



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

Particle Size Results – PS26

David Hall
Unicomarine Ltd.
October 2005
E-mail: davidhall@unicomarine.com

Contents

Tables

- Table 1. Summary of the particle size information received from participating laboratories and replicate analysis laboratories for the twenty-sixth particle size distribution – PS26.
- Table 2. Z-score results for the derived statistics supplied by participating laboratories for the particle size exercise – PS26.

Figures

- Figure 1. Particle size distribution curves resulting from analysis of fourteen replicate samples distributed as PS26.
- Figure 2. Particle size distribution curves from participating laboratories for sediment samples from PS26.
- Figure 3. Z-scores for PS26 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-sixth particle size distribution - PS26.

Replicate Sample Data

Sample	Method	% < 63 micron	Median (phi)	Mean (phi)	Sort	IGS (SKi)
PS26_42	L	6.21	1.52	1.67	1.25	0.29
PS26_43	L	3.31	1.49	1.60	1.02	0.18
PS26_44	L	4.80	1.50	1.64	1.12	0.23
PS26_45	L	4.35	1.46	1.60	1.09	0.23
PS26_46	L	3.65	1.48	1.60	1.04	0.20
PS26_47	L	4.52	1.50	1.62	1.07	0.22
PS26_48	L	3.33	1.45	1.57	1.03	0.19
PS26_35	S	2.69	1.44	1.56	0.94	0.26
PS26_36	S	2.13	1.38	1.48	0.89	0.25
PS26_37	S	2.49	1.37	1.49	0.92	0.28
PS26_38	S	2.42	1.30	1.43	0.89	0.30
PS26_39	S	2.18	1.37	1.47	0.88	0.26
PS26_40	S	2.74	1.39	1.51	0.93	0.27
PS26_41	S	2.20	1.33	1.45	0.88	0.28
UM	Overall Average	3.36	1.43	1.55	1.00	0.25
UM	LaserRepAv	4.31	1.49	1.61	1.09	0.22
UM	SieveRepAv	2.41	1.37	1.48	0.90	0.27

Participant Data

Lab	Method	%<63µm	Median	Mean	Sort	IGS (SKi)
LB1201	DS/L	3.65	0.74	0.93	1.09	0.38
LB1202	WS/DS/FD/L	3.78	0.99	1.37	1.30	0.43
LB1203	DS/WS/L	5.79	1.91	2.087	1.10	0.346
LB1206*	L	0.84	0.89	1.00	0.89	0.19
LB1207	L	0.84	0.89	1.00	0.89	0.19
LB1212	L	3.97	1.07	0.90	1.02	-0.20
LB1217	L	3.30	0.99	0.82	0.96	0.170
LB1221	L	4.05	1.12	1.18	0.96	-0.25
LB1224	L	13.4	1.67	2.04	1.86	-0.6

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 - PS26.

PS26																
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	4.31	0.42	PASS	1.49	1.04	PASS	1.61	0.76	PASS	1.09	0.29	PASS	0.220	0.33	PASS	-
SieveRepAv	2.41	-1.56	PASS	1.37	0.61	PASS	1.48	0.43	PASS	0.90	-1.21	PASS	0.271	0.55	PASS	sand/sand
LB1201	3.65	-0.27	PASS	0.74	-1.65	PASS	0.93	-0.98	PASS	1.09	0.30	PASS	0.380	1.01	PASS	-/-
LB1202	3.78	-0.13	PASS	0.99	-0.75	PASS	1.37	0.14	PASS	1.30	2.00	Fail	0.43	1.22	PASS	v.sl.muddy (yellow) sand (oolitic?)/sand
LB1203	5.8	1.96	PASS	1.91	2.57	Fail	2.087	1.96	PASS	1.10	0.40	PASS	0.346	0.86	PASS	sand/sand
LB1206*	0.84	-3.20	Fail	0.89	-1.11	PASS	1.00	-0.80	PASS	0.89	-1.32	PASS	0.19	0.21	PASS	sand/sand
LB1207	0.84	-3.20	Fail	0.89	-1.11	PASS	1.00	-0.80	PASS	0.89	-1.32	PASS	0.190	0.21	PASS	sand/sand
LB1212	3.97	0.07	PASS	1.07	-0.46	PASS	0.90	-1.05	PASS	1.02	-0.27	PASS	-0.200	-1.44	PASS	sandy/-
LB1217	3.30	-0.63	PASS	0.99	-0.75	PASS	0.82	-1.26	PASS	0.96	-0.75	PASS	0.170	0.12	PASS	muddy.coarse sand/mod sorted fine skewed coarse sand
LB1221	4.05	0.15	PASS	1.12	-0.28	PASS	1.18	-0.34	PASS	0.96	-0.75	PASS	-0.250	-1.65	PASS	medium sand/sM
LB1224	13.4	9.90	Fail	1.67	1.70	PASS	2.04	1.84	PASS	1.86	6.54	Fail	-0.6	-3.12	Fail	muddy sand/muddy sand

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

"*" = centralised analysis

Figure 2. Particle size distribution curves from participating laboratories for sediment samples from PS26.

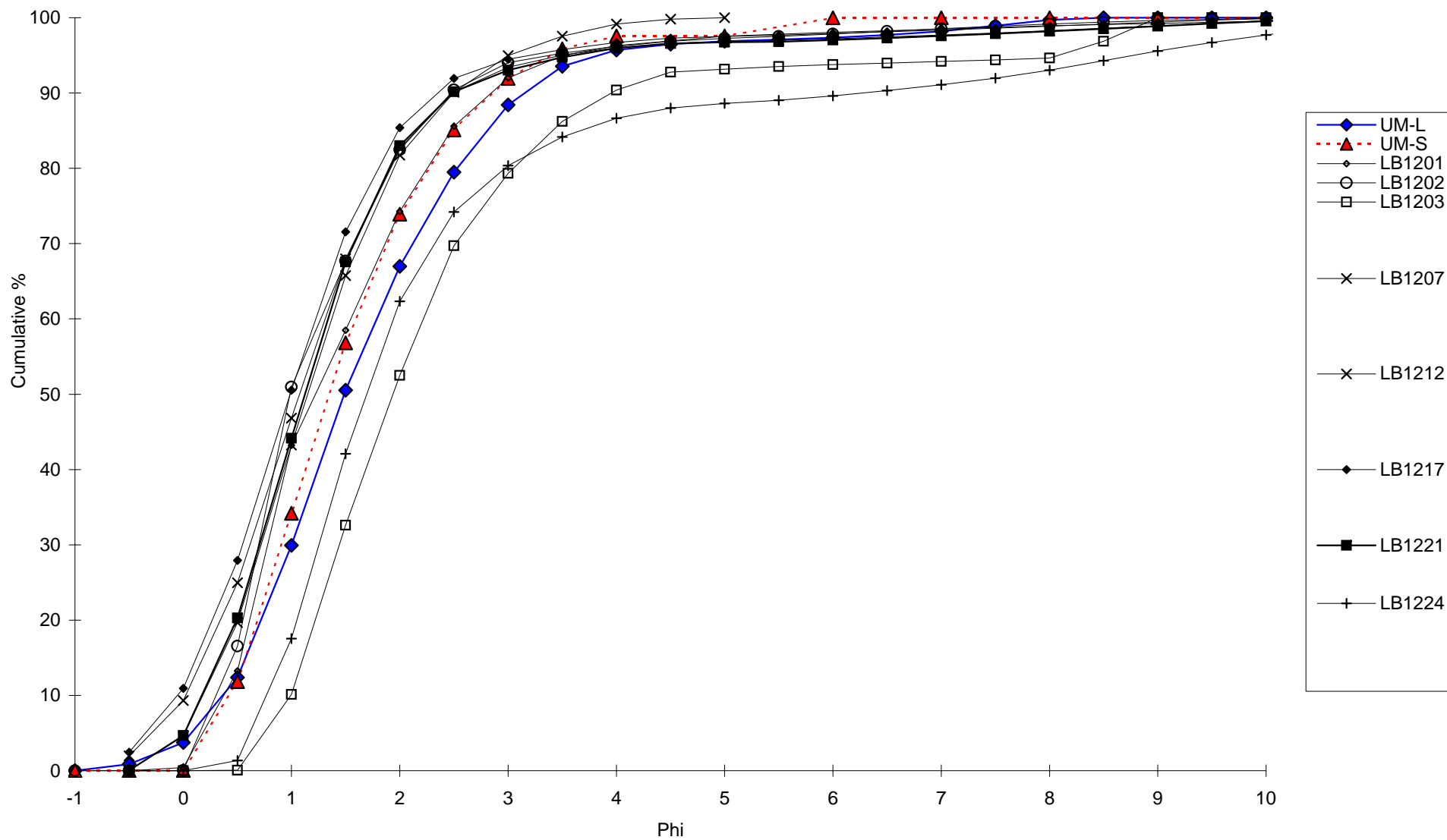


Figure 3. Z-scores for PS26 derived statistics (replicated data not displayed).

