

Thin Section Form for Volcaniclastic Rocks			DATE _____	ANALYST _____		
Whole-Sample	Matrix_1 /Domain_1	Matrix_2 /Domain_2	Clast_1 / Domain_3	Clast_2 / Domain_4	Clast_3 / Domain_5	
Texture	Domain Type = matrix	Domain Type = matrix	Domain Type = clast	Domain Type = clast	Domain Type clast	
clast-supported	Matrix Grain Size clay silt mud fine sand sand	Matrix Grain Size clay silt mud fine sand sand	Clast Grain Size sand coarse sand granule pebble cobble	Clast Grain Size sand coarse sand granule pebble cobble	Clast Grain Size sand coarse sand granule pebble cobble	
matrix supported						
Domain Proportions (%)						
clasts						
matrix						
pores						
Prefix	coarse sand	coarse sand	Clast Type (Rock Name)	Clast Type (Rock Name)	Clast Type (Rock Name)	
monomict	granule	granule	basalt, andesite, dacite...	basalt, andesite, dacite...	basalt, andesite, dacite...	
polymict	pebble	pebble	mudstone, siltstone, sandstone...	mudstone, siltstone, sandstone...	mudstone, siltstone, sandstone...	
tuffaceous	Matrix Components (modal%) clay carbonate crystals glass plagioclase pyroxene pyroxene/cpx pyroxene/opx amphibole quartz opaques biotite pumice scoria lithics	Matrix Components (modal%) clay carbonate crystals glass plagioclase pyroxene pyroxene/cpx pyroxene/opx amphibole quartz opaques biotite pumice scoria lithics	gabbro, diorite, granite...	gabbro, diorite, granite...	gabbro, diorite, granite...	
volcanic			Clast Groundmass crystalline glassy microlitic	Clast Groundmass crystalline glassy microlitic	Clast Groundmass crystalline glassy microlitic	
polymict clast-supported						
polymict matrix-supported						
Principal Name						
tuff	glass	glass	microlitic	microlitic	microlitic	
lapilli tuff	plagioclase	plagioclase	Clast Composition mafic intermediate felsic	Clast Composition mafic intermediate felsic	Clast Composition mafic intermediate felsic	
mudstone	pyroxene	pyroxene				
siltstone	pyroxene/cpx	pyroxene/cpx				
sandstone	pyroxene/opx	pyroxene/opx				
conglomerate	amphibole	amphibole	Clast Internal Components (modal%) amphibole biotite crystals glass groundmass olivine opaques plagioclase pyroxene pyroxene/cpx pyroxene/opx quartz secondary minerals	Clast Internal Components (modal%) amphibole biotite crystals glass groundmass olivine opaques plagioclase pyroxene pyroxene/cpx pyroxene/opx quartz secondary minerals	Clast Internal Components (modal%) amphibole biotite crystals glass groundmass olivine opaques plagioclase pyroxene pyroxene/cpx pyroxene/opx quartz secondary minerals	
breccia	quartz	quartz				
breccia-conglomerate	opaques	opaques				
	biotite	biotite				
	pumice	pumice				
	scoria	scoria				
lithics	lithics	lithics	groundmass	groundmass	groundmass	
Thin Section Identifier	biogenic	biogenic	olivine	olivine	olivine	
351_U1438 _	secondary	secondary	opaques	opaques	opaques	
COMMENTS	Alteration	Alteration	plagioclase	plagioclase	plagioclase	
	fresh-absent	fresh-absent	pyroxene	pyroxene	pyroxene	
	slight	slight	pyroxene/cpx	pyroxene/cpx	pyroxene/cpx	
	moderate	moderate	pyroxene/opx	pyroxene/opx	pyroxene/opx	
	high	high	quartz	quartz	quartz	
			secondary minerals	secondary minerals	secondary minerals	
			Clast Texture	Clast Texture	Clast Texture	
			porphyritic	porphyritic	porphyritic	
			aphyric	aphyric	aphyric	
			tuffaceous	tuffaceous	tuffaceous	
		Alteration	Alteration	Alteration		
		fresh low moderate high	fresh low moderate high	fresh low moderate high		