

Supplemental Table 1. Summary of Petrographic Analysis Results: Qualitative Data.

Sample ID	Paste Birefringence	Mineralogy	Petrographic Group
TAP 05-1	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, hornblende	Ungrouped
TAP 05-2	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP2
TAP 05-3	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	HP1
TAP 05-4	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP1
TAP 05-5	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP1
TAP 05-6	Low	Quartz, plagioclase, biotite, opaques, hornblende (trace)	HP2
TAP 05-7	High	Quartz, K-spar, plagioclase, biotite, hornblende	HP1
TAP 05-8	Intermediate	Quartz, plagioclase, biotite, muscovite, opaques, hornblende	Ungrouped
TAP 05-9	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	HP2
TAP 05-10	Low-Intermediate	Quartz, plagioclase (trace), biotite, muscovite, opaques, hornblende	HP2
TAP 05-11	Intermediate	Quartz, K-spar, plagioclase, biotite (trace), opaques, epidote group (trace), hornblende	LP1
TAP 05-12	Low	Quartz, K-spar, plagioclase, biotite, opaques, hornblende	LP1
TAP 05-13	Low-Intermediate	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, hornblende	LP1
TAP 05-14	Low-Intermediate	Quartz, K-spar, plagioclase, opaques, epidote group (trace), hornblende	LP1
TAP 05-15	Low	Quartz, plagioclase, biotite, opaques	HP2
TAP 05-16	Intermediate	Quartz, plagioclase, biotite, opaques, epidote group (trace), hornblende	HP2
TAP 05-17	Intermediate	Quartz, plagioclase, biotite, opaques, hornblende	LP1
TAP 05-18	Intermediate	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, hornblende	HP1
TAP 05-19	High	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, epidote group (trace), hornblende	LP2
TAP 05-20	Low	Quartz, K-spar, plagioclase, biotite, opaques, hornblende (trace)	LP1
TAP 05-21	Intermediate-High	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, hornblende	LP1
TAP 05-22	Intermediate-High	Quartz, plagioclase, biotite (trace), muscovite, opaques, epidote group (trace), hornblende (trace)	LP1
TAP 05-23	Intermediate	Quartz, plagioclase, biotite, muscovite, opaques, hornblende	LP1
TAP 05-24	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP1
TAP 05-25	Low-Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP1
TAP 05-26	Intermediate	Quartz, plagioclase, biotite, epidote group (trace), hornblende	HP2

Supplemental Table 1 (cont.). Summary of Petrographic Analysis Results: Qualitative Data.

Sample ID	Paste Birefringence	Mineralogy	Petrographic Group
TAP 05-27	High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP1
TAP 05-28	Intermediate	Quartz, biotite, epidote group (trace), hornblende	LP1
TAP 05-29	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP2
TAP 05-30	Intermediate	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, epidote group (trace), hornblende	LP1
TAP 05-31	Low-Intermediate	Quartz, plagioclase, biotite, muscovite, opaques, epidote group (trace), hornblende	LP1
TAP 05-32	Low	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, epidote group (trace), hornblende	HP2
TAP 05-33	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LP2
TAP 05-34	Low	Quartz, K-spar, plagioclase, epidote group (trace), hornblende (trace)	LFJ
TAP 05-35	Inter-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LC1
TAP 05-36	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	Ungrouped
TAP 05-37	Low-Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, hornblende	Ungrouped
TAP 05-38	Intermediate-High	Quartz, K-spar, plagioclase, opaques, epidote group (trace), hornblende (trace)	LC1
TAP 05-39	Intermediate	Quartz, plagioclase, opaques, hornblende	LC1
TAP 05-40	Low-Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	Ungrouped
TAP 05-41	Low-Intermediate	Quartz, K-spar, plagioclase, epidote group (trace), hornblende	LFJ
TAP 05-42	Low-Intermediate	Quartz, K-spar, plagioclase, biotite, muscovite, opaques, epidote group (trace), hornblende	HFJ
TAP 05-43	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	Ungrouped
TAP 05-44	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	Ungrouped
TAP 05-45	Low	Quartz, plagioclase, biotite, opaques, hornblende	Ungrouped
TAP 05-46	Low	Quartz, plagioclase, biotite, opaques, epidote group (trace), hornblende	HFJ
TAP 05-47	Low	Quartz, plagioclase, biotite, opaques, hornblende	LFJ
TAP 05-48	Low-Intermediate	Quartz, K-spar, plagioclase, opaques, epidote group (trace), hornblende	LC1
TAP 05-49	Low	Quartz, K-spar, plagioclase, biotite, muscovite, epidote group (trace), hornblende	LFJ
TAP 05-50	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LC1
TAP 05-51	Low-Intermediate	Quartz, K-spar, plagioclase, biotite (trace), opaques, epidote group (trace), hornblende	LFJ
TAP 05-52	Low	Quartz, K-spar, plagioclase, biotite (trace), epidote group (trace), hornblende	LFJ
TAP 05-53	Intermediate	Quartz, plagioclase, biotite, opaques, epidote group (trace), hornblende	HFJ

Supplemental Table 1 (cont.). Summary of Petrographic Analysis Results: Qualitative Data.

Sample ID	Paste Birefringence	Mineralogy	Petrographic Group
TAP 05-54	Intermediate-High	Quartz, plagioclase, biotite, muscovite, opaques, epidote group (trace), hornblende	LC2
TAP 05-55	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LC2
TAP 05-56	Intermediate-High	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	LC2
TAP 05-57	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	HC1
TAP 05-58	Intermediate	Quartz, plagioclase, biotite, opaques, epidote group (trace), hornblende	HFJ
TAP 05-59	Intermediate	Quartz, plagioclase, biotite, opaques, epidote group (trace), hornblende	LC2
TAP 05-60	Low	Quartz, plagioclase, biotite, opaques, epidote group (trace), hornblende	Ungrouped
TAP 05-61	Intermediate	Quartz, K-spar, plagioclase, biotite (trace), opaques, hornblende (trace)	LFJ
TAP 05-62	Intermediate	Quartz, plagioclase, biotite, muscovite, epidote group (trace), hornblende	HC2
TAP 05-63	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, hornblende	LC2
TAP 05-64	Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, epidote group (trace), hornblende	Ungrouped
TAP 05-65	Low-Intermediate	Quartz, K-spar, plagioclase, biotite, opaques, hornblende	LC2
TAP 05-66	High	Quartz, plagioclase, biotite, muscovite, chert, opaques, hornblende (trace)	LC1