General Information			
Sample Name (IGSN)	EX1705-D4-3		
Describer	Kevin Konrad		
Sample Location	Kahalewai		
Lithology prefix	Volcanic		
General Lithology	Breccia		
Texture 1	Altered		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	15	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	85	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	15	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	85	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A volcanic breccia or hyaloclastite that contains a thick (0.5-1.3 cm) Mn rind. Mn can be found throughout as a cement along with carbonate. Clasts vary from plagioclase bearing basalts to pervas Fe-oxide altered basalts.		
Thin Section Summary	A highly altered volcanic breccia or hyaloclastite. Contains thick carbonate cement rimmed with a possible Fe-Mn oxides. the sample contains a variety of clasts (breccia not hyaloclastite) that are 100 recrystallized. Some contain palagonite rimmed vesicles. One clast has some iddingsite phenocrysts		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]								100
Present (%) [Pr]								15
Replaced / Filled (%) [Rf]								85
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								

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								