Lithologic classes		Prefix (optional unless "tuffaceous")	Principal name (required)	Suffix (optional)
>25% volcanic grains and clasts	"Volcanic" (>75% volcanic grains and clasts)	Matrix-supported, monomictic, mafic Matrix-supported, polymictic, mafic Matrix-supported, monomictic, evolved Matrix-supported, polymictic, evolved Matrix-supported, monomictic Matrix-supported, polymictic Clast-supported, monomictic, mafic Clast-supported, polymictic, mafic Clast-supported, monomictic, evolved Clast-supported, polymictic, evolved Clast-supported, monomictic Clast-supported, polymictic Mafic Evolved Bimodal	ash tuff lapilli-ash lapilli-tuff lapilli lapillistone ash-breccia tuff-breccia unconsolidated volcanic conglomerate consolidated volcanic conglomerate unconsolidated volcanic breccia-conglomerate consolidated volcanic breccia-conglomerate unconsolidated volcanic breccia consolidated volcanic breccia	with ash with tuff with lapilli-ash with lapilli-tuff with lapilli with lapillistone with ash-breccia with tuff-breccia with volcanic conglomerate with volcanic breccia-conglomerate with volcanic breccia with dense glass lapilli with accretionary lapilli with pillow fragment lapilli with lithic lapilli with crystals with scoria lapilli with pumice lapilli with ash pod
	"Tuffaceous" (25%-75% volcanic grains and clasts)	Tuffaceous Tuffaceous, matrix-supported, polymictic Tuffaceous, clast-supported, polymictic	clay claystone silt siltstone fine sand fine sandstone medium to coarse sand medium to coarse sandstone sand sandstone mud mudstone unconsolidated conglomerate consolidated conglomerate unconsolidated breccia-conglomerate consolidated breccia-conglomerate unconsolidated breccia consolidated breccia	with clay with claystone with silt with siltstone with sand with sandstone with conglomerate with breccia-conglomerate with breccia with fine sand with fine sandstone with medium to coarse sand with medium to coarse sandstone with mud with mudstone
<25% volcanic grains and clasts "nonvolcanic"	"Nonvolcanic siliciclastic" (nonvolcanic siliclastic > carbonate + chemical + biogenic)	Matrix-supported, monomictic Matrix-supported, polymictic Clast-supported, monomictic Clast-supported, polymictic		
	"Carbonate, chemical and biogenic" (nonvolcanic siliclastic < carbonate + chemical + biogenic)		biosiliceous ooze biosiliceous chalk calcareous ooze calcareous chalk diatom ooze diatomite radiolarian ooze radiolarite foraminiferal ooze foraminiferal chalk chert	with microfossils with foraminifer with biosiliceous ooze with biosiliceous chalk with calcareous ooze with calcareous chalk with diatom ooze with diatomite with radiolarian ooze with radiolarite with foraminiferal ooze with foraminiferal chalk with chert with plant fragments with fecal pellets with shells
ANY closely intercalated		1st line: "Closely intercalated" 2nd line: PREFIX most abundant facies 3rd line: PREFIX 2nd most ab. facies 4th line: PREFIX 3rd most ab. facies	1st line: most abundant facies - one of the above 2nd line: PRINCIPAL NAME most abundant facies 3rd line: PRINCIPAL NAME 2nd most ab. facies 4th line: PRINCIPAL NAME 3rd most ab. facies	1st line: 2nd most abundant facies- one of the above 2nd line: SUFFIX most abundant facies 3rd line: SUFFIX 2nd most ab. facies 4th line: SUFFIX 3rd most ab. facies