

AP-7 (2) Results of Geochemical Analysis of Rock Samples (Phase 2)

Locality	Sample No.	Coordinate		Geology	Au	Ag	Cu	Pb	Zn	Mo	As	Sb	Hg
		N	E		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
West Queen Elizabeth-SE	F062	7801103	495335	Jsl	< 5	< 0.1	8	3	6	8	2.5	0.3	< 0.01
West Queen Elizabeth-SE	F063	7800844	495537	Kg/Tg	< 5	0.1	33	15	22	10	37	12	< 0.01
West Queen Elizabeth-SE	F065	7800494	495531	Jsl	< 5	0.7	56	13	51	< 2	48	3.2	< 0.01
West Queen Elizabeth-SE	F068	7800289	495293	Jsl	< 5	0.2	9	4	8	6	35	1.1	0.013
West Queen Elizabeth-SE	F071	7800708	495609	Kg/Tg	17	5.9	3808	27	20	9	8.1	1.3	< 0.01
West Queen Elizabeth-W	G023	7802173	488963	Kg/Tg	< 5	< 0.1	7	7	48	4	2.3	< 0.2	< 0.01
West Queen Elizabeth-W	G024	7802359	486403	Kg/Tg	6	< 0.1	5	3	14	< 2	3.4	0.6	0.010
West Queen Elizabeth-W	G025	7802353	485980	Kg/Tg	< 5	0.2	5	< 5	38	3	5.2	0.7	< 0.01
West Queen Elizabeth-W	G026	7802347	485544	K1	< 5	0.2	43	5	56	< 2	7.5	0.8	< 0.01
West Queen Elizabeth-W	G027	7802887	486220	Kg/Tg	9	0.1	7	6	33	< 2	32	2.1	< 0.01
West Queen Elizabeth-W	G028	7802833	487144	Kg/Tg	< 5	< 0.1	6	4	23	4	1.4	< 0.2	0.010
West Queen Elizabeth-W	G029	7803870	486446	Kg/Tg	< 5	0.1	11	4	21	5	2.4	0.4	< 0.01
West Queen Elizabeth-W	G030	7803758	485514	Kg/Tg	7	< 0.1	22	9	45	< 2	5.1	0.6	< 0.01
Tignamar-N	E026	7946568	452582	K	< 5	0.2	29	12	46	4	7.6	1.8	< 0.01
Tignamar-N	E029	7946242	452259	Kg/Kp/ Tgd	8	0.2	182	21	26	4	23	7.7	0.023
Tignamar-N	E031	7945825	451778	Kg/Kp/ Tgd	< 5	< 0.1	13	< 2	4	4	44	20.8	0.023
Tignamar-N	E033	7945771	451190	Kg/Kp/ Tgd	< 5	0.2	163	9	17	< 2	22	6.1	0.040
Tignamar-N	F079	7947223	451902	Kg/Kp/ Tgd	11	1.3	69	12	7	< 2	48	68.6	1.403
Tignamar-N	F081	7947323	451823	Kg/Kp/ Tgd	10	0.4	77	16	403	3	22	2.4	< 0.01
Tignamar-N	F083	7947275	451967	Ore	6	3.8	117	204	17	< 2	540	164	3.077
Tignamar-N	G031	7946328	452529	Kg/Kp/ Tgd	< 5	0.6	46	8	12	< 2	6.8	1.9	0.033
Tignamar-N	G032	7946345	452565	Qz vein	6	0.4	29	6	5	5	10	3.4	< 0.01
Tignamar-N	G034	7948211	452509	Kg/Kp/ Tgd	< 5	0.1	10	10	14	< 2	5.2	1.1	< 0.01
Tignamar-N	G036	7945975	452359	Qz vein	8	0.5	75	5	13	9	28	9	0.013
Tignamar-N	G037	7945581	452462	Kg/Kp/ Tgd	< 5	0.1	109	4	8	6	8.6	1.8	< 0.01
Tignamar-N	G038	7945229	452372	Kg/Kp/ Tgd	8	0.1	71	18	10	3	12	2.1	< 0.01
Tignamar-N	G039	7945097	452267	Kg/Kp/ Tgd	< 5	0.1	21	13	< 1	5	6.3	1.3	< 0.01
Tignamar-S	E035	7933213	460642	Tv1	< 5	0.1	11	3	5	5	272	1.4	< 0.01
Tignamar-S	E036	7933213	460642	Tv1	< 5	< 0.1	20	< 2	3	7	11	0.4	< 0.01
Tignamar-S	E042	7933283	460290	Tv1	< 5	0.4	3	7	2	4	8.6	3.5	0.159
Tignamar-S	E044	7933182	460182	Tv1	< 5	0.1	7	10	5	< 2	36	2.7	0.372
Tignamar-S	E046	7933029	459919	Tv1	< 5	< 0.1	21	3	71	3	20	0.4	0.346
Tignamar-S	E048	7932984	459896	Tv1	< 5	0.2	8	< 2	7	3	23	2.8	0.923
Tignamar-S	E049	7932877	459736	Qz vein	< 5	< 0.1	10	8	21	3	20	0.4	0.243
Tignamar-S	E050	7932845	459698	Ti	< 5	< 0.1	26	7	152	< 2	2.9	0.4	< 0.01
Tignamar-S	E051	7932833	459594	Tv1	8	0.1	29	17	10	5	37	0.9	0.167
Tignamar-S	E052	7932796	459535	Tv1	< 5	0.1	46	9	56	< 2	42	0.5	0.014
Tignamar-S	E054	7932651	459389	Tv1	< 5	< 0.1	8	8	6	< 2	78	0.3	0.599
Tignamar-S	F085	7932789	461661	Ti	< 5	< 0.1	17	10	18	3	4.9	0.8	0.055
Tignamar-S	F087	7932535	461730	Tv1	< 5	0.1	17	434	18	< 2	27	3.8	4.899
Tignamar-S	F089	7932678	461294	Ti	6	< 0.1	67	7	18	< 2	13	0.7	0.356
Tignamar-S	F091	7931857	460953	Ti	< 5	< 0.1	12	41	5	3	231	3.8	0.041
Tignamar-S	G040	7933605	461058	Ti	< 5	0.1	7	< 2	< 1	3	55	8.4	0.392
Tignamar-S	G041	7933697	461172	Ti	8	0.1	11	9	2	8	128	4.3	0.027
Tignamar-S	G042	7934300	460865	Ti	< 5	0.3	47	8	71	4	4.3	< 0.2	< 0.01
Tignamar-S	G044	7934216	460884	Ti	< 5	0.1	17	12	58	< 2	11	0.7	0.086
Tignamar-S	G045	7934214	461246	Ti	< 5	0.1	6	232	3	4	221	8.2	0.345
Tignamar-S	G046	7934094	461956	Tv1	< 5	0.1	15	111	3	< 2	21	6.3	0.605
Tignamar-S	G047	7933715	461927	Tv2	6	0.2	56	7	3	< 2	84	4	0.674
Tignamar-S	G048	7933414	462019	Tv3	< 5	0.1	29	13	52	< 2	6.6	0.4	0.172
Tignamar-S	G049	7933395	461696	Tv4	7	0.1	8	13	5	4	32	3	0.169
Tignamar-S	G050	7933501	461514	Ti	< 5	< 0.1	7	13	4	6	6.2	0.9	0.773
Tignamar-S	G051	7933138	461030	Ti	9	0.2	6	8	6	9	67	0.9	0.350
Camarones-QCFW	E084	7905235	433411	D	< 5	< 0.1	71	50	48	3	328	0.4	< 0.01
Camarones-QCFW	E085	7905235	433411	K	6	< 0.1	118	24	57	3	40	1	< 0.01
Camarones-QCFW	E086	7904962	432895	A	< 5	< 0.1	14	5	46	< 2	11	0.4	< 0.01
Camarones-QCFW	E088	7904986	432440	K	61	0.1	77	32	58	3	30	1.3	0.037
Camarones-QCFW	F126	7905350	432487	K	< 5	0.1	113	58	55	5	4.7	< 0.2	< 0.01
Camarones-QCFW	F127	7905360	432497	K	5	0.2	931	73	33	6	11	0.4	< 0.01
Camarones-QCFW	F128	7904875	432276	K	5	< 0.1	89	35	59	< 2	22	0.6	< 0.01
Camarones-QCFW	F129	7904980	432115	K	< 5	< 0.1	85	42	102	< 2	72	2.2	0.046
Camarones-QCFW	G081	7905297	433985	K	< 5	0.3	161	3	76	< 2	4.8	< 0.2	< 0.01
Camarones-QCFW	G112	7904900	432864	K	< 5	0.1	13	29	36	3	15	< 0.2	0.034
Camarones-QCFW	G114	7904809	432854	Qz vein	< 5	0.8	47	51	7	5	23	< 0.2	0.140
Camarones-QCFW	G116	7904809	432854	K	< 5	1.2	57	35	68	< 2	12	1.1	< 0.01
Camarones-QCFW	G118	7904692	432740	K	< 5	1	85	30	120	< 2	13	5.4	0.016
Camarones-QCFW	G119	7905262	433093	K	< 5	0.8	68	32	62	< 2	7.5	< 0.2	< 0.01
Camarones-QCFW	G122	7905234	433050	D	< 5	0.3	39	25	47	4	50	0.7	0.014
Camarones-QCW	E056	7906016	435312	K	< 5	0.1	17	< 2	77	3	8.5	0.4	< 0.01
Camarones-QCW	E057	7905872	435351	K	8	0.1	165	5	51	< 2	8.2	1.2	< 0.01
Camarones-QCW	E059	7905872	435351	Qp	9	0.4	236	16	13	7	4.9	0.6	< 0.01
Camarones-QCW	E065	7905748	434915	K	< 5	< 0.1	11	31	138	7	71	6.7	< 0.01
Camarones-QCW	E067	7905748	434915	K	< 5	0.8	25	126	167	19	108	5.3	0.015
Camarones-QCW	E074	7905817	434686	K	13	0.6	318	93	315	3	54	3.3	0.048
Camarones-QCW	E075	7905709	434631	K	< 5	< 0.1	9	6	208	3	21	2	< 0.01

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Locality	Sample No.	Coordinate		Geology	Au	Ag	Cu	Pb	Zn	Mo	As	Sb	Hg
		N	E		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Camarones-QCC	F190	7905622	439017	K	< 5	0.2	76	58	62	6	46	1.7	< 0.01
Camarones-QCC	F191	7905806	438738	K	< 5	0.3	7	56	126	8	296	7.1	0.023
Camarones-QCC	F192	7905831	438662	Dp	< 5	0.4	19	23	24	6	68	1.2	< 0.01
Camarones-QCC	F195	7905878	438645	Dp	< 5	0.5	18	34	34	6	96	6.4	< 0.01
Camarones-QCC	F197	7905941	438582	Dp	< 5	0.7	178	37	53	5	15	1.3	0.017
Camarones-QCC	F204	7905872	438143	Qd	< 5	0.3	15	16	20	5	30	1.2	< 0.01
Camarones-QCC	F205	7905872	438143	Qd	< 5	< 0.1	30	14	14	8	199	9.1	0.018
Camarones-QCCE	F189	7905087	439480	K	< 5	< 0.1	120	63	101	4	47	3.5	0.011
Camarones-QCE	F115	7905400	440325	K	170	0.6	309	32	283	18	41	1.7	0.023
Camarones-QCE	F117	7905231	440678	K	22	< 0.1	14	50	97	10	24	2.2	0.050
Camarones-QCE	F118	7905678	441581	K	122	0.4	21	83	133	7	24	3.4	< 0.01
Camarones-QCE	F119	7905633	441855	K	< 5	< 0.1	14	30	18	5	23	1.3	< 0.01
Camarones-QCE	H001	7906402	441960	Di	6	0.3	44	< 2	87	< 2	12	< 0.2	< 0.01
Camarones-QCE	H003	7906292	441851	Di	6	0.3	80	5	78	4	17	0.7	< 0.01
Camarones-QCE	H004	7906148	441553	K	41	0.8	21	8	20	13	73	6.3	0.014
Camarones-QCE	H005	7906148	441553	K	51	0.5	24	6	20	6	118	3.3	0.101
Camarones-QCE	H007	7905925	441292	K	< 5	0.2	10	5	79	< 2	38	1.5	< 0.01
Camarones-QCE	H010	7905899	441276	K	12	0.3	430	15	110	< 2	38	2.5	< 0.01
Camarones-QCS	E134	7902074	440914	KT	< 5	0.1	14	16	< 1	7	129	4.7	0.036
Camarones-QCS	E139	7902127	440819	KT	< 5	0.3	21	28	< 1	5	124	12	0.013
Camarones-QCS	E141	7902152	440754	KT	< 5	0.3	14	13	2	18	64	10	0.013
Camarones-QCS	E142	7902216	440685	KT	< 5	0.7	18	102	< 1	3	119	0.9	< 0.01
Camarones-QCS	E144	7902288	440635	KT	< 5	0.6	46	29	12	17	75	9.3	0.011
Camarones-QCS	E145	7902288	440635	KT	< 5	0.4	69	39	19	8	37	0.8	< 0.01
Camarones-QCS	E213	7903934	440089	KT	< 5	0.3	14	27	55	< 2	45	1.5	0.010
Camarones-QCS	E216	7903774	440451	KT	< 5	0.5	17	48	24	3	110	8.1	< 0.01
Camarones-QCS	E217	7903525	440060	KT	< 5	0.2	15	41	20	5	79	3.7	0.031
Camarones-QCS	E223	7903163	440237	KT	< 5	0.1	29	39	60	< 2	42	1.8	< 0.01
Camarones-QCS	E224	7902981	440338	KT	< 5	0.1	12	23	27	< 2	40	2	< 0.01
Camarones-QCS	E227	7902795	440900	KT	< 5	< 0.1	14	33	18	5	27	1	< 0.01
Camarones-QCS	E230	7902795	440900	B	< 5	< 0.1	137	51	32	7	21	1.1	0.017
Camarones-QCS	E238	7905039	439585	K	< 5	< 0.1	26	84	101	3	57	2.7	0.013
Camarones-QCS	F131	7902112	440180	KT	< 5	< 0.1	38	40	55	6	31	2.6	< 0.01
Camarones-QCS	F133	7902128	440194	KT	< 5	< 0.1	14	42	38	4	11	4.9	< 0.01
Camarones-QCS	F135	7902141	440202	KT	< 5	< 0.1	18	55	142	< 2	11	1.9	0.032
Camarones-QCS	F136	7902141	440202	Sil. Vein	< 5	< 0.1	27	64	338	5	16	1.8	0.061
Camarones-QCS	F137	7902153	440201	KT	< 5	0.2	92	114	47	7	174	6.6	< 0.01
Camarones-QCS	F138	7902170	440063	KT	< 5	< 0.1	6	131	4	9	62	5.3	0.015
Camarones-QCS	F139	7902290	440070	KT	< 5	0.5	12	37	3	4	78	8.5	< 0.01
Camarones-QCS	G124	7902204	440540	KT	< 5	0.2	24	38	< 1	20	92	4.4	< 0.01
Camarones-QCS	G126	7902204	440540	KT	< 5	< 0.1	29	52	< 1	14	95	3	< 0.01
Camarones-QCS	G128	7902181	440537	KT	< 5	< 0.1	31	36	< 1	16	88	14	< 0.01
Camarones-QCS	G130	7902058	440571	Qz vein	< 5	0.4	145	58	< 1	29	91	3.5	< 0.01
Camarones-QCS	G132	7902109	440591	KT	< 5	< 0.1	20	31	3	7	174	13	< 0.01
Camarones-QCS	G134	7902049	440525	KT	< 5	0.2	25	59	11	10	53	3.8	< 0.01
Camarones-QCS	G135	7902042	440527	KT	< 5	0.2	22	38	8	9	229	2	< 0.01
Camarones-QCS	G138	7902071	440479	Qz vein	< 5	0.1	32	22	12	3	89	0.8	< 0.01
Camarones-QCS	G139	7902071	440479	KT	< 5	0.2	59	42	21	10	217	0.9	< 0.01
Camarones-QCS	G188	7904012	440306	KT	7	< 0.1	20	29	17	5	36	2.7	0.033
Camarones-QCS	G189	7903955	440355	KT	< 5	< 0.1	15	37	16	3	60	2.6	0.024
Camarones-QCS	G191	7903923	440363	KT	< 5	< 0.1	8	27	32	< 2	71	2.2	< 0.01
Camarones-QCS	G193	7903836	440358	Qz vein	6	< 0.1	9	20	8	11	53	11	< 0.01
Camarones-QCS	G195	7903825	440426	KT	< 5	< 0.1	7	28	28	5	40	2.6	< 0.01
Camarones-QCS	G204	7904145	440194	KT	< 5	< 0.1	7	45	11	< 2	75	3.1	< 0.01
Camarones-QCS	H011	7902182	399840	K	< 5	0.1	9	17	5	5	38	7.4	< 0.01
Camarones-QCS	H012	7902520	439950	K	< 5	0.3	9	6	6	< 2	23	2.1	< 0.01
Camarones-QCS	H015	7902340	439812	K	< 5	0.1	25	16	13	5	23	1.4	< 0.01
Camarones-QCS	H016	7902340	439812	K	6	< 0.1	7	740	3	3	159	1.4	< 0.01
Camarones-QCS	H017	7902910	440082	K	64	0.4	72	47	58	11	92	29.9	1.344
Camarones-QCFE	E095	7906520	443694	Dp	< 5	< 0.1	45	4	58	5	6.1	0.3	< 0.01
Camarones-QCFE	E096	7906528	443991	Dp	< 5	< 0.1	63	7	72	3	2.9	< 0.2	< 0.01
Camarones-QCFE	E099	7905678	445782	Dp	< 5	0.2	174	12	79	5	5.3	0.4	< 0.01
Camarones-QCFE	G066	7904550	442248	Tw	< 5	0.3	9	12	14	< 2	94	2.8	< 0.01
Camarones-QCFE	G067	7905401	443000	K	8	0.2	89	4	79	< 2	1.9	0.2	< 0.01
Camarones-QCFE	G069	7905411	443659	K	< 5	0.1	56	5	76	< 2	2.7	< 0.2	< 0.01
Camarones-QCFE	G072	7904782	447481	Gd	< 5	< 0.1	89	12	81	6	9.3	0.9	< 0.01
Camarones-QCFE	G074	7904385	446568	Gd	< 5	0.2	60	23	433	3	7	0.8	< 0.01
Camarones-QCFE	G075	7904851	448245	Gd	< 5	< 0.1	108	10	86	< 2	7.2	0.5	< 0.01
Camarones-QCFE	G076	7906073	446486	Tw	< 5	0.2	8	20	43	< 2	11	0.7	< 0.01
Camarones-QCFE	G077	7906076	446596	Tc	< 5	0.1	351	18	66	4	11	1.1	< 0.01
Camarones-QCFE	G079	7906938	444863	Tp	< 5	0.1	13	19	35	< 2	18	< 0.2	< 0.01
Camarones-SM	E153	7898118	438836	Qd	< 5	0.5	448	41	42	3	10	< 0.2	0.022
Camarones-SM	E157	7898217	439022	Qd	< 5	0.3	52	29	58	4	23	0.7	0.013
Camarones-SM	E160	7898342	439020	Qd	< 5	0.2	14	25	49	4	14	0.8	0.016
Camarones-SM	E162	7898437	438981	Qd	7	0.5	17	17	12	3	7.2	< 0.2	0.015

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		N	E		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Camarones-SM	E163	7898546	438922	Qd	< 5	0.4	22	20	19	3	7.5	1.1	< 0.01
Camarones-SM	E165	7898500	438900	Qd	< 5	0.5	24	36	11	10	104	4.6	0.011
Camarones-SM	E167	7898352	438777	Qd	< 5	0.3	59	28	60	4	7.5	1	< 0.01
Camarones-SM	E168	7898218	438584	Qd	< 5	0.4	55	41	55	3	12	0.8	0.022
Camarones-SM	E172	7898143	438649	Qz vein	< 5	0.9	145	96	19	98	277	13	0.677
Camarones-SM	E174	7898034	438494	KT	< 5	0.3	16	20	21	4	11	1.2	0.016
Camarones-SM	E176	7898005	438681	Dp	< 5	0.4	471	45	63	4	5.3	< 0.2	< 0.01
Camarones-SM	E179	7898251	438972	Qd	< 5	0.2	107	42	85	3	27	0.6	0.012
Camarones-SM	F145	7901061	439011	Qd	< 5	0.2	62	34	45	3	26	1.7	0.018
Camarones-SM	F149	7901078	438990	Qd	< 5	0.1	69	32	42	5	23	1.6	0.018
Camarones-SM	F150	7901136	438959	Qd	30	1.3	12	50	52	3	16	1.7	< 0.01
Camarones-SM	F152	7901136	438959	Qd	8	3.8	10	69	90	9	16	1.6	0.012
Camarones-SM	G145	7899620	438957	Qd	< 5	0.1	159	44	90	< 2	32	2.1	0.049
Camarones-SM	G148	7899598	438751	Qd	< 5	0.2	89	35	47	7	18	< 0.2	0.014
Camarones-SM	G152	7898672	440524	Tw	< 5	0.1	3	34	17	5	14	0.6	0.015
Camarones-SM	G154	7898637	440486	Qd	< 5	0.2	108	48	64	4	26	4.1	0.022
Camarones-SM	G158	7898613	440459	Qz vein	38	0.1	44	18	12	< 2	16	7	< 0.01
Camarones-SM	G159	7898590	440359	Qd	32	0.3	9	53	15	9	19	6.9	0.021
Camarones-SM	G161	7898570	440157	Qd	5	0.4	6	31	35	< 2	33	4.1	< 0.01
Camarones-SM	G163	7898555	439704	Qd	14	0.8	11	24	7	< 2	24	3.1	0.016
Camarones-SM	G166	7898389	439457	Qd	< 5	< 0.1	109	46	85	6	9.2	0.5	< 0.01
Camarones-SM	G168	7898100	439144	Qd	< 5	< 0.1	32	49	56	3	13	0.9	< 0.01
Camarones-SMR	F141	7899129	443960	Tp	< 5	0.7	2	2	< 1	< 2	1.5	0.2	0.014
Camarones-SMR	F142	7900100	441000	Qc	< 5	1	4	5	16	< 2	< 1	0.2	0.020
Camarones-SMR	G150	7899296	436732	Qz vein	< 5	< 0.1	23	16	16	< 2	2.4	0.4	0.018
Camarones-MIDS	E148	7903131	438386	Tw	< 5	0.3	15	33	20	< 2	10	0.6	0.015
Camarones-FSE	F143	7900197	440921	Qc	< 5	0.9	4	6	4	< 2	< 1	< 0.2	0.058
Camarones-FSE	F144	7900667	440204	Tw	< 5	0.8	30	40	36	5	182	2.4	0.026
Camarones-CR	F157	7910065	439954	Tw	< 5	< 0.1	11	20	19	< 2	4.6	1.7	0.024
Camarones-CR	G170	7911590	436035	Qz vein	14	0.4	25	26	25	< 2	7.6	1.1	0.020
Camarones-MIDN	E132	7914821	429698	Qz vein	< 5	0.1	4	< 2	19	< 2	34	0.3	< 0.01
Camarones-MIDN	E133	7914358	426741	Qz vein	< 5	< 0.1	2	< 2	21	< 2	21	0.4	0.016
Camarones-NW	E100	7919079	426269	K	< 5	0.1	64	7	80	3	80	2.1	< 0.01
Camarones-NW	E102	7919088	426345	K	< 5	< 0.1	40	4	48	3	13	0.3	< 0.01
Camarones-NW	E104	7918999	426420	Qd	< 5	< 0.1	43	25	78	< 2	22	1.3	< 0.01
Camarones-NW	E106	7918999	426604	Qd	22	< 0.1	27	8	37	6	32	4.5	0.043
Camarones-NW	E107	7918999	426604	Qd	< 5	0.1	67	9	82	3	9.1	0.5	< 0.01
Camarones-NW	E110	7918820	426761	Qz vein	< 5	0.1	86	30	188	5	85	4	< 0.01
Camarones-NW	E111	7918864	426855	Qz vein	< 5	< 0.1	11	3	8	11	28	15	< 0.01
Camarones-NW	F206	7918997	426440	Qd	< 5	0.1	102	29	104	4	71	3.3	< 0.01
Camarones-NW	F207	7918953	426519	Qd	< 5	0.2	70	33	70	6	26	1.6	< 0.01
Camarones-NW	F208	7919040	426467	Qd	< 5	< 0.1	97	38	75	3	12	0.9	< 0.01
Camarones-NW	F209	7918817	426638	Qd	5	< 0.1	55	28	117	4	12	0.5	< 0.01
Camarones-NW	F212	7918796	426664	Qd	< 5	0.1	51	35	48	4	10	1	< 0.01
Camarones-NW	F215	7918676	426734	Qd	< 5	1	51	40	51	6	14	1.6	< 0.01
Camarones-NW	F217	7918632	427026	Qd	8	< 0.1	94	37	69	< 2	39	2.4	< 0.01
Camarones-NW	F218	7918857	427112	Qd	< 5	0.4	82	37	94	5	65	5	< 0.01
Camarones-NW	F219	7918917	427140	Qd	< 5	0.2	110	44	55	3	17	1.8	0.034
Camarones-NWR	H020	7919710	426912	Tw	7	0.3	10	17	13	4	67	0.9	< 0.01
Camarones-NWR	K001	7917980	417380	Tw	< 5	0.1	27	60	55	11	966	2.9	< 0.01

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L	
7914458	433147	4.0	1.5	0.375	7912840	435419	4.0	1.0	0.250	
		4.5	2.0	0.444			3.0	0.8	0.267	
		3.0	0.7	0.233			6.5	2.0	0.308	
		4.5	1.5	0.333			2.0	0.8	0.400	
		5.0	1.6	0.320			6.0	1.0	0.167	
		3.5	1.2	0.343			1.5	0.7	0.467	
		5.5	0.7	0.127			2.0	1.0	0.500	
		4.5	2.0	0.444			4.0	0.5	0.125	
		Average					0.328	3.0	1.0	0.333
								2.5	0.8	0.320
7915133	430905	11.0	1.0	0.091	6.0	1.5	0.250			
		5.5	2.0	0.364	2.0	1.0	0.500			
		3.0	1.0	0.333	6.5	2.0	0.308			
		7.0	2.0	0.286	4.5	2.5	0.556			
		6.0	1.0	0.167	2.0	2.0	1.000			
		6.0	0.8	0.133	2.5	0.8	0.320			
		5.0	0.8	0.160	8.0	1.5	0.188			
		6.0	0.5	0.083	3.0	0.8	0.267			
		8.0	3.0	0.375	7.5	2.0	0.267			
		4.0	1.0	0.250	7.0	2.2	0.314			
Average			0.224	2.0	0.8	0.400				
				4.0	0.7	0.175				
7914890	429649	19.0	2.0	0.105	5.0	1.0	0.200			
		6.0	0.8	0.133	3.0	1.0	0.333			
		5.0	1.3	0.260	5.5	1.0	0.182			
		4.5	0.6	0.133	4.0	0.7	0.175			
		6.5	1.0	0.154	2.5	0.8	0.320			
		9.0	1.2	0.133	3.0	3.0	1.000			
		7.0	1.8	0.257	6.5	1.4	0.215			
		3.0	1.7	0.567	11.0	2.0	0.182			
		8.0	4.5	0.563	7.5	0.5	0.067			
		6.0	1.0	0.167	24.5	2.7	0.110			
		8.0	1.3	0.163	Average			0.327		
		5.8	0.8	0.138						
		8.0	2.5	0.313	7912911	434635	25.0	5.0	0.200	
		9.0	1.6	0.178	5.5	2.0	0.364			
		8.5	1.4	0.165	4.0	2.7	0.675			
		7.0	1.0	0.143	2.7	0.8	0.296			
13.5	2.0	0.148	5.0	1.0	0.200					
9.0	3.0	0.333	3.0	0.7	0.233					
Average			0.225	6.0	2.2	0.367				
				7.5	0.7	0.093				
7914064	428444	6.0	0.7	0.117	5.5	2.0	0.364			
		6.0	0.7	0.117	7.5	2.5	0.333			
		5.0	1.0	0.200	6.5	2.0	0.308			
		2.8	0.5	0.179	5.0	1.8	0.360			
		4.3	0.7	0.163	6.0	1.8	0.300			
		3.0	0.5	0.167	4.5	1.8	0.400			
		5.5	0.8	0.145	3.7	1.0	0.270			
		4.0	1.0	0.250	5.7	1.2	0.211			
		3.5	0.6	0.171	4.0	0.5	0.125			
		2.5	0.7	0.280	7.5	1.8	0.240			
		3.0	0.5	0.167	5.5	1.1	0.200			
		Average			0.178	5.5	1.5	0.273		
						7.5	0.9	0.120		
						3.0	0.4	0.133		
						4.0	1.2	0.300		
				8.0	1.2	0.150				
				4.0	2.7	0.675				
				4.0	1.0	0.250				
				5.0	1.4	0.280				
				7.0	2.6	0.371				
				21.5	5.0	0.233				
				5.5	1.0	0.182				
				7.0	1.0	0.143				
				7.0	2.5	0.357				
				5.4	1.1	0.204				
				6.0	2.0	0.333				
				Average			0.281			

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L
7914026	431550	6.0	1.6	0.267	7904088	436786	4.7	1.0	0.213
		10.0	2.8	0.280			1.4	0.6	0.429
		7.6	1.2	0.158			4.8	1.0	0.208
		3.0	1.7	0.567			2.1	0.8	0.381
		4.0	1.2	0.300			1.8	1.0	0.556
		3.7	1.0	0.270			1.8	0.7	0.389
		7.5	1.0	0.133			2.5	0.7	0.280
		5.0	1.0	0.200			3.8	0.5	0.132
		3.5	1.2	0.343			0.8	0.6	0.750
		6.5	1.3	0.200			2.0	0.3	0.150
		3.0	0.8	0.267			1.7	0.4	0.235
		6.0	2.0	0.333			6.2	1.8	0.290
		6.0	1.2	0.200			2.5	0.8	0.320
		5.0	1.9	0.380			2.3	1.0	0.435
		9.5	1.8	0.189			3.0	1.7	0.567
		4.0	2.0	0.500			3.0	1.8	0.600
		2.0	1.0	0.500			4.0	1.0	0.250
		4.0	1.5	0.375			2.7	1.1	0.407
		20.0	3.5	0.175			4.1	1.5	0.366
		4.5	0.7	0.156			1.1	0.5	0.455
		6.5	1.1	0.169			4.0	1.4	0.350
		5.0	1.5	0.300			2.3	0.7	0.304
		2.0	0.8	0.400			1.4	0.7	0.500
		5.5	1.0	0.182			4.7	1.8	0.383
		6.0	1.0	0.167			2.9	2.0	0.690
		4.5	1.8	0.356			3.1	1.6	0.516
		5.0	1.2	0.240			1.8	0.7	0.389
10.3	2.3	0.223	2.0	0.5	0.250				
4.0	1.0	0.250	8.0	3.2	0.400				
6.5	1.5	0.231	3.8	1.0	0.263				
		Average		0.277	4.0	1.8	0.450		
7914130	429545	3.2	0.9	0.281	2.2	0.6	0.273		
		5.0	1.1	0.220	1.7	0.9	0.529		
		4.6	1.0	0.217	1.7	0.6	0.353		
		11.0	3.0	0.273	12.0	3.0	0.250		
		8.0	1.3	0.163	2.2	1.1	0.500		
		7.0	2.3	0.329	3.0	0.8	0.267		
		3.0	1.2	0.400	1.5	0.6	0.400		
		3.5	0.6	0.171	6.0	1.5	0.250		
		4.8	1.2	0.250	14.0	4.0	0.286		
		5.6	1.2	0.214	4.5	2.0	0.444		
		2.8	0.6	0.214	4.0	1.5	0.375		
		3.5	0.8	0.229			Average	0.377	
		4.0	1.0	0.250	7912144	439824	7.0	3.0	0.429
		5.0	1.0	0.200			8.0	1.0	0.167
		6.0	1.5	0.250			4.0	1.5	0.375
		4.0	1.1	0.275			8.0	2.0	0.250
		4.5	0.8	0.178			7.0	2.5	0.357
4.8	1.6	0.333	4.0	3.0			0.750		
5.0	1.3	0.260	4.0	1.5			0.375		
5.5	1.0	0.182	8.0	3.0			0.375		
		Average	0.244	6.0			1.0	0.167	
				8.0			1.5	0.188	
				6.0	1.0	0.167			
				9.0	3.0	0.333			
				6.0	3.0	0.500			
				4.0	1.0	0.250			
				6.0	2.5	0.417			
				15.0	3.0	0.200			
						Average	0.331		

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L			
7911977	439209	10.0	3.0	0.300	7912553	436327	10	3	0.300			
		7.0	2.0	0.286			7	3.5	0.500			
		6.0	2.0	0.333			9	2	0.222			
		3.0	1.0	0.333			6	2.5	0.417			
		5.0	2.5	0.500			6	1	0.167			
		5.0	1.5	0.300			6	1.5	0.250			
		5.0	1.5	0.300			7	1.5	0.214			
		6.5	3.0	0.462			5.5	1.5	0.273			
		11.0	4.5	0.409			14	2	0.143			
		3.5	2.0	0.571			6.5	2.5	0.385			
		3.5	1.0	0.286			9	2.5	0.278			
		15.5	4.6	0.297			14	3	0.214			
		3.0	1.5	0.500			8	3	0.375			
		4.0	1.5	0.375			16	3	0.188			
		7.0	2.0	0.286			6.5	2	0.308			
		7.0	4.0	0.571			6	2	0.333			
		8.0	2.5	0.313			15	1	0.067			
		5.0	2.0	0.400			6	2	0.333			
		4.5	2.0	0.444			9	3	0.333			
		13.0	5.0	0.385			Average	0.279				
		Average	0.383									
7912030	438297	9.0	2.0	0.222	7902368	435870	3.5	1	0.286			
		7.0	1.0	0.143			4.5	0.5	0.111			
		5.0	1.5	0.300			3.5	0.3	0.086			
		8.0	3.0	0.375			3.5	0.5	0.143			
		4.5	1.5	0.333			4	0.3	0.075			
		8.0	3.0	0.375			4	1	0.250			
		12.0	1	0.083			3	1	0.333			
		6.0	1.0	0.167			2.5	0.5	0.200			
		3.0	1.0	0.333			4	0.5	0.125			
		4.0	2.0	0.500			3.3	0.2	0.061			
		6.0	1.5	0.250			3	0.2	0.067			
		3.0	1.0	0.333			2	0.5	0.250			
		6.0	2.5	0.417			2.5	0.2	0.080			
		12.0	2.0	0.167			4	0.2	0.050			
		8.0	2.0	0.250			4	0.5	0.125			
		8.5	1.0	0.118			Average	0.149				
		6.0	2.0	0.333								
		13.0	3.5	0.269			7902537	435444	2.5	0.5	0.200	
		6.0	1.5	0.250			3	1	0.333			
		8.5	2.0	0.235			3	0.5	0.167			
Average	0.273		3	0.2	0.067							
			2	0.2	0.100							
			2.5	0.2	0.080							
			2	0.2	0.100							
			3.5	0.5	0.143							
			3	0.5	0.167							
			4	1	0.250							
			3	0.2	0.067							
			2.5	0.2	0.080							
			2	0.5	0.250							
			3	0.2	0.067							
			4	1	0.250							
			2	0.2	0.100							
			2	0.2	0.100							
			2	0.2	0.100							
			4	0.2	0.050							
			2	0.2	0.100							
			4	0.5	0.125							
			Average	0.136								
7912143	436799	12.0	1.5	0.125	7915604	446148	6.4	4	0.625			
		8.0	1.5	0.188			7	3	0.429			
		10.0	1.5	0.150			2.4	1.6	0.667			
		5.0	1.0	0.200			6	3.2	0.533			
		8.0	2.0	0.250			3.2	2.6	0.813			
		6.5	1.5	0.231			Average	0.613				
		8.0	1.5	0.188								
		8.0	1.0	0.125								
		3.5	1.0	0.286								
		4.0	1.0	0.250								
		4.0	1.0	0.250								
		5.5	1.0	0.182								
		3.5	1.0	0.286								
		12.0	4.0	0.333								
		5.0	1.5	0.300								
		5.5	2.0	0.364								
5.5	1.0	0.182										
13.0	3.0	0.231										
11.0	2.0	0.182										
16.5	3.0	0.182										
8.0	2.0	0.250										
5.0	1.0	0.200										
8.6	2.0	0.233										
12.0	2.0	0.167										
15.0	5.8	0.387										
8.0	1.5	0.188										
8.0	2.0	0.250										
8.0	3.0	0.375										
Average	0.233											

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L			
7914866	444887	3.0	5.2	1.733	7901273	438249	5	4	0.800			
		5.2	1.2	0.231			7	3	0.429			
		1.3	1.0	0.769			2.5	3	1.200			
		1.5	0.9	0.800			3.5	3	0.857			
		2.2	1.4	0.636			10	4.5	0.450			
		1.4	0.8	0.571			4	2.5	0.625			
		2.8	1.0	0.357			3.5	2	0.571			
		2.2	1.2	0.545			5.5	2	0.364			
		1.4	0.8	0.571			5	2	0.400			
		1.0	1.4	1.400			8	2.5	0.313			
		Average	0.742			Average	0.601					
7914780	444807	11.0	3.5	0.318	7901376	436985	5	2.5	0.500			
		3.3	2.7	0.818			4	2.5	0.625			
		6.5	1.6	0.246			3.5	2	0.571			
		9.5	4.0	0.421			4	2.5	0.625			
		6.3	3.5	0.556			4.5	2	0.444			
		2.0	1.8	0.900			4	2	0.500			
		9.0	4.0	0.444			4	2	0.500			
		3.0	2.5	0.833			5.5	2	0.364			
		8.0	2.5	0.313			4	1.5	0.375			
		9.0	3.0	0.333			4	2	0.500			
		Average	0.518			6	2.5	0.417				
						9	4	0.444				
						Average	0.489					
7913696	442787	12.0	4.0	0.333	7901424	436587	4	2	0.500			
		7.6	2.5	0.329			5	2	0.400			
		3.5	2.0	0.571			4.5	2	0.444			
		4.0	2.5	0.825			6	2	0.333			
		5.7	2.5	0.439			9	2.5	0.278			
		5.5	2.8	0.509			2.5	2	0.800			
		4.5	2.3	0.511			10	4	0.400			
		8.0	4.5	0.563			9	4.5	0.500			
		6.0	3.0	0.500			9	5	0.556			
		8.0	4.0	0.500			6	2	0.333			
		Average	0.488			12	3	0.250				
						7	4.5	0.643				
						Average	0.453					
7913607	442489	8.5	4.5	0.529	7901356	435566	5	2.5	0.500			
		7.5	3.5	0.467			3.5	1.5	0.429			
		5.7	1.7	0.298			5.5	2.5	0.455			
		15.0	2.8	0.187			5	2	0.400			
		7.3	2.0	0.274			5	2.5	0.500			
		17.0	4.8	0.282			5	1.5	0.300			
		5.5	3.0	0.545			10	4.5	0.450			
		4.3	2.8	0.651			7	2	0.286			
		3.3	1.8	0.545			8	2.5	0.313			
		7.2	3.7	0.514			12	5.5	0.458			
		Average	0.429			8	2	0.250				
						5	3	0.600				
						Average	0.412					
7913182	441887	8.0	3.0	0.375	7901074	433994	3.5	2	0.571			
		1.6	1.3	0.813			8	1.5	0.188			
		3.4	3.0	0.882			2.5	1	0.400			
		5.5	2.5	0.455			4	1.5	0.375			
				Average			0.631			8	2.5	0.313
										3.5	3	0.857
										4.5	2	0.444
										4.5	1.5	0.333
										3.5	2	0.571
										4.5	2	0.444
						4	2	0.500				
						6	3	0.500				
						Average	0.458					
7899513	437727	9.0	2.0	0.222								
		8.4	3.5	0.417								
		8.0	1.2	0.150								
		8.6	1.8	0.209								
		4.6	1.6	0.348								
		17.0	4.0	0.235								
		6.0	1.0	0.167								
		7.0	1.5	0.214								
		2.4	6.0	2.500								
		1.0	3.0	3.000								
		Average	0.746									

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L		
7899978	442576	4.5	1.0	0.222	7912867	425545	13.5	4	0.296		
		4.0	1.0	0.250			10	1.5	0.150		
		3.0	0.5	0.167			7	1.3	0.186		
		3.5	1.0	0.286			5	0.9	0.180		
		2.0	0.2	0.100			6	2	0.333		
		2.0	0.2	0.100			8	1.3	0.163		
		4.0	1.0	0.250			7	1.3	0.186		
		3.0	0.5	0.167			2	0.4	0.200		
		3.0	0.5	0.167			Average		0.212		
		4.5	0.5	0.111			7911109	423297	6.5	1	0.154
		8.0	2.0	0.250					6	2	0.333
		4.0	0.5	0.125					3.5	1	0.286
		3.5	0.5	0.143					3.7	1.3	0.351
		Average		0.180					2.8	0.8	0.286
7910321	428395	5.0	2.5	0.500	8.5	2.3	0.271				
		4.0	1.0	0.250	4.7	0.7	0.149				
		5.5	1.0	0.182	7	2	0.286				
		3.5	1.0	0.286	Average		0.264				
		3.0	0.5	0.167	7909069	446351	6	2	0.333		
		7.0	2.0	0.286			6.5	1	0.154		
		11.0	2.5	0.227			6	2	0.333		
		5.0	2.0	0.400			7	1	0.143		
		3.5	1.0	0.286			7	1.5	0.214		
		3.5	1.0	0.286			5	1.5	0.300		
		4.0	1.0	0.250			7	1.5	0.214		
2.5	5.0	2.000	5	1			0.200				
Average		0.427	5.5	1	0.182						
7910407	428151	4.5	1.5	0.333	5	1	0.200				
		3.5	1.5	0.429	4	1	0.250				
		3.0	2.0	0.667	6	1	0.167				
		5.0	0.5	0.100	Average		0.224				
		6.0	0.5	0.083	7908903	444751	5	3.5	0.700		
		4.5	1.5	0.333			3	2.5	0.833		
		6.5	1.0	0.154			4	3.5	0.875		
		5.0	3.5	0.700			3.5	2.5	0.714		
		5.0	1.0	0.200			2.5	1.5	0.600		
		4.5	1.5	0.333			4	2.5	0.625		
		5.0	1.0	0.200			5	2.5	0.500		
		6.5	1.5	0.231			5	2	0.400		
		Average		0.314			3	2	0.667		
7910562	427604	6.0	2.0	0.333			7.5	2.5	0.333		
		6.0	1.5	0.250	8	6	0.750				
		6.0	2.0	0.333	7.5	2.5	0.333				
		6.0	1.5	0.250	Average		0.611				
		4.0	2.0	0.500	7987052	443636	5.5	2	0.364		
		7.0	3.5	0.500			4.5	1	0.222		
		10.0	4.0	0.400			5	2	0.400		
		7.0	4.0	0.571			5	2.5	0.500		
		8.0	2.0	0.250			8	2	0.250		
		4.5	1.5	0.333			8	2.5	0.313		
4.0	1.0	0.250	15	2			0.133				
2.5	1.0	0.400	12	2			0.167				
Average		0.364	8.5	1.5			0.176				
7910770	426420	2.0	1.0	0.500			6.5	1	0.154		
		2.0	1.0	0.500	15	3	0.200				
		4.0	1.5	0.375	6	1	0.167				
		3.5	1.0	0.286	Average		0.254				
		4.0	1.0	0.250	7908429	443102	11	3	0.273		
		2.5	0.5	0.200			9	1.5	0.167		
		2.0	0.5	0.250			6	2	0.333		
		6.0	2.0	0.333			5	1	0.200		
		2.5	1.0	0.400			8	1	0.125		
		2.5	1.0	0.400			4.5	1	0.222		
4.0	0.5	0.125	12	2			0.167				
4.0	1.0	0.250	6	2			0.333				
Average		0.322	10	2			0.200				
			8	2.5			0.313				
			9.5	2.5	0.263						
			9	2.5	0.278						
			Average		0.239						

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L
7909930	438532	2.0	3.0	1.500	7909199	441488	12.5	3	0.240
		3.0	2.0	0.667			6	1.2	0.200
		7.0	3.5	0.500			8.5	3	0.353
		5.0	2.5	0.500			7.5	0.8	0.107
		8.5	5.5	0.647			7.5	0.9	0.120
		4.0	2.5	0.625			7.5	1	0.133
		3.0	2.5	0.833			5.5	2	0.364
		5.0	2.0	0.400			8	1.2	0.150
		5.0	2.0	0.400			5	1	0.200
		4.0	2.5	0.625			6	1.5	0.250
		5.0	3.0	0.600			10.5	3.5	0.333
		Average		0.663			5.2	1.5	0.288
		7898863	441178	5.0			1.0	0.200	9.8
3.0	1.5			0.500	5	1.8	0.360		
6.0	1.5			0.250	7.5	2	0.267		
6.0	2.0			0.333	5	1.8	0.360		
6.0	2.0			0.333	6.5	2	0.308		
5.0	1.0			0.200	7	2	0.286		
7.0	1.0			0.143	7	2.2	0.314		
5.5	1.0			0.182	15.5	3.5	0.226		
5.0	1.5			0.300	8	3	0.375		
6.5	2.0			0.308	5	1.8	0.360		
7.5	2.0			0.267	9	1.5	0.167		
6.0	2.5			0.417	11	2.5	0.227		
Average				0.286	6	1.8	0.300		
7898848	440851	4.0	2.0	0.500	6	3.5	0.583		
		3.5	2.0	0.571	8.5	2	0.235		
		4.0	1.5	0.375	Average		0.270		
		5.0	3.0	0.600	7909495	443044	9	1.8	0.200
		4.5	2.0	0.444			3	2	0.667
		4.5	2.5	0.556			3	1.5	0.500
		3.0	2.0	0.667			7	1.6	0.229
		5.0	1.5	0.300			3.5	1	0.286
		3.0	1.0	0.333			4	1.5	0.375
		4.0	1.5	0.375			7	0.5	0.071
		4.0	1.5	0.375			3.5	1	0.286
		4.0	2.0	0.500			9	1.5	0.167
		Average		0.466			6.5	2.5	0.385
7911225	442179	2.5	0.5	0.200			7.5	1	0.133
		3.5	0.5	0.143			9	3	0.333
		2.0	0.5	0.250			5.5	2	0.364
		3.5	0.9	0.257	4	1	0.250		
		2.5	0.4	0.160	5.5	0.8	0.145		
		2.0	0.4	0.200	5	1.8	0.360		
		Average		0.202	7.5	1	0.133		
7910193	440237	5.0	2.0	0.400	8	3.5	0.438		
		6.5	2.0	0.308	6.5	2	0.308		
		9.0	2.5	0.278	5.5	1.8	0.327		
		9.0	2.5	0.278	5	1.8	0.360		
		19.0	3.5	0.184	7.8	3	0.385		
		5.5	1.0	0.182	Average		0.305		
		9.5	2.5	0.263	7909592	443733	7.5	3	0.400
		6.5	3.0	0.462			8	3	0.375
		4.5	2.0	0.444			10.5	4.5	0.429
		18.5	4.5	0.243			4.5	2.3	0.511
		13.0	3.2	0.246			8.5	2	0.235
		10.5	2.0	0.190			12.5	2	0.160
		8.5	2.0	0.235			4	1.5	0.375
14.5	6.0	0.414	5.5	2			0.364		
11.0	2.2	0.200	7.5	2.8			0.373		
Average		0.288	10	1.3			0.130		
			7.5	1.8			0.240		
			Average				0.327		

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L
7910237	445513	4.0	1.5	0.375	7898048	435998	10	2.5	0.250
		6.3	1.3	0.206			7	2	0.286
		5.0	1.5	0.300			6.5	2.5	0.385
		5.5	1.5	0.273			5	1.5	0.300
		7.5	2.5	0.333			7	4	0.571
		8.5	2.0	0.235			5	2	0.400
		8.0	2.5	0.313			3	1	0.333
		10.0	2.0	0.200			5.5	1.5	0.273
		4.5	1.3	0.289			9	2.5	0.278
		8.8	1.0	0.114			5	1.5	0.300
		5.0	1.0	0.200			4	1	0.250
		5.0	1.0	0.200			4	1	0.250
		8.5	2.0	0.235			11	2	0.182
		6.8	1.5	0.221			4	1.5	0.375
		5.0	1.5	0.300			7	2	0.286
		5.5	1.8	0.327			7	2.5	0.357
		8.0	2.0	0.250			8	2.5	0.313
		5.0	1.8	0.360			8	2	0.250
		5.0	0.5	0.100			7	1.5	0.214
		7.0	3.0	0.429			9	2	0.222
		8.5	2.8	0.329			6	2	0.333
		9.5	3.0	0.316			Average		0.305
		5.0	0.8	0.160			7911237	433875	1.5
8.5	2.8	0.329	1.8	1	0.556				
8.3	2.8	0.337	2	0.5	0.250				
22.5	3.0	0.133	1	0.8	0.800				
4.6	1.4	0.304	2	1	0.500				
6.0	1.8	0.300	1.2	1	0.833				
5.5	1.5	0.273	1.5	0.5	0.333				
7.0	2.0	0.286	1.2	0.6	0.500				
7.0	1.8	0.257	1	0.8	0.800				
Average		0.267	1.2	0.8	0.667				
7896870	442349	9.0	3.0	0.333	1.6	1			0.625
		4.0	2.5	0.625	1.5	1	0.667		
		2.0	1.5	0.750	Average		0.578		
		3.5	3.0	0.857	7916696	425014	4.5	2.5	0.556
		4.0	2.5	0.625			6.5	3.5	0.538
		4.0	2.5	0.625			4	2.5	0.625
		3.5	2.0	0.571			4	2.5	0.625
		2.5	1.5	0.600			3	1.5	0.500
		2.5	1.5	0.600			3.5	2	0.571
		3.5	2.5	0.714			7	3	0.429
		Average		0.630			2	1	0.500
		5.0	1.5	0.300			9	1	0.111
		14.0	3.5	0.250			4	1.5	0.375
		7.0	1.5	0.214	2	1	0.500		
		10.0	3.5	0.350	3.5	3	0.857		
		5.0	3.5	0.700	Average		0.516		
		10.0	3.0	0.300	7916696	425014	4.5	5	1.111
		7.0	2.0	0.286			6.5	2	0.308
		6.0	2.0	0.333			4	2	0.500
		4.5	2.5	0.556			4	1.5	0.375
		6.5	3.0	0.462			3	2.5	0.833
		5.0	2.0	0.400			3.5	8.5	2.429
		5.0	1.5	0.300			7	2.5	0.357
		5.0	2.0	0.400			2	3	1.500
		8.5	1.5	0.231			9	2	0.222
		6.0	2.0	0.333			4	2	0.500
		Average		0.361	2	4	2.000		
					3.5	1.5	0.429		
					Average		0.880		

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

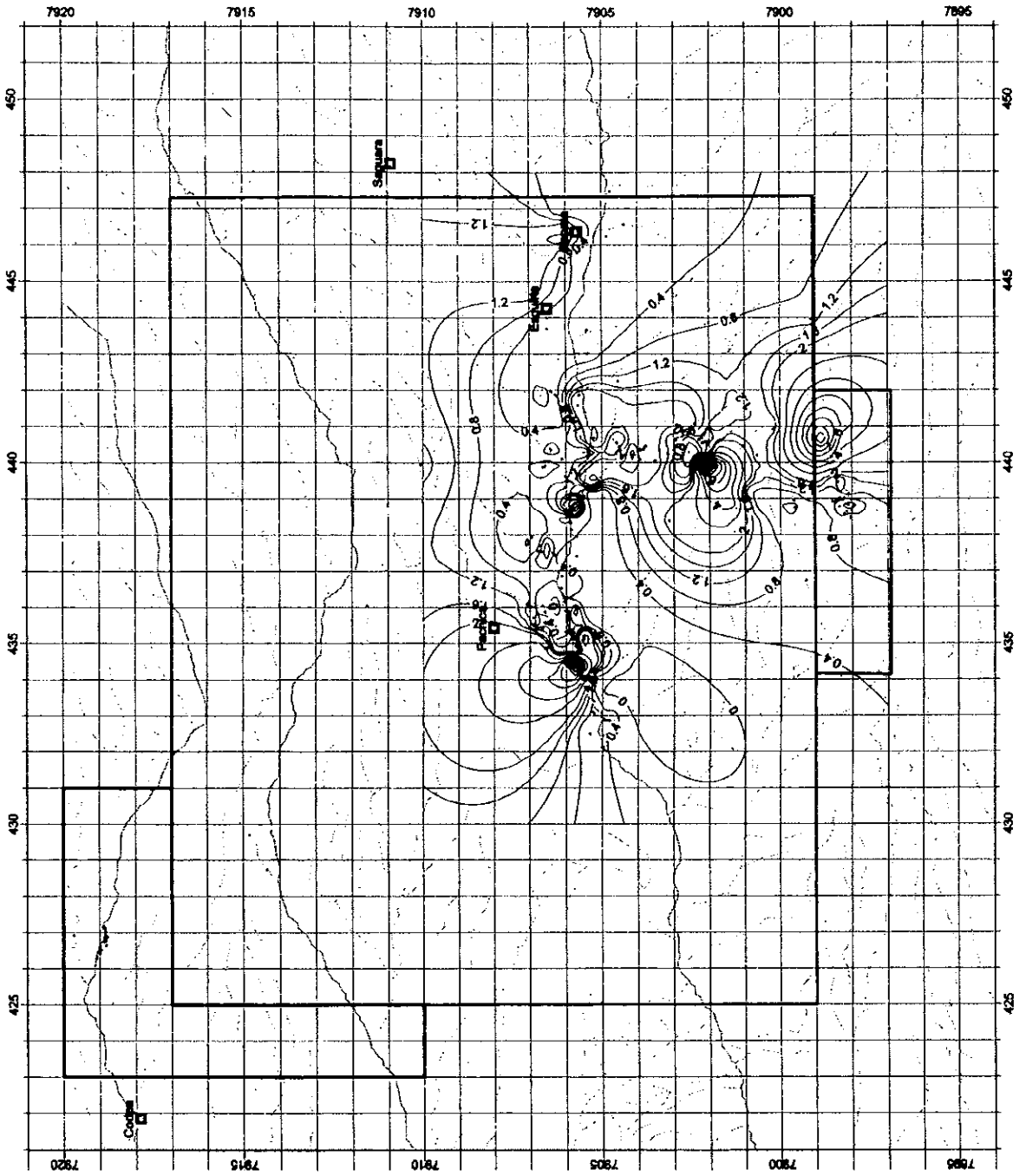
Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L
7917340	424317	5.0	1.0	0.200	7919782	426210	4.5	0.5	0.111
		3.5	1.0	0.286			4.5	2	0.444
		6.5	2.0	0.308			2	0.5	0.250
		4.5	2.0	0.444			2	0.3	0.150
		5.0	2.0	0.400			3.5	1	0.286
		3.0	1.5	0.500			5.5	1	0.182
		2.5	1.0	0.400			10	1	0.100
		2.5	1.5	0.600			11	1	0.091
		7.0	1.5	0.214			3.5	0.5	0.143
		3.0	1.0	0.333			7	0.5	0.071
		2.0	1.0	0.500				Average	0.183
		5.5	1.5	0.273					
			Average	0.372					
7917415	423756	5.0	2.5	0.500	7919744	427523	14	4	0.286
		6.0	1.5	0.250			2.5	0.5	0.200
		6.0	1.0	0.167			9	4	0.444
		6.5	1.0	0.154			5	1	0.200
		7.0	1.5	0.214			4.5	0.5	0.111
		3.0	1.0	0.333			8	2	0.250
		8.0	1.0	0.125			4	1.5	0.375
		6.0	1.0	0.167			8	1.5	0.188
		5.0	1.5	0.300			4	1.5	0.375
		6.0	1.0	0.167			6.5	2.5	0.385
		9.0	2.0	0.222				Average	0.281
		5.0	1.0	0.200					
			Average	0.233					
7917948	422340	4.0	1.5	0.375	7919920	428483	6	1.4	0.233
		4.5	3.0	0.667			5	1.5	0.300
		4.0	2.0	0.500			8	1.5	0.188
		3.5	1.0	0.286			9	1.5	0.167
		7.5	3.0	0.400			6	3	0.500
		2.5	1.0	0.400			8	3	0.375
		4.0	1.5	0.375			14	4	0.286
		5.0	1.0	0.200			4	0.5	0.125
		6.0	2.0	0.333			10	5	0.500
		3.0	2.0	0.667			5.5	1.5	0.273
		7.0	3.5	0.500				Average	0.295
		7.0	1.0	0.143					
			Average	0.404					
7908782	437461	8.0	1.0	0.125	7919710	428672	6.5	1.8	0.277
		6.0	0.5	0.083			4	0.5	0.125
		3.5	0.7	0.200			3.5	0.5	0.143
		14.0	3.5	0.250			7	0.3	0.043
		6.0	0.5	0.083			5.5	1	0.182
		13.0	1.0	0.077			5	0.7	0.140
		3.0	0.5	0.167			8	1.8	0.225
		3.5	0.3	0.086			7	1.2	0.171
		9.0	1.0	0.111			8	1.5	0.188
		4.0	0.5	0.125			14	3.5	0.250
			Average	0.131				Average	0.174
		7909683	432043	22.0			6.5	0.295	7918088
19.0	3.5			0.184	5	1	0.200		
20.0	6.0			0.300	9	3.8	0.422		
11.0	3.0			0.273	9	1	0.111		
5.0	0.8			0.160	4.5	2	0.444		
4.0	0.7			0.175	11	2	0.182		
4.0	1.0			0.250	4	1.5	0.375		
10.0	3.5			0.350	8.5	2	0.235		
9.0	2.0			0.222	6	1.5	0.250		
20.0	1.5			0.075	11	3	0.273		
15.0	7.0			0.467		Average	0.272		
	Average			0.250					
7917787	419908				7917787	419908	6	1.2	0.200
							2.5	0.5	0.200
							2.5	1	0.400
							3	0.3	0.100
							6	1	0.167
							5.5	0.3	0.055
							4	0.5	0.125
							2.5	0.6	0.240
							3	0.5	0.167
							2.5	0.5	0.200
							4.5	0.5	0.111
								Average	0.179

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L
7910836	435485	6.5	3.5	0.538	7917635	421730	3	1	0.333
		4.0	2.5	0.625			3.7	1.5	0.405
		2.5	1.2	0.480			3.5	0.5	0.143
		5.0	1.6	0.320			2.8	0.6	0.214
		3.1	1.1	0.355			3.3	0.5	0.152
		4.5	2.0	0.444			7	0.8	0.114
		3.2	1.6	0.500			4	1	0.250
		3.0	1.3	0.433			4.3	0.5	0.116
		2.8	0.8	0.286			3.5	0.2	0.057
		2.6	0.8	0.308			3	0.4	0.133
		2.8	1.1	0.393			4.2	0.3	0.071
		3.4	0.5	0.147			3	1	0.333
		2.5	1.8	0.720			6.5	0.5	0.077
		3.3	1.5	0.455			4.5	0.6	0.133
		2.9	1.5	0.517			3.5	0.3	0.086
		2.6	1.3	0.500			3.5	1	0.286
		2.0	1.5	0.750			3	1	0.333
		2.5	0.6	0.240			5.5	0.3	0.055
		1.6	1.2	0.750			3	0.5	0.167
		2.7	1.2	0.444			4	0.5	0.125
		3.1	0.5	0.161			Average		0.179
		2.5	1.0	0.400					
		6.0	2.5	0.417	7918058	425002	2.2	0.5	0.227
		2.5	0.8	0.320			2	0.7	0.350
		3.0	0.4	0.133			3.6	0.9	0.250
		4.8	1.8	0.375			3.5	0.8	0.229
		2.7	0.5	0.185			3.7	1	0.270
		3.2	0.5	0.156			4.4	1.3	0.295
		2.6	1.1	0.423			2	0.7	0.350
		2.2	0.8	0.364			4.8	0.9	0.188
		Average		0.405			5.6	1	0.179
							2.3	0.8	0.348
7909546	431468	5.0	2.0	0.400			2.4	0.6	0.250
		4.5	1.8	0.400			1.5	0.5	0.333
		10.3	2.2	0.214			2.3	1	0.435
		5.5	0.8	0.145			2.3	0.4	0.174
		5.0	1.0	0.200			1.5	0.8	0.533
		6.3	1.2	0.190			6.2	1.1	0.177
		3.6	0.8	0.222			3.7	0.9	0.243
		4.5	1.0	0.222			2.3	0.6	0.261
		4.2	1.5	0.357			3.1	0.9	0.290
		3.3	0.8	0.242			5	1	0.200
		5.5	1.3	0.236			2.7	0.4	0.148
		4.0	0.8	0.200			5	1.1	0.220
		6.5	1.1	0.169			6.8	2.3	0.338
		4.6	1.3	0.283			Average		0.273
		3.3	1.0	0.303					
		6.2	2.0	0.323	7917959	424977	4.9	2	0.408
		4.1	1.0	0.244			10.3	2	0.194
		3.6	1.5	0.417			6.6	1.2	0.182
		4.3	1.3	0.302			3.7	2	0.541
		3.5	1.0	0.286			5	0.7	0.140
		4.1	1.2	0.293			4.7	0.8	0.170
		5.6	1.0	0.179			6.5	1.5	0.231
		18.1	4.6	0.254			4.7	0.7	0.149
		Average		0.264			6	3.2	0.533
							6.7	1.7	0.254
							9.7	2.5	0.258
							4.8	0.6	0.125
							6.5	1	0.154
							5	2	0.400
							3.7	1.7	0.459
							6	1.7	0.283
							6.2	0.7	0.113
							4.7	0.8	0.170
							5.3	0.9	0.170
							6.4	1	0.156
							Average		0.255

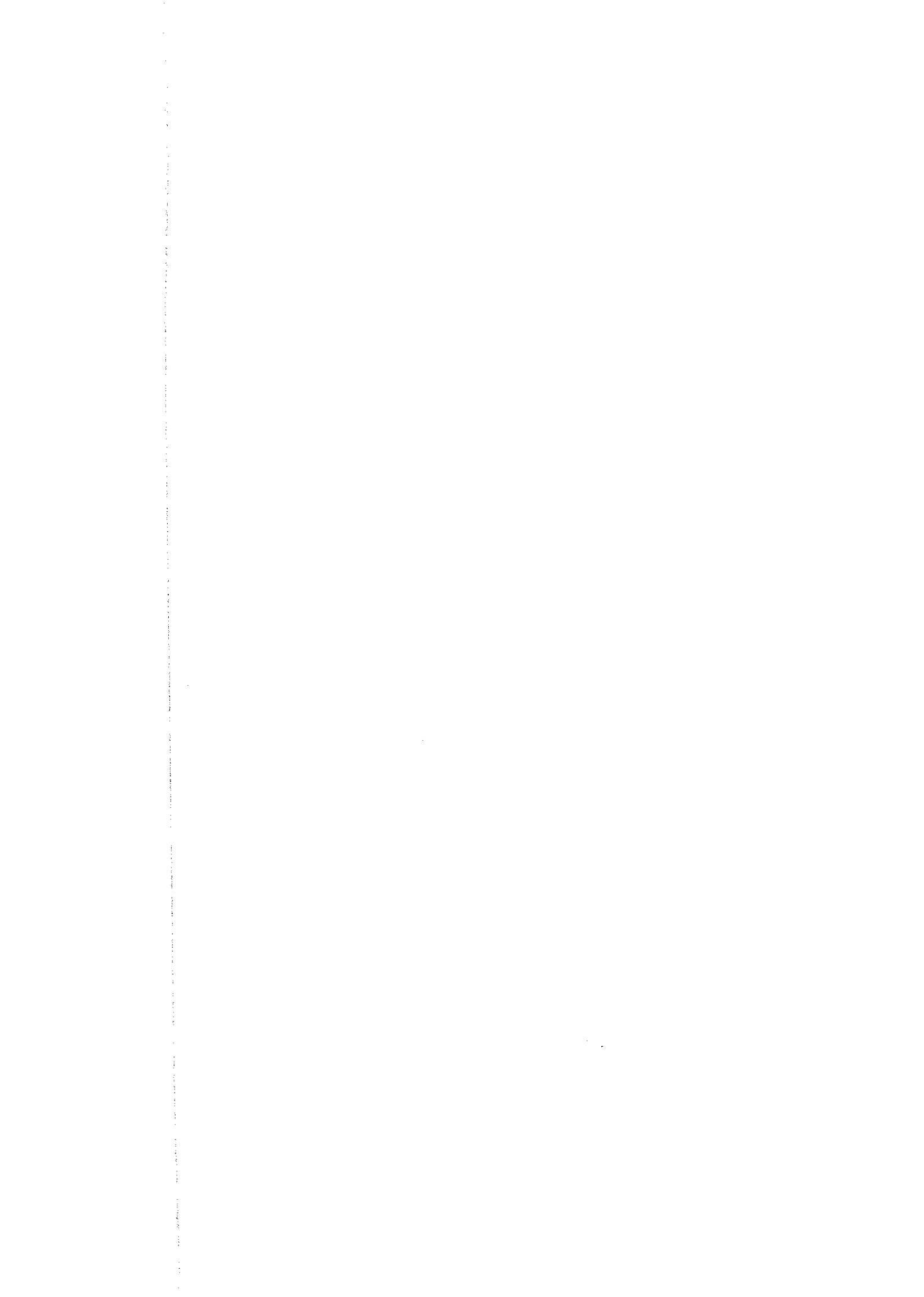
AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L	
7917988	423624	7.5	1.2	0.160						
		6.8	1.8	0.265						
		4.8	0.6	0.125						
		7.0	1.5	0.214						
		9.0	2.0	0.222						
		4.5	1.0	0.222						
		6.3	1.0	0.159						
		5.0	1.2	0.240						
		3.7	0.8	0.216						
		9.0	2.0	0.222						
		2.7	0.6	0.222						
		4.5	3.4	0.756						
		11.4	2.0	0.175						
		6.0	2.5	0.417						
		5.3	2.5	0.472						
		4.3	0.8	0.186						
		4.0	1.5	0.375						
		6.7	1.7	0.254						
		5.0	1.6	0.320						
		3.7	1.8	0.486						
3.6	1.8	0.500								
4.8	1.6	0.333								
6.5	2.5	0.385								
7.3	1.5	0.205								
		Average		0.297						
7917849	423278	9.6	2.6	0.271						
		4.6	1.8	0.391						
		14.0	3.6	0.257						
		10.5	3.0	0.286						
		6.0	1.0	0.167						
		8.0	1.7	0.213						
		3.0	0.8	0.267						
		3.5	0.7	0.200						
		5.0	1.7	0.340						
		7.0	1.4	0.200						
		12.8	1.9	0.148						
		9.3	2.6	0.280						
		5.8	1.6	0.276						
		5.0	0.7	0.140						
		8.8	2.0	0.227						
		5.1	1.5	0.294						
		3.2	1.6	0.500						
		5.8	1.7	0.293						
		11.0	1.8	0.164						
		3.7	1.1	0.297						
		5.9	1.5	0.254						
		3.0	0.5	0.167						
		3.2	1.0	0.313						
		3.5	0.9	0.257						
		3.4	1.0	0.294						
		3.3	1.3	0.394						
		4.5	1.0	0.222						
3.5	1.0	0.286								
3.5	1.3	0.371								
8.2	1.2	0.146								
17.5	5.0	0.286								
9.0	0.7	0.078								
		Average		0.259						
7912280	433179	8.0	2.5	0.313						
		7.0	3.0	0.429						
		9.0	2.3	0.256						
		5.0	2.0	0.400						
		6.0	2.3	0.383						
		5.0	2.0	0.400						
		3.5	1.5	0.429						
		4.5	2.5	0.556						
		17.0	0.4	0.024						
		5.0	2.0	0.400						
		4.5	2.0	0.444						
		5.0	1.5	0.300						
9.0	5.0	0.556								
		Average		0.376						



AP-9 Pb/Cu Contours in the Southern Camarones Area





AP-10 (1) Observed Features on Survey Routes (Phase 1)

Outcrop No.	Location	Coordinate N, E	Sample No.	Geo Chem	Ore Assay	Dating	X-ray	Thin Section	Polished Section	Fluid Inclusion	Rock facies							Mineralization					Alteration			Oxidation/Leaching				Note								
											Formation / Intrusive	Rock Name	Color	Size of Phenocryst	Crystallinity	Hardness	Porosity	Others	Type	Size	Structure	Ore minerals	Texture of Qz v.	Qz v. density /m	Gangue minerals	Intensity	Color	Minerals	Color		Minerals	Type of boxwork	Relict					
LB-18	Queen Elizabeth-C	7804725	504155	B023	O						K1	?																							arg. struc. Indistinct			
LB-19	Queen Elizabeth-C	7804632	504016	B024	O						K1	?																						arg. struc. Indistinct				
LA-5	Queen Elizabeth-S	7803684	504060	A008	O						Tg	?	wt	?	?	s	s																					
LA-5	Queen Elizabeth-S	7803684	504060	A009				O			Tg	ditto																										
LA-5	Queen Elizabeth-S	7803684	504060	A010					O		Tg	ditto																							photo			
LA-6	Queen Elizabeth-S	7803750	504118	A011					O		K1	And	bk	?	?	s	s																					
LA-6	Queen Elizabeth-S	7803750	504118	A012					O		K1	ditto																										
LA-6	Queen Elizabeth-S	7803750	504118	A013					O		K1	ditto																										
LA-6	Queen Elizabeth-S	7803750	504118	A014					O		K1	ditto																								Bi/for Dating		
LA-6	Queen Elizabeth-S	7803750	504118	A020					O		K1	ditto																										
LA-7	Queen Elizabeth-S	7803824	504262	A015	O						K1	volc?	wt	2-3mm	hol-po	m	s																					
LA-7	Queen Elizabeth-S	7803824	504262	A016					O		K1	ditto																										
LA-7	Queen Elizabeth-S	7803824	504262	A017					O		K1	ditto																								stk cut by E-W fractures		
LA-8	Queen Elizabeth-S	7803699	504340	A018	O						Tp	br-Qz-Po?	wt																									
LA-8	Queen Elizabeth-S	7803699	504340	A019					O		Tp	ditto																									Top of Po body (mushroom type lava dome like El Salvador)	
LA-9	Queen Elizabeth-S	7802870	503518	A021	O						Tp	Qz(Dac)-Po	wt	2mm±	hem/po	m	s																			10m upper than A-023		
LA-9	Queen Elizabeth-S	7802870	503518	A022					O		Tp	ditto																										
LA-9	Queen Elizabeth-S	7802870	503518	A023	O						Tg	Gd-Po	wt	2mm±	hol-po	m	s																					
LA-9	Queen Elizabeth-S	7802870	503518	A024					O		Tg	ditto																										
LA-9	Queen Elizabeth-S	7802870	503518	A025					O		Tg	ditto																										
LA-9	Queen Elizabeth-S	7802870	503518	A026					O		Qz-vein																									Photo		
LA-10	Queen Elizabeth-S	7803065	502969	A027	O				O		Tg	Rhyd-Po	wt	2mm±	hem	m	s																					
LA-10	Queen Elizabeth-S	7803065	502969	A028						O	Qz-vein																											
	Queen Elizabeth-S	7803657	504396	QE001	O						Tg	Gd-po?	wt-gry																									
	Queen Elizabeth-S	7803670	504211	QE002	O						Tg	Gd-po?	wt-gry																									
	Queen Elizabeth-S	7803692	504262	QE003	O						Tg	Gd-po?	wt-gry																									
LB-20	Queen Elizabeth-S	7803886	503269	B025	O						K1	Dac?	breccia	2-3mm																								
LB-21	Queen Elizabeth-S	7803886	503269	B026	O						K1	Dac?																										
LC-21	Queen Elizabeth-S	7803978	503261	C038	O				O		K1	Dac	bl	0.5-1mm																							Cucho stockpile	
LC-21	Queen Elizabeth-S	7803978	503261	C039	O						K1	ditto																									Cucho stockpile	
LC-21	Queen Elizabeth-S	7803978	503261	C040					O		K1	ditto																									Cucho stockpile	
LA-11	Diana	7792281	494654	A029	O						Kg/Ti	Po?	wt	?	cryst	m	s																					
LA-11	Diana	7792281	494654	A030					O		Kg/Ti	ditto																										
LA-12	Diana	7792317	494590	A031	O	O					Js1	Sil-r (Ozite?)	less		cos,cryst,Qz	vh																						
LA-13	Diana	7792353	494541	A032	O						Clay-vein	ditto																										
LA-13	Diana	7792353	494541	A033					O		Clay-vein	ditto																										
LA-14	Diana	7792385	494488	A034	O						Kg/Ti	Gd-Po	grn	3mm±	hem	h	vs																				propylitic	
LA-14	Diana	7792385	494488	A035					O		Kg/Ti	ditto																										
LA-14	Diana	7792385	494488	A036					O		Qz-vein																											
LA-15	Diana	7792454	494537	A037	O						Js1	Sil-r	less																									
LA-16	Diana	7792454	494455	A038	O						Js1	Sil-r	less																									
LB-22	Diana	7792405	494632	B027					O		Kg/Ti	Dac-Po	gry	2-3mm	hol-po	h	none																					
LB-23	Diana	7792411	494690	B028	O						Kg/Ti	Po?	wt																									
LB-24	Diana	7792421	494748	B029	O						Kg/Ti	Po?	wt																									

