

APPENDIX VI

ROUNDNESS AND SPHERICITY

ROUNDNES AND SPHERICITY

CHART SERIES :

MEMBER	SAMPLE No.	TRAVERSE No.	ROUNDNES (P)		SPHERICITY (S)	
			Coarser fraction (0.75 or 1.25 ϕ)	Finer fraction (2.35 or 3.75 ϕ)	Coarser fraction (0.75 or 1.25 ϕ)	Finer fraction (3.35 or 3.75 ϕ)
A	H 522	T 9	- - -	0.39 - 0.53 subrounded to rounded	- - -	0.66 - 0.9 subelongate to very equant

R_O_U_N_D_N_E_S_S A_N_D S_P_H_E_R_I_C_I_T_Y

KATROL SERIES :

MEMBER	SAMPLE No.	TRAVERSE No.	ROUNDNESS (R)		SPHERICITY (S)		
			Coarser fraction (0.75 or 1.25 ϕ) 4	Finer fraction (0.35 or 0.75 ϕ) 5	Coarser fraction (0.75 or 1.25 ϕ) 6	Finer fraction (0.35 or 0.75 ϕ) 7	
D	H 248	T 1	0.18 - 0.40 subangular to subrounded	0.50 - 0.70 subrounded to well rounded	over 0.75 very equant	0.69 - 0.69 85 elongate to very equant	
	H 245	T 1	0.18 - 0.29 subangular to subrounded	0.52 - 0.66 rounded to well rounded	over 0.75 very equant	0.60 - 0.9 elongate to very equant	
	H 227	T 2	0.17 - 0.34 subangular to subrounded	0.40 - 0.60 rounded	0.70 - 0.9 subequant to very equant	0.60 - 0.83 elongate to very equant	
	H 84	T 3	0.17 - 0.28 subangular to subrounded	0.40 - 0.66 rounded to well rounded	0.69 - 0.90 subequant to very equant	0.6 - 0.8 elongate to very equant	
	H 209	T 3	0.15 - 0.23 subangular	0.33 - 0.53 subrounded to rounded	0.71 - 0.93 subequant to very equant	0.66 - 1.0 subelongate to very equant	
	H 365	T 4	0.19 - 0.29 subangular to subrounded	0.31 - 0.55 subrounded to rounded	0.66 - 0.9 subelongate to very equant	0.70 - 1.0 subequant to very equant	
	H 350	T 4	0.20 - 0.30 subangular to subrounded	0.35 - 0.60 subrounded to rounded	over 0.75 very equant	0.63 - 0.88 subelongate to very equant	

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1	2	3	4	5	6	7
	H 299a	T 7	0.20 - 0.23 subangular	0.35 - 0.6 subrounded to rounded	over 0.75 very equant	over 0.75 very equant
	H 325	T 8	0.27 - 0.56 subrounded to rounded	0.50 - 0.70 rounded to well rounded	over 0.75 very equant	0.66 - 0.88 subelongate to very equant
D	H 550	T 8	0.25 - 0.34 subrounded	0.28 - 0.6 subrounded to rounded	over 0.75 very equant	0.73 to 0.90 equant to very equant
	H 448	T 8	0.9 - 0.39 subangular to subrounded	0.50 - 0.60 rounded	over 0.75 very equant	0.73 - 1.0 equant to very equant
	H 552	T 9	- -	0.28 - 0.6 subrounded to rounded	- -	over 0.75 very equant
	H 179a	T 2	0.29 - 0.53 subrounded to rounded	0.81 - 0.85 well rounded	over 0.75 very equant	0.63 - 0.68 subelongate to very equant
B	H 72	T 3	0.15 - 0.25 subangular	0.5 - 0.67 rounded to well rounded	over 0.75 very equant	over 0.75 very equant
	H 410	T 5	0.18 - 0.30 subangular to subrounded	0.37 - 0.62 subrounded to well rounded	over 0.75 very equant	0.66 - 0.80 subelongate to very equant
	H 540	T 10	0.17 - 0.39 subang. to subrounded	0.37 - 0.55 subrounded to rounded	over 0.75 very equant	over 0.75 very equant
	H 552	T 3	- -	0.38 - 0.60 subrounded to rounded	- -	0.61 - 0.90 elongate to very equant
A	H 277	T 6	0.22 - 0.40 subang. to subrounded	0.36 - 0.54 subrounded to rounded	over 0.75 very equant	0.72 - 0.93 equant to very equant
	H 537	T 10	0.16 - 0.27 subangular to subrounded	0.33 - 0.72 subrounded to well rounded	0.7 - 0.86 subequant to very equant	0.72 - 1.00 equant to very equant

UMIA SERIES: ROUNDNESS AND SPHERICITY
(North of Katrol Fault)

SAMPLE No.	TRAVERSE No.	ROUNDNESS (P)		SPHERICITY (S)	
		Coarser fraction (0.75 or 1.25 ϕ)	Finer fraction (3.35 or 3.75 ϕ)	Coarser fraction (0.75 or 1.25 ϕ)	Finer fraction (3.35 or 3.75 ϕ)
H 472	T 7	0.24 - 0.34 subangular to sub subrounded	0.33 - 0.60 subrounded to rounded	0.66 - 1.00 subelongate to very equant.	over 0.75 very equant
H 485	T 8	0.22 - 0.46 subang. to rounded	0.20 - 0.53 subang. to rounded	over 0.75 very equant	0.6 - 0.9 very elong. to very equant.
H 525	T 9	- - -	0.42 - 0.6 rounded	- - -	0.58 - 0.9 0.9 very elongate to very equant
----- (South of Katrol Fault) -----					
H 458	T 7	0.22 - 0.32 subang. to subrounded	0.26 - 0.53 subrounded to rounded	over 0.75 very equant	0.7 - 1.00 subequant to very equant
H 435	T 7	0.21 - 0.24 subangular	0.31 - 0.60 subround. to rounded	over 0.75 very equant	0.62 - 0.9 elongate to very equant
H 457	T 8	- - -	0.25 - 0.71 subrounded to well rounded	- - -	over 0.75 very equant
H 557	T 8	- - -	0.38 - 0.60 subrounded to rounded	- - -	0.64 - 0.9 subelongate to very equant
H 569	T 10	- - -	0.4 - 0.71 rounded to well rounded	- - -	over 0.75 very equant
H SPM	T 10	0.20 - 0.27 subangular to subrounded	0.35 - 0.7 subrounded to well rounded	over 0.75 very equant	0.60 - 0.9 0.9 elongate to very equant.

R_O_U_N_D_N_E_S_S A_N_D S_P_H_E_R_I_C_I_T_Y

BHJ SERIES : (North of Katrol Fault)

SAMPLE TRAVERSE
No. No.

R_O_U_N_D_N_E_S_S (P)

S_P_H_E_R_I_C_I_T_Y (S)

No.	TRAVERSE No.	R_O_U_N_D_N_E_S_S (P)			S_P_H_E_R_I_C_I_T_Y (S)	
		Coarser fraction (0.75 or 1.25 ϕ)	Finer fraction (3.35 or 3.75 ϕ)	Coarser fraction (0.75 or 1.25 ϕ)	Finer fraction (3.35 or 3.75 ϕ)	
		3	4	5	6	
H 18	T 1	0.20 - 0.40 subangular to subrounded	0.50 - 0.65 rounded to well rounded	over 0.75 very equant	0.60 - 0.80 elongate to very equant	
H 19	T 2	0.58 - 0.8 rounded to well rounded	0.57 - 0.70 rounded to well rounded	over 0.75 very equant	0.71 - 0.90 subequant to very equant	
H 37	T 3	0.19 - 0.34 subangular to subrounded	0.28 - 0.70 subrounded to well rounded	over 0.75 very equant	0.66 - 1.00 subelongate to very equant	
H 255	T 4	0.15 - 0.25 subangular	0.30 - 0.7 subrounded to well rounded	over 0.75 very equant	0.66 - 1.00 subelongate to very equant	
H 483	T 8	0.11 - 0.23 angular to subangular	0.29 - 0.55 subrounded to rounded	over 0.75 very equant	0.69 - 0.8 subequant to very equant	
H 488	T 9	0.16 - 0.31 subangular to subrounded	0.21 - 0.40 subangular to subrounded	over 0.75 very equant	0.6 - 0.8 elongate to very equant	

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(South of Katrol Fault)

	2	3	4	5	6
H 424	T 1	0.25 - 0.45 subangular to subrounded	0.28 - 0.7 subrounded to well rounded	0.75 - 0.87 equant to very equant	over 0.75 very equant
H 426	T 2	- -	0.45 - 0.60 rounded	- -	0.62 - 0.90 elongate to very equant
H 226	T 3	0.18 - 0.23 subangular	0.5 - 0.7 rounded to well rounded	over 0.75 very equant	0.50 - 0.90 elongate to very equant
H 232	T 3	0.17 - 0.24 subangular	0.28 - 0.40 subrounded	over 0.75 very equant	0.66 - 0.90 subelongate to very equant.
H 235	T 4	0.11 - 0.25 angular to subangular	0.25 - 0.60 subrounded to rounded	0.70 - 0.90 subequant to very equant	0.69 - 0.90 subequant to very equant
H 155	T 5	0.45 - 0.50 rounded	0.30 - 0.68 subrounded to well rounded	over 0.75 very equant	0.66 - 0.90 subelongate to very equant
H 132	T 6	0.18 - 0.40 subangular to subrounded	0.43 - 0.55 rounded	0.69 - 0.90 subequant to very equant	over 0.75 very equant
H 428	T 7	0.13 - 0.28 angular to subrounded	0.33 - 0.53 subrounded to rounded	0.71 - 0.90 subequant to very equant	over 0.75 very equant
H 164	T 7	0.12 - 0.25 angular to subangular	0.33 - 0.50 subrounded to rounded	over 0.75 very equant	0.61 - 0.90 elongate to very equant

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1	2	3	4	5	6
H 138	T 7	0.16 - 0.28 subangular to sub subrounded	0.4 - 0.7 rounded to well rounded	0.71 - 0.99 subequant to very equant	over 0.75 very equant
H 440	T 8	0.12 - 0.25 angular to subangular	0.27 - 0.70 subrounded to well rounded	over 0.75 very equant	over 0.75 very equant
H 444	T 8	0.22 - 0.34 subangular to subrounded	0.35 - 0.56 subrounded to rounded	0.65 - 0.90 subelongate to very equant	0.69 - 1.00 subequant to very equant
H 560	T 9	0.16 - 0.35 subangular to subrounded	0.35 - 0.57 subrounded to rounded	over 0.75 very equant	0.71 - 0.90 subequant to very equant
H 572	T 10	0.16 - 0.30 subangular to subrounded	0.25 - 0.52 subrounded to rounded	0.66 - 0.90 subelongate to very equant	0.66 - 0.86 subelongate to very equant