

General Information			
Sample Name (IGSN)	EX1605L3-D11-1		
Describer	Kevin Konrad		
Sample Location	North Forearc		
Lithology prefix	Highly Altered		
General Lithology	Basalt		
Texture 1	Holocrystalline		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	60	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	40	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	60	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	40	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A basalt or basaltic volcaniclastic rock with mottled greenish and reddish interior. Some alteration can be found along fractures. No vesicles.		
Thin Section Summary	A highly altered, coarse grained basalt/andesite consisting of primary plagioclase, clinopyroxene and spinel. The secondary mineralization is pervasive and consists of serpentine (replacing olivine?), calcite (seems to be filling the limited void spaces) and zeolites. What I am calling zeolites have a classic zeolite crystal structure and very low first order blue-grey birefringence, however they do have a green coloration, which is unusual for a zeolite (may not be zeolites). The plagioclase grains are riddled with opaque inclusions and have ragged edges. Clinopyroxene is often fractured and appears to be partly altered.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]								100
Present (%) [Pr]								60
Replaced / Filled (%) [Rf]								40
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments								



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		60		40				
Present (%) [Pr]		45		30				
Replaced / Filled (%) [Rf]		15		10				
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.25		0.25				
Maximum Size (mm)		0.75		0.85				
Modal Size (mm)		0.5		0.4				
Shape		subhedral		anhedral				
Habit		lath like						
Comments		Opaque inclusions common						