

Table 1. XRD data for the greater than 2 μm and less than 2 μm fractions from locations within the current study. Samples from beds examined in thin-section during the study are in ***bold italic***. Data gathered using a Siemens D500 XRD. Key: Carb = carbonate, I/S = illite-smectite, I = illite, K = kaolinite, ND = none detected, TR = trace levels. Note no data collected from La Cristalina (e.g. LC224) or La Marina (e.g. M364), which is indicated by X. Locations arranged in approximate stratigraphic order.

Location	>2 μm						<2 μm				
	Clay	Sand	Feldspar	Carb	Pyrite	TiO ₂	I/S	I	K	Micro-quartz	Chlorite
PESCANA	23	60	7	ND	<5	TR	ND	27	59	14	ND
	68	17	<5	ND	ND	<5	13	28	54	5	ND
	38	52	<5	ND	TR	TR	ND	63	32	5	ND
	10	85	TR	ND	TR	TR	ND	34	34	32	ND
	27	68	ND	ND	ND	TR	ND	23	58	19	ND
	8	77	<5	TR	<5	TR	ND	18	18	64	ND
ZIPA	14	81	TR	ND	ND	TR	ND	60	<5	35	ND
	<5	90	ND	ND	ND	ND	ND	42	<5	53	ND
	39	56	ND	ND	TR	TR	ND	90	5	5	ND
	10	85	ND	ND	ND	TR	ND	82	<5	13	ND
	25	70	ND	ND	TR	TR	ND	68	12	20	ND
	11	84	ND	ND	TR	TR	ND	73	<5	22	ND
LA CRISTALINA	X	X	X	X	X	X	X	X	X	X	X
CRUCERO	62	33	TR	ND	ND	TR	15	20	45	20	ND
	63	27	TR	ND	TR	<5	22	13	59	6	ND
	77	18	TR	ND	TR	TR	18	23	50	9	ND
	35	55	ND	ND	TR	<5	25	50	20	<5	ND
	77	18	TR	ND	TR	TR	43	25	32	ND	ND
	74	21	TR	ND	TR	TR	8	47	40	<5	ND
PEDREGAL	65	20	TR	ND	<5	<5	ND	63	37	ND	ND
	38	42	<5	ND	5	<5	5	65	25	<5	ND
	46	39	TR	<5	TR	<5	ND	45	49	6	ND
	25	65	ND	ND	ND	<5	ND	50	40	10	ND
	63	22	TR	ND	<5	<5	ND	65	35	ND	ND
	38	47	TR	ND	<5	<5	ND	66	34	ND	ND
LA MARINA	X	X	X	X	X	X	X	X	X	X	X
QUEMADO	46	44	TR	ND	5	ND	ND	82	4.5	5	8
	50	40	<5	ND	TR	ND	ND	94	ND	6	ND
	60	25	<5	ND	<5	ND	ND	70	9	9	12
	52	33	<5	ND	<5	ND	ND	80	<5	10	<5
	38	52	<5	ND	ND	ND	ND	100	ND	ND	ND
ALGODONES	57	33	<5	ND	ND	ND	ND	95	ND	<5	ND
	50	40	<5	ND	TR	ND	ND	95	ND	<5	ND
	65	20	<5	ND	<5	ND	ND	90	<5	<5	ND
	86	9	TR	ND	ND	ND	ND	59	25	ND	16
	55	40	TR	ND	ND	ND	ND	76	15	ND	9
	67	23	<5	ND	ND	ND	ND	95	ND	<5	ND