

## SNEGAMOOK LAKE

Areas of the map symbolized as "Unconsolidated sand and gravel deposits" display underlying rock types) to portray the interpreted continuity of units, based on structural, aeromagnetic and topographic signatures. Rock types other than those shown may be present in these areas.

All data collected by the authors are plotted using GPS-based coordinates. This map also incorporates new GPS field data collected by Fahrig (1999) and Brunner and Mann (1961), Enns (1980), Ryan (1984) and Ermakova (1993). The accuracy of field data stations is estimated from maps or field notes. These sources is dependent on the original plotting accuracy. Mineral occurrence shown on this map are from the Newfoundland and Labrador Geological Survey's Mineral Occurrence Database System (MOS) (<http://gis.geonovus.nl.ca/mos/mos.asp>), and from unpublished assessment reports. MOS occurrences that were revised and new mineral indications were located using GPS-based geographic coordinates.

The map is augmented by follow-up examination of stained rock slabs, petrographic thin sections and whole rock geochemical analyses. In many areas, geological boundaries are poorly contrasted, approximated and extrapolated on the basis of outcrop distribution, topographic trends, structural observations and aeromagnetic data. Individual outcrops typically consist of several different rock types. The unit polygon depicted is based on what was interpreted to be the dominant rock type present. As rock types recorded from an individual outcrop may be determined by consulting the "Unit description" entry in the key, only given in the digital database. Lithological rock names applied to field outcrops versus those interpreted from stained slabs or thin sections have not been recorded in the digital database. Differences may be due to more refined identifications or the sample and/or thin section may not be representative of the source material.

Field work in 2010 by T. van Nostrand

**Recommended citation**  
van Nostrand, T.  
2023. Geology of SNEGAMOOK lake map area (NTS 13K/11), central Labrador, Scale 1:50 000. Geological Survey, Department of Industry, Energy and Technology, Government of Newfoundland and Labrador, Map 2023-20. Open File 13K/11/0357.

Geology compiled by T. van Nostrand  
Geological cartography by S. McNamara, K. Morgan and T. Sears

The digital topographic database map NTS 13K/11 used here is available from the Surveyor General Branch, Natural Resources, Canada. Magnetic declination at centre of the map is 20°45' West (March 31, 2025). Universal Transverse Mercator (UTM), Grid Zone 20, North American Datum (NAD) 27. Elevations are in metres above sea level. Contour interval is 20 m.

Open File 13K/11/0357

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Preliminary versions of parts of this map published in Current Research articles have evolved so there may be differences between the current and earlier preliminary versions of the map, unit descriptions and the legends (see van Nostrand and MacFarlane, 2011).

Map 2023-20 is seven of twenty (20) maps on the geology of the Seal Lake Group, including adjacent rocks of older tectonic provinces in central Labrador.

Department website: <https://www.gov.nl.ca/gov/>  
Geological Survey website: <https://www.gov.nl.ca/earth/mn/geoscience>  
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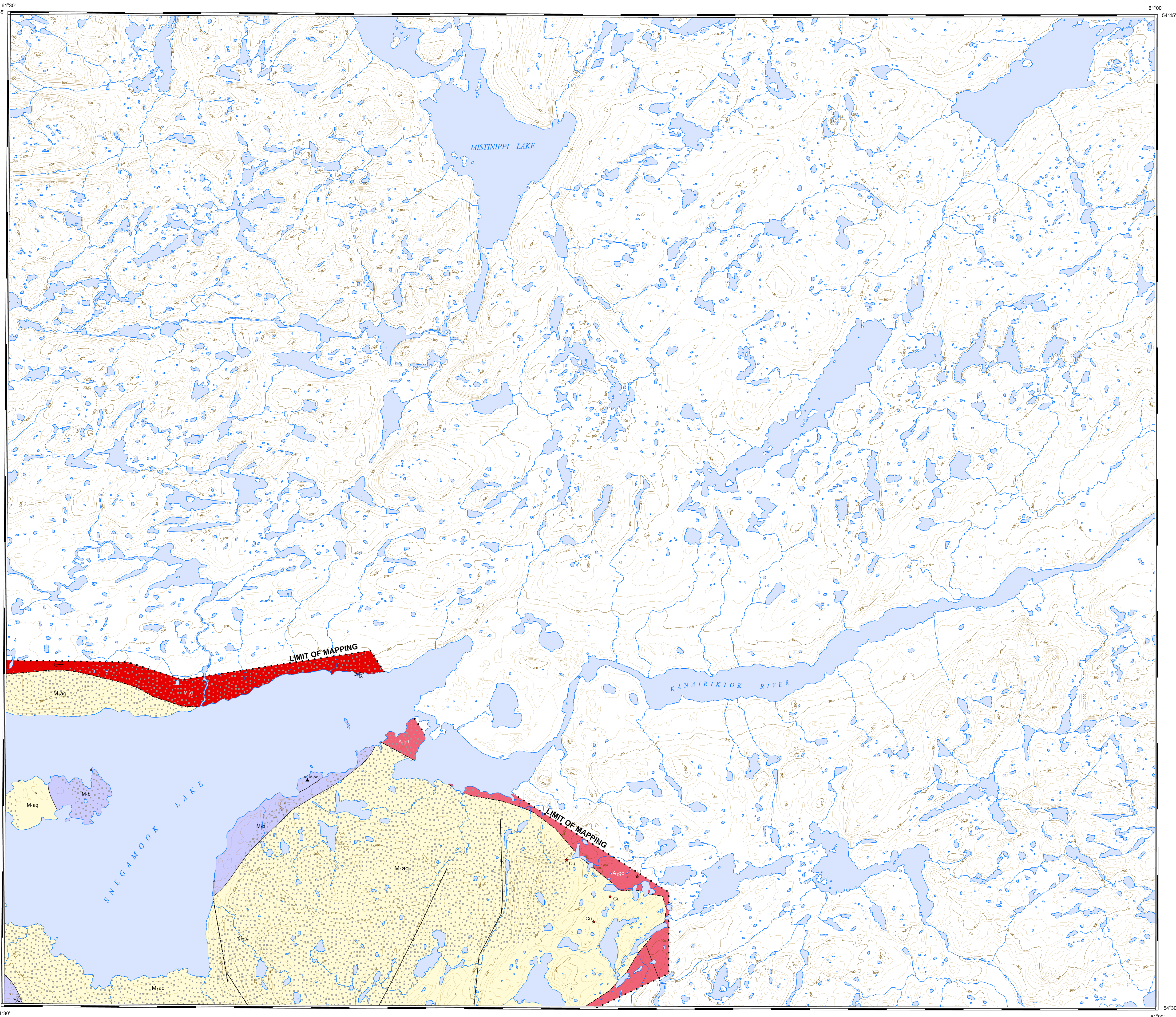
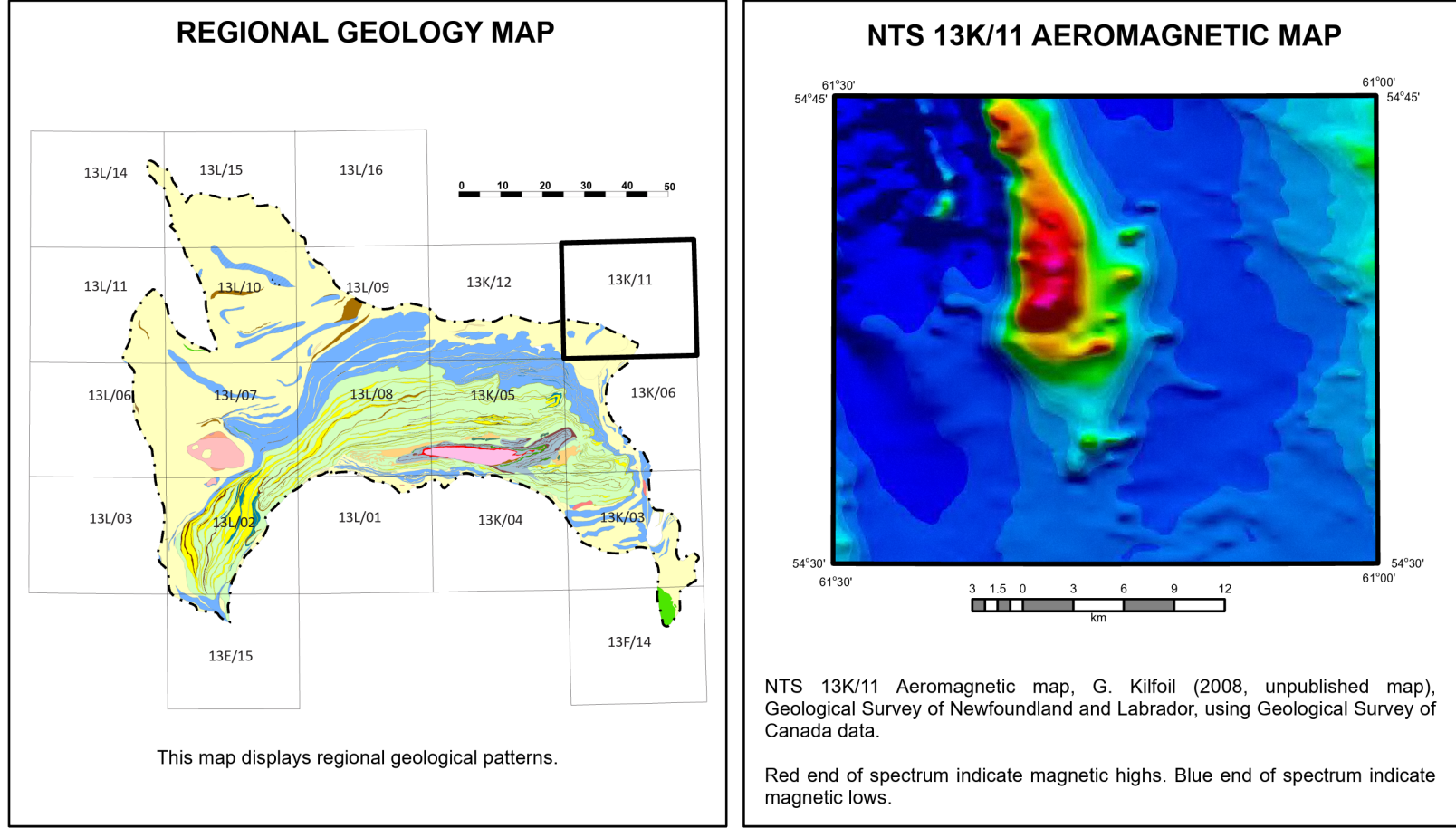
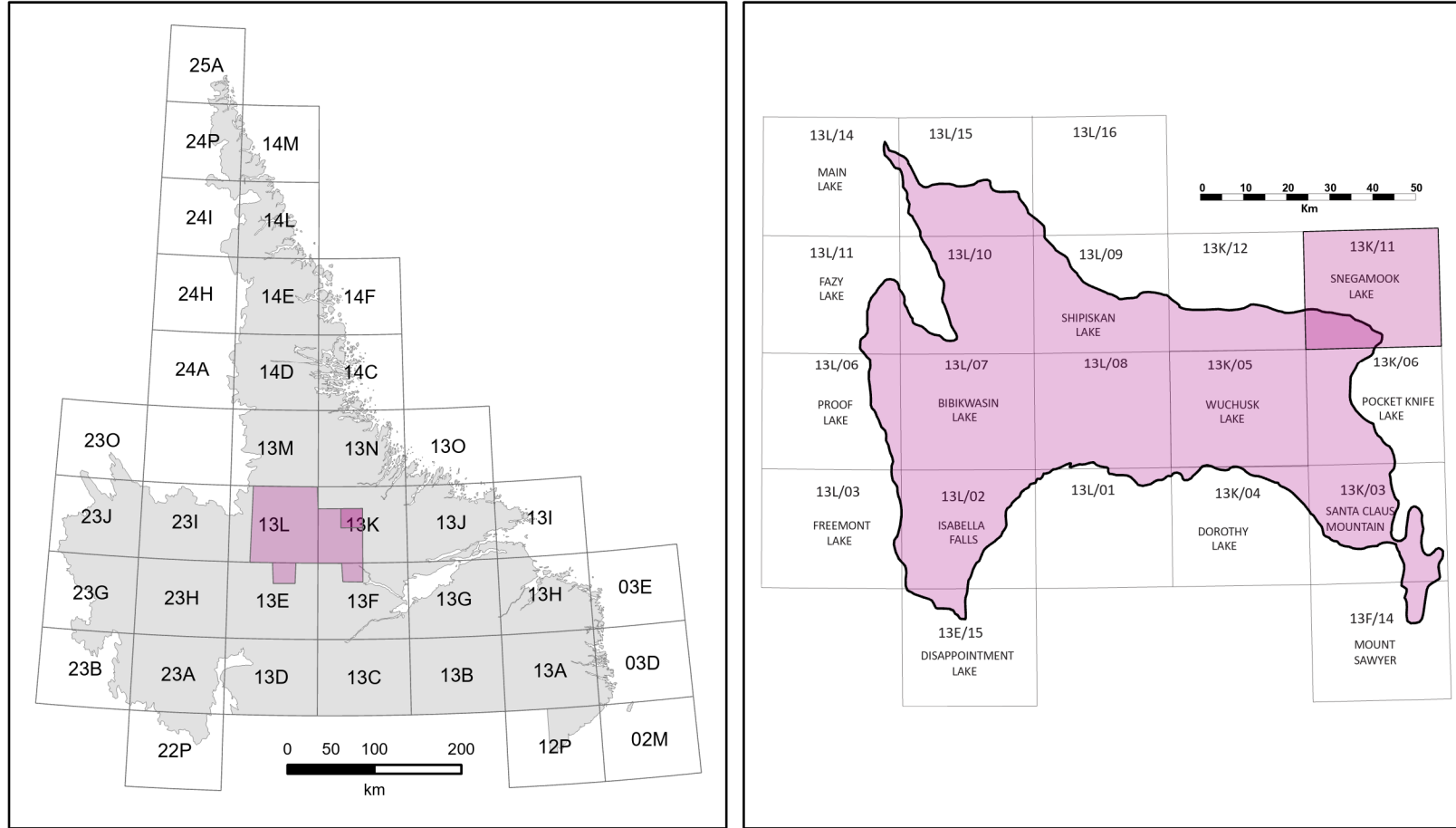
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## INDEX MAPS



## MIDDLE MESOPROTEROZOIC

Seal Lake Group (1270-1225 Ma)

Upper Red Quartzite Formation

M<sub>Uq</sub> Grey to grey-white weathering, medium- to coarse-grained, massive to layered, orthopyroxene-magnetite-ilmenite-spinel anorthositic, augeniferous and leucocratic. The predominant rock type mapped proximal to the unconformity with Seal Lake Group rocks is massive anorthositic, with zones of microcline.

M<sub>Uq</sub> Light brown to red weathering, medium- to coarse-grained, massive biotite-hornblende granitic, locally gradational to quartzite.

Adeline Island Formation

Upper Member

M<sub>Ua</sub> Maroon to red weathering, fine-grained shale, locally grades to slate.

M<sub>Ua</sub> Grey to green weathering, fine-grained slate.

M<sub>Ua</sub> Grey to green weathering, fine-grained slate, locally gradational to phyllite.

M<sub>Ua</sub> Red to purple weathering slate.

M<sub>Ua</sub> Grey weathering, fine-grained sandy shale to slate.

M<sub>Ua</sub> Maroon to purple weathering, fine-grained slate.

M<sub>Ua</sub> Grey, shaly to green weathering, fine-grained slate, gradational to phyllite. This unit exhibits a distinctive 'valve-grip' shaly and hosts most of the copper sulfide mineralization within the Seal Lake Group.

M<sub>Ua</sub> Maroon to purple weathering, fine-grained slate.

Lower Member

M<sub>Ua</sub> Pink, red- to locally white weathering variably recrystallized quartz arenite to arenite. This unit also contains local, thin layers and lenses of slate.

Lower Member

M<sub>Ua</sub> Maroon to red weathering, fine-grained slate. Basal unit of the Adeline Island Formation is locally intercalated with layers and lenses of fine-grained quartz arenite.

M<sub>Ua</sub> Green to brown weathering, fine-grained, massive amygdaloidal basalt flows. Flows are 1-5 m thick, and intercalated with sedimentary units.

Salmon Lake Formation

M<sub>Ua</sub> Maroon to red weathering, fine-grained slate. Locally contains thin, fine-grained interbedded siltstone and quartz arenite.

M<sub>Ua</sub> Grey to green weathering, fine-grained phyllite to slate.

M<sub>Ua</sub> Grey to brown weathering, fine-grained breccias with rare stromatolite layers. Also occurs as thin lenses and layers interbedded with other sedimentary rock units.

M<sub>Ua</sub> Pink, white to grey weathering, fine- to medium-grained variably recrystallized quartz arenite to arenite.

M<sub>Ua</sub> Green, red- to brown weathering, fine- to medium-grained, moderate to strongly foliated, massive and amygdaloidal basalt flows.

M<sub>Ua</sub> Green, brown to grey weathering, fine- to medium-grained orthite to equigranular gabbro. Occurs as tabular-shaped sills and small, irregular intrusions.

Whiskey Lake Formation

M<sub>Ua</sub> Brown, maroon to red weathering, thin-bedded to laminated slate, arenite, siltstone and subordinate calcareous rocks and chert.

M<sub>Ua</sub> Maroon weathering, thin-bedded to laminated slate. Occurs predominantly as thin lenses and layers.

Wachuk Lake Formation

M<sub>Ua</sub> Primarily pink, white, grey, to red weathering variably recrystallized quartz arenite and arenite occurring as layers of variable thickness interbedded with gabbro sills and basalt flows. Contains cm- and m-scale lenses of siltstone, mudstone and calcareous rocks.

M<sub>Ua</sub> Brown to tan weathering, fine-grained, thin-bedded to laminated siltstone. Also contains thin quartz arenite, chert, and calcareous layers.

M<sub>Ua</sub> Fine-grained, red- to brown weathering mudstone, grading to shale and slate and having a weak to strongly developed S<sub>0</sub> and/or cleavage.

M<sub>Ua</sub> Black to grey weathering, fine-grained shale interbedded with siltstone and quartz arenite units. Exhibits localized and intermittent elevated radiometric signatures (inferred by radiometric on outcrop surface).

M<sub>Ua</sub> Brown to grey weathering, fine- to medium-grained, well-bedded to massive limestone. Occurs as m to 10s of m-scale layers and beds interbedded with other sedimentary rock units.

M<sub>Ua</sub> Green-grey, brown to red weathering, fine- to medium-grained gabbroic-schistosity-magnetite basalt. Textures range from homogeneous, massive, amygdaloidal, vesicular and porphyritic. May contain intercalated layers of volcanic tuffaceous rocks and sedimentary rocks and gabbro.

M<sub>Ua</sub> Brown to grey weathering, fine- to medium-grained, moderately to strongly foliated, massive and amygdaloidal basalt flows and sedimentary rocks.

M<sub>Ua</sub> Green, grey-brown to rusty weathering, fine- to very coarse-grained, massive to strongly foliated orthite gabbro. Rocks are deposited as tabular shaped sills. Contains local microcline and leucocratic zones. Some sills may consist of composite intrusions.

Majors and Bessie Lake formations (stratigraphically equivalent formations)

M<sub>Ua</sub> Brown to maroon weathering, fine-grained slate. Locally interbedded with quartz arenite, arenite and siltstone layers.

M<sub>Ua</sub> Brown to tan weathering, fine-grained, thin-bedded mudstone to siltstone. Unit contains cm- and 10s of m-scale, layers of quartz arenite, arenite and minor lime-bearing argillaceous rocks.

M<sub>Ua</sub> White, pink, red-green, to grey weathering, fine- to coarse-grained variably recrystallized quartz arenite and arenite. Predominant rock within the basal stratigraphic formation containing abundant cm- to 10s of m-scale interbedded layers of siltstone, mudstone, shale and minor calcareous rocks.

M<sub>Ua</sub> White, pink, red- to grey weathering, medium- to coarse-grained, pebble- and cobble-bearing arenaceous conglomerate.

M<sub>Ua</sub> White to grey weathering, fine- to medium-grained, strongly foliated and recrystallized quartz schist schist, derived from quartz arenite and arenaceous conglomerate. Contains quartz-schist-schistosity-magnetite basalt. May contain intercalated layers of volcanic tuffaceous rocks, sedimentary rocks and gabbro (as thin sills).

M<sub>Ua</sub> Green-grey, brown to red weathering, fine- to medium-grained gabbroic-schistosity-magnetite basalt. May contain intercalated layers of volcanic tuffaceous rocks, sedimentary rocks and gabbro (as thin sills).

M<sub>Ua</sub> Green-grey to brown weathering, fine- to medium-grained, orthite-schistosity-magnetite basalt. Locally exhibits a diffuse layering that may include volcaniclastic breccia and intrusive breccia. May also include fine-grained, homogeneous basalt flows and sedimentary rocks.

M<sub>Ua</sub> Green-grey to brown weathering, medium-grained, volcanic and intrusive breccia. Occurs as localized layers within thick sequences of basalt flows. Contains clasts and fragments of basalt, volcaniclastic rocks, gabbro and sedimentary rocks in basaltic and gabbroic matrices.

M<sub>Ua</sub> Green weathering, fine-grained, very strongly deformed basalt, metamorphosed to mylonitic-schistosity schist. Occurs as thin zones adjacent to north and northeast-sinking thrust fault.

M<sub>Ua</sub> Green to grey weathering, fine- to medium-grained, massive, orthite-schistosity-magnetite basalt. Occurs as rare, less than 100 m thick sills intruding quartz arenite and arenite and basalt flows.

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