General Information			
Sample Name (IGSN)	EX1605L1-D3-1		
Describer	Kevin Konrad		
Sample Location	Sirena Canyon		
Lithology prefix			
General Lithology	Basalt		
Texture 1	Coarse grained		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	100	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	0	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	100	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	0	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A coarse grained basalt that contains a distinct alteration boundary. Sample contains olivine, plagioclase and pyroxene. Some areas are finer grained then others. Alteration zones surround fractures within the rock.		
Thin Section Summary	A coarse-grained basalt (sill?) that contains olivine-plagioclase-clinopyroxene and spinel in roughly eutectic proportions. Grain size ranges from 0.1 to 2mm. The section occasionally displays an interesting pattern with a fine grained core that radiates outward into coarser grained crystals. Ophitic textures are observed between all crystal phases. Some pockets of heavy alteration exist, not sure if infilled fractures or altered groundmass.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	10	47		38	5			0
Present (%) [Pr]	10	42		38	5			0
Replaced / Filled (%) [Rf]	0	5		0	0			0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.1	0.1		0.1	0.1			
Maximum Size (mm)	0.6	2		1	0.3			
Modal Size (mm)	0.5	0.5		0.5	0.2			
Shape	anhedral	subhedral		subhedral	anhedral			
Habit								
Zonation Type		albite twinning						
Zonation Extent		pervasive						
Exsolution Type		spongy						
Special Features								
Comments								Some pockets of indistinct clay alteration.

Cross Polarized

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]								
Present (%) [Pr]								
Replaced / Filled (%) [Rf]								
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								