

## **APPENDIX A**

### **Point Counting Data**

Sample #	Matrix - Kaolinite	Matrix - Hematite	Monocrystalline	Polycrystalline	Mica	Hematite	Zircon	Plagioclase	K -spar	Clay rip-
SJH 07-01a	21%	17%	Quartz	Quartz	14%	9%	0%	0%	0%	ups
SJH 04-01	51%	0%	27%	4%	0%	1%	0%	0%	0%	8%
SJH 01-02	51%	0%	43%	4%	0%	0%	0%	0%	0%	0%
<b>Compositional Analysis of Specimens Representative of Horizon A, Paleosol #1, Silverado Formation, San Joaquin Hills, California</b>										
SJH 01-03b	51%	8%	38%	2%	0%	1%	0%	0%	0%	0%
SJH 01-12c	1%	58%	38%	4%	0%	0%	0%	0%	0%	0%
SJH 01-12d	18%	33%	47%	0%	0%	1%	0%	0%	0%	0%
SJH 01-14	16%	26%	51%	5%	0%	3%	0%	0%	0%	0%
<b>Compositional Analysis of Specimens Representative of Horizon B, Paleosol #1, Silverado Formation, San Joaquin Hills, California</b>										
SJH 01-04a	46%	4%	44%	3%	0%	7%	0%	0%	0%	0%
SJH 01-04b	8%	25%	67%	0%	0%	0%	0%	0%	0%	0%
<b>Compositional Analysis of Specimens Representative of Horizon C, Paleosol #1, Silverado Formation, San Joaquin Hills, California</b>										
SJH 01-06	26%	32%	34%	3%	0%	5%	0%	0%	0%	0%
<b>Compositional Analysis of Specimens Representative of Horizons A-C, Paleosol #1, Silverado Formation, San Joaquin Hills, California</b>										
SJH 01-07	36%	0%	44%	18%	0%	0%	1%	0%	0%	0%

: Compositional Analysis of Specimens Representative of Horizons A-C, Paleosol #1, Silverado

Silverado Formation, San Joaquin Hills, California

Sample #	Matrix - Kaolinite	Matrix - Hematite	Monocrystalline	Polycrystalline	Mica	Hematite	Zircon	Plagioclase	K-spar	Clay rip-
SJH 01-09			Quartz	Quartz						ups
<b>Compositional Analysis of Specimens Representative of Horizon D, Upper Kaolinite, Paleosol #1</b>										
SJH 004-02	43%	0%	37%	28%	0%	0%	0%	0%	0%	0%
SJH 06-01a	25%	0%	31%	28%	1%	0%	0%	0%	0%	15%
SJH 06-03	33%	21%	35%	5%	0%	5%	1%	0%	0%	0%
SJH 07-04a	43%	0%	52%	3%	0%	1%	1%	0%	0%	0%
SJH 07-08a	48%	0%	49%	3%	0%	0%	0%	0%	0%	0%
SJH 09-01	14%	0%	18%	37%	3%	0%	0%	0%	21%	7%
SJH 09-02	52%	0%	42%	4%	0%	1%	1%	0%	0%	0%
SJH 09-03	4%	56%	25%	12%	0%	2%	0%	0%	0%	0%
	1%	50%	28%	11%	0%	1%	1%	0%	0%	7%
	3%	10%	48%	38%	0%	0%	1%	0%	0%	0%

  

Sample #	Matrix - Kaolinite	Matrix - Hematite	Monocrystalline	Polycrystalline	Mica	Hematite	Zircon	Plagioclase	K-spar	Matrix - Kaolinite
SJH 14-01			Quartz	Quartz						
SJH 14-03a	18%	0%	25%	18%	1%	1%	0%	3%	35%	0%
<b>Compositional Analysis of Specimens Representative of Horizon D, Saprolite, Paleosol #1</b>										
SJH 14-06	15%	8%	28%	22%	2%	1%	0%	0%	20%	5%
SJH 14-07	22%	3%	26%	18%	8%	1%	0%	0%	21%	1%
SJH 14-08a	19%	0%	29%	19%	3%	0%	0%	1%	28%	0%
SJH 14-09	13%	7%	30%	19%	3%	0%	0%	2%	25%	0%
	29%	0%	22%	23%	1%	1%	0%	1%	16%	8%
	21%	2%	26%	16%	4%	0%	0%	0%	31%	0%

**Table A-2**

Paleosol #1, Silverado Formation, San Joaquin Hills, California

: Compositional Analysis of Specimens Representative of Horizon D, Upper Kaolinite and Saprolite,

Sample #	Matrix - Kaolinite	Matrix - Hematite	Monocrystalline	Polycrystalline	Mica	Hematite	Zircon	Plagioclase	K-spar	Clay rip-
SJH 01-10			Quartz	Quartz	0%	0%	0%	0%	0%	ups
SJH 01-11	9%	0%	50%	32%	0%	0%	0%	0%	13%	9%
SJH 09-04a	1%	0%	53%	34%	0%	0%	1%	0%	6%	0%
<b>Compositional Analysis of Specimens Representative of Quartz Arenite, Paleosol #1</b>										
	0%	6%	46%	39%	0%	0%	0%	0%	9%	0%

**Table A-3**  
Formation, San Joaquin Hills, California

: Compositional Analysis of Specimens Representative of Quartz Arenite, Paleosol #1, Silverado