



PALEOZOIC	
ORR	Red River Formation (Herald and Yeoman formations, <55m)
PALEOPROTEROZOIC SEDIMENTARY, VOLCANIC AND HYPOBASSAL ROCKS MISSI GROUP	
J13a	Hypabyssal intrusions Basalt, mafic porphyry
J13c	Rhyolite, dacite, quartz porphyry, feldspar porphyry, quartz-feldspar porphyry
J12c	Tonalite to granodiorite, granite Tonalite, quartz diorite
J11	Gabbro, diorite, diabase Gabbro, diorite, diabase
J11a	Diorite, gabbro
J11b	Porphyritic diorite, gabbro Porphyritic diorite, gabbro
J11c	Diabase Diabase
S4a	Compositionally layered gabbro sills and intrusions Gabbronorite, gabbro
S4b	Ferrogabbro Ferrogabbro
S4c	Quartz ferrodiorite, ferrotonalite, leucotonalite Quartz ferrodiorite, ferrotonalite, leucotonalite
S1b	Volcaniclastic rocks Greywacke, mudstone, felsic sandstone ± pebbles
S1c	Volcaniclastic rocks, calc-silicate rocks Siliceous argillite, rhyolite tuff
ROCKS OF UNCERTAIN AGE	
W6	Tectonite, phyllonite, mylonite Tectonite, phyllonite, mylonite
W6a	Mafic tectonite, phyllonite, mylonite Mafic tectonite, phyllonite, mylonite
W6b	Mafic tectonite with mafic-felsic intrusive sheets Mafic tectonite with mafic-felsic intrusive sheets
W6c	Mafic phyllonite ± carbonate, catacasite Mafic phyllonite ± carbonate, catacasite
INTRUSIVE ROCKS	
P11a	Tectonite, mylonite Felsic tectonite, mylonite
P11b	Felsic phyllonite, quartz-sericite ± carbonate schist Felsic phyllonite, quartz-sericite ± carbonate schist
P10a	Aphyric and porphyritic felsic-intermediate dykes Aphyric and porphyritic felsic-intermediate dykes
P10b	Quartz/feldspar/quartz-feldspar porphyry Quartz/feldspar/quartz-feldspar porphyry
J4a	Rhyolite to dacite flows, flow breccia Rhyolite to dacite flows, flow breccia
J4b	Andesite (pillowed and massive flows) Andesite (pillowed and massive flows)
J3a	Andesite; derived fine grained garnetiferous amphibolite Andesite; derived fine grained garnetiferous amphibolite
J5a	Arc-rift basalt (pillowed and massive flows; related sill) Arc-rift basalt (pillowed and massive flows; related sill)
J5b	Felsic tuff, lapilli tuff, breccia, heterolithologic breccia Felsic tuff, lapilli tuff, breccia, heterolithologic breccia
J5c	Resedimented shoshonitic tuff Resedimented shoshonitic tuff
J5d	Felsic tuff, lapilli tuff, breccia, heterolithologic breccia Resedimented mafic tuff, lapilli tuff, breccia, mafic wacke
J5e	Pillow fragment breccia Pillow fragment breccia
J5f	Heterolithologic breccia, dominantly mafic fragments Heterolithologic breccia, dominantly mafic fragments
J5g	Rhyolite to dacite (flows, flow breccia) Rhyolite to dacite (flows, flow breccia)
J5h	Andesite (pillowed and massive flows) Andesite (pillowed and massive flows)
J5i	Andesite; derived fine grained garnetiferous amphibolite Andesite; derived fine grained garnetiferous amphibolite
J5j	Arc-rift basalt (pillowed and massive flows; related sill) Arc-rift basalt (pillowed and massive flows; related sill)
J5k	Ferrobasalt, rhyolite crystal tuff Ferrobasalt, rhyolite crystal tuff
J5l	Basalt, synvolcanic dykes and sills Basalt, synvolcanic dykes and sills
J5m	Gabbro, ferrogabbro, quartz ferrodiorite sills Gabbro, ferrogabbro, quartz ferrodiorite sills
J5n	Basalt, basaltic andesite (pillowed and massive flows) Basalt, basaltic andesite (pillowed and massive flows)
J1	Basalt, basaltic andesite (pillowed and massive flows) Basalt, basaltic andesite (pillowed and massive flows)
J1a	Tholeiitic basalt, basaltic andesite; gabbro, derived amphibolite Tholeiitic basalt, basaltic andesite; gabbro, derived amphibolite
J1b	Calc-alkaline basalt, basaltic andesite Calc-alkaline basalt, basaltic andesite
OCEAN FLOOR	
F7	Undivided ocean-floor rocks Undivided ocean-floor rocks
F6a	Synvolcanic mafic-ultramafic complexes Gabbro, gabbroperidotite; leucogabbro; wispy-layered gabbro
F6b	Pyroxenite, peridotite, serpentinite Pyroxenite, peridotite, serpentinite
F6c	Layered gabbro, leucogabbro, anorthosite Layered gabbro, leucogabbro, anorthosite
F6d	Gabbro, diabase sills and dykes Gabbro, diabase
F5a	Mafic volcanioclastic rocks Mafic volcanioclastic rocks
F4a	Hyaloclastite, reworked hyaloclastite, mafic wacke Hyaloclastite, reworked hyaloclastite, mafic wacke
E-type basalts	
F2a	Athapuskow massive and pillowed basalt, diabase Athapuskow massive and pillowed basalt, diabase
F2b	Pillow basalt, gabbro, derived amphibolite Pillow basalt, gabbro, derived amphibolite
N-type basalts	
F1a	McDougalis Point pillowed and massive basalt, diabase McDougalis Point pillowed and massive basalt, diabase
F1d	Millwater pillowed basalt Millwater pillowed basalt
F1g	Basalt, diabase; derived amphibolite Basalt, diabase; derived amphibolite
UNKNOWN GEOCHEMICAL AFFINITY	
U2	Intermediate to mafic volcanic and volcaniclastic rocks Intermediate to mafic volcanic and volcaniclastic rocks
U1	Mafic volcanic, minor volcaniclastic and intrusive rocks Mafic volcanic, minor volcaniclastic and intrusive rocks
PALEOPROTEROZOIC & ARCHEAN	
A1	Granodiorite to tonalite Granodiorite to tonalite