-	-	-	-	99.512	90	PASS	PASS - GOOD
OS56 BI_2130	37	39	35.1 - 42.9	PASS	1	2.56	-	2	5.13	-	98	98	88.2 - 107.8	PASS	2	2.04	-	-	-	-	-	94.898	90	PASS	PASS - ACCEPTABLE
OS57 BI_2130	41	45	40.5 - 49.5	PASS	2	4.44	-	1	2.22	-	105	103	92.7 - 113.3	PASS	1	0.97	-	-	-	-	-	92.958	90	PASS	PASS - ACCEPTABLE
OS58 BI_2130	37	37	33.3 - 40.7	PASS	0	0.00	-	1	2.70	-	139	141	126.9 - 155.1	PASS	5	3.55	-	-	-	-	-	96.797	90	PASS	PASS - GOOD
OS56 BI_2131	109	112	100.8 - 123.2	PASS	0	0.00	-	6	5.36	-	1016	1001	900.9 - 1101.1	PASS	23	2.30	-	-	-	-	-	96.67	90	PASS	PASS - GOOD
OS57 BI_2131	160	181	162.9 - 199.1	FAIL	21	11.60	-	20	11.05	-	2040	2054	1848.6 - 2259.4	PASS	57	2.78	-	-	-	-	-	93.03	90	PASS	PASS - ACCEPTABLE
OS58 BI_2131	22	26	23.4 - 28.6	FAIL	0	0.00	-	5	19.23	Reprocess	48	61	54.9 - 67.1	FAIL	0	0.00	-	-	-	-	-	75	90	FAIL	FAIL - BAD
OS56 BI_2132	24	24	21.6 - 26.4	PASS	0	0.00	-	2	8.33	-	2868	2956	2660.4 - 3251.6	PASS	120	4.06	-	-	-	-	-	92.86	90	PASS	PASS - ACCEPTABLE
OS57 BI_2132	27	28	25.2 - 30.8	PASS	1	3.57	-	3	10.71	-	1732	1865	1678.5 - 2051.5	PASS	122	6.54	-	-	-	-	-	91.454	90	PASS	PASS - ACCEPTABLE
OS58 BI_2132	16	17	15.3 - 18.7	PASS	0	0.00	-	2	11.76	-	436	438	394.2 - 481.8	PASS	0	0.00	-	-	-	-	-	(97.712)	90	PASS	FAIL
OS56 BI_2133	48	52	46.8 - 57.2	PASS	0	0.00	-	8	15.38	Reprocess	1423	1442	1297.8 - 1586.2	PASS	12	0.83	-	-	-	-	-	83.426	90	FAIL	FAIL - BAD
OS57 BI_2133	197	206	185.4 - 226.6	PASS	5	2.43	-	11	5.34	-	4221	4381	3942.9 - 4819.1	PASS	258	5.89	-	-	-	-	-	94.78	90	PASS	PASS - ACCEPTABLE
OS58 BI_2133	76	79	71.1 - 86.9	PASS	2	2.53	-	2	2.53	-	437	448	403.2 - 492.8	PASS	10	2.23	-	-	-	-	-	97.77	90	PASS	PASS - GOOD
OS56 BI_2134	20	20	18 - 22	PASS	0	0.00	-	0	0.00	-	309	299	269.1 - 328.9	PASS	0	0.00	-	-	-	-	-	98.36	90	PASS	PASS - GOOD
OS57 BI_2134	21	22	19.8 - 24.2	PASS	0	0.00	-	1	4.55	-	279	271	243.9 - 298.1	PASS	0	0.00	-	-	-	-	-	98.21	90	PASS	PASS - GOOD
OS58 BI_2134	19	19	17.1 - 20.9	PASS	0	0.00	-	0	0.00	-	345	339	305.1 - 372.9	PASS	0	0.00	-	-	-	-	-	99.13	90	PASS	PASS - GOOD
OS56 BI_2135	14	14	12.6 - 15.4	PASS	0	0.00	-	3	21.43	-	1118	1110	999 - 1221	PASS	0	0.00	-	-	-	-	-	97.49	90	PASS	PASS - GOOD
OS57 BI_2135	97	99	89.1 - 108.9	PASS	2	2.02	-	2	2.02	-	820	869	782.1 - 955.9	PASS	59	6.79	-	-	-	-	-	96.24	90	PASS	PASS - GOOD
OS58 BI_2135	95	96	86.4 - 105.6	PASS	1	1.04	-	3	3.13	-	1049	1126	1013.4 - 1238.6	PASS	89	7.90	-	-	-	-	-	96.01	90	PASS	PASS - GOOD
OS56 BI_2136	32	32	28.8 - 35.2	PASS	0	0.00	-	0	0.00	-	461	455	409.5 - 500.5	PASS	1	0.22	-	-	-	-	-	98.91	90	PASS	PASS - GOOD
OS57 BI_2136	12	12	10.8 - 13.2	PASS	0	0.00	-	0	0.00	-	2119	2117	1905.3 - 2328.7	PASS	0	0.00	-	-	-	-	-	99.953	90	PASS	PASS - GOOD
OS58 BI_2136	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	881	885	796.5 - 973.5	PASS	5	0.56	-	-	-	-	-	99.773	90	PASS	PASS - GOOD
OS56 BI_2137	26	33	29.7 - 36.3	FAIL	7	21.21	-	0	0.00	-	107	110	99 - 121	PASS	7	6.36	-	-	-	-	-	94.181	90	PASS	PASS - ACCEPTABLE
OS57 BI_2137	35	38	34.2 - 41.8	PASS	3	7.89	-	2	5.26	-	181	183	164.7 - 201.3	PASS	7	3.83	-	-	-	-	-	94.278	90	PASS	PASS - ACCEPTABLE
OS58 BI_2137	8	8	7.2 - 8.8	PASS	1	12.50	-	0	0.00	-	21	22	19.8 - 24.2	PASS	1	4.55	-	-	-	-	-	95.652	90	PASS	PASS - GOOD

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 21 Annual report, section 2.5.

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
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
Lab Code	OD	AD	Target	Flag	Missed	% Missed	Remedial Action	AD	%	Remedial Action	OD	AD	Target	Flag	Missed	% Missed	Remedial Action	OD	AD	Target	Flag	BCSI %	Target	Flag	NMBAQC Sample Flag
OS56 BI_2138	25	28	25.2 - 30.8	FAIL	1	3.57	-	0	0.00	-	255	274	246.6 - 301.4	PASS	17	6.20	-	-	-	-	-	96.104	90	PASS	PASS - GOOD
OS57 BI_2138	8	9	8.1 - 9.9	FAIL	1	11.11	Review	0	0.00	-	71	89	80.1 - 97.9	FAIL	18	20.22	Reprocess	-	-	-	-	88.889	90	FAIL	FAIL - POOR
OS58 BI_2138	19	23	20.7 - 25.3	FAIL	2	8.70	Review	3	13.04	Reprocess	89	120	108 - 132	FAIL	26	21.67	Reprocess	-	-	-	-	77.512	90	FAIL	FAIL - BAD
OS56 BI_2139	6	6	5.4 - 6.6	PASS	0	0.00	-	0	0.00	-	60	61	54.9 - 67.1	PASS	1	1.64	-	-	-	-	-	99.174	90	PASS	PASS - GOOD
OS57 BI_2139	16	18	16.2 - 19.8	FAIL	1	5.56	-	1	5.56	-	238	244	219.6 - 268.4	PASS	5	2.05	-	-	-	-	-	98.137	90	PASS	PASS - GOOD
OS58 BI_2139	18	22	19.8 - 24.2	FAIL	1	4.55	-	4	18.18	-	839	921	828.9 - 1013.1	PASS	97	10.53	-	-	-	-	-	93.19	90	PASS	PASS - ACCEPTABLE

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

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 21 Annual report, section 2.5.

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS56-58).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2101	OS56	AD count	-	1	-	-	-	-	-	-	1
		Missed	-	0	-	-	-	-	-	-	0
		%missed	-	0.0	-	-	-	-	-	-	0.0
	OS57	AD count	-	8	-	-	-	10	-	0	18
		Missed	-	0	-	-	-	0	-	0	0
		%missed	-	0.0	-	-	-	0.0	-	0.0	0.0
	OS58	AD count	-	102	-	-	1	1	4	5	113
		Missed	-	0	-	-	0	0	1	0	1
		%missed	-	0.0	-	-	0.0	0.0	25.0	0.0	0.9
BI_2103	OS56		-	-	-	-	1	-	-	-	1
		Missed	-	-	-	-	0	-	-	-	0
		%missed	-	-	-	-	0.0	-	-	-	0.0
	OS57	AD count	-	1	1	-	13	2	-	4	21
		Missed	-	0	0	-	0	0	-	0	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS58	AD count	-	0	-	-	1	-	-	9	10
		Missed	-	1	-	-	0	-	-	0	1
		%missed	-	100.0	-	-	0.0	-	-	0.0	10.0
BI_2104	OS56	AD count	-	26	-	-	64	1	2	5	98
		Missed	-	2	-	-	2	0	1	3	8
		%missed	-	7.7	-	-	3.1	0.0	50.0	60.0	8.2
	OS57	AD count	0	270	26	-	14	24	2	0	336
		Missed	0	0	0	-	1	0	0	0	1
		%missed	0.0	0.0	0.0	-	7.1	0.0	0.0	0.0	0.3
	OS58	AD count	0	71	28	-	25	6	6	-	136
		Missed	0	0	0	-	1	0	0	-	1
		%missed	0.0	0.0	0.0	-	4.0	0.0	0.0	-	0.7
BI_2105	OS56	AD count	8	370	27	-	305	62	13	10	795
		Missed	0	5	0	-	2	8	0	0	15
		%missed	0.0	1.4	0.0	-	0.7	12.9	0.0	0.0	1.9
	OS57	AD count	4	449	44	6	27	185	3	11	729
		Missed	0	28	3	1	4	7	0	7	50
		%missed	0.0	6.2	6.8	16.7	14.8	3.8	0.0	63.6	6.9
	OS58	AD count	1	758	1	2	1072	144	6	6	1990
		Missed	0	32	0	3	86	0	5	29	155
		%missed	0.0	4.2	0.0	150.0	8.0	0.0	83.3	483.3	7.8
BI_2106	OS56	AD count	2	97	-	0	9	13	29	77	227
		Missed	3	33	-	2	4	5	5	79	131
		%missed	150.0	34.0	-	200.0	44.4	38.5	17.2	102.6	57.7
	OS57	AD count	1	34	1	-	6	1	8	19	70
		Missed	0	7	0	-	0	2	1	58	68
		%missed	0.0	20.6	0.0	-	0.0	200.0	12.5	305.3	97.1
	OS58	AD count	-	3	-	-	1	-	-	-	4
		Missed	-	0	-	-	0	-	-	-	0
		%missed	-	0.0	-	-	0.0	-	-	-	0.0
BI_2107	OS56	AD count	4	9	-	-	11	34	9	-	67
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS57	AD count	8	60	-	-	32	129	25	-	254
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS58	AD count	2	32	-	-	8	42	55	1	140
		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 (OS56-58).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2112	OS56	AD count	3	705	1	-	66	101	585	14	1475
		Missed	1	3	0	-	0	0	1	0	5
		%missed	33.3	0.4	0.0	-	0.0	0.0	0.2	0.0	0.3
	OS57	AD count	-	670	-	-	35	104	1707	14	2530
		Missed	-	2	-	-	0	0	0	0	2
		%missed	-	0.3	-	-	0.0	0.0	0.0	0.0	0.1
	OS58	AD count	1	28	-	-	5	21	17	-	72
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_2113	OS56	AD count	-	8	-	-	1	1	-	0	10
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS57	AD count	2	12	-	-	4	5	1	1	25
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS58	AD count	-	3	-	-	-	2	-	0	5
		Missed	-	0	-	-	-	0	-	0	0
		%missed	-	0.0	-	-	-	0.0	-	0.0	0.0
BI_2114	OS56	AD count	-	10	-	-	-	13	-	-	23
		Missed	-	0	-	-	-	0	-	-	0
		%missed	-	0.0	-	-	-	0.0	-	-	0.0
	OS57	AD count	-	3	-	-	-	7	-	-	10
		Missed	-	0	-	-	-	0	-	-	0
		%missed	-	0.0	-	-	-	0.0	-	-	0.0
	OS58	AD count	-	6	-	-	-	12	-	-	18
		Missed	-	0	-	-	-	0	-	-	0
		%missed	-	0.0	-	-	-	0.0	-	-	0.0
BI_2115	OS56	AD count	6	776	114	-	3	813	4	6	1722
		Missed	0	72	48	-	3	99	0	8	230
		%missed	0.0	9.3	42.1	-	100.0	12.2	0.0	133.3	13.4
	OS57	AD count	-	34	-	-	1	40	15	4	94
		Missed	-	5	-	-	1	32	0	0	38
		%missed	-	14.7	-	-	100.0	80.0	0.0	0.0	40.4
	OS58	AD count	-	1	-	-	1	-	-	-	2
		Missed	-	0	-	-	0	-	-	-	0
		%missed	-	0.0	-	-	0.0	-	-	-	0.0
BI_2116	OS56	AD count	-	606	-	-	-	55	-	-	661
		Missed	-	0	-	-	-	0	-	-	0
		%missed	-	0.0	-	-	-	0.0	-	-	0.0
	OS57	AD count	-	52	-	-	-	67	-	-	119
		Missed	-	0	-	-	-	0	-	-	0
		%missed	-	0.0	-	-	-	0.0	-	-	0.0
	OS58	AD count	1	69	-	-	3	160	1	1	235
		Missed	0	1	-	-	0	6	0	0	7
		%missed	0.0	1.4	-	-	0.0	3.8	0.0	0.0	3.0
BI_2118	OS56	AD count	-	347	-	-	10	-	-	-	357
		Missed	-	0	-	-	0	-	-	-	0
		%missed	-	0.0	-	-	0.0	-	-	-	0.0
	OS57	AD count	1	162	-	-	23	1	-	-	187
		Missed	0	0	-	-	0	0	-	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	-	0.0
	OS58	AD count	-	6	-	-	1	-	-	-	7
		Missed	-	0	-	-	0	-	-	-	0
		%missed	-	0.0	-	-	0.0	-	-	-	0.0
BI_2121	OS56	AD count	-	82	-	-	10	9	-	0	101
		Missed	-	1	-	-	0	0	-	13	14
		%missed	-	1.2	-	-	0.0	0.0	-	1300.0	13.9
	OS57	AD count	-	227	-	-	35	71	-	0	333
		Missed	-	1	-	-	0	0	-	3	4
		%missed	-	0.4	-	-	0.0	0.0	-	300.0	1.2
	OS58	AD count	-	96	15	-	3	1	-	0	115
		Missed	-	6	0	-	0	0	-	9	15
		%missed	-	6.3	0.0	-	0.0	0.0	-	900.0	13.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS56-58).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2122	OS56	AD count	2	48	-	-	9	71	3	15	148
		Missed	0	1	-	-	0	0	1	1	3
		%missed	0.0	2.1	-	-	0.0	0.0	33.3	0.0	2.0
	OS57	AD count	2	54	-	-	14	63	13	14	160
		Missed	0	1	-	-	0	2	0	1	4
		%missed	0.0	1.9	-	-	0.0	3.2	0.0	7.1	2.5
	OS58	AD count	2	61	-	-	9	32	4	9	117
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
BI_2123	OS56	AD count	-	44	4	-	74	59	3	1	185
		Missed	-	0	0	-	0	0	0	0	0
		%missed	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	OS57	AD count	-	25	1	-	2	0	0	0	28
		Missed	-	1	0	-	1	2	0	1	5
		%missed	-	4.0	0.0	-	50.0	200.0	0.0	100.0	17.9
	OS58	AD count	-	7	26	-	-	1	-	30	64
		Missed	-	0	0	-	-	0	-	3	3
		%missed	-	0.0	0.0	-	-	0.0	-	10.0	4.7
BI_2124	OS56	AD count	-	99	-	-	10	8	-	2	119
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS57	AD count	2	17	2	-	32	10	-	-	63
		Missed	0	1	0	-	0	0	-	-	1
		%missed	0.0	5.9	0.0	-	0.0	0.0	-	-	1.6
	OS58	AD count	-	8	-	-	11	2	-	-	21
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
BI_2125	OS56	AD count	1	11	-	-	1	6	16	-	35
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS57	AD count	1	518	3	-	-	3	-	17	542
		Missed	0	0	0	-	-	0	-	0	0
		%missed	0.0	0.0	0.0	-	-	0.0	-	0.0	0.0
	OS58	AD count	19	288	-	-	4	11	12	43	377
		Missed	0	4	-	-	1	1	0	2	8
		%missed	0.0	1.4	-	-	25.0	9.1	0.0	4.7	2.1
BI_2126	OS56	AD count	-	38	-	-	4	3	-	-	45
		Missed	-	1	-	-	0	10	-	-	11
		%missed	-	2.6	-	-	0.0	333.3	-	-	24.4
	OS57	AD count	-	14	0	-	82	16	-	-	112
		Missed	-	4	3	-	0	40	-	-	47
		%missed	-	28.6	300.0	-	0.0	250.0	-	-	42.0
	OS58	AD count	-	12	0	-	65	16	-	-	93
		Missed	-	2	3	-	3	45	-	-	53
		%missed	-	16.7	300.0	-	4.6	281.3	-	-	57.0
BI_2127	OS56	AD count	-	295	441	-	47	78	-	37	898
		Missed	-	0	4	-	0	0	-	0	4
		%missed	-	0.0	0.9	-	0.0	0.0	-	0.0	0.4
	OS57	AD count	1	2145	294	-	2233	255	26	143	5097
		Missed	2	276	7	-	151	5	3	9	453
		%missed	200.0	12.9	2.4	-	6.8	2.0	11.5	6.3	8.9
	OS58	AD count	-	44	8	-	30	-	-	5	87
		Missed	-	3	1	-	1	-	-	0	5
		%missed	-	6.8	12.5	-	3.3	-	-	0.0	5.7
BI_2128	OS56	AD count	1	93	-	-	14	48	8	32	196
		Missed	0	10	-	-	0	12	0	15	37
		%missed	0.0	10.8	-	-	0.0	25.0	0.0	46.9	18.9
	OS57	AD count	-	5	-	-	1	14	11	-	31
		Missed	-	0	-	-	0	1	0	-	1
		%missed	-	0.0	-	-	0.0	7.1	0.0	-	3.2
	OS58	AD count	1	4	-	-	1	48	3	1	58
		Missed	1	2	-	-	0	6	1	3	13
		%missed	100.0	50.0	-	-	0.0	12.5	33.3	300.0	22.4

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS56-58).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2129	OS56	AD count	-	29	-	-	3	10	163	63	268	
		Missed	-	0	-	-	0	1	0	0	1	
		%missed	-	0.0	-	-	0.0	10.0	0.0	0.0	0.4	
	OS57	AD count	2	45	-	-	7	71	191	29	345	
		Missed	0	0	-	-	0	0	0	0	0	
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0	
	OS58	AD count	2	43	-	-	9	73	252	28	407	
		Missed	0	0	-	-	0	2	0	0	2	
		%missed	0.0	0.0	-	-	0.0	2.7	0.0	0.0	0.5	
BI_2130	OS56	AD count	-	40	1	-	5	35	12	3	96	
		Missed	-	1	0	-	0	1	0	0	2	
		%missed	-	2.5	0.0	-	0.0	2.9	0.0	0.0	2.1	
	OS57	AD count	3	45	-	-	3	37	7	7	102	
		Missed	0	0	-	-	0	0	0	1	1	
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	14.3	1.0	
	OS58	AD count	-	70	-	-	-	23	38	5	136	
		Missed	-	2	-	-	-	3	0	0	5	
		%missed	-	2.9	-	-	-	13.0	0.0	0.0	3.7	
BI_2131	OS56	AD count	10	613	3	-	182	90	5	75	978	
		Missed	0	11	0	-	2	7	0	3	23	
		%missed	0.0	1.8	0.0	-	1.1	7.8	0.0	4.0	2.4	
	OS57	AD count	24	1070	135	1	456	45	51	215	1997	
		Missed	0	28	3	0	9	6	5	6	57	
		%missed	0.0	2.6	2.2	0.0	2.0	13.3	9.8	2.8	2.9	
	OS58	AD count	-	8	-	1	35	16	-	1	61	No residue submitted
		Missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	and only 33% of taxa
		%missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	
BI_2132	OS56	AD count	30	261	301	-	1387	413	-	444	2836	
		Missed	0	8	24	-	80	0	-	8	120	
		%missed	0.0	3.1	8.0	-	5.8	0.0	-	1.8	4.2	
	OS57	AD count	4	70	255	-	102	960	-	352	1743	
		Missed	0	0	9	-	16	71	-	26	122	
		%missed	0.0	0.0	3.5	-	15.7	7.4	-	7.4	7.0	
	OS58	AD count	-	21	48	-	144	157	-	68	438	No residue provided
		Missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	
		%missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	
BI_2133	OS56	AD count	-	1014	128	-	230	3	4	51	1430	
		Missed	-	12	0	-	0	0	0	0	12	
		%missed	-	1.2	0.0	-	0.0	0.0	0.0	0.0	0.8	
	OS57	AD count	9	2417	104	16	501	454	127	495	4123	
		Missed	0	225	1	0	0	31	1	0	258	
		%missed	0.0	9.3	1.0	0.0	0.0	6.8	0.8	0.0	6.3	
	OS58	AD count	10	304	4	-	18	63	13	26	438	
		Missed	0	8	0	-	0	0	0	2	10	
		%missed	0.0	2.6	0.0	-	0.0	0.0	0.0	7.7	2.3	
BI_2134	OS56	AD count	-	3	160	-	41	49	-	46	299	Residue discarded on
		Missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	client instruction
		%missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	
	OS57	AD count	1	98	49	-	14	12	-	97	271	
		Missed	0	0	0	-	0	0	-	0	0	
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0	
	OS58	AD count	-	151	130	2	-	23	-	33	339	Residue discarded on
		Missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	client instruction
		%missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	
BI_2135	OS56	AD count	3	367	625	-	-	103	-	12	1110	Residue discarded on
		Missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	client instruction
		%missed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	
	OS57	AD count	24	497	-	-	71	181	8	29	810	
		Missed	1	47	-	-	1	9	0	1	59	
		%missed	4.2	9.5	-	-	1.4	5.0	0.0	3.4	7.3	
	OS58	AD count	65	666	44	-	29	128	25	80	1037	
		Missed	2	34	8	-	2	25	1	17	89	
		%missed	3.1	5.1	18.2	-	6.9	19.5	4.0	21.3	8.6	

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS56-58).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2136	OS56	AD count	9	43	26	-	7	363	2	4	454
		Missed	0	0	0	-	0	1	0	0	1
		%missed	0.0	0.0	0.0	-	0.0	0.3	0.0	0.0	0.2
	OS57	AD count	-	600	1221	-	120	1	-	175	2117
		Missed	-	0	0	-	0	0	-	0	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS58	AD count	-	259	341	-	158	-	-	122	880
		Missed	-	1	0	-	0	-	-	4	5
		%missed	-	0.4	0.0	-	0.0	-	-	3.3	0.6
BI_2137	OS56	AD count	5	80	-	-	8	5	4	1	103
		Missed	0	0	-	-	2	3	0	2	7
		%missed	0.0	0.0	-	-	25.0	60.0	0.0	200.0	6.8
	OS57	AD count	3	83	-	-	56	32	1	1	176
		Missed	0	0	-	-	0	6	0	1	7
		%missed	0.0	0.0	-	-	0.0	18.8	0.0	100.0	4.0
	OS58	AD count	-	7	1	-	13	-	-	-	21
		Missed	-	0	0	-	1	-	-	-	1
		%missed	-	0.0	0.0	-	7.7	-	-	-	4.8
BI_2138	OS56	AD count	-	56	130	1	20	49	-	1	257
		Missed	-	2	10	0	4	1	-	0	17
		%missed	-	3.6	7.7	0.0	20.0	2.0	-	0.0	6.6
	OS57	AD count	-	6	54	-	-	11	-	-	71
		Missed	-	3	13	-	-	2	-	-	18
		%missed	-	50.0	24.1	-	-	18.2	-	-	25.4
	OS58	AD count	-	25	-	-	66	0	-	3	94
		Missed	-	6	-	-	16	1	-	3	26
		%missed	-	24.0	-	-	24.2	100.0	-	100.0	27.7
BI_2139	OS56	AD count	-	7	-	-	52	1	-	-	60
		Missed	-	0	-	-	1	0	-	-	1
		%missed	-	0.0	-	-	1.9	0.0	-	-	1.7
	OS57	AD count	-	11	5	-	10	171	-	42	239
		Missed	-	1	0	-	0	3	-	1	5
		%missed	-	9.1	0.0	-	0.0	1.8	-	2.4	2.1
	OS58	AD count	1	205	216	-	10	156	-	236	824
		Missed	0	23	6	-	1	4	-	63	97
		%missed	0.0	11.2	2.8	-	10.0	2.6	-	26.7	11.8

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 (OS56 - 58) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2101	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	3	*Syllis armillaris* (*Syllis hyalina*) *Rullierinereis ancornunezi* (*Eunereis longissima*)	-	-	-	-	Animalia eggs (Porifera)
BI_2102	OS56							
	OS57							
	OS58							
BI_2103	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2104	OS56	0	-	-	-	-	-	-
	OS57	1	-	-	-	-	*Ophiura albida* (*Ophiura ophiura*)	-
	OS58	6	*Mediomastus fragilis* (*Capitella*) *Glycera tridactyla* (*Glycera alba*) *Pholoe baltica* (*Sthenelais boa*)	-	*Bodotria scorpioides* (*Bodotria arenosa*)	*Abra alba* (*Angulus pygmaeu* s)	*Ophiura albida* (*Ophiura ophiura*)	-
BI_2105	OS56	9	*Myrianida* sp. (*Proceraea*) *Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*) *Praxillella affinis* (*Euclymene droebachiensis*)	*Tubificoides insularis / Tubificoides pseudogaster* (agg.) (*Tubificoides benedii*)	-	*Gibbula cineraria / Onoba semicostata* (*Skenea serpuloides*) *Onoba semicostata* (*Onoba aculeus*) *Heteranomia squamula* (*Pododesmus patelliformis*) *Arculus sykesii* (*Kellia suborbicularis*)	-	*Eurystrotos compacta* (*Tubulipora*)
	OS57	7	*Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*) *Aphelochaeta marioni* (*Monticellina dorsobranchialis*) *Neoamphitrite figulus* (*Amphitritides gracilis*) *Nicolea* sp. (*Eupolymnia* juvs)	-	*Leucothoe procera* (*Leucothoe richiardii*) *Nototropis vedlomensis* (*Dexamine thea*)	*Onoba semicostata* (*Onoba aculeus*)	-	-
	OS58	7	*Nephtys kersivalensis* (*Nephtys hombergii*) *Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*) *Chaetozone zetlandica* (*Chaetozone gibber*)	-	*Harpinia pectinata* (*Harpinia crenulata*)	*Mya truncata* juv. (*Mya arenaria*)	-	*Eucratea loricata* (*Bugula*) *Ascidiella aspersa* (*Corella parallelogramma*)
BI_2106	OS56	6	*Syllis parapari* (*Syllis variegata*) *Aphelochaeta* "Species A" (*Monticellina*) *Myriochele sp.* (*Galathowenia oculata*)	-	*Harpinia pectinata* (*Harpinia antennaria*)	*Hanleya hanleyi* (*Acanthochitona*)	-	*Golfingia elongata* (*Nephasoma minutum*)
	OS57	8	*Euclymene* "species A" (*Clymenura*) *Asclerocheilus* sp. (*Scalibregma celticum*)	-	*Pontocrates* "Species A" (*Pontocrates altamarinus*) *Harpinia pectinata* (*Harpinia antennaria*) *Unciola planipes* (*Corophium*)	*Hanleya hanleyi* (*Acanthochitona*)	*Echinocardium pennatifidum* (*Echinocardium flavescens*) *Labidoplax buskii* (*Leptosynapta decaria*)	-
	OS58	0	-	-	-	-	-	-
BI_2107	OS56	0	-	-	-	-	-	-
	OS57	2	-	-	*Harpinia antennaria* (male) (*Harpinia propinqua*)	*Spisula* sp. juv. (*Abra* juv.)	-	-
	OS58	0	-	-	-	-	-	-
BI_2112	OS56	2	*Phyllodoce longipes* (*Anaitides groenlandica*) *Prionospio fallax* (*Minuspio cirrifera*)	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	1	-	-	-	Naticidae juv. (*Polinices* (juv))	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS56 - 58) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2113	OS56	1	-	-	-	*Abra prismatica* (*Abra nitida*)	-	-
	OS57	2	-	-	-	*Spisula solida* (*Spisula elliptica*) *Abra prismatica* (*Abra alba*)	-	-
	OS58	0	-	-	-	-	-	-
BI_2114	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2115	OS56	5	*Aphelochaeta* "Species A" (*Aphelochaeta marioni*) *Scalibregma inflatum* (fragments)	*Tubificoides swirencoides* (*Tubificoides amplivasatus*) *Tubificoides swirencoides* (*Tubificoides benedii*)	-	*Abra nitida* (*Abra alba*)	-	-
	OS57	5	*Chaetozone* "Species D" / *Monticellina* sp. (*Chaetozone christiei*) *Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*) *Anobothrus gracilis* (*Ampharete finmarchica*)	-	*Haploops* sp. (*Ampelisca brevicornis*)	*Abra alba* (*Abra nitida*)	-	-
	OS58	0	-	-	-	-	-	-
BI_2116	OS56	1	*Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*)	-	-	-	-	-
	OS57	1	*Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*)	-	-	-	-	-
	OS58	1	*Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*)	-	-	-	-	-
BI_2118	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2121	OS56	0	-	-	-	-	-	-
	OS57	3	*Eteone longa* agg. (*Hypereteone foliosa*) *Polydora cornuta* (*Pygospio elegans*) *Tharyx* "Species A" (*Tharyx marioni*)	-	-	-	-	-
	OS58	4	*Hediste diversicolor* (*Nereis*) *Polydora ciliata* (*Pygospio elegans*) *Aphelochaeta marioni* (*Cirratulus*)	-	*Elysia viridis* (Nudibranchia)	-	-	-
BI_2122	OS56	3	-	-	-	*Nucula nucleus* (*Nucula nitidosa*)	-	*Golfingia* sp. (*Aspidosiphon* sp. 1) *Molgula manhattensis* (*Molgula complanata*)
	OS57	4	*Chaetozone* sp. (*Aphelochaeta* spp. indet.) *Diplocirrus hirsutus* (*Brada villosa*)	-	-	Naticidae juv. (*Lunatia montagui*) *Nucula nucleus* (*Nucula nitidosa*)	-	-
	OS58	2	*Aphelochaeta* sp. (*Chaetozone* cf. *jubata* agg.)	-	-	*Nucula nucleus* (*Nucula nitidosa*)	-	-
BI_2123	OS56	3	-	-	*Nototropis swammerdamei* (*Atylus falcatus*)	*Philine* sp. (*Diaphana minuta*)	-	*Hydrallmania falcata* (*Sertularia*)
	OS57	0	-	-	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2124	OS56	0	-	-	-	-	-	-
	OS57	1	*Lumbrineris aniara/cingulata* (*Lumbrineris gracilis*)	-	-	-	-	-
	OS58	1	-	-	*Ampelisca provincialis* (*Ampelisca diadema*)	-	-	-
BI_2125	OS56	0	-	-	-	-	-	-
	OS57	1	-	-	-	*Abra alba* (*Abra nitida* juv.)	-	-
	OS58	3	*Eusyllis blomstrandi* (*Autolytus* sp.)	-	*Hyas araneus* (*Maja squinado*)	-	*Asterias rubens* (juv) (*Echinaster sepositus*)	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS56 - 58) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2126	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2127	OS56	3	*Capitella* (*Heterochaeta costata*)	*Tubificoides pseudogaster* (agg) / *Paranais litoralis* / Enchytraeidae (*Heterochaeta costata*) *Paranais litoralis* (*Tubificoides benedii*) *Paranais litoralis* (*Tubificoides pseudogaster* (agg))	-	-	-	-
	OS57	18	*Sphaerosyllis taylori* (epitoke) (*Exogone naidina* (epitoke)) *Sphaerosyllis taylori* (*Sphaerosyllis hystrix*) *Protocirrineris* sp. (*Aphelochaeta*) *Aphelochaeta* "Species A" / *Protocirrineris* sp. (*Aphelochaeta marioni*) *Protocirrineris* sp. / *Caulleriella bioculata* / *Caulleriella alata* (*Chaetozone* (juv)) *Protocirrineris* sp. / *Capitella* sp. (*Cirratulus*) *Protocirrineris* sp. (*Cirriformia tentaculata*)	-	MYODOCOPIDA (CLADOCERA) *Balanus crenatus* (*Verruca stroemi*) *Iphimedia minuta* (*Iphimedia perplexa*) *Ampelisca diadema* (*Ampelisca spinipes*) *Eualus cranchii* (*Eualus occultus*)	*Odostomia turrita* (*Odostomia unidentata*)	-	*Cladophora* sp. (RHODOPHYTA) *Chondrus crispus* (*Laminaria*) *Bugula* sp. (*Tricellaria*) *Escharella immersa* (*Escharella ventricosa*) *Corella parallelogramma* (*Ascidiella scabra*)
	OS58	6	*Exogone naidina* (*Exogone dispar*) *Streptosyllis websteri* (*Syllis vivipara*) *Spio martinensis* / *Scoloplos armiger* (*Spio armata*) Arenicolidae juv. (Capitellidae)	-	*Urothoe brevicornis* (*Urothoe pulchella*) *Bathyporeia guilliamsoniana* / *Dexamine spinosa* / Gammaridae (juv) (*Bathyporeia elegans*)	-	-	-
BI_2128	OS56	9	*Enipo elisabethae* (*Enipo kinbergi*) *Malmgreniella arenicolae* (*Malmgreniella marphysae*) *Melinna albicincta* (*Melinna palmata*) *Pista mediterranea* (*Pista cristata*)	-	*Deflexilodes subnudus* (*Monoculodes carinatus*) *Ampelisca tenuicornis* (*Ampelisca diadema*) *Ampelisca diadema* (*Ampelisca spinipes*)	*Pusillina inconspicua* /*Pusillina sarsi* (*Rissoa parva*) *Dosinia lupinus* (*Dosinia exoleta*)	-	-
	OS57	2	*Glycera rouxii* (*Glycera alba*)	-	*Gammaropsis sophiae* (*Gammaropsis nitida*)	-	-	-
	OS58	4	-	-	-	*Scutopus ventrolineatus* (*Chaetoderma nitidulum*) *Nucula sulcata* (*Nucula nitidosa*) *Mysia undata* (*Arctica islandica*) *Thracia convexa* juv. (*Mya truncata*)	-	-
BI_2129	OS56	0	-	-	-	-	-	-
	OS57	1	-	-	-	*Dosinia lupinus* (*Dosinia exoleta*)	-	-
	OS58	1	-	-	-	-	-	*Lovenella clausa* (*Phialella quadrata*)
BI_2130	OS56	2	-	-	*Ampelisca diadema* (*Ampelisca tenuicornis*)	*Abra nitida* (*Abra alba*)	-	-
	OS57	1	-	-	-	*Abra nitida* (*Abra alba*)	-	-
	OS58	1	-	-	-	*Aporrhais* sp. juv. (*Comarmondia gracilis*)	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS56 - 58) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2131	OS56	6	*Heteromastus filiformis* (*Mediomastus fragilis*) *Heteromastus filiformis* (*Notomastus*) *Amphictei* s juv. (*Amphicteis midas*)	-	-	*Gibbula cineraria* (*Gibbula tumida*)	-	*Hippoporidra lusitania* (*Trypostega venusta*) *Hippoporina pertusa* (*Cryptosula pallasiana*)
	OS57	20	*Malmgrenia darbouxi / Malmgreniella ljungmani* (*Malmgrenia arenicolae*) *Glycera fallax / Glycera lapidum* agg. (*Glycera unicornis*) *Odontosyllis ctenostoma (Odontosyllis fulgurans)* *Salvatoria clavata* (*Erinaceusyllis erinaceus*) *Myrianida* (*Proceraea*) *Aonides paucibranchiata* (*Aonides oxycephala*) *Cirriformia tentaculata* (*Aphelochaeta* "Species A") *Capitella* (*Mediomastus fragilis*) *Mediomastus fragilis* (*Notomastus*) *Notoproctus* (*Clymenura*) *Loimia medusa / Pista mediterranea* (*Lanice conchilega*)	-	*Dexamine thea* (*Dexamine spinosa*) *Abludomelita gladiosa / Cheirocratus* (*Abludomelita obtusata*) *Ampithoe rubricata* (*Gammaropsis maculata*) *Zeuxo holdichi* (*Leptochelia savignyi*) Xanthidae (*Pilumnus hirtellus* juv.)	*Raphitoma linearis* (*Bela brachystoma*) *Modiolula phaseolina* (*Modiolus* juv.)	Ophiuridae juv. (Amphiuridae juv.)	*Scrupocellaria scrupea* (*Scrupocellaria scruposa*)
	OS58	5	*Nephtys hombergii* (*Nephtys kersivalensis*) *Leiochone* sp. (*Clymenura leiopygos*)	-	*Apherusa ovalipes* (*Apherusa cirrus*) *Pagurus bernhardus* (*Pagurus pubescens*)	-	-	*Fenestrulina delicia* (*Fenestrulina malusii*)
BI_2132	OS56	2	-	*Tubificoides pseudogaster* agg. (*Heterochaeta costata*)	-	*Ecrobia ventrosa* (*Hydrobia ulvae*)	-	-
	OS57	3	-	-	*Idotea chelipes* (*Idotea baltica*)	*Ruditapes decussatus* (*Tapes* sp (juv))	-	Spirorbinae (NEMATODA)
	OS58	2	-	*Tubificoides pseudogaster* (agg.) (*Tubificoides benedii*) *Baltidrilus costata* (*Tubificoides pseudogaster* (agg.))	-	-	-	-
BI_2133	OS56	8	*Sphaerosyllis taylori* (*Sphaerosyllis hystrix*) *Nephtys caeca* (*Nephtys longosetosa*) *Dipolydora coeca* agg. (*Dipolydora quadrilobata*) *Aphelochaeta marioni* (*Chaetozone zetlandica*)	*Baltidrilus costata* (*Tubificoides pseudogaster* (agg.))	*Microprotopus maculatus* (*Photis pollex*)	-	-	*Alcyonidioides mytili* (*Alcyonidium*) *Smittoidea* (*Escharella*)
	OS57	11	*Malmgrenia darbouxi* (*Malmgrenia arenicolae*) *Eumida sanguinea* agg. (*Eumida bahusiensis*) *Syllis hyalina* (*Syllis armillaris*) *Hediste diversicolor* (*Eunereis longissima*) *Nephtys kersivalensis* (*Nephtys hombergii*) *Chaetozone gibber* (*Caulleriella alata*) *Heteromastus filiformis* (*Mediomastus fragilis*) *Eupolymnia nesidensis* (*Eupolymnia nebulosa*)	-	*Crassicorophium bonellii* (*Monocorophium sextonae*)	-	-	*Hippothoa divaricata / Haplopoma impressum* (*Hippothoa flagellum*) *Fenestrulina delicia* (*Fenestrulina malusii*)
	OS58	2	*Oxydromus flexuosus* (*Podarkeopsis capensis*) *Magelona filiformis* (*Magelona minuta*)	-	-	-	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS56 - 58) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2134	OS56	0	-	-	-	-	-	-
	OS57	1	-	*Tubificoides pseudogaster* (agg.) (*Enchytraeidae*)	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2135	OS56	3	*Pygospio elegans* (*Streblospio* sp.)	*Baltidrilus costatus* (*Tubificoides pseudogaster* agg.) *Tubificoides pseudogaster* agg. (Enchytraeidae)	-	-	-	-
	OS57	2	*Glycera alba* (*Glycera tridactyla*) *Owenia borealis* (*Owenia fusiformis*)	-	-	-	-	-
	OS58	3	*Pseudopolydora pulchra* (*Dipolydora coeca* agg.) *Malmgrenia darbouxi* (*Harmothoe glabra*) *Owenia borealis* (*Owenia fusiformis*)	-	-	-	-	-
BI_2136	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2137	OS56	0	-	-	-	-	-	-
	OS57	2	*Nephtys kersivalensis* (*Nephtys hombergii*)	-	*Diogenes pugilator* (*Anapagurus ?chiroacanthus*)	-	-	-
	OS58	0	-	-	-	-	-	-
BI_2138	OS56	0	-	-	-	-	-	-
	OS57	0	-	-	-	-	-	-
	OS58	3	*Glycera tridactyla* (*Glycera alba*)	-	*Pontocrates arcticus* "Type A" / *Pontocrates altamarinus* (*Perioculodes longimanus*) *Pseudocuma longicorne* (*Cumopsis goodsiri*)	-	-	-
BI_2139	OS56	0	-	-	-	-	-	-
	OS57	1	*Aphelochaeta marioni* (*Tharyx* "species A")	-	-	-	-	-
	OS58	4	Arenicolidae juv. (*Capitella*) *Glycera tridactyla* (*Glycera alba*) *Manayunkia aestuarina* (NEMATODA)	-	-	*Macoma baltica* (*Abra* juv.)	-	-
TOTAL		219	99	12	38	38	5	22
% Error			45	5	17	17	2	10

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 OS56-OS58.

OS56

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
BI_2101	OD	-	0.0005	-	-	-	-	-	-	0.0005
	AD	-	0.0002	-	-	-	-	-	-	0.0002
	%diff.	-	60.00	-	-	-	-	-	-	60.00
BI_2103	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2104	OD	-	0.6936	-	-	0.6516	18.6850	0.0946	0.0137	20.1385
	AD	-	0.3802	-	-	0.4267	14.6950	0.0835	0.0075	15.5929
	%diff.	-	45.18	-	-	34.52	21.35	11.73	45.26	22.57
BI_2105	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2106	OD	0.0277	0.6136	-	-	0.0128	0.4895	0.7280	0.0103	1.8819
	AD	0.0291	0.6088	-	-	0.0133	0.4958	0.7122	0.0128	1.8720
	%diff.	-5.05	0.78	-	-	-3.91	-1.29	2.17	-24.27	0.53
BI_2107	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2112	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2113	OD	-	0.6171	-	-	0.0038	-	0.0011	-	0.6220
	AD	-	0.5174	-	-	0.0061	-	0.0009	-	0.5244
	%diff.	-	16.16	-	-	-60.53	-	18.18	-	15.69
BI_2114	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2115	OD	0.0213	10.2020	0.0335	-	0.0003	0.0063	6.7244	0.0135	17.0013
	AD	0.0207	9.8094	0.0433	-	0.0002	0.0065	6.3577	0.0148	16.2526
	%diff.	2.82	3.85	-29.25	-	33.33	-3.17	5.45	-9.63	4.40
BI_2116	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2118	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2121	OD	-	0.4581	-	-	0.0095	-	0.0368	-	0.5044
	AD	-	0.3313	-	-	0.0072	-	0.0242	-	0.3627
	%diff.	-	27.68	-	-	24.21	-	34.24	-	28.09
BI_2122	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2123	OD	-	0.5633	0.0002	-	0.0063	0.0003	3.6730	0.0001	4.2432
	AD	-	0.4401	0.0001	-	0.0048	0.0002	3.2752	0.0001	3.7205
	%diff.	-	21.87	50.00	-	23.81	33.33	10.83	0.00	12.32
BI_2124	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2125	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2126	OD	-	2.1475	-	-	0.0790	-	0.3152	-	2.5417
	AD	-	1.4011	-	-	0.0569	-	0.2823	-	1.7403
	%diff.	-	34.76	-	-	27.97	-	10.44	-	31.53
BI_2127	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2128	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2129	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

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 OS56-OS58.

OS56

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
BI_2130	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2131	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2132	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2133	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2134	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2135	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2136	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2137	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2138	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2139	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 OS56-OS58.

OS57

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
BI_2101	OD	-	0.0129	-	-	-	-	0.1430	-	0.1559
	AD	-	0.0150	-	-	-	-	0.1394	-	0.1544
	%diff.	-	-16.28	-	-	-	-	2.52	-	0.96
BI_2103	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2104	OD	0.0131	2.2477	0.0042	-	0.1409	3.0390	1.2609	-	6.7058
	AD	0.0073	2.2531	0.0032	-	0.0849	2.4267	1.0744	-	5.8496
	%diff.	44.27	-0.24	23.81	-	39.74	20.15	14.79	-	12.77
BI_2105	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2106	OD	0.0001	0.5491	0.0001	-	0.0051	13.1777	0.0160	-	13.7481
	AD	0.0001	0.5075	0.0001	-	0.0035	12.3284	0.0166	-	12.8562
	%diff.	0.00	7.58	0.00	-	31.37	6.44	-3.75	-	6.49
BI_2107	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2112	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2113	OD	0.0474	0.0297	-	-	0.0031	0.0002	1.5435	0.0027	1.6266
	AD	0.0477	0.0258	-	-	0.0030	0.0054	1.5235	0.0024	1.6078
	%diff.	-0.63	13.13	-	-	3.23	-2600.00	1.30	11.11	1.16
BI_2114	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2115	OD	-	0.4775	-	-	0.0021	1.2475	3.5007	-	5.2278
	AD	-	0.5021	-	-	0.0045	1.1800	2.9918	-	4.6784
	%diff.	-	-5.15	-	-	-114.29	5.41	14.54	-	10.51
BI_2116	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2118	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2121	OD	-	0.3409	-	-	0.2360	-	0.3160	-	0.8929
	AD	-	0.1981	-	-	0.1583	-	0.2570	-	0.6134
	%diff.	-	41.89	-	-	32.92	-	18.67	-	31.30
BI_2122	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2123	OD	-	0.2216	0.0001	-	0.0026	-	-	-	0.2243
	AD	-	0.1256	0.0001	-	0.0032	-	-	-	0.1289
	%diff.	-	43.32	0.00	-	-23.08	-	-	-	42.53
BI_2124	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2125	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2126	OD	-	0.0180	-	-	0.2221	-	0.5986	-	0.8387
	AD	-	0.0342	-	-	0.1550	-	0.5089	-	0.6981
	%diff.	-	-90.00	-	-	30.21	-	14.98	-	16.76
BI_2127	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2128	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2129	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

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 OS56-OS58.

OS57

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
BI_2130	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2131	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2132	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2133	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2134	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2135	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2136	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2137	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2138	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2139	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 OS56-OS58.

		OS58								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
BI_2101	OD	-	0.2245	-	-	0.0037	0.0161	0.0001	12.9332	13.1776
	AD	-	0.2495	-	-	0.0043	0.0154	0.0001	12.2219	12.4912
	%diff.	-	-11.14	-	-	-16.22	4.35	0.00	5.50	5.21
BI_2103	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2104	OD	0.0201	0.7159	0.0045	-	0.1339	3.2419	6.5428	-	10.6591
	AD	0.0149	0.3646	0.0047	-	0.0865	2.5633	4.8251	-	7.8591
	%diff.	25.87	49.07	-4.44	-	35.40	20.93	26.25	-	26.27
BI_2105	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2106	OD	-	0.0941	-	-	0.7480	-	-	-	0.8421
	AD	-	0.1207	-	-	0.7876	-	-	-	0.9083
	%diff.	-	-28.27	-	-	-5.29	-	-	-	-7.86
BI_2107	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2112	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2113	OD	-	0.2061	-	-	-	-	0.0077	-	0.2138
	AD	-	0.1925	-	-	-	-	0.0053	-	0.1978
	%diff.	-	6.60	-	-	-	-	30.90	-	7.47
BI_2114	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2115	OD	-	0.4810	-	-	0.8801	-	-	-	1.3611
	AD	-	0.3841	-	-	0.8589	-	-	-	1.2430
	%diff.	-	20.15	-	-	2.41	-	-	-	8.68
BI_2116	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2118	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2121	OD	-	0.1971	0.0056	-	0.0006	-	0.0030	-	0.2063
	AD	-	0.1164	0.0030	-	0.0004	-	0.0010	-	0.1208
	%diff.	-	40.94	46.43	-	33.33	-	66.67	-	41.44
BI_2122	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2123	OD	-	0.0891	0.0064	-	-	-	0.0002	0.0010	0.0967
	AD	-	N/A	N/A	-	-	-	N/A	N/A	0.0000
	%diff.	-	0.00	0.00	-	-	-	0.00	0.00	100.00
BI_2124	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2125	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2126	OD	-	0.0813	-	-	0.1778	-	0.1303	-	0.3894
	AD	-	0.0497	-	-	0.1387	-	0.1189	-	0.3073
	%diff.	-	38.87	-	-	21.99	-	8.75	-	21.08
BI_2127	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2128	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2129	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

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 OS56-OS58.

OS58

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
BI_2130	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2131	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2132	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2133	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2134	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2135	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2136	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2137	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2138	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2139	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

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 2014/15.

		Number of samples		
Scheme Year	**Exercise**	**Pass (>90% BCSI)**	**Fail (<90% BCSI)**	**% Pass**
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
21 (2014/2015)*	56, 57, 58	71	22	76
	Total	**1083**	**230**	**79**

* - Own Samples selected from completed data matrices, i.e. 'blind audits'
BCSI - Bray Curtis Similarity Index (untransformed)