

The National Marine Biological Analytical Quality Control Scheme

Particle Size Results – PS25

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Table 1. Summary of the particle size information received from participating laboratories and replicate analysis laboratories for the twenty-fifth particle size distribution - PS25.

Sample	Method	% < 63 micron	Median (phi)	Mean (phi)	Sort	IGS (SKi)
PS25_42	L	79.89	6.25	6.14	2.25	-0.020
PS25_43	L	80.41	6.28	6.16	2.21	-0.030
PS25_44	L	80.33	6.27	6.14	2.22	-0.040
PS25_45	L	79.81	6.23	6.12	2.22	-0.010
PS25_46	L	80.44	6.23	6.13	2.19	-0.020
PS25_47	L	80.59	6.26	6.15	2.21	-0.020
PS25_48	L	79.91	6.22	6.12	2.22	-0.010
PS25_35	S	81.22	6.70	-	-	-
PS25_36	S	79.61	6.68	-	-	-
PS25_37	S	83.15	6.86	-	-	-
PS25_38	S	82.27	6.91	-	-	-
PS25_39	S	81.81	6.89	-	-	-
PS25_40	S	77.85	7.27	-	-	-
PS25_41	S	78.61	6.74	-	-	-
UM	Overall Average	80.42	6.56	6.14	2.22	-0.02
	-					
UM UM	LaserRepAv SieveRepAv	80.20 80.65	6.25 6.86	6.14 -	2.22	-0.02 -

## **Replicate Sample Data**

## **Participant Data**

Lab	Method	%<63µm	Median	Mean	Sort	IGS (SKi)	
LB1104*	L	78.75	5.57	5.42	1.90	-0.100	
LB1107	L	66.4	3.83	4.33	1.66	0.42	
LB1114	L	78.86	5.79	5.70	1.92	0.030	
LB1115	L	78.75	5.57	5.42	1.90	-0.1	
LB1117	L	76.46	5.53	5.50	1.97	0.020	
LB1118	L	81.56	5.93	5.78	1.80	0.08	
LB1122	L	72.25	-	-	2.02	-0.03	

Key to methods:

L - Laser analysis	DS - Dry sieve	CC - Co
S - Sieve	WS - Wet sieve	FD - Fre
P - Pipette		n/c - not

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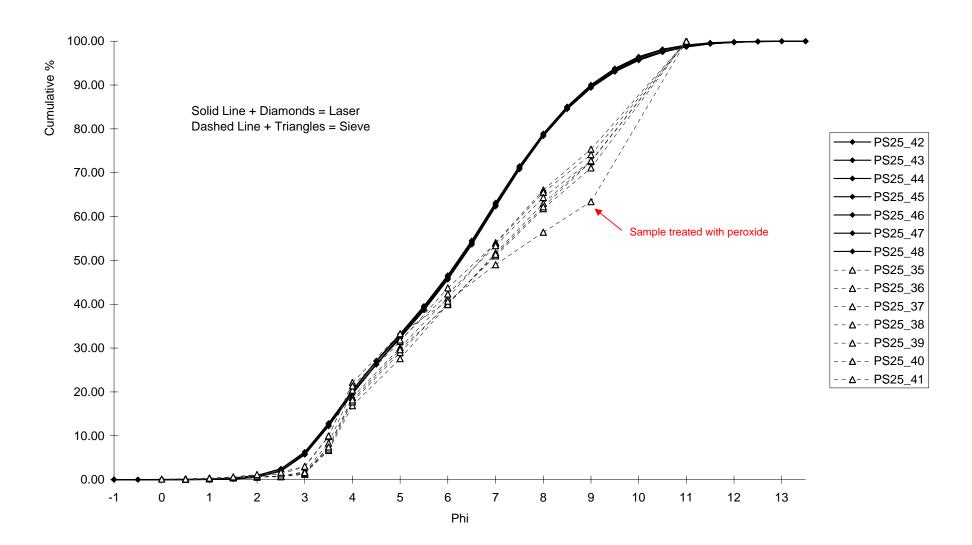
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L\* - data for this laboratory not included in calculations. "-" - No data. See forthcoming Annual Report, Section 6, for details.

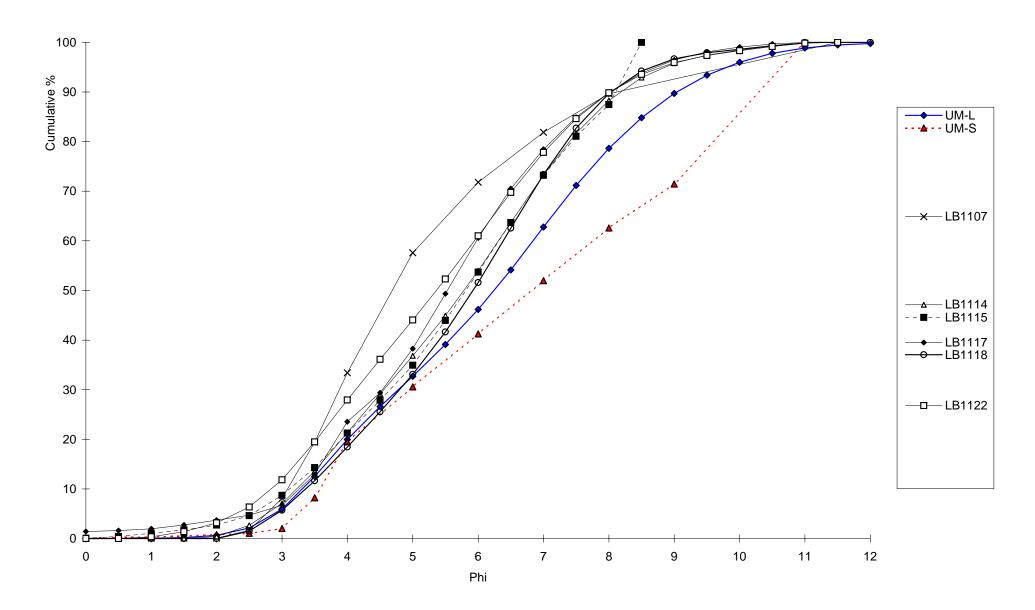
Table 2. Z-score results for the derived statistics supplied by participating laboratories for the particle size exercise - PS25.

PS25																
Lab	%<63µm	z-score	Flag	Median	z-score	Flag	Mean	z-score	Flag	Sort	z-score	Flag	IGS (SKi)	z-score	Flag	Description
LaserRepAv	80.20	0.75	PASS	6.25	0.44	PASS	6.14	1.40	PASS	2.22	1.64	PASS	-0.021	-0.84	PASS	Mud/Sandy mud
SieveRepAv	80.65	0.89	PASS	6.86	1.54	PASS	-	-	Deemed Fail	-	-	Deemed Fail	-	-	Deemed Fail	-
LB1104*	78.75	0.29	PASS	5.57	-0.77	PASS	5.42	-0.84	PASS	1.90	-0.39	PASS	-0.100	-2.62	Fail	-
LB1107	66.4	-3.68	Fail	3.83	-3.87	Fail	4.33	-4.24	Fail	1.66	-1.94	PASS	0.42	9.14	Fail	-/-
LB1114	78.86	0.32	PASS	5.79	-0.38	PASS	5.70	0.03	PASS	1.92	-0.27	PASS	0.030	0.32	PASS	sM/sM
LB1115	78.75	0.29	PASS	5.57	-0.77	PASS	5.42	-0.84	PASS	1.90	-0.39	PASS	-0.1	-2.62	Fail	Mud/Sandy mud
LB1117	76.46	-0.45	PASS	5.53	-0.84	PASS	5.50	-0.59	PASS	1.97	0.06	PASS	0.020	0.10	PASS	Dk bwn,fluid,sl.sandy mud + org frag/sl.grav,sandy,mud
LB1118	81.56	1.19	PASS	5.93	-0.13	PASS	5.78	0.28	PASS	1.80	-1.04	PASS	0.080	1.45	PASS	Mud/Sandy mud
LB1122	72.25	-1.80	PASS	-	-	Deemed Fail	-	-	Deemed Fail	2.02	0.38	PASS	-0.030	-1.03	PASS	Fine silt/-

"-" no return and/or data from laboratory. See text, Section 6 in the forthcoming Annual Report, for details. "\*" = centralised analysis Figure 1. Particle size distribution curves resulting from analysis of fourteen replicate samples of sediment distributed as PS25. Seven samples analysed by sieve and seven samples analysed by Laser.







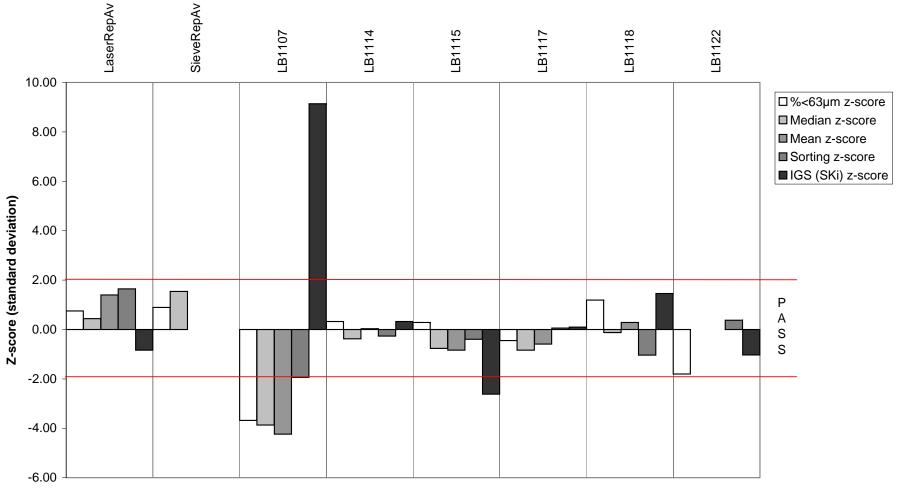


Figure 3. Z-scores for PS25 derived statistics (replicated data not displayed).

LabCode