

Appendix 2. Paleocurrent data.

Note: See Figures 4-5 and Appendix 1 clast count sites within stratigraphic sections.

Figure 3 shows locations of clast count sites away from stratigraphic sections.

M-2 Main Street stratigraphic section, Rincon Valley eastern petrofacies

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S17E		17			163
S19E		19			161
S30E		30			150
S30E		30			150
S20W			20		200
S36W			36		216
S49W			49		229
S46W			46		226
S42W			42		222
S21W			21		201
S16W			16		196
S5W			5		185
S32W(2)			32		212
			32		212
S67W(2)			67		247
			67		247
S5W			5		185
S18W			18		198
S9W			9		189
S13E		13			167
S8E		8			172
S0E(2)		0			180
		0			180
S72E(2)		72			108
		72			108
S31W			31		211
S58W			58		238
S61E		61			119
S46W			46		226
S85W			85		265
S11E		11			169
S58W			58		238
AVERAGE:					193
MEDIAN:					197
COUNT:					32

M-10 Main Street stratigraphic section, Rincon Valley eastern petrofacies

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S37W			37		217
S50W			50		230
S25W			25		205
S55W			55		235
S60W(2)			60		240

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
			60		240
S40W			40		220
S22W(2)			22		202
			22		202
S34W			34		214
S31W			31		211
S8W(2)			8		188
			8		188
S38W			38		218
S13W			13		193
S20E		20			160
AVERAGE:					210
MEDIAN:					213
COUNT:					16

M-15 Main Street stratigraphic section, LCU petrofacies 1

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S15W			15		195
S45W(2)			45		225
			45		225
S53E		53			127
S35W			35		215
S79W			79		259
S53W(2)			53		233
			53		233
S33W			33		213
S25W			25		205
S57W			57		237
S1E		1			179
S37W(3)			37		217
			37		217
			37		217
S43W(2)			43		223
			43		223
S10E(2)		10			170
		10			170
S55W(2)			55		235
			55		235
S50W			50		230
S35W			35		215
S76W			76		256
S19W			19		199
S90W(3)			90		270
			90		270
			90		270
S81W(2)			81		261
			81		261
S33W			33		213
S44W			44		224

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S25W			25		205
S45W(3)			45		225
			45		225
			45		225
S30W(2)			30		210
			30		210
S15W(2)			15		195
			15		195
S0W			0		180
S13E		13			167
AVERAGE:					218
MEDIAN:					220
COUNT:					42

**WS-490 From 58 m NE of Main St strat section. Correlates to ~same strat interval as M-2.
Rincon Valley eastern petrofacies.**

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S7E		7			173
S8E		8			172
S25E		25			155
S42E		42			138
S48E		48			132
S46E		46			134
S11W			11		191
S37E		37			143
S47W			47		227
S41W			41		221
S64W			64		244
S6W			6		186
S33E		33			147
S42E		42			138
N76E					Anomalous
S44E		44			136
S39E		39			141
S38E		38			142
S52E		52			128
S56E		56			124
S39E		39			141
S74E		74			106
S37E(3)		37			143
		37			143
		37			143
S57E(2)		57			123
		57			123
AVERAGE:					154
MEDIAN:					143
COUNT:					26

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	

B-2 Broadway Street stratigraphic section, eastern Rincon Valley petrofacies.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	

West part of exp					
S6W(2)			6		186
			6		186
S25W			25		205
			25		205
S27W			27		207
N53E(2)	53				53
	53				53
S30W			30		210
N87W				87	273
S21W			21		201
S27W			27		207
S18W			18		198
S18W			18		198
S45E		45			135
S16E		16			164
N43E	43				43
N39E	39				39
N44W					316
E part of exposure					
N79W				79	281
N44W				44	316
S87W			87		267
S19E		19			199
S60E		60			240
S50E		50			230
S53E		53			233
S60E		60			240
AVERAGE:					196
MEDIAN:					205
COUNT:					26

B-6w Broadway Street stratigraphic section. Basal petrofacies 1.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	

N11E	11				11
S29E		29			151
N28E(2)	28				28
	28				28
N28E	28				28
N26E	26				26
S76E		76			104
S87E(4)		87			93
		87			93
		87			93
		87			93

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N77E	77				77
N23E	23				23
N24E(2)	24				24
	24				24
N1E	1				1
N31E	31				31
N53E(3)	53				53
	53				53
	53				53
N1E(2)	1				1
	1				1
N19E	19				19
N10E(2)	10				10
	10				10
N75E	75				75
S60E(2)		60			120
		60			120
S90E		90			90
N20E	20				20
N84E(2)	84				84
	84				84
N85E(2)	85				85
	85				85
S3E		3			177
AVERAGE:					59
MEDIAN:					53
COUNT:					35

**B-6e' Broadway Street stratigraphic section. Basal petrofacies 1.
Located 7 m east of B-6w.**

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S2E(3)		2			178
		2			178
		2			178
S17E		17			163
S32E(2)		32			148
		32			148
S25E		25			155
S15E(3)		15			165
		15			165
		15			165
S22E		22			158
S39E		39			141
S16E		16			164
S45E(2)		45			135
		45			135
S18W(2)			18		198
			18		198
S2W			2		182

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S88E		88			92
S37E		37			143
S11W(2)			11		191
			11		191
S26E		26			154
S6W(2)			6		186
			6		186
S15W(2)			15		195
			15		195
S22W			22		202
S8E		8			172
S29E		29			151
S17E(2)		17			163
		17			163
S8W(2)			8		188
			8		188
S49E(2)		49			131
		49			131
S27E(2)		27			153
		27			153
AVERAGE:					165
MEDIAN:					165
COUNT:					38

**B-6e Broadway Street stratigraphic section.
Petrofacies 2 interbed within petrofacies 1.**

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S27E(2)		27			153
		27			153
S32E		32			148
S38E		38			142
S38E		38			142
S61E		61			119
S75E		75			105
N10E	10				10
N14E	14				14
N7E	7				7
N63E(2)	63				63
	63				63
N36E	36				36
N58E	58				58
S35E		35			145
S5E(2)		5			175
		5			175
S82E		82			98
S70E		70			110
S46E		46			134
S85E(2)		85			95
		85			95

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N86E(2)	86				86
	86				86
S29E		29			151
S22E		22			158
S9E		9			171
N55E(2)	55				55
	55				55
AVERAGE:					104
MEDIAN:					105
COUNT:					29

NP-1a North Poplar Stratigraphic section, middle of petrofacies 2.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S68E		68			112
S66E		66			114
S64E		64			116
N88E	88				88
S40E(3)		40			140
		40			140
		40			140
N14W				14	346
N6E	6				6
N83E	83				83
S6E		6			174
S23E		23			157
N77E	77				77
N18E	18				18
S60E		60			120
S33E		33			147
S44E		44			136
S9E		9			171
S60E		60			120
S28E		28			152
S37E		37			143
S19E		19			161
S70E(2)		70			110
		70			110
N40W				40	320
N30E	30				30
N6E	6				6
S60W			60		Anomalous
N40E	40				40
N50E	50				50
S3E(2)		3			177
		3			177
S19W			19		199
N27E	27				27
S8E		8			172
S17W			17		197

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N15W				15	345
N30E	30				30
N12E	12				12
N22E	22				22
N83E	83				83
S24W			24		204
AVERAGE:					126
MEDIAN:					120
COUNT:					41

NP-1b North Poplar stratigraphic section, top of petrofacies 2.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S22W			22		202
S32E		32			148
S30E		30			150
S52E		52			128
S31E		31			149
S12E		12			168
S0E		0			180
S47E		47			133
S8E		8			172
N87E	87				87
S12E(2)		12			168
		12			168
S0E		0			180
S0E		0			180
S30W			30		210
S73W			73		253
S59W			59		239
S61W			61		241
S20W(2)			20		200
			20		200
S7E		7			172
S56W			56		236
S14W			14		194
S12W			12		192
S1E		1			179
S13W			13		193
S15E(4)		15			165
		15			165
		15			165
		15			165
S7W(2)			7		187
			7		187
AVERAGE:					180
MEDIAN:					180
COUNT:					32

NP-3 North Poplar stratigraphic section, middle of petrofacies 3.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N48E	48				48
N12E	12				12
N10E(2)	10				10
	10				10
N44E(2)	44				44
	44				44
N12E	12				12
N63E	63				63
N7E	7				7
N40E(2)	40				40
	40				40
N47E(2)	47				47
	47				47
S62E		62			Anomalous
N58E(2)	58				58
	58				58
N39E	39				39
N68E	68				68
N26E	26				26
N9W				9	351
N85E	85				85
N41E	41				41
N57E	57				57
N57E(3)	57				57
	57				57
	57				57
N60E	60				60
N77E	77				77
N51E	51				51
N22W				22	338
N52E(2)	52				52
	52				52
N9E	9				9
N68E(2)	68				68
	68				68
N73E(2)	73				73
	73				73
N61E	61				61
N65E	65				65
N52E	52				52
N65E	65				65
N44E	44				44
					AVERAGE: 63
					MEDIAN: 52
					COUNT: 41

WS-506 Entry gate to Bar-2 gravel and sand pit, petrofacies 3 in inferred paleovalley.

Field	Quadrant components
-------	---------------------

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
Reading	NE	SE	SW	NW	Azimuth
S59W			59		239
S60W			60		240
S17W			17		197
S39W			39		219
S28W			28		208
S79W			79		259
S43W			43		223
S28W			28		208
S61E		61			119
S61W			61		241
S42W			42		222
S60W			60		240
S20W			20		200
S37W			37		217
S3E		3			177
S35W			35		215
S26W			26		206
S23E(2)		23			157
		23			157
S20W			20		200
S10E(2)		10			170
		10			170
S11W			11		191
S17W			17		197
S59W			59		239
S11E(2)		11			169
		11			169
S17W			17		197
S4W			4		184
S13W			13		193
S43E(2)		43			137
		43			137
S19W			19		199
S26W			26		206
S23W(2)			23		203
			23		203
S10W(2)			10		190
			10		190
S44W			44		224
S45W			45		225
N84W(2)				84	276
				84	276
S13W			13		193
S35W			35		215
S52W(3)			52		232
			52		232
			52		232
S43W(2)			43		223
			43		223

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
2- cm from top					
S59W			59		239
S57W(2)			57		237
			57		237
S45W(2)			45		225
			45		225
S28W			28		208
S50W			50		230
S63W(4)			63		243
			63		243
			63		243
S53W(3)			53		233
			53		233
			53		233
S47W(2)			47		227
			47		227
S52W(2)			52		232
			52		232
S59W(2)			59		239
			59		239
S48W			48		228
S66W(2)			66		246
			66		246
S50W			50		230
AVGERAGE					214
MEDIAN:					223
COUNT:					73

WS-507 West side of dugout, petrofacies 3 in inferred paleovalley.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S83W(2)			83		263
			83		263
S45W			45		225
S70W			70		250
S47W			47		227
S16W			16		196
S52W(2)			52		232
			52		232
S58W(2)			58		238
			58		238
S47W			47		227
S49W(2)			49		229
			49		229
S47W			47		227
S15W			15		195
S36W			36		216
S65W			65		245
S46W			46		226

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S25W			25		205
S10W(2)			10		190
			10		190
S13W(2)			13		193
			13		193
S61W			61		241
S35E(2)		35			145
		35			145
S23E(2)		23			157
		23			157
AVERAGE:					213
MEDIAN:					227
COUNT:					28

Channel fill margin: 57
Clast imbrication in that channel fill:

S60W(2)			60		240
S22E		22			158
S21W			21		201
S10W(2)			10		190
			10		190
S5W			5		185
S0W(2)			0		180
			0		180
S2W			2		182
S10E		10			170
S7E		7			173
S25E		25			155
S30W			30		210
N80W(2)				80	280
				80	280
S29E		29			151
AVERAGE:					195
MEDIAN:					184
COUNT:					16

TRC-7 Mescal-Ash Canyon paleo-fan, lower coarse unit of Palomas Fm

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N5W(2)				5	355
				5	355
N5W(2)				5	355
				5	355
NIE(2)	1				361
	1				361
N38W				38	322
N38W				38	322
N37W				37	323
N6W(2)				6	354

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
				6	354
N4W				4	356
N14W				14	346
N47W				47	313
N41W(2)				41	319
				41	319
N10W				10	350
N10W(2)				10	350
				10	350
N3E(2)	3				363
	3				363
N17E(2)	17				377
	17				377
N33W				33	327
N28W				28	332
N22E	22				382
N11W				11	349
N12W				12	348
N32W(2)				32	328
				32	328
N8W				8	352
N1W				1	359
N15W				15	345
N64W				64	296
N24E	24				384
N2W				2	358
N18E	18				378
N15E	15				375
love up 2-3 ft					
N30W				30	330
N21W				21	339
N5W(2)				5	355
				5	355
N36W				36	324
N75W				75	285
N78W				78	282
N50W				50	310
N6W				6	354
N0W				0	360
N80W				80	280
N61W				61	299
N78W				78	282
N45W				45	315
N13W(2)				13	347
				13	347
N28W				28	332
N26W(2)				26	334
				26	334
N33W				33	327
N19W				19	341

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N53W				53	307
N48W				48	312
N55W(3)				55	305
				55	305
				55	305
N53W				53	307
N19W				19	341
N19W				19	341
N21W				21	339
N30W(2)				30	330
				30	330
N24W(2)				24	336
				24	336
N18W(2)				18	342
				18	342
N20W(2)				20	340
				20	340
N16W				16	344
N29W				29	331
N10W				10	350
N32W				32	328
N8E	8				368
N30W				30	330
N27W(2)				27	333
				27	333
N23W				23	337
N15W				15	345
N21W				21	339
N3W				3	357
N25W				25	335
N35W(2)				35	325
				35	325
N24W(2)				24	336
				24	336
N23W				23	337
N3W				3	357
N15E(2)	15				375
	15				375
N19W(2)				19	341
				19	341
N2W(2)				2	358
				2	358
N16E	16				376
N1W				1	359
N10W				10	350
AVERAGE:					340
MEDIAN:					341
COUNT:					89

TRC-26a Petrofacies 2 by cryptomelane sample FZ-2.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N27W(2)				27	333
				27	333
S12W			12		192
S4E		4			176
S9W			9		189
S15E		15			165
S16W			16		196
S62E		62			118
N56E(2)	56				416
	56				416
S52E		52			128
N8W				8	352
N12E	12				372
N45E(2)	45				405
	45				405
N9W				9	351
N25W				25	335
N2W				2	358
N31W				31	329
N48E	48				408
N6E(2)	6				366
	6				366
N5W				5	355
N24E	24				384
N18W				18	342
N15W				15	345
N48W				48	312
N12W				12	348
N28W				28	332
N18W				18	342
N60E	60				420
N5E	5				365
N6W				6	354
N12E	12				372
N24E	24				384
N14E(2)	14				374
	14				374
N29E(2)	29				389
	29				389
N11W				11	349
N24W				24	336
N1E	1				361
N31E	31				391
N3E	3				363
N20W				20	340
N45E	45				405
N41E	41				401
N69W				69	291

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
Next bed up; it is 1 m below upper contact					360
N36W(2)				36	324
				36	324
N43W				43	317
N33W				33	327
N27E	27				387
N11W				11	349
N6E	6				366
N23W(3)				23	337
				23	337
				23	337
N2W				2	358
N11E	11				371
N25W(3)				25	335
				25	335
				25	335
N18W				18	342
N25W				25	335
N23W				23	337
N13E	13				373
N8W				8	352
AVERAGE:					339
MEDIAN:					349
COUNT:					69

TRC-32 Western-derived pebble conglomerates in upper axial-fluvial facies.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S39E		39			141
S27E		27			153
S38E		38			142
S12E		12			168
S2E		2			178
S48E		48			132
S42E		42			138
S63E		63			117
S30E(2)		30			150
		30			150
S26E		26			154
S49E		49			131
S48E		48			132
AVERAGE:					308
MEDIAN:					342
COUNT:					65

TRC-38 Gravel bed along east-west road, petrofacies 3.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
S68W(2)			68		248
			68		248

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
N88E	88				88
S75E		75			105
N48W				48	312
N45W				45	315
S55E(2)		55			125
		55			125
S71E		71			109
S76E		76			104
S45E		45			135
S66E		66			114
S30E(2)		30			150
		30			150
S53E		53			127
S1E		1			179
N82E	82				82
S82E		82			98
N78E	78				78
S32W			32		212
N37E	37				37
S57E(3)		57			123
		57			123
		57			123
S79E		79			101
S31E		31			149
N68E	68				68
N81E	81				81
S54E		54			126
S33E		33			147
S51E		51			129
S9W			9		189
N61E	61				61
N90E	90				90
S0E		0			180
S27E		27			153 1 Pedernal chert clast sampled.
S36E		36			144
S13W(2)			13		193
			13		193
S25W			25		205
S7E		7			187
S34W			34		214
S2W			2		182
N76W(2)				76	284 1 PETRIFIED WOOD
				76	284
N78W				78	282
AVERAGE:					155
MEDIAN:					140
COUNT:					46

TRC-26b Cobble gravel near cryptomelane FZ-2 sample, petrofacies 3.

Field	Quadrant components
-------	---------------------

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
Reading	NE	SE	SW	NW	Azimuth

310
310
299
281
281
274
330
330
274
304
304
292
271
294
294
312
309
270
291
272
272
220
287
221
221
266
291
314
296
296
296
206
239
239
307
329
304
304
306
291
215
236
236
241
241
302
185
190
190

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					214
					214
					194
					184
					205
					205
					279
					279
					279
					247
					272
					272
					272
					306
					320
					260
					251
					251
					210
					244
					244
					241
					241
AVERAGE:					266
MEDIAN:					272
COUNT:					72

SP-9 South Poplar Street stratigraphic section, petrofacies 2.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					134
					109
					120
					114
					159
					159
					153
					153
					205
					174
					250
					250
					250
					200
					135
					120
					126
					191
					191
					321

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					271
					271
					271
					144
					105
					131
					141
					141
					143
					139
					200
					151
					153
					150
					149
					149
					146
					184
					184
					269
					260
					101
					171
					171
					137
					184
					191
					191
					350
					146
					295
					126
					113
					190
					197
AVERAGE:					179
MEDIAN:					159
COUNT:					55

SP-6 South Poplar Street stratigraphic section, petrofacies 1.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					279
					279
					332
					332
					166
					189
					189
					201

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					165
					174
					186
					170
					199
					199
					206
					206
					228
					184
					359
					324
					200
					188
					183
					191
					331
					121
					121
					121
					326
					136
					164
					164
					164
					187
					295
					284
					172
					320
					286
					276
					144
					176
					166
					126
					268
					268
AVERAGE:					216
MEDIAN:					190
COUNT:					46

SP-1 South Poplar Street stratigraphic section, Rincon Valley eastern petrofacies.

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					133
					210
					119
					119
					209

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
					225
					300
					300
					355
					156
					156
					201
					206
					210
					234
					234
					208
					151
					359
					359
					300
					158
					176
					197
					176
					174
					310
					310
					297
					275
					201
					0
					211
					191
					191
					218
					218
					224
					229
					207
					166
					198
					194
					291
					294
					186
					286
					280
					210
					237
					130
					164
					210
					170
					170

Field Reading	Quadrant components				Azimuth
	NE	SE	SW	NW	
AVERAGE:					216
MEDIAN:					209
COUNT:					55
