

General Information			
Sample Name (IGSN)	EX1504L4-D6-2		
Describer	Kevin Konrad		
Sample Location	Two Cones		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	vesicle		
Texture 2	altered		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	20	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	80	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	10	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	90	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A large highly altered basalt clast within a hyaloclastite matrix. Sample contains frequent palagonite alteration. Rock contains a thin Mn coat. Thin section extracted from altered clast.		
Thin Section Summary	An altered olivine-basalt with the olivine phenocrysts that are 100% recrystallized to iddingsite and trace plagioclase grains. Sample contains vesicles with alteration coating or completely infilled. A few more iron rich altered basaltic clasts are found as inclusions throughout. Groundmass is heavily altered with only plagioclase and spinel grains not recrystallized.		

Whole Rock



Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	8	1					10	81
Present (%) [Pr]	0	1					3	8
Replaced / Filled (%) [Rf]	8	0					7	73
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.1	0.4					0.05	
Maximum Size (mm)	0.2	0.4					0.1	
Modal Size (mm)	0.2	0.4					0.1	
Shape	anhedral						rounded	
Habit								
Zonation Type		sector						
Zonation Extent								
Exsolution Type								
Special Features								
Comments	100% iddingsite						alteration coating	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		15			5			80
Present (%) [Pr]		15			5			0
Replaced / Filled (%) [Rf]		0			0			80
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.05			0.05			
Maximum Size (mm)		0.1			0.05			
Modal Size (mm)		0.075			0.05			
Shape		subhedral						
Habit								
Comments		laths						Hard to tell if altered or not. Very fine grained.