

APPENDICES

AP-1 Results of Radiometric Age Determination (Phase 1, 2)

Sample No.	Location	Rock Type	Sample Type	Potassium (K wt%)	Rad. ⁴⁰ Ar (10 ⁻⁶ cc/g)	K-Ar Age (Ma)	Air Cont. (%)
D-003	Soledad	Quartz porphyry, moderately altered	Biotite (chloritized)	4.192	8.611	52.1±2.0	38
A-020	Queen Elizabeth-S	Andesite, highly altered	Biotite	6.444	9.614	38.0±1.4	34
A-043	La Planada	Diorite, highly altered	Biotite (chloritized)	6.934	10.375	38.1±0.9	13
A-050	La Planada	Quartz porphyry, highly altered	Conc. Biotite and chlorite	4.923	7.587	39.2±1.7	44
C-063	La Planada	Meta-dacite, highly altered	Biotite / mica	7.037	10.680	38.6±1.3	39
F-073	West Queen Elizabeth-SE	Granodiorite, fresh	Biotite	6.927	11.249	41.3±1.0	20
E-098	Camarones-QCFE	Diorite porphyry, slightly altered, primary biotite remain	Whole rock	1.122	2.269	51.3±1.7	25
G-070	Camarones-QCFE	Rhyolitic tuff, fresh	Biotite	6.632	5.325	20.5±0.5	26

Analyzed by SERNAGEOMIN

AP-2 (1) Results of Microscopic Observation of Thin Sections (Phase 1)

Sample No.	Locality	Formation / Intrusive	Rock type	Texture	Phenocryst or fragment								Groundmass or matrix							Metamorphic or alteration								
					MP	cpx	hb	qz	pl	kf	op	others	MP	hb	qz	pl	kf	gl	op	others	ep	chl	amp	ser	tit	carb	bio	others
C-063	La Planada	Kmc	meta-decite	porphyritic					○		○	bio(Δ)			⊙	○	Δ	○	apa(-), zir(-)				○	Δ		⊙	tou(Δ)	
	All the minerals except for qz are strongly replaced by biotite and sericite.																											
C-065	La Planada	Kmc	meta-volcanics												⊙	○		Δ	apa(+)			○	Δ		⊙	tou(Δ)		
	All the minerals except for qz are strongly replaced by biotite and sericite.																											
C-067	La Planada	Tg	diorite	equigranular	(Δ)		⊙	⊙	Δ	Δ	bio(○)								apa(+)	Δ	○		○	Δ				
	Biotite partly altered into chlorite and opaque minerals. Pl locally by sericite.																											
C-077	La Planada	Tp	quartz porphyry	porphyritic		(Δ)	○	⊙							○	○	Δ		apa(+)	○		○				tou(Δ), goe(Δ)		
	Hb totally replaced chlorite and tourmaline. Biotite by chlorite and sericite.																											
C-079	La Planada	Tp	quartz porphyry	porphyritic		(Δ)	⊙	⊙			bio(○)		(Δ)	⊙	⊙	Δ	Δ	bio(Δ), apa(-)	○		○							
	Mafic mineral, probably hornblende, is totally replaced by chlorite.																											

abbrev. MP=pseudomorph of mafic mineral, cpx=clinopyroxene, pl=plagioclase, op=opaque minerals, qz=quartz, hb=hornblende, kf=k-feldspar
 ⊙abundant, ○common, Δsmall, *rare, (): totally

AP-2 (2) Results of Microscopic Observation of Thin Sections (Phase 2)

Sample No.	Locality	Formation /Intrusive	Rock type	Texture	Phenocryst or fragment								Groundmass or matrix							Metamorphic or alteration								
					MP	cpz	hb	qz	pl	kf	op	other	MP	hb	qz	pl	kf	gl	op	other	ep	chl	amp	ser	tit	carb	bio	other
G-012	Chacarella-E	Kg/Ti	diorite	ophitic		△	○	△	⊙		△										○		○	△			△	smec(○) goe(△)
	Clinopyroxene and Hornblende are strongly replaced by smectite and goethite.																											
F-010	Chacarella-W	Kg/Ti	granodiorite porphyry	porphyritic	(○)				⊙		○											△		○		⊙		
	Mafic phenocryst is decomposed into chlorite. Amygdale is replaced by carbonate and quartz. Plagioclase is replaced by sericite.																											
E-021	West Queen Elizabeth-S	Kg/Tg	andesite	porphyritic			○		⊙		△			(△)		○		(⊙)	△		○				△			apa(-)
	Hornblende is almost totally decomposed. Plagioclase partly into epidote																											
F-073	West Queen Elizabeth-S	Kg/Tg	granodiorite	granular			○	○	⊙	○	△	bio(○)									apa(-)	△		△	△			
	Plagioclase is locally replaced by sericite. Biotite is locally replaced by chlorite.																											
E-028	Tignamar-N	K	volcaniclastics	clastic			(△)	△	⊙	○				(△)		△	○	△	(⊙)		○	△					⊙	tou(△)
	Hornblende is totally decomposed into green biotite. Matrix is also replaced by green biotite																											
F-076	Tignamar-N	kg/Kp/Tgd	granodiorite	granular			○	○	⊙	○	○											○	△		△	△		○
	Hornblende is highly replaced by green biotite. Plagioclase is replaced by epidote.																											
G-043	Tignamar-S	Ti	andesite	porphyritic			⊙		⊙		△				○		○		⊙	△								
	Fresh andesite, but hornblende is highly oxytized.																											
E-083	Camarones-QCFW	K	volcaniclastics	clastic	(○)				⊙		△			△		○		○	○		○	○			△	○		clay(○) goe(○)
	Mafic minerals replaced by clay minerals. Matrix is replaced by goethite.																											
E-087	Camarones-QCFW	A	andesite	porphyritic			(○)		⊙		○				○	○		(○)	○		○			⊙	△	⊙		
	Mafic minerals are totally replaced by carbonate and sericite. Plagioclase strongly decomposed into sericite and epidote.																											
G-121	Camarones-QCFW	D	carbonatized dacite	porphyritic	(○)				(⊙)		○					○	○		(⊙)						⊙	△		clay(⊙)
	Mafic minerals and plagioclase are totally replaced by carbonate and clay minerals.																											
E-084	Camarones-QCW	Qp	quartz porphyry	porphyritic	(○)			○	⊙	△	△	mus(△)				△	○		⊙			△	△		○			
	Mafic mineral is totally decomposed. Crystal crotts are common.																											
E-078	Camarones-QCW	K	andesite	porphyritic	(⊙)				⊙		△				○		(⊙)	△			⊙	○		○	△			
	Mafic minerals into epidote or chlorite. Plagioclase partly decomposed into sericite and chlorite.																											
F-125	Camarones-QCW	Qpb	quartz porphyry breccia pipe	clastic				○	⊙	○	△					○	○	○	⊙	△		○			○	△		
	Plagioclase is highly replaced by sericite.																											
F-181	Camarones-QCW	Qpb	quartz porphyry breccia pipe	clastic	○			⊙	○	○	○	bio(△)				○	○	○	(⊙)	○	zr(-)				○	△		
	Biotite is totally decomposed into sericite. Plagioclase is usually dusty, replaced by sericite.																											
G-058	Camarones-QCW	Qp	quartz porphyry	granophyric				⊙	⊙	○	○	bio(△)									apa(-)				△			goe(-)
	K-feldspar is usually dusty. Plagioclase is locally replaced by sericite.																											
G-100	Camarones-QC WC	Qd	quartz diorite	granophyric			△	⊙	⊙	○	○	tou(△)										○	○		△	△		
	Hornblende is highly decomposed into chlorite, epidote and titanite																											
G-205	Camarones-QC WC	Gd	granodiorite	granophyric			○	○	⊙	○	△	bio(○)										△		△	△			tou(△)
	Hornblende and biotite are partly skeletal, replaced by chlorite.																											
E-080	Camarones-QCC	Qd	quartz diorite	ophitic			○	○	⊙	○	△	bio(○)									tou(△)	△	○		△		△	
	Biotite is replaced by chlorite. Plagioclase is replaced by sericite.																											

AP-2 (2) Results of Microscopic Observation of Thin Sections (Phase 2)

Sample No.	Locality	Formation /intrusive	Rock type	Texture	Phenocryst or fragment								Groundmass or matrix								Metamorphic or alteration															
					MP	cpx	hb	qz	pl	kf	op	other	MP	hb	qz	pl	kf	gl	op	other	ep	chl	amp	ser	tit	carb	bio	other								
E-119	Camarones-QCC	KT	volcaniclastics	clastic			(O)	⊙	⊙									⊙	⊙		(⊙)	⊙	apa(Δ)	Δ	Δ		Δ	Δ								
Hornblende phenocryst is replaced by chlorite and smectite.																																				
E-126	Camarones-QCC	Di	diorite	ophitic			⊙	Δ	⊙		Δ	apa(*)						⊙							Δ		⊙		Δ	Δ						
Hornblende is totally decomposed into fibrous amphibole.																																				
E-128	Camarones-QCC	Qpb	quartz porphyry breccia pipe	clastic				⊙	⊙	⊙	Δ							⊙							⊙										goe(Δ)	
F-107	Camarones-QCC	Qd	quartz diorite	granular	(Δ)			⊙	⊙	⊙	⊙	tou(O)													Δ				Δ	Δ	Δ					
Plagioclase is usually dusty and is replaced by sericite and carbonate.																																				
F-110	Camarones-QCC	Qdb	quartz diorite breccia pipe	clastic				⊙	⊙	⊙	⊙														Δ		⊙								tou(Δ) goe(O)	
Plagioclase is usually dusty and is partly replaced by sericite.																																				
F-196	Camarones-QCC	Dp	diorite porphyry	porphyritic to granoophyric		Δ	⊙		⊙		Δ							⊙	⊙	⊙	⊙		⊙	bio(Δ)	Δ	⊙		Δ	Δ							
Clinopyroxene is strongly replaced by green amphibole. Hornblende is decomposed into chlorite and green amphibole.																																				
F-114	Camarones-QC CE	K	andesite	porphyritic	(O)				⊙		⊙	bio													⊙	Δ	⊙	⊙	Δ							
Mafic minerals are replaced by fibrous amphibole. Glass is devitrified and altered.																																				
H-002	Camarones-QCE	Di	diorite	ophitic	(O)	⊙			⊙		⊙																⊙	⊙							smec(⊙)	
Olivine is totally replaced by smectite. Clinopyroxene is partly replaced by green amphibole. Orthopyroxene is strongly replaced by smectite.																																				
H-008	Camarones-QCE	K	andesite	porphyritic	(Δ)				⊙		⊙														⊙	⊙					⊙				smec(Δ)	
Mafic minerals are replaced by smectite. Plagioclase partly replaced by epidote.																																				
E-069	Camarones-QCFE	Di	diorite	trachytic	⊙	⊙			⊙		Δ	bio(Δ)													Δ										smec(O) zeo?(O)	
Olivine partly replaced by smectite.																																				
E-071	Camarones-QCFE	KT	dacite	porphyritic				⊙	⊙					⊙	cpx			⊙	⊙	⊙			Δ	bio(Δ)											smec(Δ)	
Clinopyroxene is crystallized in a matrix																																				
E-072	Camarones-QCFE	Qd	quartz diorite	ophitic	(O)			⊙	⊙	⊙	Δ	bio(Δ)													⊙	⊙	⊙	⊙	Δ							
Mafic minerals are totally decomposed, partly forming fibrous amphibole.																																				
E-094	Camarones-QCFE	Dp	diorite porphyry	trachytic	(O)	⊙			⊙	Δ	⊙	bio(O)	(O)											⊙	⊙	⊙	⊙	Δ	apa(Δ)							
Mafic mineral is replaced by chlorite and fibrous amphibole.																																				
E-097	Camarones-QCFE	Dp	diorite porphyry	ophitic	(O)	⊙			⊙	Δ		bio(Δ)													⊙	⊙	⊙									
Mafic mineral is decomposed by chlorite and fibrous amphibole.																																				
E-099	Camarones-QCFE	Qd	quartz diorite	equigranular		⊙	⊙	⊙	⊙	⊙	⊙	apa(Δ)															⊙	⊙								
Biotite is totally decomposed into sericite. Mafic mineral by green amphibole.																																				
G-073	Camarones-QCFE	Gd	granodiorite	equigranular	(O)		⊙	⊙	⊙	⊙	⊙	apa(Δ)													Δ	⊙	⊙	⊙	Δ	Δ						
Mafic phenocryst is decomposed into amphibole and chlorite.																																				
G-078	Camarones-QCFE	Tp	volcaniclastics	clastic				⊙	Δ	⊙	Δ	bio(O)													⊙	Δ	⊙	⊙	Δ							clay(O)
Including slate.																																				
E-214	Camarones-QCS	KT	volcaniclastics	clastic	(Δ)			⊙	⊙	Δ	⊙														⊙	⊙										
Mafic phenocryst is decomposed into chlorite. Biotite is decomposed into chlorite and sericite.																																				
E-222	Camarones-QCS	KT	volcaniclastics	clastic	(O)			⊙	⊙	Δ	⊙																	Δ								smec(Δ)
Biotite is decomposed into smectite and sericite. Plagioclase is partly replaced by smectite.																																				

AP-2 (2) Results of Microscopic Observation of Thin Sections (Phase 2)

Sample No.	Locality	Formation /Intrusive	Rock type	Texture	Phenocryst or fragment								Groundmass or matrix								Metamorphic or alteration						
					MP	cpx	hb	qz	pl	kf	op	other	MP	hb	qz	pl	kf	gl	op	other	ep	chl	amp	ser	tit	carb	bio
E-231	Camarones-QCS	B	basalt	porphyritic	(O)				⊙	○				○	⊙	Δ			○	Δ		○					
	Olivine is totally decomposed into chlorite or carbonate minerals.																										
H-013	Camarones-QCS	KT	volcaniclastics	clastic	(O)			⊙		Δ	mus(O)			○	○	⊙	Δ				○				smec(O)		
	Mafic minerals are replaced by smectite. Biotite is decomposed into sericite and opaque minerals.																										
E-158	Camarones-SM	Qd	quartz diorite	granophytic			(O)	○	⊙	○	○								○	Δ					tou(Δ) goe(O)		
	Hornblende is totally decomposed into chlorite and goethite.																										
E-159	Camarones-SM	Qd	quartz diorite	granophytic			(O)	○	⊙	○									○		○				goe(Δ)		
	Plagioclase is usually dusty. Hornblende decomposed into fibrous amphibole.																										
E-177	Camarones-SM	Dp	diorite porphyry	granophytic		○	○		⊙				○	○	⊙	○		○	bio(O)	○	Δ				tou(Δ),apa(-)		
	Clinopyroxene is surrounded by amphibole. Hornblende is decomposed into dusty amphibole aggregate.																										
F-148	Camarones-SM	Qd	quartz diorite	granophytic		Δ	○	○	⊙	○	○								Δ			Δ		○			
	Hornblende is strongly replaced by secondary biotite.																										
G-142	Camarones-SM	Qd	quartz diorite	granophytic		○	Δ	○	⊙	○	○	bio(Δ)								zr(-)	Δ	Δ			goe(Δ), apa(-)		
	Clinopyroxene and hornblende is strongly replaced by chlorite and fibrous amphibole																										
G-147	Camarones-SM	Qd	quartz diorite	granophytic		Δ	○	○	⊙	○	○	tou(Δ)										○			geo(O)		
	Hornblende is highly replaced by goethite. Plagioclase is partly replaced by sericite.																										
G-160	Camarones-SM	Qdb	quartz diorite breccia pipe	clastic				⊙	⊙	○	Δ			○	○	○	⊙	Δ	tou(O)			○			goe(Δ), clay(Δ)		
	Mafic minerals are decomposed into clay and goethite.																										
E-151	Camarones-MIDS	Tw	volcaniclastics	clastic	(Δ)			⊙	○	○	○	bio(O)		○	○		⊙	Δ							clay(Δ)		
	Mafic minerals are replaced by clay minerals. Biotite is highly oxydized																										
F-155	Camarones-EM	Qi	andesite	porphyritic	○	○		⊙		Δ	opx				⊙	⊙	○										
	Very fresh andesite. Orthopyroxene is well preserved.																										
E-105	Camarones-NW	Qd	porphyry	granophytic				⊙		Δ				○	○			Δ	⊙		⊙				smec(Δ)		
	Plagioclase is strongly replaced by smectite and epidote.																										
E-108	Camarones-NW	Qd	quartz diorite	ophitic	(O)	○	○		⊙	Δ				⊙	○			○	Δ	○	○		Δ	Δ			
	Mafic minerals are replaced by chlorite. Hornblende replaced by green amphibole.																										

abbrev. : MP=pseudomorph of mafic minerals, cpx=clinopyroxene, pl=plagioclase, op=opaque minerals, qz=quartz, hb=hornblende, kf=K-feldspar

smec=smectite, zeo=zeolite, geo=goethite, epi=epidote, gl=glass or microcrystalline aggregate, mus=muscovite

cb=carbonate, ser=sericite, tit=titanite, apa=apatite, clay=clay minerals, bio=biotite, tou=tourmaline:

⊙=abundant, ○=common, Δ=small, -=rare

(): totally decomposed or altered

AP-3 (1) Results of Microscopic Observation of Polished Sections (Phase 1)

Sample No.	Locality	Ore minerals								Gangue minerals										
		Py	Cp	At	Cov	Hm	Goe	Gal	others	si	pl	kf	ser	chl	bar	tit	ana	zm	others	
D-007	Mocha			○			△			○	⊙		△	○						
C-004	Mocha		○	△	△		○				⊙	⊙	△	○						
C-007	Mocha			△			△				⊙		○	○			△	·	apa(·)	
A-004	Soledad	△					△			⊙										
B-006	Soledad	○							CuZn(·)	△	⊙			○			·		opx(△)	
B-007	Soledad	△	·						· Pyr(·)	○	⊙			△			△	·	cpx(△), cal(△)	
B-008	Soledad	○	·							○	⊙			○		△	○		epi(△), apa(·)	
B-009	Soledad	○	·						· Pyr(·)	○	⊙			△			△		cal(△)	
A-010	Queen Elizabeth-S					·	△		Cry(○)	⊙			○					·	cal(○), jar(○)	
A-013	Queen Elizabeth-S					△			Cry(○)	○	⊙	○					△		apa(·)	
C-038	Queen Elizabeth-S	○	○					△	Cry(△), Mal(△)	○	○	⊙					·	·		
A-036	Diana		·			△	△			⊙	⊙	○		△		△			apa(·)	
Z-002	Diana		·				⊙			⊙								·		
Z-003	Diana	△	·				△		Bar(△)	⊙			△					·		
Z-006	Diana						△		Bar(△)	⊙	○		△					·		
Z-007	Diana		·				△		Bar(·)	⊙			△				·	·		
A-048	La Planada					○			Ang(·)	○	⊙	○		○					cal(○), bio(○)	
C-055	La Planada	○	△		△	△			Pyr(·)	○	⊙	○				△			cpx(△)	
C-058	La Planada	○	△						Bor(·)	⊙	○			○				·	bio(○)	
C-071	La Planada								Cer(○)	⊙							△	·	tou(⊙)	
C-073	La Planada		△		·				Cer(△)	⊙	○		○	○			△	·	apa(·)	

Abbr. :

Py=pyrite, Hm=hematite, Cp=chalcopyrite, Bo=Bornite, Gal=galena, At=atakamite, Goe=goethite, Cov=covellite, Ang=anglesite, Bar=barite

Cry=chrysocolla, Pyr=pyrrhotite, CuZn=hydrou CuZn mineral, Mal=malachite, Cer=cerussite, si= SiO₂ polymorphs, pl=plagioclase,

kf=K-feldspar, se=sericite, bio=biotite, bar=barite, ana=anatase, apa=apatite, ZM=zircon and monazite, cpx=clinopyroxene, cal=calcite, jar=jarosite

chl=chlorite or clay minerals, opx=orthopyroxene, epi=epidote, tou=tourmaline

⊙=abundant, ○=common, △=small, ·=rare

AP-3 (2) Results of Microscopic Observation of Polished Sections (Phase 2)

Sample No.	Locality	Ore minerals										Gangue minerals							
		Py	Cp	Mal	Cov	Hm/Mt	Goe	Gal	Bar	others	si	pl	kf	ser	chl	tit	ana	zm	others
G003	Eastern Chacarilla					○	△					○	◎		△				apa(△)
F009	Western Chacarilla	○								△	Siderite(◎)	△	◎		△				
F013	Western Chacarilla	◎									CuZn(·)		◎		△				dol(◎)
E007	West Qween Elizabeth-N	○									Sph(·)	○	◎	○					epi(△)
E022	West Qween Elizabeth-N	○											◎						cpx(○)
F032	West Qween Elizabeth-N	○										○	◎	○		△			bio(△)
F049	West Qween Elizabeth-SE					◎		◎											
F074A	West Qween Elizabeth-SE							○			Cry(○)	◎	○		△	△			
F075B	Tignamar-N			△				△			Cry(◎)	○	○	◎	△				△
F078	Tignamar-N	◎									Cc(○)	◎		○					
E058	Camarones-QCW	◎	○									△	◎		○	◎			epi(△), ilm(△)
E061	Camarones-QCW	◎						○				◎	○		○	△			
E081	Camarones-QCW	△	△								Ang(○)	◎			○		△		epi(○)
E081B	Camarones-QCW	○	△								Ang(○)	◎			○		△		epi(○)
E181	Camarones-QCW	○	△									○	◎			△			epi(○)
E192	Camarones-QCW	○	△							△		○	◎		△	○			cal(△)
E192B	Camarones-QCW	○	△							△	Sph(·)	○	◎		△	○			cal(△)
E194	Camarones-QCW	○	△							△		◎	◎	○	△				apa(·)
E194B	Camarones-QCW	○	△							△	AgTe(·)	◎	◎	○	△				apa(·)
E208	Camarones-QCW	△						△				◎			○				
E212	Camarones-QCW	○										○	◎	○			△		bio(△)
F162	Camarones-QCW	○									Sph(·)	○	◎	△					epi(△)
F172	Camarones-QCW	○										◎	○			○	△		bio(○)
F176	Camarones-QCW	◎	△			△						○	◎	△		△	△		epi(○)
F177	Camarones-QCW	○	△		△							○	◎						bio(△), ilm(△)
F177B	Camarones-QCW	○	△		△	○						○	◎						bio(△), ilm(△)
F182	Camarones-QCW	○								△		◎	◎					△	
F182B	Camarones-QCW	○								△		◎	◎					△	
G052	Camarones-QCW	○						△		△	Pyr(△)	◎	○		○	○			
G084	Camarones-QCW					(Mt)				△		◎	○	◎					epi(◎)
G173	Camarones-QCW	○										○	◎	○					epi(△)
G183	Camarones-QCW	○								△	CuZn(·)	◎			◎			△	
F107	Camarones-QCC	○						△		△		◎	◎	◎					
H008	Camarones-QCE	○										◎	◎	○					apa(△)
H009	Camarones-QCE	◎						△		○	CuZn(△)	△	◎	○		○			
E233	Camarones-QCS	○										◎			◎				
H019	Camarones-QCS	○									Sph(·)	◎			◎				
E171	Camarones-SM					○	△					◎	○			○		△	
E178	Camarones-SM					○	△					○	◎	○					cpx(○)
G155	Camarones-SM					○(Mt)						◎	○	◎					

Abbr.:

Py=pyrite, Hm=hematite, Mt=magnetite, Cp=chalcopyrite, Gal=galena, Mal=Malachite, Goe=goethite, Cov=covellite, Ang=anglesite
 Cry=chrysocolla, Pyr=pyrrhotite, CuZn=hydrous CuZn mineral, Mal=malachite, Cc=chalcocite, Sph=sphalerite, Bar=barite
 kf=K-feldspar, se=sericite or muscovite, bio=biotite, bar=barite, ana=anatase, zm=zircon and monazite, cpx=clinopyroxene
 si=SiO₂ minerals, pl=plagioclase, chl=chlorite or clay minerals, epi=epidote, cal=calcite, dol=dolomite

◎=abundant, ○=common, △=small, ·=rare

AP-4 (1) Resultu of X-ray Diffractive Analysis (Phase 1)

Sample No.	Locality	Qz	Pl	Kf	Tre	Drav	Mont	Ser/Mont	Chl/Mont	Chl	Ser	Ka	And	Gyp	Alu	Ja	Hem	Cal
C001	Mocha	△					⊙n	△	?		△	?	△?			△		
C005	Mocha	○	○				△			△~○	△	?						△
C010	Mocha	○	○	△			△			△~○	△	?						
C011	Mocha	⊙	△							△	○	?		△				
C012	Mocha	?	△			△	○											○
C019	Mocha	△	△							○	△			△				
D005	Mocha	○					△			?	△	△		○		△		
A002	Soledad	⊙				△				?	△	△						
A006	Soledad	⊙	△							△	△							
B003	Soledad	△	○					△			△					△		
B004	Soledad	○	⊙				○	△										
B005	Soledad	⊙	△				○			?	△	△						
B006	Soledad	○	○		△		△											
C022	Qween Elizabeth-N	⊙																△
C025	Qween Elizabeth-N	⊙										○			△			
C029	Qween Elizabeth-N	○~⊙						△				△						
C031	Qween Elizabeth-N	⊙						△										
C034	Qween Elizabeth-N	⊙		?				△										
C036	Qween Elizabeth-N	⊙						△										
C040	Qween Elizabeth-N	⊙		△			△			△	△							
D010	Qween Elizabeth-N	⊙									△							△
D012	Qween Elizabeth-N	⊙						△								△		
D016	Qween Elizabeth-N	⊙										?						
D020	Qween Elizabeth-N	⊙													○			
D024	Qween Elizabeth-N	○		?						?	△	△						
D029	Qween Elizabeth-N	⊙									△~○			△				
D035	Qween Elizabeth-N	⊙		△			△	△										
B011	Qween Elizabeth-C	△	△				⊙				△							
B012	Qween Elizabeth-C	△	△				○				△							
B016	Qween Elizabeth-C	⊙									○							
B017	Qween Elizabeth-C	⊙									⊙	○						
B021	Qween Elizabeth-C	⊙									⊙	△						
B022	Qween Elizabeth-C	⊙									⊙							
A009	Qween Elizabeth-S	△~?	△	△			△	△		△		?						⊙
A014	Qween Elizabeth-S	○	⊙							△	○	?						
A016	Qween Elizabeth-S	⊙	△	△			△			△	○							
A019	Qween Elizabeth-S	⊙		○							○					△		
A022	Qween Elizabeth-S	⊙									⊙					△		
A024	Qween Elizabeth-S	⊙	△				△			?	△	△						
A030	Diana	⊙	○							○	△							
A033	Diana	⊙									○							
B033	Diana	⊙	△								△							
B036	Diana	○	○							?	△	△						
B037	Diana	⊙								?	△~○	△				△		
B039	Diana	⊙								?	⊙	△						
C049	Diana	△	○								△							
D041	Diana	○	○	△							△							
A041	La Planada	?	○	△	△					?		△						
A045	La Planada	⊙	△								⊙							
C069	La Planada	○									○	△						

n: nontronite?

X-ray Diffractive Analysis

Abbreviation		Amount	
Qz	Quartz		
Pl	Plagioclase	$2\theta > 20^\circ$ (CuKa)	
Kf	K-feldspar	⊙	abundant > 800 cps
Tre	Tremolite	○	common 800-400cps
Drav	Dravite	△	small 400 cps >
Mont	Montmorillonite	?	
Ser/Mont	Sericite/Montmorillonite interstratified mineral		
Chi/Mont	Chlorite/Montmorillonite interstratified mineral		
Chi	Chlorite		
Ser	Sericite	$2\theta < 20^\circ$ (CuKa)	
Ka	Kaolinite	⊙	abundant > 700 cps
And	Andalusite	○	common 700-300cps
Gyp	Gypsum	△	small 300 cps >
Alu	Alunite	?	
Ja	Jarosite		
Hem	Hematite		
Cal	Calcite		

AP-4 (2) Resulto of X-ray Diffractive Analysis (Phase 2)

Sample No	Locality	Qz	Cri	Tri	Pl	Kf	Act-Tre	Epi	Stil	Laum	Mord	Mont	Ser/Mont	Chl/Mont	Chl	Ser	Ka	Pyr	Anh	Gyp	Alu	Ja	Py	Hem	Cal	Hal
F-010	Chacarilla-W	Δ			⊙											Δ								Δ		
F-020	Chacarilla-W	⊙			○												?									
F-021	Chacarilla-W	Δ			○											Δ										
F-024	Chacarilla-W	⊙														○~Δ					Δ		Δ			
F-025	Chacarilla-W	⊙											Δ			Δ					Δ		Δ			
E-002	West Queen Elizabeth-N	⊙										Δ				Δ										
E-004	West Queen Elizabeth-N	⊙											Δ													
E-011	West Queen Elizabeth-N	⊙																	○							
F-029	West Queen Elizabeth-N	⊙														Δ	?									
F-033	West Queen Elizabeth-N	⊙									Δ	Δ			?	?	?									
F-037	West Queen Elizabeth-N	⊙														Δ										
F-040	West Queen Elizabeth-N	⊙										Δ	Δ		Δ		?									
F-044	West Queen Elizabeth-N	Δ			○~Δ							?			Δ	Δ	?									
F-048	West Queen Elizabeth-N	⊙										Δ				Δ										Δ
E-014	West Queen Elizabeth-C	⊙			Δ				?							○										Δ
E-018	West Queen Elizabeth-C	⊙			Δ											Δ										Δ
E-023	West Queen Elizabeth-C	⊙			⊙		Δ																			
F-051	West Queen Elizabeth-C	⊙	?									Δ			?	Δ	Δ									
F-056	West Queen Elizabeth-C	⊙										?			Δ		?									
F-060	West Queen Elizabeth-C	○			Δ		Δ																			
F-064	West Queen Elizabeth-C	⊙			Δ											Δ										
F-067	West Queen Elizabeth-C	⊙			Δ										Δ	Δ										
E-030	Tignamar-N	⊙			Δ								Δ			?	Δ								Δ	
E-032	Tignamar-N	⊙			○												?								Δ	
E-034	Tignamar-N	⊙			⊙											Δ	Δ									
F-077	Tignamar-N	⊙														○									Δ	
F-080	Tignamar-N	⊙														○										
G-035	Tignamar-N	⊙			○											Δ										
E-037	Tignamar-S	⊙				?																				
E-038	Tignamar-S	⊙				?																				
E-039	Tignamar-S	⊙				?																				
E-041	Tignamar-S	⊙				?																				
E-043	Tignamar-S	⊙																		?						
E-045	Tignamar-S	⊙																								
E-047	Tignamar-S															Δ	Δ					Δ				
E-053	Tignamar-S		Δ									Δ					Δ									
E-055	Tignamar-S			Δ													Δ					Δ				
F-084	Tignamar-S	⊙	Δ																							
F-086	Tignamar-S	Δ	○	Δ																					Δ	
F-088	Tignamar-S		○	Δ																					○	
F-090	Tignamar-S	⊙																							○	
F-092	Tignamar-S																	Δ							?	
F-093	Tignamar-S		?														Δ								Δ	
G-120	Camarones-QCFW								⊙	Δ		Δ														

AP-4 (2) Resultu of X-ray Diffractive Analysis (Phase 2)

Sample No	Locality	Qz	Ori	Tri	Pl	Kf	Act-Tre	Epi	Stil	Laum	Mord	Mont	Ser/Mont	Chl/Mont	Chl	Ser	Ka	Pyr	Anh	Gyp	Alu	Ja	Py	Hem	Cal	Hal	
E-062	Camarones-QCW	⊙														○											
E-063	Camarones-QCW	⊙														○											
E-066	Camarones-QCW	⊙			⊙	△																					
E-076	Camarones-QCW	○~△			○~△										△	△										?	
E-190	Camarones-QCW	⊙			△											○										△	
E-199	Camarones-QCW	⊙			⊙~○	△									△	△											
F-124	Camarones-QCW	⊙										○~△				△											
F-163	Camarones-QCW	○			△										△	△											△
F-173	Camarones-QCW	△			△										△												
F-183	Camarones-QCW	⊙			○											△											
G-054	Camarones-QCW								⊙			△															
G-082	Camarones-QCW	○			△				△			?			△			?									
G-085	Camarones-QCW	⊙				△			△						△												
G-087	Camarones-QCW	△							△			△															○
G-090	Camarones-QCW				△	△									△					△	⊙						
G-093	Camarones-QCW	○										△				△											○
G-106	Camarones-QCW	△			△							△															○
G-109	Camarones-QCW	○			⊙										△												⊙
G-113	Camarones-QCW	△								△						△											⊙
G-175	Camarones-QCW	⊙	?													△											
G-180	Camarones-QCW	⊙														△											
E-118	Camarones-QCC	⊙														△											
E-122	Camarones-QCC	⊙			△	△										△											
E-130	Camarones-QCC	⊙			△	△										△											
F-106	Camarones-QCC	⊙			○~△	△						?			△					?							△
F-108	Camarones-QCC	⊙											△			△											
F-200	Camarones-QCC	⊙			○~△	△									△	△											?
F-116	Camarones-QCE	⊙														○											
E-137	Camarones-QCS	⊙							△										⊙								
E-138	Camarones-QCS	⊙																				△					
E-140	Camarones-QCS	⊙																				△					
E-143	Camarones-QCS	?																				△					
E-146	Camarones-QCS	⊙				△							△														△
E-215	Camarones-QCS	⊙				△										△											△
E-218	Camarones-QCS	⊙				△										○											
E-221	Camarones-QCS	○													△	△											
E-228	Camarones-QCS	⊙			○											△											
E-237	Camarones-QCS	⊙				△										△											
G-123	Camarones-QCS	⊙																									
G-127	Camarones-QCS	⊙																									△
G-129	Camarones-QCS	⊙																									
G-136	Camarones-QCS	⊙																									
G-137	Camarones-QCS	⊙																									
G-190	Camarones-QCS	⊙			△											△											

AP-4 (2) Resultu of X-ray Diffractive Analysis (Phase 2)

Sample No	Locality	Qz	Cri	Tri	Pl	Kf	Act-Tre	Epi	Stil	Laum	Mord	Mont	Ser/Mont	Chl/Mont	Chl	Ser	Ka	Pyr	Anh	Gyp	Alu	Ja	Py	Hem	Cal	Hal
F-199	Camarones-QCS	⊙			⊙	△									△	△										
H-104	Camarones-QCS	⊙														△	△									
E-155	Camarones-SM	⊙~○			⊙	?	△					△					△									
F-146	Camarones-SM	○~△			○	△						?			△		?									
F-153	Camarones-SM	⊙			○~△	○~△						△														
G-144	Camarones-SM	⊙			△							○														
G-146	Camarones-SM	⊙			○	○	△																			
G-151	Camarones-SM	⊙			⊙	△						△				△										
G-156	Camarones-SM	⊙			△											△							?			
G-162	Camarones-SM	⊙			⊙	○						△				△										
G-149	Camarones-SMR		△	△									△													
G-169	Camarones-CR	△	△	△									△													
E-113	Camarones-NW	⊙			△	○~△										△										
E-114	Camarones-NW	△															△									△

Abbreviation

Qz	Quartz
Cri	Cristobalite
Tri	Tridymite
Pl	Plagioclase
K-fs	K-feldspar
Act-Tre	Actinolite-Tremolite
Epi	Epidote
Stil	Stilbite
Laum	Laumontite
Mord	Mordenite
Mont	Montmorillonite
Ser/Mont	Sericite/Montmorillonite interstratified mineral
Chl/Mont	Chlorite/Montmorillonite interstratified mineral
Chl	Chlorite
Ser	Sericite
Kaol	Kaolinite
Pyrophy	Pyrophyllite
Anhyd	Anhydrite
Gyp	Gypsum
Alu	Alunite
Ja	Jarosite
Py	Pyrite
Hem	Hematite
Cal	Calcite
Hal	Halite

Amount

2θ = 40-20° (CuKα)		
⊙	abundant	> 800 cps
○	common	800-400cps
△	small	400 cps >
?		
2θ = 20-2° (CuKα)		
⊙	abundant	> 700 cps
○	common	700-300cps
△	small	300 cps >
?		

AP-5 (1) Results of Fluid Inclusion Analysis (Phase 1)

Area	Sample No.	Mineral host	Incl. ID	Disappearance Temperature (°C)		NaCl-wt%	Phase
				Bubble (Th°C)	NaCl		
Mocha	C-006	Quartz	1	272	351	42.1	Polyphase and liquid-vapor inclusions, daughter mineral: NaCl, KCl, opaque mineral = almost chalcopyrite
		Quartz	2	362	ND		
		Quartz	3	251	ND		
		Quartz	4	236	266	35.4	
		Quartz	5	240	271	35.7	
		Quartz	6	285	406	47.7	
		Quartz	7	276	404	47.5	
		Quartz	8	314	ND		
		Quartz	9	290	336	40.7	
		Quartz	10	ND	363	43.2	
		Quartz	11	ND	287	36.8	
		Quartz	12	354	408	48.0	
		Quartz	13	327	ND		
		Quartz	14	334	355	42.4	
		Quartz	15	301	378	44.7	
		Quartz	16	372	ND		
		Quartz	17	393	368	43.5	
		Average	307	349	42.3		
Mocha	C-008	Quartz	1	254	261	35.1	Polyphase and liquid-vapor inclusions, daughter mineral: NaCl, opaque mineral
		Quartz	2	260	297	37.5	
		Quartz	3	278	321	39.4	
		Quartz	4	282	320	39.3	
		Quartz	5	282	321	39.4	
		Quartz	6	287	327	39.9	
		Quartz	7	265	316	39.0	
		Quartz	8	284	ND		
		Quartz	9	271	ND		
		Quartz	10	275	331	40.3	
		Quartz	11	283	326	39.8	
		Quartz	12	275	320	39.3	
		Quartz	13	321	345	41.5	
		Quartz	14	335	355	42.4	
		Quartz	15	288	335	40.6	
		Quartz	16	349	364	43.3	
		Quartz	17	351	387	45.7	
		Quartz	18	ND	378	44.7	
		Average	291	332	40.5		
Mocha	C-020	Quartz	1	391	261	35.1	Liquid-vapor inclusion (vapor=80%-vol.) >> polyphase inclusion, daughter mineral: NaCl, opaque mineral
		Quartz	2	387	240	33.8	
		Quartz	3	345	315	38.9	
		Quartz	4	415	No NaCl		
		Quartz	5	417	No NaCl		
		Quartz	6	403	No NaCl		
		Quartz	7	401	No NaCl		
		Quartz	8	408	No NaCl		
		Quartz	9	411	No NaCl		
		Quartz	10	416	No NaCl		
		Average	399	272	36.0		
Queen Elizabeth-S	A-028	Quartz	1	428	No NaCl		Vapor-rich inclusion (vapor ≥ 80%-vol.), poor
		Quartz	2	419	No NaCl		
		Quartz	3	423	No NaCl		
		Quartz	4	427	No NaCl		
		Average	424				
La Planada	A-049	Quartz	1	311	345	41.5	Polyphase and liquid-vapor inclusions, daughter mineral: NaCl, opaque mineral
		Quartz	2	323	332	40.3	
		Quartz	3	321	339	41.0	
		Quartz	4	325	ND		
		Quartz	5	335	ND		
		Quartz	6	347	ND		
		Quartz	7	330	345	41.5	
		Quartz	8	310	ND		
		Quartz	9	309	328	40.0	
		Quartz	10	ND	315	38.9	
		Average	323	334	40.5		
La Planada	C-073	Quartz	1	299	372	44.1	Polyphase and liquid-vapor inclusions, daughter mineral: NaCl, opaque mineral
		Quartz	2	343	400	47.1	
		Quartz	3	330	386	45.5	
		Quartz	4	320	285	36.7	
		Quartz	5	319	290	37.0	
		Quartz	6	283	308	38.4	
		Quartz	7	303	292	37.2	
		Quartz	8	299	293	37.2	
		Average	312	328	40.4		

ND : not determined

AP-5 (2) Results of Fluid Inclusion Analysis (phase 2)

Area	Sample No.	Mineral host	Incl.ID	Homogenization T(°C)	Ice melting T(°C)	NaCl-wt%	Phase
Tignamar-N	F-082	Quartz	1	283.1	-0.2	0.35	Liquid-vapor inclusion, boiling, max. ϕ 10 μ m
		Quartz	2	276.4	-0.4	0.70	
		Quartz	3	292.9			
		Quartz	4	270.9	-0.1	0.18	
		Quartz	5	305.6	-0.5	0.87	
		Quartz	6	292.9			
		Quartz	7	283.1	-0.1	0.18	
		Quartz	8	279.7			
		Quartz	9	308.8			
		Quartz	10	300.1			
		Quartz	11	291.4			
		Quartz	12	286.9	-0.1	0.18	
		Quartz	13	284.3			
		Quartz	14	302.8			
		Quartz	15	302.1	-0.1	0.18	
		Quartz	16	296.5			
		Quartz	17	289.2	-0.3	0.53	
		Quartz	18	287.3			
		Quartz	19	282.0			
		Quartz	20	285.6			
		Quartz	21	303.7			
		Average		291	-0.2	0.4	
Camarones-QCFW	G-117	Calcite	1	274.6	-0.3	0.53	Liquid-vapor and vapor-rich inclusions, poor
		Calcite	2	268.3	-0.2	0.35	
		Calcite	3	269.0			
		Calcite	4	272.9			
		Calcite	5	286.0	-0.1	0.18	
		Calcite	6	275.2			
		Calcite	7	274.0			
		Calcite	8	279.8	-0.4	0.70	
		Calcite	9	287.3			
		Calcite	10	309.2			
		Calcite	11	277.5			
		Calcite	12	264.2	-0.7	1.22	
		Calcite	13	301.1			
		Calcite	14	291.8			
		Calcite	15	294.6	-0.2	0.35	
		Calcite	16	288.3	-0.6	1.05	
		Calcite	17	276.2			
		Calcite	18	281.9			
		Calcite	19	283.4			
		Calcite	20	277.8			
		Calcite	21	291.6			
		Average		282	-0.4	0.6	
Camarones-QCWC	E-080	Quartz	1	283.8	-0.5	0.87	Liquid-vapor and vapor-rich inclusions
		Quartz	2	270.0	-0.3	0.53	
		Quartz	3	287.5			
		Quartz	4	292.6			
		Quartz	5	288.4	-0.1	0.18	
		Quartz	6	289.6	-0.1	0.18	
		Quartz	7	291.4			
		Quartz	8	287.2	-0.2	0.35	
		Quartz	9	306.0			
		Quartz	10	278.5			
		Quartz	11	305.1			
		Quartz	12	304.7	-0.8	1.39	
		Quartz	13	296.4			
		Quartz	14	297.1			
		Quartz	15	291.3			
		Quartz	16	285.5	-0.4	0.70	
		Quartz	17	303.3			
		Quartz	18	280.2	-0.1	0.18	
		Quartz	19	298.8	-0.2	0.35	
		Quartz	20	307.1			
		Quartz	21	297.2			
		Average		292	-0.3	0.5	
Camarones-QCWC	G-110	Quartz	1	346.9	-0.2	0.35	Liquid-vapor inclusion, max. ϕ 5 μ m
		Quartz	2	348.8	-0.2	0.35	
		Quartz	3	370.6			
		Quartz	4	363.5			
		Quartz	5	370.7	-0.3	0.53	
		Quartz	6	358.4			
		Quartz	7	373.9			
		Quartz	8	352.9	-0.4	0.70	
		Quartz	9	356.7			
		Quartz	10	368.1			
		Quartz	11	362.4	-0.2	0.35	
		Quartz	12	364.0			
		Quartz	13	369.7	-0.7	1.22	
		Quartz	14	361.4			

AP-5 (2) Results of Fluid Inclusion Analysis (phase 2)

Area	Sample No.	Mineral host	Incl. ID	Homogenization T(°C)	Ice melting T(°C)	NaCl-wt%	Phase
		Quartz	15	372.0			
		Quartz	16	376.1			
		Quartz	17	367.0	-0.3	0.53	
		Quartz	18	362.3			
		Quartz	19	357.3			
		Quartz	20	361.4			
		Quartz	21	371.9			
		Average		364	-0.3	0.6	
Camarones-QCC	E-129	Quartz	1	364.7	-0.2	0.35	Vapor-rich and liquid inclusions, max. ϕ 10 μ m
		Quartz	2	368.2			
		Quartz	3	355.3	-0.3	0.53	
		Quartz	4	368.1	-0.2	0.35	
		Quartz	5	363.2			
		Quartz	6	353.8	-1.2	2.06	
		Quartz	7	361.0	-0.2	0.35	
		Quartz	8	363.0			
		Quartz	9	358.6	-0.6	1.05	
		Quartz	10	365.1			
		Quartz	11	356.7			
		Quartz	12	366.3			
		Quartz	13	361.7			
		Quartz	14	364.6			
		Quartz	15	361.9			
		Quartz	16	357.8	-0.1	0.18	
		Quartz	17	366.4			
		Quartz	18	364.2	-0.1	0.18	
		Quartz	19	360.6			
		Quartz	20	365.9			
		Quartz	21	356.2			
		Average		362	-0.4	0.6	
Camarones-QCS	E-220	Quartz	1	233.0	-0.1	0.18	Liquid-vapor and polyphase inclusions, max. ϕ 20 μ m, colorless and opaque daughter minerals
		Quartz	2	240.9	-0.1	0.18	
		Quartz	3	242.7	-0.5	0.87	
		Quartz	4	227.0			
		Quartz	5	230.1			
		Quartz	6	234.8	-0.2	0.35	
		Quartz	7	226.2			
		Quartz	8	234.7	-0.3	0.53	
		Quartz	9	237.6	-0.7	1.22	
		Quartz	10	234.1			
		Quartz	11	244.8			
		Quartz	12	235.1			
		Quartz	13	246.4			
		Quartz	14	238.3	-0.4	0.70	
		Quartz	15	239.3			
		Quartz	16	249.0	-0.1	0.18	
		Quartz	17	242.7	-0.1	0.18	
		Quartz	18	232.0			
		Quartz	19	237.4			
		Quartz	20	239.8			
		Quartz	21	229.9			
		Average		237	-0.3	0.5	
Camarones-QCS	F-134	Quartz	1	266.7			Liquid-vapor inclusion, rare, max. ϕ 10 μ m, too small to measure salinity
		Quartz	2	271.6			
		Quartz	3	258.2			
		Quartz	4	281.4			
		Quartz	5	293.6			
		Quartz	6	286.3			
		Quartz	7	274.3			
		Quartz	8	268.2			
		Quartz	9	279.4			
		Quartz	10	271.0			
		Quartz	11	281.2			
		Quartz	12	268.9			
		Quartz	13	277.0			
		Quartz	14	278.9			
		Quartz	15	282.4			
		Quartz	16	265.9			
		Quartz	17	270.3			
		Average		275			
Camarones-SM	E-170	Quartz	1	308.1	-0.2	0.35	Liquid-vapor inclusion, max. ϕ 50 μ m
		Quartz	2	312.2			
		Quartz	3	293.7	-0.7	1.22	
		Quartz	4	299.2	-0.1	0.18	
		Quartz	5	297.3			
		Quartz	6	310.4			
		Quartz	7	294.5			
		Quartz	8	295.0			
		Quartz	9	289.8			
		Quartz	10	303.3			

AP-5 (2) Results of Fluid Inclusion Analysis (phase 2)

Area	Sample No.	Mineral host	Incl.ID	Homogenization T(°C)	Ice melting T(°C)	NaCl-wt%	Phase
		Quartz	11	299.3	-0.2	0.35	
		Quartz	12	297.0			
		Quartz	13	300.1	-0.1	0.18	
		Quartz	14	312.1	-0.1	0.18	
		Quartz	15	301.0			
		Quartz	16	299.9			
		Quartz	17	291.4	-0.6	1.05	
		Quartz	18	293.5			
		Quartz	19	294.7			
		Quartz	20	292.9	-0.4	0.70	
		Quartz	21	299.2	-0.2	0.35	
		Average		299	-0.3	0.5	
Camarones-SM	F-151	Quartz	1	301.8	-0.2	0.35	Liquid-vapor and vapor-rich inclusions, max. ϕ 10 μ m
		Quartz	2	308.4			
		Quartz	3	311.9	-0.1	0.18	
		Quartz	4	316.4	-0.4	0.70	
		Quartz	5	314.1			
		Quartz	6	304.1			
		Quartz	7	298.8	-0.1	0.18	
		Quartz	8	312.6			
		Quartz	9	307.2	-0.1	0.18	
		Quartz	10	302.9			
		Quartz	11	297.2			
		Quartz	12	302.4	-0.6	1.05	
		Quartz	13	318.4			
		Quartz	14	315.4			
		Quartz	15	304.8			
		Quartz	16	309.2			
		Quartz	17	307.3			
		Quartz	18	304.6	-0.3	0.53	
		Quartz	19	306.6	-0.2	0.35	
		Quartz	20	313.5	-0.2	0.35	
		Quartz	21	300.6			
		Average		308	-0.2	0.4	
Camarones-SM	G-157	Quartz	1	240.6	-0.3	0.53	Liquid-vapor and vapor-rich inclusions, rare
		Quartz	2	230.2	-0.4	0.70	
		Quartz	3	245.7	-0.3	0.53	
		Quartz	4	210.7			
		Quartz	5	215.8			
		Quartz	6	221.0	-1.0	1.73	
		Quartz	7	217.2			
		Quartz	8	224.6			
		Quartz	9	226.9	-0.1	0.18	
		Quartz	10	218.2	-0.4	0.70	
		Quartz	11	236.7			
		Quartz	12	220.3			
		Quartz	13	217.4			
		Quartz	14	230.8			
		Quartz	15	224.0	-0.5	0.87	
		Quartz	16	222.7			
		Quartz	17	225.7			
		Quartz	18	228.4			
		Quartz	19	212.5	-0.4	0.70	
		Quartz	20	235.7			
		Quartz	21	222.0			
		Average		225	-0.4	0.7	
Camarones-NW	E-112	Quartz	1	318.3	-0.8	1.39	Liquid-vapor, vapor phase =40% of inclusion, max. ϕ 10 μ m
		Quartz	2	317.7			
		Quartz	3	318.3			
		Quartz	4	323.1	-0.2	0.35	
		Quartz	5	314.2			
		Quartz	6	317.1			
		Quartz	7	314.2	-0.4	0.70	
		Quartz	8	315.8	-0.5	0.87	
		Quartz	9	316.2			
		Quartz	10	324.3			
		Quartz	11	330.9	-0.1	0.18	
		Quartz	12	333.4			
		Quartz	13	330.1	-0.1	0.18	
		Quartz	14	333.2			
		Quartz	15	333.4	-0.2	0.35	
		Quartz	16	322.5			
		Quartz	17	324.9			
		Quartz	18	328.1			
		Quartz	19	327.1	-0.3	0.53	
		Quartz	20	324.0			
		Quartz	21	325.8			
		Average		323	-0.3	0.6	

AP-6 (1) Results of Ore Assaying (Phase 1)

Locality	Sample No.	Coordinate		Geology	Width (cm)	Au ppb	Ag ppm	Cu %	CuSL %	Pb ppm	Zn ppm	Mo ppm	S %
		N	E										
Mocha	C-003	7809346	471820	Tgd	120	9	0.4	0.271	0.091	15	67	41	1.700
Mocha	C-009	7809202	471880	KI	Grab	235	6.8	1.626	0.495	31	110	70	0.018
Soledad	A-003	7807749	471709	Qz vein	90	15	0.5	0.006	0.004	20	31	6	0.163
Queen Elizabeth-S	A-010	7803684	504060	Tg	Grab	79	1.5	1.827	1.493	38	97	200	0.338
Queen Elizabeth-S	A-012	7803750	504118	KI	Grab	6	1.2	1.641	1.224	7	134	6	0.003
Queen Elizabeth-S	A-026	7802870	503518	Qz vein	Grab	17	1.6	0.092	0.023	20	24	43	0.329
Queen Elizabeth-S	B-025	7803886	503269	KI	Grab	< 5	1.1	0.586	0.436	14	54	7	0.010
Queen Elizabeth-S	C-038	7803978	503261	KI	Grab	64	79.4	6.283	2.577	57	121	446	1.755
Queen Elizabeth-S	C-039	7803978	503261	KI	Grab	51	14.4	5.232	3.908	25	172	236	0.051
Queen Elizabeth-S	QE-001	7803657	504396	Tg	Grab	< 5	0.7	0.234	0.125	19	99	8	0.020
Queen Elizabeth-S	QE-002	7803670	504211	Tg	Grab	9	2.5	0.058	0.006	19	20	7	0.100
Queen Elizabeth-S	QE-003	7803692	504262	Tg	Grab	7	0.6	1.430	1.345	30	186	32	0.099
Diana	A-031	7792317	494590	Js1	Grab	23	0.4	0.044	0.029	122	32	70	0.199
La Planada	A-040	7769958	492768	Kmc	150	17	1.1	0.090	0.037	9	76	47	0.285
La Planada	C-055	7769887	492765	Tourmaline breccia	Grab	17	0.3	0.140	0.053	6	49	10	2.320
La Planada	C-058	7769887	492765	Tourmaline breccia	Grab	21	1.7	0.202	0.030	7	112	49	5.698
La Planada	C-066	7770201	492974	Tg	200	71	2.5	3.291	2.667	< 2	49	29	0.021
La Planada	C-070	7769856	493416	Tg	Grab	21	0.4	6.221	5.719	4	8	32	0.033
La Planada	C-072	7769856	493416	Tg	Grab	33	3.1	5.709	5.412	8	14	171	0.242
La Planada	C-074	7769856	493416	Tg	Grab	18	0.5	0.046	0.027	2	25	1951	4.832
La Planada	C-075	7770085	493768	Qef	Grab	33	0.5	3.868	3.437	10	65	103	0.051

AP-6 (2) Results of Ore Assaying (Phase 2)

Locality	Sample No.	Coordinate		Geology	Width (cm)	Au ppb	Ag ppm	Cu %	CuSL %	Pb ppm	Zn ppm	Mo ppm	S %
		N	E										
West Queen Elizabeth-SE	F-070	7800708	495609	Qz vein	5	161	4.9	3.599	2.831	31	118	36	0.044
Camarones-QCW	E-060	7905855	435317	Qp	200	< 5	0.3	0.440	0.416	30	78	10	2.515
Camarones-QCW	E-082	7905776	434410	Qz vein	Grab	< 5	0.9	0.043	0.007	4152	1033	4	0.988
Camarones-QCW	E-186	7905889	435315	K	Grab	11	< 0.1	0.023	0.009	20	95	3	4.805
Camarones-QCW	E-189	7905870	435308	Qp	Grab	9	< 0.1	0.010	0.005	30	19	6	1.654
Camarones-QCW	E-191	7905863	435311	Qp	30	12	< 0.1	0.044	0.013	25	39	4	1.244
Camarones-QCW	E-195	7905850	435293	Qp	Grab	11	< 0.1	0.010	0.004	39	34	6	0.630
Camarones-QCW	E-198	7905857	435226	Qp	Grab	< 5	0.7	0.036	0.018	31	47	6	1.053
Camarones-QCW	E-202	7905845	435200	Qp	Grab	< 5	0.5	0.496	0.07	26	19	7	1.235
Camarones-QCW	E-206	7905836	435153	Qp	Grab	< 5	0.6	0.028	0.018	31	28	3	0.298
Camarones-QCW	E-207	7905831	435135	Qp	100	< 5	1.5	0.234	0.206	51	30	4	0.312
Camarones-QCW	E-211	7905806	435129	K	Grab	13	0.5	0.009	0.005	23	152	5	3.331
Camarones-QCW	F-158	7905858	435246	Qp	Grab	6	0.1	0.014	0.009	11	108	3	4.121
Camarones-QCW	F-161	7906889	435529	K	Grab	6	0.3	0.073	0.047	47	156	5	6.254
Camarones-QCW	F-166	7905950	435655	K	Grab	< 5	< 0.1	0.006	0.003	12	58	3	5.409
Camarones-QCW	F-170	7905955	435819	K	Grab	33	1.0	0.448	0.354	238	131	11	6.090
Camarones-QCW	F-171	7905957	435891	K	Grab	< 5	< 0.1	0.009	0.003	21	40	190	5.230
Camarones-QCW	F-175	7905962	435723	K	Grab	19	0.6	0.090	0.03	35	91	4	3.412
Camarones-QCW	F-181	7906820	435420	Qp	Grab	< 5	0.1	0.004	< 0.001	11	8	3	0.993
Camarones-QCW	G-053	7906672	436030	K	Grab	< 5	0.1	0.002	< 0.001	5	58	< 2	1.361
Camarones-QCW	G-086	7905690	435961	K	Grab	< 5	0.1	0.025	0.02	10	78	3	0.078
Camarones-QCW	G-172	7905881	435376	K	Grab	9	0.2	0.017	0.005	16	134	< 2	2.639
Camarones-QCW	G-174	7905881	435376	Qp	Grab	20	0.6	0.080	0.03	17	95	3	4.414
Camarones-QCW	G-179	7905814	435297	Qp	Grab	6	0.4	0.047	0.033	18	54	6	0.725
Camarones-QCW	G-184	7905828	435273	Qp	Grab	< 5	0.3	0.102	0.048	19	15	3	1.747
Camarones-QCC	F-111	7905511	439064	K	Grab	14	1.5	0.763	0.682	40	115	144	0.211
Camarones-QCC	F-193	7905831	438662	Dp	Grab	< 5	< 0.1	0.003	< 0.001	7	23	8	0.538
Camarones-QCC	F-198	7905897	438376	Qd	Grab	< 5	< 0.1	0.005	< 0.001	14	18	7	1.093
Camarones-QCC	F-202	7905885	438330	Qd	Grab	< 5	0.2	0.011	0.004	41	91	6	0.363
Camarones-QCS	E-219	7903525	440060	KT	50	6	0.6	0.003	0.002	18	6	4	0.335
Camarones-QCS	E-225	7902950	440622	KT	Grab	< 5	< 0.1	0.002	< 0.001	15	58	7	1.569
Camarones-QCS	E-229	7902795	440900	Qz vein	20	< 5	< 0.1	0.002	< 0.001	8	6	5	0.042
Camarones-QCS	E-232	7902686	440870	Qz vein	10	< 5	< 0.1	0.004	< 0.001	157	14	4	4.930
Camarones-QCS	E-234	7902599	440819	Qz vein	50	< 5	< 0.1	0.001	< 0.001	9	8	9	0.074
Camarones-QCS	E-235	7902414	441078	Qz vein	Grab	< 5	< 0.1	0.001	< 0.001	27	21	< 2	1.625
Camarones-QCS	G-198	7904493	440355	KT	Grab	< 5	< 0.1	0.001	< 0.001	9	41	< 2	0.766
Camarones-QCS	G-200	7904520	440438	KT	Grab	< 5	0.2	0.002	< 0.001	15	63	4	0.740
Camarones-QCS	G-203	7904596	440540	KT	Grab	< 5	0.1	0.001	< 0.001	5	15	9	0.887
Camarones-SM	E-169	7898143	438649	Qz vein	Grab	< 5	< 0.1	0.002	< 0.001	22	46	7	0.019
Camarones-NW	F-210	7918829	426827	Qd	Grab	< 5	< 0.1	0.006	0.002	20	86	4	0.012
Camarones-NW	F-211	7918820	426881	Qd	Grab	< 5	0.1	0.002	< 0.001	12	11	8	0.012
Camarones-NW	F-213	7918800	426847	Qd	30	< 5	0.2	0.004	< 0.001	40	34	7	0.045
Camarones-NW	F-214	7918868	426775	Qd	20	< 5	< 0.1	0.003	< 0.001	11	16	3	0.022
Camarones-NW	F-216	7918846	426934	Qd	Grab	< 5	0.1	0.009	0.002	14	242	7	0.017

AP-7 (1) Results of Geochemical Analysis of Rock Samples (Phase 1)

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
Mocha	C-001	7808565	470934	Kg	< 5	0.9	896	29	214	< 2	< 20	< 20	< 0.01
Mocha	C-002	7808565	470934	Kg	< 5	1.7	1066	27	153	< 2	< 20	< 20	< 0.01
Mocha	C-011	7809149	472112	Kg	88	1.5	1850	139	81	39	22	< 20	0.02
Mocha	C-012	7809371	472070	K1	12	0.4	44	8	21	3	62	< 20	< 0.01
Mocha	C-018	7809106	470379	Tgd	305	2.9	2918	7	87	10	53	< 20	0.053
Mocha	D-006	7809077	470422	Tgd	< 5	0.3	875	70	39	5	41	< 20	0.021
Soledad	D-001	7807766	472027	Tgd	9	0.7	13	7	13	7	86	< 20	< 0.01
Soledad	D-002	7807800	472071	Tgd	24	0.6	49	7	14	4	58	< 20	< 0.01
Soledad	D-003	7807829	472110	Tgd	< 5	0.5	65	5	31	5	45	< 20	< 0.01
Soledad	D-004	7807846	472158	Kg	42	0.8	1247	3	78	3	84	< 20	< 0.01
Soledad	A-001	7807700	471731	K1	12	1.1	48	14	20	7	58	< 20	< 0.01
Soledad	A-005	7807588	471901	Tgd	7	0.5	71	9	102	< 2	29	< 20	< 0.01
Soledad	A-007	7807401	471828	Tgd	11	0.3	27	12	25	3	46	< 20	< 0.01
Soledad	B-002	7807959	472289	K1	27	0.5	174	9	29	7	69	< 20	< 0.01
Soledad	B-003	7807880	472286	K1	10	1.2	340	8	10	31	44	< 20	< 0.01
Soledad	B-004	7807880	472286	K1	15	0.8	205	9	8	7	35	< 20	< 0.01
Soledad	B-005	7807816	472289	K1	< 5	0.9	69	9	59	5	30	< 20	< 0.01
Soledad	B-006	7807755	472282	Tgd	12	0.9	59	6	68	6	61	< 20	< 0.01
Soledad	B-007	7807755	472282	K1	18	0.8	157	41	97	7	91	< 20	< 0.01
Soledad	B-008	7807710	472273	Tgd	18	0.6	126	11	73	10	92	< 20	< 0.01
Soledad	C-013	7807554	472200	K1	12	0.6	76	25	67	6	93	< 20	< 0.01
Soledad	C-014	7807484	472124	K1	12	2.8	94	35	81	4	70	< 20	< 0.01
Soledad	C-015	7807406	472044	K1	12	0.9	186	7	219	6	85	< 20	< 0.01
Soledad	C-016	7807335	471964	K1	24	0.4	49	7	26	5	89	< 20	< 0.01
Soledad	C-017	7807554	472052	Tgd	20	0.6	199	33	110	5	69	< 20	< 0.01
Queen Elizabeth-N	C-021	7809996	504889	K1	< 5	0.2	11	14	15	19	115	< 20	0.011
Queen Elizabeth-N	C-023	7809996	504889	K1	< 5	0.2	9	6	17	15	225	< 20	< 0.01
Queen Elizabeth-N	C-024	7810115	504614	K1	< 5	0.1	4	19	6	3	32	< 20	0.017
Queen Elizabeth-N	C-026	7810074	504472	K1	< 5	0.3	5	64	8	12	98	< 20	< 0.01
Queen Elizabeth-N	C-027	7810229	504493	K1	< 5	0.1	2	21	7	7	61	< 20	0.02
Queen Elizabeth-N	C-028	7810504	504820	K1	< 5	1.6	42	7	19	24	105	< 20	0.151
Queen Elizabeth-N	C-030	7810654	504790	K1	< 5	0.1	5	30	3	9	93	< 20	0.078
Queen Elizabeth-N	C-032	7810735	504817	K1	< 5	0.1	6	45	4	7	79	< 20	0.019
Queen Elizabeth-N	C-033	7810735	504817	K1	< 5	0.2	3	7	14	5	81	< 20	< 0.01
Queen Elizabeth-N	C-035	7810975	504696	K1	< 5	0.2	< 1	37	4	3	58	< 20	0.015
Queen Elizabeth-N	C-037	7810831	504732	K1	< 5	0.2	3	131	10	11	69	< 20	0.012
Queen Elizabeth-N	D-009	7809932	504532	K1	< 5	0.1	7	34	17	8	74	< 20	0.022
Queen Elizabeth-N	D-011	7809932	504532	K1	< 5	0.1	7	50	32	7	68	< 20	0.017
Queen Elizabeth-N	D-013	7809696	504432	K1	< 5	0.1	4	51	20	12	82	< 20	0.016
Queen Elizabeth-N	D-014	7809696	504432	K1	< 5	0.2	5	54	43	17	84	< 20	0.014
Queen Elizabeth-N	D-015	7809696	504432	K1	< 5	< 0.1	53	18	107	41	241	< 20	0.055
Queen Elizabeth-N	D-017	7809575	504535	K1	< 5	< 0.1	23	32	70	< 2	67	< 20	0.4
Queen Elizabeth-N	D-018	7809507	504605	K1	< 5	0.1	22	13	41	< 2	53	< 20	0.04
Queen Elizabeth-N	D-019	7809451	504737	K1	< 5	0.1	4	69	13	7	105	< 20	0.286
Queen Elizabeth-N	D-021	7809451	504737	K1	< 5	< 0.1	2	47	10	3	94	< 20	2.066
Queen Elizabeth-N	D-022	7809805	504304	K1	< 5	< 0.1	33	28	22	4	81	< 20	0.056
Queen Elizabeth-N	D-023	7809852	504255	K1	6	< 0.1	26	64	21	6	84	< 20	0.014
Queen Elizabeth-N	D-025	7809940	504215	K1	< 5	0.1	17	46	32	6	87	< 20	< 0.01
Queen Elizabeth-N	D-026	7810050	504143	K1	< 5	0.1	21	29	21	11	86	< 20	0.014
Queen Elizabeth-N	D-027	7810050	504143	K1	< 5	0.2	21	53	20	4	58	< 20	0.048
Queen Elizabeth-N	D-028	7810050	504143	K1	< 5	0.1	23	24	11	13	119	< 20	< 0.01
Queen Elizabeth-N	D-030	7810309	504105	K1	< 5	< 0.1	59	68	34	21	152	< 20	0.01
Queen Elizabeth-N	D-031	7810309	504105	K1	< 5	< 0.1	18	80	32	17	358	< 20	0.013
Queen Elizabeth-N	D-032	7810495	504092	K1	< 5	0.2	5	32	12	6	430	< 20	0.03
Queen Elizabeth-N	D-033	7810495	504092	K1	< 5	0.1	33	14	13	< 2	100	< 20	0.03
Queen Elizabeth-N	D-034	7811118	504446	K1	< 5	0.1	1	22	43	< 2	64	< 20	< 0.01
Queen Elizabeth-C	B-010	7805359	504882	K1	< 5	< 0.1	54	30	50	8	69	< 20	< 0.01
Queen Elizabeth-C	B-011	7805384	504891	K1	< 5	0.2	12	48	49	4	44	< 20	< 0.01
Queen Elizabeth-C	B-012	7805397	504868	K1	< 5	< 0.1	15	35	56	4	55	< 20	< 0.01
Queen Elizabeth-C	B-013	7805389	504834	K1	< 5	0.1	9	34	43	4	57	< 20	0.015
Queen Elizabeth-C	B-014	7805403	504648	K1	< 5	< 0.1	260	62	30	13	133	< 20	0.039
Queen Elizabeth-C	B-015	7805399	504549	K1	< 5	0.2	22	8	3	< 2	71	< 20	< 0.01
Queen Elizabeth-C	B-016	7805263	504357	K1	< 5	0.2	23	11	22	9	58	< 20	< 0.01
Queen Elizabeth-C	B-017	7805090	504289	K1	< 5	0.1	48	5	10	< 2	62	< 20	< 0.01
Queen Elizabeth-C	B-018	7805016	504285	K1	< 5	< 0.1	12	7	10	< 2	30	< 20	< 0.01
Queen Elizabeth-C	B-019	7805034	504453	K1	290	313.5	528	46517	630	42	354	536	2.081
Queen Elizabeth-C	B-020	7804941	504251	K1	< 5	2.5	23	612	31	4	66	< 20	0.012
Queen Elizabeth-C	B-021	7804858	504211	K1	< 5	0.2	30	65	12	3	55	< 20	< 0.01
Queen Elizabeth-C	B-022	7804768	504180	K1	< 5	0.5	25	370	11	6	49	< 20	0.013
Queen Elizabeth-C	B-023	7804725	504155	K1	< 5	0.3	52	10	5	9	55	< 20	< 0.01
Queen Elizabeth-C	B-024	7804632	504016	K1	< 5	0.1	9	12	3	< 2	52	< 20	< 0.01
Queen Elizabeth-S	A-008	7803684	504060	Tg	< 5	0.5	2678	10	130	20	96	< 20	0.018
Queen Elizabeth-S	A-015	7803824	504262	K1	< 5	2.2	1802	31	132	12	33	< 20	0.013
Queen Elizabeth-S	A-018	7803699	504340	Tp	24	1.8	403	1022	30	102	103	< 20	0.036
Queen Elizabeth-S	A-020	7803750	504118	K1	< 5	0.8	10596	11	168	7	84	< 20	< 0.01

AP-7 (1) Results of Geochemical Analysis of Rock Samples (Phase 1)

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
Queen Elizabeth-S	A-021	7802870	503518	Tp	< 5	1.9	61	8	16	7	61	< 20	0.02
Queen Elizabeth-S	A-023	7802870	503518	Tg	6	3	568	22	42	3	53	< 20	< 0.01
Queen Elizabeth-S	A-027	7803085	502969	Tg	< 5	0.7	62	16	44	54	53	< 20	< 0.01
Queen Elizabeth-S	B-026	7803886	503269	K1	< 5	0.1	52	13	27	4	80	< 20	< 0.01
Diana	A-029	7792281	494654	Kg/Ti	12	0.2	70	11	42	10	93	< 20	< 0.01
Diana	A-031	7792317	494590	Jsl	20	0.1	60	124	33	28	93	< 20	0.026
Diana	A-032	7792353	494541	Clay vein	36	0.1	192	18	8	9	99	24	0.041
Diana	A-034	7792385	494486	Kg/Ti	188	0.4	482	12	91	4	98	< 20	< 0.01
Diana	A-037	7792454	494537	Jsl	< 5	0.1	244	9	20	4	102	< 20	0.026
Diana	A-038	7792454	494455	Jsl	< 5	0.3	76	6	17	22	45	< 20	< 0.01
Diana	B-028	7792411	494690	Kg/Ti	< 5	0.4	61	10	25	15	67	< 20	0.019
Diana	B-029	7792421	494748	Kg/Ti	29	0.2	26	5	4	< 2	54	< 20	0.017
Diana	B-030	7792395	494871	Jsl	< 5	< 0.1	23	5	6	9	65	< 20	< 0.01
Diana	B-033	7792534	494577	Jsl	< 5	< 0.1	27	7	9	7	47	< 20	0.019
Diana	B-034	7792605	494561	Jsl	185	0.3	90	8	15	19	85	< 20	0.02
Diana	B-035	7792592	494441	Jsl	< 5	0.5	47	9	5	5	68	< 20	< 0.01
Diana	B-036	7792848	494107	Jsl	15	0.7	39	5	21	3	63	< 20	0.556
Diana	B-037	7792894	494114	Kg/Ti	< 5	0.3	90	5	14	4	41	< 20	0.058
Diana	B-038	7792939	494110	Jsl	14	< 0.1	24	4	5	16	82	< 20	< 0.01
Diana	B-039	7792939	494110	Kg/Ti	< 5	< 0.1	12	8	7	6	69	< 20	< 0.01
Diana	C-041	7791890	494661	Jsl	37	< 0.1	117	5	25	61	58	< 20	0.021
Diana	C-042	7791836	494700	Jsl	< 5	0.1	28	8	55	7	43	< 20	< 0.01
Diana	C-043	7791773	494742	Jsl	15	1.2	130	154	136	7	125	< 20	0.318
Diana	C-044	7791611	494807	Jsl	< 5	0.2	27	6	52	< 2	186	< 20	0.068
Diana	C-045	7791718	494907	Jsl	< 5	0.3	18	< 2	15	9	78	< 20	0.026
Diana	C-046	7791776	494904	Jsl	< 5	0.2	16	64	41	9	61	23	0.044
Diana	C-047	7791760	494985	Jsl	< 5	0	19	4	10	3	103	< 20	0.02
Diana	C-048	7791728	495076	Jsl	< 5	0	31	7	8	7	75	< 20	< 0.01
Diana	C-050	7791728	495076	Jsl	175	0.4	59	116	26	8	75	< 20	0.013
Diana	C-051	7791896	494972	Jsl	15	0.2	84	9	52	12	31	< 20	< 0.01
Diana	C-052	7792217	494496	Jsl	21	0.2	80	5	9	7	56	< 20	< 0.01
Diana	C-053	7792362	494434	Jsl	15	0.1	89	14	9	33	97	22	< 0.01
Diana	D-036	7791572	494081	Jsl	< 5	0.1	32	4	5	5	93	< 20	0.017
Diana	D-037	7791572	494081	Jsl	< 5	0.1	24	6	3	5	105	< 20	0.036
Diana	D-039	7791711	494185	Jsl	417	0.1	68	15	26	8	196	< 20	0.036
Diana	D-040	7791711	494185	Jsl	< 5	0.1	94	80	14	42	88	< 20	0.016
Diana	D-042	7791915	494405	Jsl	< 5	0.1	77	9	36	4	99	< 20	< 0.01
Diana	D-043	7791915	494405	Jsl	< 5	0.1	87	6	19	6	76	< 20	< 0.01
Diana	D-044	7791915	494405	Jsl	< 5	0.1	172	14	47	57	116	< 20	< 0.01
Diana	D-045	7792149	494489	Kg/Ti	33	0.4	124	15	32	5	65	< 20	0.046
Diana	D-046	7792149	494489	Kg/Ti	58	0.2	92	12	76	6	78	< 20	< 0.01
Diana	D-047	7792155	494622	Kg/Ti	287	0.8	870	5	44	14	455	253	0.025
Diana	D-048	7792508	494431	Jsl	< 5	0.4	62	16	10	3	91	< 20	< 0.01
Diana	Z-001	7792750	494671	Jsl	< 5	0.2	59	10	93	3	128	< 20	0.06
Diana	Z-004	7792896	494842	Jsl	< 5	0.3	20	10	56	< 2	129	< 20	< 0.01
Diana	Z-005	7792673	494656	Jsl	< 5	< 0.1	111	4	34	23	89	< 20	< 0.01
Diana	Z-007	7792576	494330	Jsl	< 5	0.1	18	5	9	23	99	< 20	< 0.01
La Planada	A-039	7769958	492768	Kms	6	0.4	1882	7	86	3	83	< 20	< 0.010
La Planada	A-044	7770563	493171	Kgd	12	2.1	139	6	8	30	60	< 20	0.040
La Planada	A-046	7770040	493719	Tp	< 5	0.9	2846	4	52	122	118	< 20	0.011
La Planada	C-054	7769887	492765	Tourmdine breccia	28	0.1	1008	4	62	3	108	< 20	< 0.010
La Planada	C-056	7769887	492765	Kmc	12	0.5	234	6	50	17	140	< 20	< 0.010
La Planada	C-057	7769887	492765	Kmc	< 5	0.2	144	5	36	15	93	< 20	< 0.010
La Planada	C-059	7769977	492806	Kmc	< 5	0.7	556	5	43	4	153	< 20	< 0.010
La Planada	C-060	7770045	492817	Kmc	< 5	0.6	130	6	19	5	55	< 20	0.019
La Planada	C-061	7770093	492830	Kmc	9	0.4	6465	5	52	142	433	< 20	0.016
La Planada	C-064	7770045	492817	Kmc	< 5	< 0.1	123	9	33	9	73	< 20	< 0.010
La Planada	C-065	7770153	492879	Kmc	39	1.2	1074	6	38	141	87	< 20	< 0.010
La Planada	C-076	7770201	492974	Tg	< 5	0.8	8000	7	60	47	123	52	0.029
La Planada	C-077	7770201	492974	Tg	< 5	0.2	228	4	31	154	89	< 20	< 0.010
La Planada	C-078	7770201	492974	Tg	< 5	0.4	779	6	32	54	82	< 20	0.012
La Planada	Z-008	7770280	492980	Kgd	15	1.7	1590	< 2	14	214	89	< 20	0.034

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
Chacarilla-E	F001	7720771	498881	Kg/Ti	< 5	0.1	11	< 2	22	8	18	0.7	0.053
Chacarilla-E	F002	7720853	498891	Kg/Ti	< 5	0.3	6	< 2	32	3	3.7	2.4	1.210
Chacarilla-E	F004	7720853	498891	Js2	18	0.1	64	< 2	108	3	133	1.6	< 0.01
Chacarilla-E	F005	7720550	498923	Js2	< 5	0.2	9	8	16	4	5.3	0.9	0.035
Chacarilla-E	F006	7720506	498940	Js2	102	0.9	4	9	3	4	203	1.8	0.169
Chacarilla-E	F007	7720258	498493	d	< 5	0.2	3	< 2	9	4	6.6	1.2	< 0.01
Chacarilla-E	G001	7720896	498887	Js2	< 5	0.1	13	< 2	4	< 2	8	0.7	< 0.01
Chacarilla-E	G002	7720369	499012	Js2	6	0.2	25	50	10	9	45	0.9	0.011
Chacarilla-E	G004	7720239	499005	Js2	< 5	0.1	14	< 2	6	4	3.5	0.5	< 0.01
Chacarilla-E	G005	7720939	499365	Js2	< 5	0.2	14	5	42	3	19	0.8	0.020
Chacarilla-E	G006	7720928	499333	Js2	6	0.1	9	11	29	7	13	0.6	< 0.01
Chacarilla-E	G008	7720859	499269	Js2	< 5	0.2	52	30	783	8	24	1	0.059
Chacarilla-E	G009	7720798	499135	Js2	< 5	< 0.1	4	< 2	7	9	8.5	0.9	0.013
Chacarilla-E	G010	7720788	499078	Js2	7	< 0.1	13	< 2	14	6	13	1	0.044
Chacarilla-E	G011	7720857	499037	Kg/Ti	23	0.2	187	87	23	18	187	6.6	< 0.01
Chacarilla-E	G013	7720386	498425	Kg/Ti	< 5	< 0.1	12	< 2	15	< 2	11	1.2	0.043
Chacarilla-E	G014	7720274	498472	Kg/Ti	11	0.1	13	13	223	11	95	1.2	0.090
Chacarilla-W	F008	7718440	489053	Kg/Ti	10	0.2	3	< 2	5	5	18	1	< 0.01
Chacarilla-W	F011	7718440	489053	Js2	< 5	0.1	4	< 2	4	5	1.8	1.1	< 0.01
Chacarilla-W	F012	7718440	489053	Js2	< 5	0.1	3	< 2	7	3	2.9	1.5	0.033
Chacarilla-W	F014	7718371	489068	Js2	< 5	0.2	3	< 2	6	4	4.3	0.8	0.026
Chacarilla-W	F015	7718356	489081	Js2	< 5	< 0.1	3	< 2	13	13	2.8	1.1	< 0.01
Chacarilla-W	F016	7718280	489138	Js2	< 5	0.1	3	< 2	3	< 2	2.2	1.4	< 0.01
Chacarilla-W	F017	7717885	490163	Sil. Vein	< 5	0.1	24	< 2	8	9	25	1.3	0.021
Chacarilla-W	F018	7717829	490172	Sil. Vein	< 5	0.1	117	3	7	8	10	6.1	< 0.01
Chacarilla-W	F019	7717829	490172	Sil. Vein	< 5	0.2	67	< 2	17	13	32	7.8	< 0.01
Chacarilla-W	F022	7717796	490205	Js1	9	0.3	22	< 2	4	3	112	10	< 0.01
Chacarilla-W	F023	7717850	490040	Sil. Vein	< 5	< 0.1	7	< 2	< 1	8	6.9	3.5	0.027
Chacarilla-W	F026	7717244	489650	Js1	< 5	1	23	< 2	10	4	13	2.1	< 0.01
Chacarilla-W	F027	7717258	489531	Js1	< 5	0.1	24	< 2	10	7	2.1	0.8	< 0.01
West Queen Elizabeth-N	E001	7805846	492622	Kg/Tg	< 5	0.2	111	6	13	7	8.1	2	0.204
West Queen Elizabeth-N	E003	7806567	492010	K1	7	< 0.1	23	14	4	8	14	0.7	0.031
West Queen Elizabeth-N	E005	7806705	491996	K1	< 5	< 0.1	11	3	11	4	2.4	0.3	0.026
West Queen Elizabeth-N	E006	7806966	491858	K1	< 5	< 0.1	18	7	49	5	13	0.7	< 0.01
West Queen Elizabeth-N	E008	7807028	491871	K1	< 5	0.1	25	8	11	4	10	1.8	< 0.01
West Queen Elizabeth-N	E009	7807074	491889	K1	< 5	< 0.1	32	4	12	4	45	0.7	< 0.01
West Queen Elizabeth-N	E010	7807125	491908	K1	< 5	< 0.1	9	< 2	1	8	7.1	1.8	< 0.01
West Queen Elizabeth-N	E012	7806737	492538	K1	13	< 0.1	18	28	41	13	18	0.8	< 0.01
West Queen Elizabeth-N	F028	7805859	492698	K1	9	0.4	23	19	22	4	22	1.9	0.164
West Queen Elizabeth-N	F030	7805894	492701	K1	< 5	0.1	24	2	10	8	4.7	1	< 0.01
West Queen Elizabeth-N	F031	7805933	492710	Kg/Tg	< 5	< 0.1	24	13	81	5	8.3	0.4	< 0.01
West Queen Elizabeth-N	F035	7806383	492355	Kg/Tg	< 5	< 0.1	26	8	19	6	14	1.3	< 0.01
West Queen Elizabeth-N	F036	7806390	492242	Kg/Tg	30	0.1	29	15	102	7	44	8.9	< 0.01
West Queen Elizabeth-N	F038	7806445	492092	Kg/Tg	< 5	< 0.1	12	13	11	5	11	3.4	< 0.01
West Queen Elizabeth-N	F039	7806445	492092	Kg/Tg	< 5	< 0.1	21	5	62	3	14	8.1	< 0.01
West Queen Elizabeth-N	F041	7806566	492282	K1	< 5	< 0.1	9	< 2	53	17	5.9	2	< 0.01
West Queen Elizabeth-N	F042	7806510	492458	Kg/Tg	62	< 0.1	16	5	25	3	6.8	< 0.2	0.016
West Queen Elizabeth-N	F043	7806368	492662	K1	9	< 0.1	6	5	12	4	8.8	0.8	< 0.01
West Queen Elizabeth-N	F045	7805973	492461	Kg/Tg	< 5	< 0.1	11	2	20	3	4.8	1.2	< 0.01
West Queen Elizabeth-N	F046	7805724	492493	Kg/Tg	8	< 0.1	13	10	9	4	13	2.6	< 0.01
West Queen Elizabeth-N	F047	7805788	492657	Kg/Tg	< 5	1.4	8	< 2	6	12	3.7	0.4	< 0.01
West Queen Elizabeth-N	G015	7805980	492786	Qz vein	< 5	< 0.1	16	< 2	19	26	2.1	1.2	< 0.01
West Queen Elizabeth-N	G016	7806002	492792	Kg/Tg	< 5	0.1	20	< 2	35	4	4.7	1.5	< 0.01
West Queen Elizabeth-N	G017	7806901	493693	Kg/Tg	68	0.1	9	11	5	4	13	6.9	< 0.01
West Queen Elizabeth-N	G018	7807244	493710	Kg/Tg	< 5	0.2	20	13	50	7	17	15	< 0.01
West Queen Elizabeth-N	G019	7807378	493743	Kg/Tg	7	0.1	11	22	10	4	20	19	< 0.01
West Queen Elizabeth-N	G020	7807813	493646	Kg/Tg	< 5	0.2	18	6	14	3	6.4	0.6	0.021
West Queen Elizabeth-N	G021	7807473	493443	Kg/Tg	34	0.2	27	5	14	9	7.2	4.9	0.055
West Queen Elizabeth-N	G022	7807430	493137	Kg/Tg	< 5	0.2	9	11	11	4	21	1.4	0.219
West Queen Elizabeth-C	E013	7802851	490340	K1	< 5	0.1	19	8	12	5	24	4.1	0.019
West Queen Elizabeth-C	E015	7802886	490382	K1	< 5	< 0.1	25	3	19	5	250	3	< 0.01
West Queen Elizabeth-C	E018	7802963	490717	K1	6	0.2	26	18	5	8	26	3.6	0.018
West Queen Elizabeth-C	E017	7802692	490786	K1	< 5	< 0.1	24	5	13	7	42	5	0.010
West Queen Elizabeth-C	E019	7802596	490837	K1	6	0.2	12	< 2	20	5	37	1.5	< 0.01
West Queen Elizabeth-C	E020	7802495	491230	Kg/Tg	< 5	< 0.1	12	< 2	73	5	3.7	< 0.2	< 0.01
West Queen Elizabeth-C	E024	7802266	491472	Kg/Tg	< 5	< 0.1	23	< 2	18	4	15	0.4	< 0.01
West Queen Elizabeth-C	E025	7801324	490779	K1	< 5	< 0.1	16	6	32	4	2.7	0.3	< 0.01
West Queen Elizabeth-SE	F049	7801394	495197		8	< 0.1	11	< 2	28	4	72	5	< 0.01
West Queen Elizabeth-SE	F050	7801394	495197	Js1	< 5	< 0.1	17	13	30	4	37	4.8	< 0.01
West Queen Elizabeth-SE	F052	7801482	495217	Kg/Tg	< 5	< 0.1	5	6	885	4	43	8.6	< 0.01
West Queen Elizabeth-SE	F054	7801482	495217	Js1	< 5	0.1	41	3	57	3	182	6.3	< 0.01
West Queen Elizabeth-SE	F055	7801885	495246	Kg/Tg	< 5	0.1	5	71	113	< 2	18	2.1	< 0.01
West Queen Elizabeth-SE	F057	7801855	495414	Js1	< 5	0.3	73	55	86	7	28	1	< 0.01
West Queen Elizabeth-SE	F058	7801724	495354	K1	< 5	< 0.1	8	< 2	31	9	4.7	0.7	< 0.01
West Queen Elizabeth-SE	F059	7800826	494107	K1	< 5	0.1	79	12	24	3	3.8	2.8	< 0.01
West Queen Elizabeth-SE	F061	7800912	494849	K1	10	1	165	151	434	10	25	2.4	0.026

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

Locality	Sample No.	Coordinate		Geology	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm	Sb ppm	Hg ppm
		N	E										
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	486963	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	0.8	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	7802633	487144	Kg/Tg	< 5	< 0.1	6	4	23	4	1.4	< 0.2	0.010
West Queen Elizabeth-W	G029	7803870	488446	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	452562	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	3.6	117	204	17	< 2	540	164	3.077
Tignamar-N	G031	7946326	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	7946211	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	7933263	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	8	< 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	6.4	0.392
Tignamar-S	G041	7933697	461172	Ti	8	0.1	11	9	2	8	128	4.3	0.027
Tignamar-S	G042	7934300	460665	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	0.189
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	326	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	432467	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	433965	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	7904892	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	Op	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	434866	K	13	0.6	316	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

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
Camarones-QCW	E079	7905776	434410	K	22	1.8	470	5145	746	4	184	22.6	0.017
Camarones-QCW	E180	7905905	435267	K	9	0.2	21	41	53	4	89	4.4	0.020
Camarones-QCW	E184	7905889	435315	K	13	0.2	114	54	80	< 2	21	2.3	0.017
Camarones-QCW	E187	7905870	435308	Qp	8	< 0.1	107	29	17	4	21	0.7	0.014
Camarones-QCW	E193	7905850	435293	Qp	13	0.4	183	29	35	6	7.9	< 0.2	< 0.01
Camarones-QCW	E196	7905857	435226	Qp	10	1.2	321	33	37	6	14	1	< 0.01
Camarones-QCW	E201	7905845	435200	Qp	< 5	1.1	4430	41	15	< 2	11	1.9	0.013
Camarones-QCW	E205	7905836	435153	Qp	< 5	1.2	432	29	23	3	98	4.2	< 0.01
Camarones-QCW	E209	7905831	435135	Qp	6	3.5	1932	34	30	5	99	3.9	0.015
Camarones-QCW	E210	7905806	435129	K	24	1.1	122	68	156	< 2	93	3.4	< 0.01
Camarones-QCW	F120	7906520	434884	K	13	0.2	133	44	71	< 2	51	1.1	0.020
Camarones-QCW	F121	7906552	434872	K	8	< 0.1	9	35	34	3	19	0.5	0.016
Camarones-QCW	F123	7906605	434866	Qp	< 5	< 0.1	7	25	4	4	3.4	0.4	< 0.01
Camarones-QCW	F160	7906889	435529	K	8	0.1	1276	55	194	< 2	39	3	< 0.01
Camarones-QCW	F164	7906889	435529	K	13	< 0.1	83	54	81	3	59	1.8	< 0.01
Camarones-QCW	F165	7905950	435855	K	10	0.1	65	54	44	5	1280	10	0.021
Camarones-QCW	F168	7905948	435711	K	< 5	0.1	24	54	47	3	15	1.7	< 0.01
Camarones-QCW	F169	7905947	435782	K	< 5	< 0.1	11	44	56	4	23	1.2	< 0.01
Camarones-QCW	F174	7905999	435898	K	< 5	0.2	159	52	76	< 2	27	1.3	< 0.01
Camarones-QCW	F178	7905980	435675	K	10	0.3	84	62	47	5	2340	28.3	0.022
Camarones-QCW	F179	7906800	435400	Qp	< 5	0.1	14	22	6	< 2	11	0.6	< 0.01
Camarones-QCW	F180	7906820	435420	Qp	< 5	0.2	20	21	3	4	13	0.5	0.014
Camarones-QCW	F184	7906830	435420	Qp	< 5	0.2	8	14	6	< 2	23	< 0.2	< 0.01
Camarones-QCW	G055	7906672	436030	Qz vein	< 5	0.3	67	< 2	20	12	39	0.6	0.040
Camarones-QCW	G056	7906986	435998	K	14	0.4	345	6	55	4	20	1.1	< 0.01
Camarones-QCW	G057	7907058	436044	Qz vein	< 5	0.3	53	17	30	3	11	0.4	< 0.01
Camarones-QCW	G059	7907079	436083	Qp	< 5	0.2	14	16	18	5	5.2	< 0.2	< 0.01
Camarones-QCW	G060	7906602	435867	Qp	7	0.1	41	18	30	< 2	2.6	< 0.2	< 0.01
Camarones-QCW	G061	7906610	435576	Qp	< 5	0.1	41	12	15	3	4.3	< 0.2	< 0.01
Camarones-QCW	G062	7906908	435718	Qpb	< 5	0.3	7	8	8	< 2	9	0.3	< 0.01
Camarones-QCW	G064	7906676	435433	Qpb	< 5	0.2	21	5	7	4	25	0.3	< 0.01
Camarones-QCW	G065	7906666	435425	Qz vein	< 5	0.3	16	32	12	< 2	47	1.5	< 0.01
Camarones-QCW	G083	7905738	435958	Qz vein	< 5	0.2	34	51	86	< 2	17	4.5	< 0.01
Camarones-QCW	G088	7905518	435151	Qz vein	< 5	0.1	12	51	97	< 2	49	3.4	< 0.01
Camarones-QCW	G089	7905537	435190	Qz vein	7	22.4	25100	74	126	10	12	3	0.067
Camarones-QCW	G094	7905439	435392	Qz vein	47	1.5	159	181	654	20	28	1.7	< 0.01
Camarones-QCW	G095	7905198	435300	K	9	1.8	140	40	92	< 2	8.1	1	< 0.01
Camarones-QCW	G096	7905904	434670	K	< 5	0.5	14	58	132	< 2	13	2.5	0.014
Camarones-QCW	G097	7905956	434655	K	< 5	0.2	42	33	71	5	15	1.9	< 0.01
Camarones-QCW	G176	7905863	435355	Qp	15	0.2	181	57	38	14	30	0.5	< 0.01
Camarones-QCW	G177	7905831	435311	Qp	13	0.5	106	29	13	7	23	4.2	< 0.01
Camarones-QCW	G178	7905812	435308	Qp	10	0.2	118	28	17	< 2	6.7	0.5	< 0.01
Camarones-QCW	G181	7905840	435292	Qp	< 5	< 0.1	283	32	14	< 2	14	1.1	< 0.01
Camarones-QCW	G182	7905830	435275	Qp	10	0.4	212	33	15	5	13	7	< 0.01
Camarones-QCW	G185	7905817	435196	Qp	7	0.9	429	48	20	6	91	7.4	< 0.01
Camarones-QCW	G186	7905821	435162	Qz vein	9	< 0.1	76	50	25	3	295	10	< 0.01
Camarones-QCW	G187	7905796	435145	K	24	0.6	112	124	102	3	95	5.3	< 0.01
Camarones-QCWC	F100	7906044	436143	Qd	< 5	< 0.1	75	7	195	4	12	0.8	< 0.01
Camarones-QCWC	F101	7906006	436266	Qd	< 5	0.1	8	3	24	< 2	24	0.7	0.015
Camarones-QCWC	F102	7906145	436527	Qd	< 5	0.1	14	6	50	< 2	24	0.7	< 0.01
Camarones-QCWC	F104	7906114	436865	Qd	< 5	< 0.1	21	11	41	6	14	0.5	< 0.01
Camarones-QCWC	G098	7905836	436223	K	< 5	0.4	310	56	76	3	21	0.5	< 0.01
Camarones-QCWC	G099	7905977	436268	Qd	< 5	< 0.1	8	24	19	< 2	20	0.7	< 0.01
Camarones-QCWC	G101	7906332	437435	Qd	< 5	0.1	130	40	61	3	24	0.6	< 0.01
Camarones-QCWC	G102	7906380	437507	Qd	< 5	< 0.1	82	42	54	6	12	2.8	< 0.01
Camarones-QCWC	G103	7906678	437531	Gd	< 5	0.2	7	18	< 1	7	34	3.1	0.053
Camarones-QCWC	G104	7906800	437553	Qd	< 5	0.2	85	31	41	5	11	0.6	< 0.01
Camarones-QCWC	G105	7906713	437678	Qd	< 5	0.1	8	21	18	4	27	1.3	< 0.01
Camarones-QCWC	G107	7906718	437891	Qd	< 5	0.2	141	52	23	9	33	1.3	0.015
Camarones-QCWC	G108	7906956	437940	Qz vein	< 5	0.2	< 1	18	8	4	90	33.7	< 0.01
Camarones-QCC	E089	7906644	439866	Qd	6	< 0.1	62	16	71	6	30	0.8	< 0.01
Camarones-QCC	E092	7906588	439897	Qd	< 5	< 0.1	101	7	60	5	41	1.9	< 0.01
Camarones-QCC	E115	7906426	440360	KT	16	< 0.1	16	19	78	7	53	10	0.022
Camarones-QCC	E117	7906426	440360	KT	1782	148	38	43	28	15	67	23.2	0.100
Camarones-QCC	E120	7906110	440100	KT	< 5	< 0.1	12	6	412	5	34	1.8	< 0.01
Camarones-QCC	E123	7906019	439617	KT	77	< 0.1	73	25	380	10	8.3	0.4	0.015
Camarones-QCC	E124	7906026	439305	Di	9	0.2	18	35	106	9	61	0.8	< 0.01
Camarones-QCC	E125	7905910	439077	Di	< 5	< 0.1	47	37	16	< 2	23	1.1	< 0.01
Camarones-QCC	E127	7905889	438951	Qpb	< 5	0.1	12	17	45	4	122	3.2	< 0.01
Camarones-QCC	F105	7905728	437419	Qd	< 5	0.1	29	7	14	8	19	0.4	0.018
Camarones-QCC	F107	7905728	437419	Qd	< 5	< 0.1	21	10	22	9	25	1.3	0.049
Camarones-QCC	F109	7905715	437961	Qd	< 5	0.1	13	< 2	17	< 2	40	1.1	< 0.01
Camarones-QCC	F110	7905651	438781	Qdb	< 5	0.3	30	63	35	4	188	5.2	< 0.01
Camarones-QCC	F112	7905511	439064	K	16	2.2	7129	28	110	178	122	7.4	< 0.01
Camarones-QCC	F113	7905511	439064	K	< 5	< 0.1	32	3	62	12	76	6.1	< 0.01
Camarones-QCC	F185	7905240	439389	K	< 5	0.2	11	58	140	3	54	2.7	0.036
Camarones-QCC	F186	7905377	439241	K	< 5	0.1	119	65	88	< 2	90	4.2	0.023
Camarones-QCC	F187	7905164	439337	K	< 5	0.3	123	51	47	< 2	107	2.6	< 0.01

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

Locality	Sample No.	Coordinates		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	60	5	78	4	17	0.7	<0.01
Camarones-QCE	H004	7906148	441553	K	41	0.8	21	6	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	39	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	7903183	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	7904762	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	446245	Gd	<5	<0.1	106	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	448596	Tc	<5	0.1	351	18	66	4	11	1.1	<0.01
Camarones-QCFE	G079	7906938	444663	Tp	<5	0.1	13	19	35	<2	16	<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	439881	Qd	7	0.5	17	17	12	3	7.2	<0.2	0.015

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
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	0.018
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	0.016
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	16	< 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	G156	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	0.6	11	24	7	< 2	24	3.1	0.016
Camarones-SM	G166	7898389	439457	Qd	< 5	< 0.1	109	46	65	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	7899298	438732	Qz vein	< 5	< 0.1	23	16	16	< 2	2.4	0.4	0.018
Camarones-MIDS	E148	7903131	438396	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	428741	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	7918798	426864	Qd	< 5	0.1	51	35	48	4	10	1	< 0.01
Camarones-NW	F215	7918876	426734	Qd	< 5	1	51	40	51	6	14	1.8	< 0.01
Camarones-NW	F217	7918832	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	428912	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	968	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	
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	0.600			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	444607	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			
7913896	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	0.625			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				
7899513	437727	9.0	2.0	0.222			4.5	2	0.444	
		8.4	3.5	0.417			4.5	1.5	0.333	
		8.0	1.2	0.150			3.5	2	0.571	
		8.6	1.8	0.209			4.5	2	0.444	
		4.6	1.6	0.348			4	2	0.500	
		17.0	4.0	0.235			6	3	0.500	
		6.0	1.0	0.167			Average	0.458		
		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					
		8.0	2.0	0.250					
		4.0	0.5	0.125					
		3.5	0.5	0.143					
			Average	0.180					
7910321	428395	5.0	2.5	0.500	7911109	423297	6.5	1	0.154
		4.0	1.0	0.250			6	2	0.333
		5.5	1.0	0.182			3.5	1	0.286
		3.5	1.0	0.286			3.7	1.3	0.351
		3.0	0.5	0.167			2.8	0.8	0.286
		7.0	2.0	0.286			8.5	2.3	0.271
		11.0	2.5	0.227			4.7	0.7	0.149
		5.0	2.0	0.400			7	2	0.286
		3.5	1.0	0.286				Average	0.264
		3.5	1.0	0.286					
7910407	428151	4.5	1.5	0.333	7909069	446351	8	2	0.333
		3.5	1.5	0.429			6.5	1	0.154
		3.0	2.0	0.667			6	2	0.333
		5.0	0.5	0.100			7	1	0.143
		6.0	0.5	0.083			7	1.5	0.214
		4.5	1.5	0.333			5	1.5	0.300
		6.5	1.0	0.154			7	1.5	0.214
		5.0	3.5	0.700			5	1	0.200
		5.0	1.0	0.200			5.5	1	0.182
		4.5	1.5	0.333			5	1	0.200
7910562	427604	6.0	2.0	0.333	7908903	444751	5	3.5	0.700
		6.0	1.5	0.250			3	2.5	0.833
		6.0	2.0	0.333			4	3.5	0.875
		6.0	1.5	0.250			3.5	2.5	0.714
		4.0	2.0	0.500			2.5	1.5	0.600
		7.0	3.5	0.500			4	2.5	0.625
		10.0	4.0	0.400			5	2.5	0.500
		7.0	4.0	0.571			5	2	0.400
		8.0	2.0	0.250			3	2	0.667
		4.5	1.5	0.333			7.5	2.5	0.333
7910770	426420	4.0	1.0	0.250	7987052	443636	5.5	2	0.364
		4.0	1.0	0.250			4.5	1	0.222
		4.0	1.5	0.375			5	2	0.400
		3.5	1.0	0.286			5	2.5	0.500
		4.0	1.0	0.250			8	2	0.250
		2.5	0.5	0.200			8	2.5	0.313
		2.0	0.5	0.250			15	2	0.133
		6.0	2.0	0.333			12	2	0.167
		2.5	1.0	0.400			8.5	1.5	0.176
		2.5	1.0	0.400			6.5	1	0.154
79108429	443102	11	3	0.273	7908429	443102	9	1.5	0.167
		9	1.5	0.167			6	2	0.333
		6	2	0.333			5	1	0.200
		5	1	0.200			8	1	0.125
		8	1	0.125			4.5	1	0.222
		2.5	1.0	0.400			12	2	0.167
		4.5	1	0.222			6	2	0.333
		12	2	0.167			10	2	0.200
		6	2	0.333			8	2.5	0.313
		10	2	0.200			9.5	2.5	0.263
Average	0.322	0.254	0.239	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	1.8
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			
8.5	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				
1.6	1	0.625	1.5	1	0.667				
Average		0.578	7916696	425014	4.5	2.5	0.556		
7896870	442349	9.0			3.0	0.333	6.5	3.5	0.538
		4.0			2.5	0.625	4	2.5	0.625
		2.0			1.5	0.750	4	2.5	0.625
		3.5			3.0	0.857	3	1.5	0.500
		4.0			2.5	0.625	3.5	2	0.571
		4.0			2.5	0.625	7	3	0.429
		3.5	2.0	0.571	2	1	0.500		
2.5	1.5	0.600	9	1	0.111				
2.5	1.5	0.600	4	1.5	0.375				
3.5	2.5	0.714	2	1	0.500				
Average		0.630	3.5	3	0.857				
Average		0.630	Average		0.516				
7897963	437582	5.0	1.5	0.300	7916696	425014	4.5	5	1.111
		14.0	3.5	0.250			6.5	2	0.308
		7.0	1.5	0.214			4	2	0.500
		10.0	3.5	0.350			4	1.5	0.375
		5.0	3.5	0.700			3	2.5	0.833
		10.0	3.0	0.300			3.5	8.5	2.429
		7.0	2.0	0.286			7	2.5	0.357
		6.0	2.0	0.333			2	3	1.500
		4.5	2.5	0.556			9	2	0.222
		6.5	3.0	0.482			4	2	0.500
		5.0	2.0	0.400			2	4	2.000
		5.0	1.5	0.300			3.5	1.5	0.429
		5.0	2.0	0.400			Average		0.880
6.5	1.5	0.231							
6.0	2.0	0.333							
Average		0.361							

AP-8 Flatness Ratio of Essential Fragments in Ignimbrite

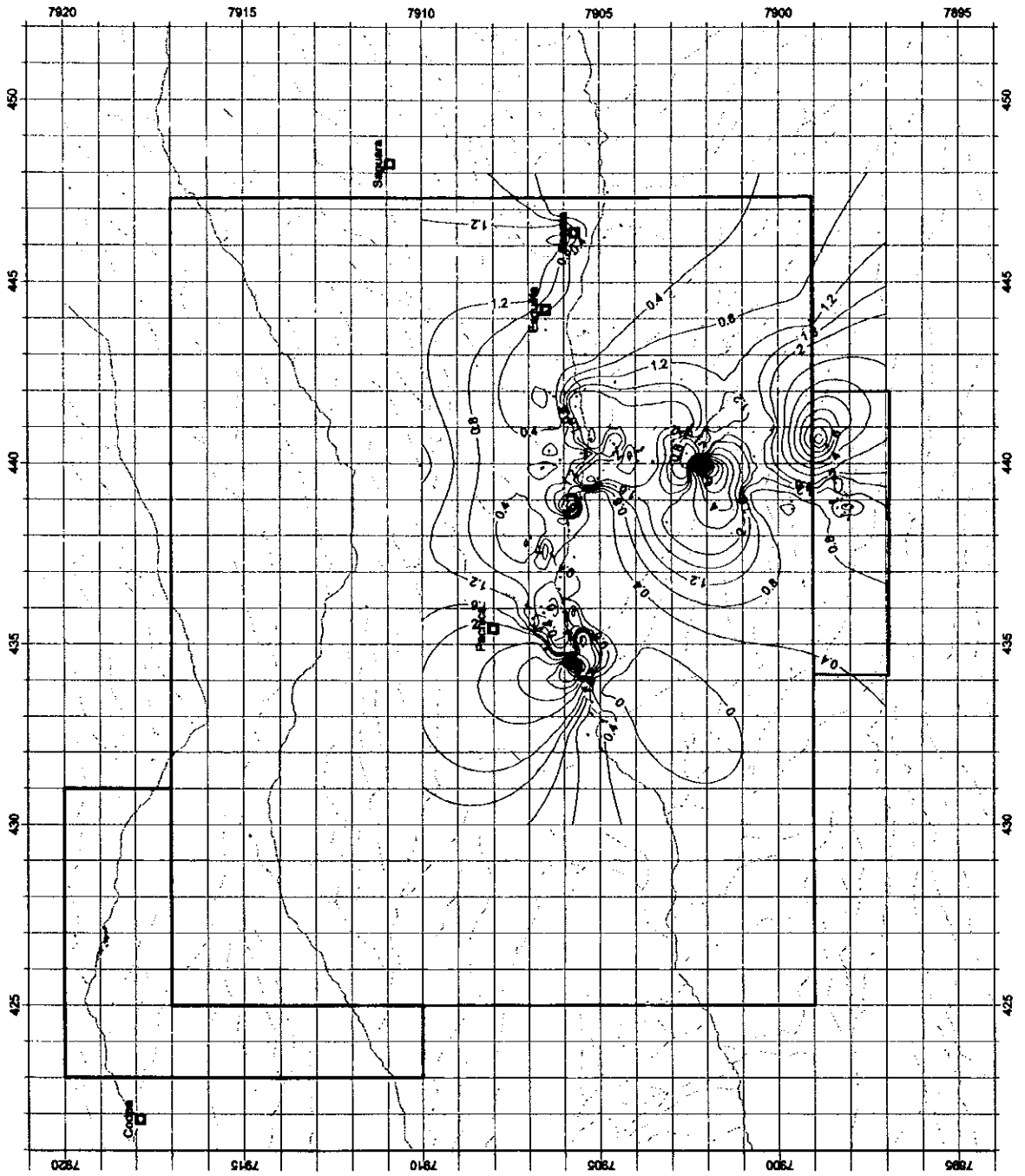
Northing	Easting	Length (cm)	Thickness (cm)	T/L	Northing	Easting	Length (cm)	Thickness (cm)	T/L	
7917340	424317	5.0	1.0	0.200	7919782	426210	4.5	0.5	0.111	
		3.5	1.0	0.286			4.5	2	0.444	
		6.5	2.0	0.308			2	0.5	0.250	
		4.5	2.0	0.444			2	0.3	0.150	
		5.0	2.0	0.400			3.5	1	0.286	
		3.0	1.5	0.500			5.5	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	
		Average		0.372			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		0.281	
		Average		0.233			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		0.295	
		Average		0.404			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	
		Average		0.131			0.174			
		7909683	432043	22.0			6.5	0.295	7918088	416776
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		0.272				
Average				0.250		0.272				
7917787	419908	6	1.2	0.200	7917787	419908	6	1.2	0.200	
		2.5	0.5	0.200			2.5	0.5	0.200	
		2.5	1	0.400			2.5	1	0.400	
		3	0.3	0.100			3	0.3	0.100	
		6	1	0.167			6	1	0.167	
		5.5	0.3	0.055			5.5	0.3	0.055	
		4	0.5	0.125			4	0.5	0.125	
		2.5	0.6	0.240			2.5	0.6	0.240	
		3	0.5	0.167			3	0.5	0.167	
		2.5	0.5	0.200			2.5	0.5	0.200	
		4.5	0.5	0.111			4.5	0.5	0.111	
		Average		0.179			Average		0.179	
		Average		0.179			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	0.288			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			7918058	425002	2.2	0.5	0.227			
		6.0	2.5	0.417					2	0.7	0.350			
2.5	0.8	0.320	3.6	0.9	0.250									
3.0	0.4	0.133	3.5	0.8	0.229									
4.8	1.8	0.375	3.7	1	0.270									
2.7	0.5	0.185	4.4	1.3	0.295									
3.2	0.5	0.156	2	0.7	0.350									
2.6	1.1	0.423	4.8	0.9	0.188									
2.2	0.8	0.364	5.6	1	0.179									
Average		0.405	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	7917959	424977	4.9	2	0.408					
		6.2	2.0	0.323			10.3	2	0.194					
		4.1	1.0	0.244			6.6	1.2	0.182					
		3.6	1.5	0.417			3.7	2	0.541					
		4.3	1.3	0.302			5	0.7	0.140					
3.5	1.0	0.286	4.7	0.8			0.170							
4.1	1.2	0.293	6.5	1.5			0.231							
5.6	1.0	0.179	4.7	0.7			0.149							
18.1	4.6	0.254	6	3.2			0.533							
Average		0.264	6.7	1.7			0.254							
												6.7	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	
7917986	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						
7912260	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

