



**The National Marine Biological  
Analytical Quality Control Scheme**

**Particle Size Results – PS24**

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## **Contents**

### **Tables**

- Table 1. Summary of the particle size information received from participating laboratories and replicate analysis laboratories for the twenty-fourth particle size distribution – PS24.
- Table 2. Z-score results for the derived statistics supplied by participating laboratories for the particle size exercise – PS24.

### **Figures**

- Figure 1. Particle size distribution curves resulting from analysis of fourteen replicate samples distributed as PS24.
- Figure 2. Particle size distribution curves from participating laboratories for sediment samples from PS24.
- Figure 3. Z-scores for PS24 derived statistics (replicated data not displayed).

**Table 1. Summary of the particle size information received from participating laboratories and replicate analysis laboratories for the twenty-fourth particle size distribution - PS24.**

**Replicate Sample Data**

Sample	Method	% < 63 micron	Median (phi)	Mean (phi)	Sort	IGS (SKi)
PS24_42	L	1.13	1.65	1.67	0.65	0.07
PS24_43	L	1.32	1.66	1.68	0.66	0.08
PS24_44	L	1.42	1.62	1.66	0.66	0.11
PS24_45	L	0.99	1.65	1.67	0.64	0.07
PS24_46	L	1.14	1.63	1.65	0.65	0.07
PS24_47	L	1.07	1.64	1.66	0.66	0.07
PS24_48	L	1.25	1.64	1.67	0.66	0.08
PS24_35	S	3.41	2.16	2.24	0.72	0.10
PS24_36	S	3.60	2.11	2.21	0.73	0.13
PS24_37	S	3.31	2.13	2.21	0.72	0.10
PS24_38	S	3.23	2.09	2.19	0.71	0.14
PS24_39	S	3.43	2.12	2.21	0.72	0.12
PS24_40	S	3.25	2.12	2.20	0.73	0.11
PS24_41	S	3.17	2.11	2.19	0.72	0.11
<b>UM</b>	<b>Overall Average</b>	<b>2.27</b>	<b>1.88</b>	<b>1.94</b>	<b>0.69</b>	<b>0.10</b>
<b>UM</b>	<b>LaserRepAv</b>	<b>1.19</b>	<b>1.64</b>	<b>1.67</b>	<b>0.65</b>	<b>0.08</b>
<b>UM</b>	<b>SieveRepAv</b>	<b>3.34</b>	<b>2.12</b>	<b>2.21</b>	<b>0.72</b>	<b>0.12</b>

**Participant Data**

Lab	Method	%<63µm	Median	Mean	Sort	IGS (SKi)
LB1104*	L	1.16	1.5	1.53	0.75	0.070
LB1107	L	2.45	1.92	1.94	0.66	0.11
LB1109	L	6.32	1.86	1.87	1.03	0.428
LB1114	L	2.89	1.73	1.76	0.70	-0.110
LB1115	L	1.16	1.5	1.53	0.75	0.070
LB1116	DS	2.55	2.1	2.15	-0.71	-0.15
LB1117	L	4.57	-	1.59	1.26	0.250
LB1118	L	4.82	1.88	1.94	0.89	-0.19
LB1122	L	1.98	1.80	1.65	0.77	-0.07

Key to methods:

L - Laser analysis      DS - Dry sieve      CC - Coulter counter  
 S - Sieve                  WS - Wet sieve      FD - Freeze dried  
 P - Pipette

L\* - replicated data - not included in calculations

"-" - No data. See forthcoming Annual Report, Section 6, for details.

Shaded cells - maximum and minimum values for each derived statistic.

**Table 2. Z-score results for the derived statistics supplied by participating laboratories for the particle size exercise - PS24.**

PS24																
Lab	%<63µm	z-score	Flag	Median	z-score	Flag	Mean	z-score	Flag	Sort	z-score	Flag	IGS (SKi)	z-score	Flag	Description: pre/post analysis
LaserRepAv	1.19	-1.44	PASS	1.64	-1.37	PASS	1.67	-0.80	PASS	0.65	-0.92	PASS	0.079	0.31	PASS	-
SieveRepAv	3.34	0.30	PASS	2.12	1.77	PASS	2.21	1.86	PASS	0.72	-0.39	PASS	0.116	0.58	PASS	-
LB1104*	1.16	-1.47	PASS	1.5	-2.30	Fail	1.53	-1.46	PASS	0.75	-0.17	PASS	0.070	0.25	PASS	Sand/Sand
LB1107	2.5	-0.42	PASS	1.92	0.46	PASS	1.94	0.55	PASS	0.66	-0.87	PASS	0.110	0.54	PASS	-/-
LB1109	6.32	2.70	Fail	1.86	0.06	PASS	1.87	0.21	PASS	1.03	2.01	Fail	0.428	2.90	Fail	Sand / Fine Sand
LB1114	2.89	-0.07	PASS	1.73	-0.79	PASS	1.76	-0.33	PASS	0.70	-0.56	PASS	-0.110	-1.09	PASS	Muddy Sand/Sand
LB1115	1.16	-1.47	PASS	1.5	-2.30	Fail	1.53	-1.46	PASS	0.75	-0.17	PASS	0.070	0.25	PASS	Sand/Sand
LB1116	2.55	-0.34	PASS	2.1	1.64	PASS	2.15	1.58	PASS	-0.71	-11.56	Fail	-0.150	-1.38	PASS	Muddy Sand/-
LB1117	4.57	1.29	PASS	-	-	Deemed Fail	1.59	-1.17	PASS	1.26	3.81	Fail	0.250	1.58	PASS	light brown mixed sand/light brown v. slightly muddy mixed sand
LB1118	4.82	1.49	PASS	1.88	0.20	PASS	1.94	0.55	PASS	0.89	0.92	PASS	-0.19	-1.68	PASS	Medium sand (small clay fraction)/as pre
LB1122	1.98	-0.80	PASS	1.80	-0.33	PASS	1.65	-0.87	PASS	0.77	-0.02	PASS	-0.070	-0.79	PASS	Coarse sand/-

"-" no return and/or data from laboratory. See text, Section 6 in the forthcoming Annual Report, for details.

"\*" = centralised analysis





Figure 3. Z-scores for PS24 derived statistics (replicated data not displayed).

