

TABLE 4
Main composition of Poggio Villanelle Member sandstones

Samples			SC-903	SC-904	SC-905	SC-906	SC-907	SC-906	SC-977	SC-978	SC-979	SC-980	SC-981	SC-982	SC-983	SC-984	SC-985	SC-986	SC-987	SC-989	SC-1000	SC-1001	SC-1002	SC-1003	SC-1004	SC-1005	SC-1006	SC-1007	SC-1008	SC-1009	SC-1010	SC-1011	SC-1012	SC-1013	SC-1014	SC-1015	SC-1016
Petrographic classes																																					
NCE	Qm	Quartz	57	132	39	113	44	125	60	50	47	34	59	51	12	21	55	103	46	48	48	34	69	61	68	74	94	93	69	89	80	147	118	76	77	33	85
NCE	Qp	Quartz (single crystals)	14	7	29	18	38		11	20	18	43	5	13	33	19	28	21	37	22	19	39	36	29	6	29	12	13	15	2	10	2	16	14	9	27	13
NCE	Qp	Polycrystalline quartz with tectonic fabric	13	5	19	8	16	2	9	7	6	11	5	7	10	6	10	15	10	11	12	12	18	13	10	10	9	6	9	2	11	2	17	7	8	20	13
NCE	Qm	Polycrystalline quartz without tectonic fabric	17		35	5	16		15	12	9	23	4	15	38	12	20	1	12	0	8	13	15	7	21	7	3	3	7	2	8	11	7	11	4	43	30
NCE	Qm	Quartz in metamorphic r.f.	12	3	10	4	10	2	6	24	21	8	6	8	15	13	12	1	7	12	8	21	16	4	8	22	3	5	6	1	5	7	8	15	1	13	3
NCE	Qm	Quartz in plutonic r.f.	5		14		5		7	5	3	3		1	5	2	7		1	1																1	3
NCE	Qm	Quartz in plutonic or gneiss r.f.	6	8	2	6	6	19	16	17	12	2		16	3	1		9		7	2	3	11	4	21	4	10	19	7	4	12	6	1	13	6	15	26
NCE	Qm	Calcite replacement on quartz																																			
Feldspar																																					
NCE	K	K-Feldspar (single crystals)	34	10	21	28	26	21	17	27	14	21	33	24	13	26	27	22	21	25	23	12	29	29	23	29	38	39	38	37	34	20	22	27	25	19	35
NCE	K	K-Feldspar in plutonic r.f.	17		14	3	11		7	15	8	19	2	5	20	11	13	1	9	6	7	16	14	14	4	11	4	3	4	5	2	4	1	4	19	7	
NCE		Calcite replacement on k-Feldspar	9	2	4		2		8	5	8	3	2	2	5	5	1	2	3	1	3	4	5	7	14	15	6	22	3	7	4	2		7		2	1
NCE	P	Plagioclase (single crystals)	15	37	20	45	37	24	20	39	47	29	41	39	9	26	18	32	25	26	47	29	45	42	53	45	41	61	39	50	40	27	50	38	41	15	36
NCE	P	Plagioclase in metamorphic r.f.	16	3	32	6	16	1	23	12	9	28	5	7	33	18	17	4	14	9	7	36	18	6	17	12	7	10	5	2	2	12	11	2	56	13	
NCE	P	Plagioclase in plutonic r.f.	19	1	9	5	3	2	14	23	22	6	12	16	13	25	2	1	2	6	20	31	19	8	4	11	10	10	4	2	3	5	6	19		12	2
NCE	P	Plagioclase in plutonic or gneiss r.f.	5		14		4		6	6	4	3			5	1	6		6	2	3	3														1	3
NCE	P	Plagioclase in volcanic r.f.																																			
NCE	P	Calcite replacement on plagioclase	5	1		3	6	1	12	11	19	7		7	6	1	1	1	1	3	5	14	7	9	14	11	7	6	5	9	19			2	3	5	14
Micas and Chlorites																																					
NCE		Micas and chlorite (single crystals)	2	29	13	18	14	46	27	12	18	8	4	12	2	5	12	36	11	14	14	7	17	15	33	29	18	7	22	20	49	49	21	11	48	20	22
NCE		Micas and chlorite in plutonic r.f.						8	5	2								7	4	12	17	2			3	1		2		2	6	8	2	1			
NCE		Micas and chlorite in metamorphic r.f.	1			5	2					1			14	12	11	11	9	7	5	4	5		2	1	1	3		3	3	4	5	4			
L (Lm+Lv+Ls)																																					
NCE	Lv	Volcanic lithic with microlitic texture																																			
NCE	Lv	Volcanic lithic with felsitic granular texture																					2		1												
NCE	Lv	Volcanic lithic with felsitic seriate texture																																			
NCE	Lv	Volcanic lithic with lathwork texture																																			
NCE	Lv	Volcanic lithic with vitric texture																																			
NCE	Lv	Serpentine				2	2			1	1	4			1	1	2	2					1	1		1	1							6	2		2
NCE	Lm - Lm2	Serpentine-shist	4	1	11	2	4		1	1	2	3			3	3	2	6	5	2	1	1	3	5	5	2		2	1	3	1	9		12	7	2	4
NCE	Lm - Lm1	Phyllite	2		6	7	3	4		1	3	3			3	4	5	3	2	1	2	5	3	4	8	1	2	2	4	6		4	1	5	2	2	5
NCE	Lm - Lm1	Fine-grained schist	7	2	16	15	13	1	3	4	4	6	1	6	3	7	13		12	10	19	21	8	8	12	8	8	9	9	4	9	3	20	16	2	10	10
NCE	Lm - Lm2	Fine-grained gneiss	2		4	1	7		8	3		6		3	1	6	9	1	6	1	2	5	8	4	3	4	1	9	1	13		8	4		1	1	
NCE	Ls	Siltstone	1		7	5	2	1	4	4	2	5	1	4	1	1	4	3	5	2	1	2		5	1	3	2	2	6	4	6	3	6	4	1	1	3
NCE	Ls	Radiolarian chert	3	5	3	6	2	4	5	3	4	4	1	5	4	6	5	5	7	3	2	5	6	2	3	2	5	5	2	2	3	15	3	4	4		12
NCE	Ls	Shale				6	2	3	2			3		1	2	1	9	4	4	2		1		1	1	1	1	1	3	2	4	2	6	2	5	8	1
Dense Minerals																																					
NCE		Dense minerals (single crystals)	3	1	10	13	5	3	1		4	6	1	4	7	4	7	3	3	3	1	3	1	6	9	1	4	5	3	4	9	7	7	6	5	3	10
NCE		Dense minerals in plutonic r.f.				1												1				1															
NCE		Dense minerals in metamorphic r.f.			1							2					3	2	1													1	1		1		
NCE		Opaque minerals	8	7	7	10	5	3	6	6	8	5	4	5	6	2	6	3	1	1	4	4	6	5	7	5	11	10	12	14	8	9	5	3	1	14	11
Extrabasinal carbonate (CE)																																					
CE	Ls	Dolostone	1			1						2	1	2	1	1	5	2	3	1	3	1	1	1	2				3		2				1	1	
CE	Ls	Micritic Limestone	2	2	5	1	4	3	8	2	14	4	11	15	4	3	5	2	11	6	3	6	3	16	12	12	2	13	2	10	6	2	7	1	3	1	12
CE	Ls	Sparitic Limestone		1	10	7	5	4	1	2	15	10	12	5	2	11	7	3	3	3	8	13	1	10	1	6	4	3	7	1		6	4	1	2	4	4
CE	Ls	Microsparitic Limestone	6	6	5	2	1	1	4	11	13	4	9	9	1	4	4	6	5	7	11	1	9	9			7	6	6	3	3	5	6	4	2		
CE	Ls	Biomicritic Limestone	8	1	3		1		6	7	8	4	4	18	4	15	2	5		6	3	1	12	24	21	6	4	7	4	4	7	1	1	6	2	6	14
CE	Ls	Biosparitic Limestone	9			2			3	5	4	3	9	6	6	2	1		1				6	4	10	3	7	4		1	8		2	2	1	2	7
CE	Ls	Fossil (single skeleton)	1																				1	2							1						
CE	Ls	Fossil in Limestone/Dolostone		4					1	1		2	2	1									1	2		2		1			1					1	
CE	Ls	Single spar (calcite)	1	3	2						8		6	3	4				1			2	1		7		3	4	3	1	1	1	2			1	4
CE	Ls	Single spar (dolomite)							1			1																									
Intrabasinal carbonate (CI) and intrabasinal non-carbonate (NCI)																																					
CI	CI	Bioclast	1			2		1				1					2	2	2	3		2										1		3	1		
CI	CI	Pekoid																																			
NCI	NCI	Glauconite	3		1	1	1		2	4	5	4	1	5	1	4	2		1	1	3	1	2	10	6	3	1	1	6	2	4		2	1	3		3
NCI	NCI	Rip-Up clasts (argillaceous and siltitic)																																			10
Interstitial component (matrix and cement)																																					
		Siliclastic matrix	6	15	6	12	10	12	13	17		19	20	10	5	3	12	31	4	10	13	8	1	6		6	10	13	7	15		11	8	11	9	4	12
		Carbonate matrix (micrite)																																			