

Basic Data for Samples Collected from Fraesfield and Paraiso Quartz Vein Sites.

Sample ID	Thin Section ID	Sample Site	Date Collected	Collected by	Latitude	Longitude	Sample Description	Sample orientation	Orientation Type	Ultraviolet Lamp Results	Scintillometer results	Sampled for	Notes
050614-S1, JM-14	F1	Fraesfield	5/18/2014	BFG	33.74928	-111.80299	milky quartz: light gray and white, massive, fractured milky quartz. Moderate heaviness. Fractures nearly orthogonal.	230, 42 NW	Strike-dip	med. Violet throughout	none	ts-90um	Flinc analysis by Jim Reynolds.
050614-S2, JM-15	F2 (perp), F3 (parallel)	Fraesfield	5/16/2014	BFG	33.7492	-111.80306	mylonite with quartz veins: light grey and white with dark-colored specs. Pred. quartz composition and texture, with 10 to 30% muscovite mica (est.), <5% black specs. Foliated texture with broken quartz veins 3-5 mm thick. Sense of shear apparently N20-30E, dextral.	171, 28 SW	Strike-dip	violet quartz veins, dark purple perpendicular to foliation; otherwise sample has weathered coating	none	2 ts (parallel and perpendicular)	
050614-S3, JM 16	F4	Fraesfield	5/19/2014	BFG	33.74944	-111.80317	banded brown quartz-bearing rock: light red-brown, banded, mica-bearing quartzite, foliated, bands light green to pink, weathering green to red. Green bands have ~20-30% mica with sub-mm banding. Red bands have mafic minerals(?) that may show more oxidation, banding not as apparent.	175, 31 SW	Strike-dip	dark purple perpendicular to foliation plane.	none	ts	
050614-S4, JM-17	F5	Fraesfield	5/17/2014	BFG	33.74946	-111.80444	coarse quartzite or granite?	032, 64 SE	Strike-dip	dull dark purple. Sample has weathered coating.	none	ts	
050614-S5, JM-18	F6	Fraesfield	5/16/2014	BFG	33.74931	-111.80246	Quartzite with quartz vein (1cm). Light gray to brown-gray-white, coarse-grained (?), quartz with <15% mica and mafic grains <1mm. Mafic specs oxidized and unoxidized. No apparent foliation. Quartz vein has irregular but sharp boundary with host rock.	129, 22 SW	Strike-dip	dark purple to non UV in host, violet quartz vein	none	ts	
F7a	F7a (perp.)	Fraesfield	12/18/2014	BFG/DG	33.74817	-111.80416	Cut perpendicular to foliation.					ts	
F7b	F7b (parallel)	Fraesfield	12/18/2014	BFG/DG	33.74817	-111.80416	Cut parallel to foliation. Foliated schist/mylonite (granite?) with strike and dip of foliation 355, 64 NE	205, 56 NW	Strike-dip	not tested	not tested	ts	
161-2	P1	Paraiso	5/15/2014	DG	33.69653	-111.81336	graphic granite, split into 3 large hand samples. Light white-pink, coarse with graphic interstitial quartz (?) as flattened, blocky and prismatic texture within pink feldspar. Feldspar appears as one crystal for each sample.	none	n/a	feldspar has beautiful bright pink rxn, esp. along fracture surfaces (sericitized K-spar?)	none	ts, slab	
167-3		Paraiso	5/22/2014	DG	33.69652	-111.81029	rose quartz with iron-stained fractures. Referred to as the "Con rock".	none	n/a	very light purple	none	visual	
177-4, JM-12	P6	Paraiso	5/27/2014	DG, JM	33.69527	-111.81125	weathered micro-granite, possibly foliated. Olive-brown, medium-cs-grained, Quartz/feldspar/mica (50/30/20). Foliation or flattened grains.	none	n/a	no apparent rxn	none	ts	Two thin sections were made by mistake in the lab, in lieu of sample P2 (not thin sectioned).
06114-01m		Paraiso	6/11/2014	BFG	-111.81248	33.6979	2mm metallic lustered mineral in quartz vein about 3 cm thick	none	n/a	pink, purple and orange in host rock. No color to mineral.	none	visual	
061114-01a	P3	Paraiso	6/11/2014	BFG	-111.81218	33.69667	orbicular granite, larger sample	160, 33NE	Strike-dip	dark and thick weathered coatings inhibit UV rxn, but mostly pink and dk. Purple, with whites and oranges.	slightly elevated	slab	
061114-01b	P3a	Paraiso	6/11/2014	BFG	-111.81218	33.69667	one orbicule fell off 1a sample, not oriented.	none	n/a	as above	slightly elevated	ts	
061114-02	P3b	Paraiso	6/11/2014	BFG	-111.81218	33.69667	orbicular granite, smaller sample	005, 30	Lineation	as above	slightly elevated	slab, ts	Labeled as 07 by QTS.
061114-03	P4	Paraiso	6/11/2014	BFG	33.6966	-111.81168	tourmaline porphyroblast in milky quartz adjacent granitic host. Hand sample has acicular crystals of tourmaline in milky quartz with small amounts of K-feldspar intergrown in quartz.	320, 90	Strike-dip	med. Purple throughout. At end of one tourmaline crystal is rose-red color.	none	ts-90um	Flinc analysis by Jim Reynolds.
061114-04		Paraiso	6/11/2014	BFG	33.69652	-111.81019	unknown crystal collected from cavity from within oxidized breccia zone . The mineral is quartz which replaced an unknown original mineral, probably magnetite.	none	n/a	non-distinct purple	none	visual	
061114-05, 174-16	P5	Paraiso	6/11/2014	BFG	33.69652	-111.81029	rose quartz with striations	090, 59 S	Strike-dip	light purple/pink with faint sm. Pebble-size orange specs	none	ts-90um	Flinc analysis by Jim Reynolds.
061114-06		Paraiso	6/11/2014	BFG	33.69527	-111.81125	four small chips of layered quartz vein and other layered minerals, associated with sample DG177, JM12, #4	none	n/a	no apparent rxn	none	visual	

061114-07	P2	Paraiso	6/11/2014	BFG	33.69502	-111.81126	Light olive-gray brown, fine- to medium-grained layered gneiss or mylonite texture.	247, 33 NW	Strike-dip	no apparent rxn	none	visual	This sample was originally confused with DG-177-4. Apparently submitted for thin section but no blank or slide found. Instead a second thin section of P6 was created.
DG-179-1	P7	Paraiso	7/15/2014	DG	33.69463	-111.81254	Milky quartz with iron-oxide staining, larger of two samples	200, 54 NW	Strike-dip	Too strongly coated to determine. One fleck of rose-red color; otherwise light purple.	none	ts-90um	FlInc analysis by Jim Reynolds.
DG-179-2		Paraiso	7/15/2014	DG	33.69463	-111.81254	Milky quartz with iron-oxide staining, smaller of two samples	12, 12 SE	Strike-dip	strongly coated	none	visual	

- Notes:
1. Datum WGS84 on all locations.
  2. ts = thin section
  3. See XRD table.