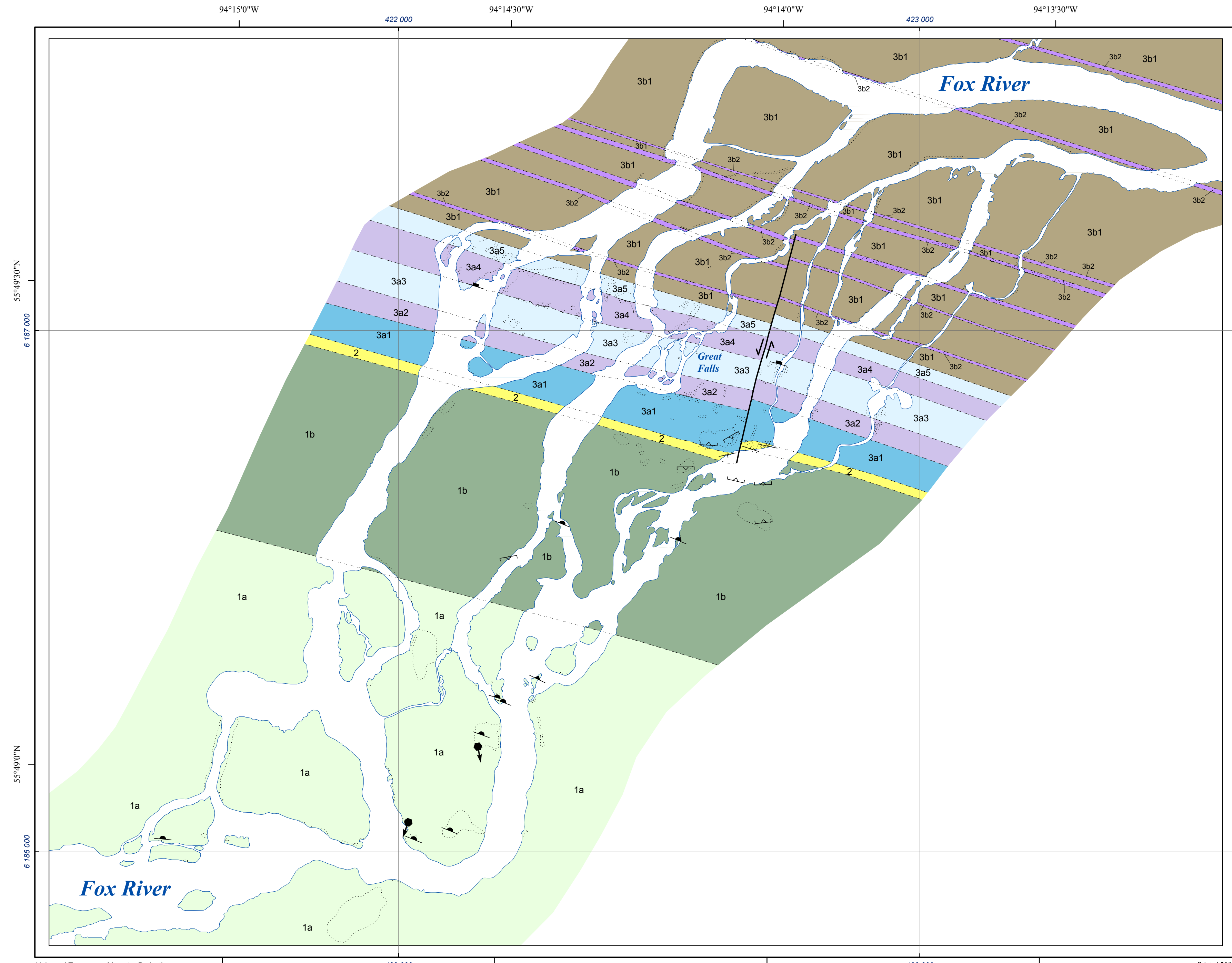




Geology of the Fox River Sill in the Great Falls area, Fox River Belt, northeastern Manitoba (part of NTS 53M16)



Legend

INTRUSIVE ROCKS

3 Fox River Sill

3b Lower Central Layered Zone: alternating massive dunite, wehrlite and lherzolite layers (10–95 m thick) and massive websterite and clinopyroxenite layers (3–10 m thick)

3b2 Websterite, clinopyroxenite

3b1 Dunite, wehrlite, lherzolite

-- Abrupt contact --

3a Marginal Zone (>300 m): Reverse-graded basal contact unit overlain by two normally differentiated ultramafic to mafic cyclic units

3a5 Subunit LG2: ~ 25 m thick; banded and layered; sulphide-bearing gabbro and leucogabbro; subordinate sulphide-bearing diorite bands

-- Modally-graded contact --

3a4 Subunit UM2: ~ 60 m thick; sulphide-bearing orthopyroxene (20 cm) grading upward into modally layered and locally sulphide-bearing harzburgite, lherzolite, websterite, plagioclase lherzolite and melagabbro; variably textured leucogabbro and diorite pods are locally developed in the lower part of the unit

-- Abrupt contact, locally faulted or sheared --

3a3 Subunit LG1: ~ 60 m thick; gabbro grading upward into anorthosite and gabbro

-- Abrupt contact --

3a2 Subunit UM1: ~ 35 m thick; lherzolite, websterite, clinopyroxenite; locally modally layered

-- Abrupt contact --

3a1 Basal Contact Unit: ~ 65 m thick; fine-grained lower gabbro and diorite unit, locally containing siliceous xenomelt inclusions, grading upward to medium- to coarse-grained melagabbro, websterite and lherzolite

-- Abrupt contact --

SUPRACRUSTAL ROCKS

2 Middle Sedimentary Formation

2 Thinly bedded mudstone, pyritic mudstone and siltstone; local turbiditic greywacke

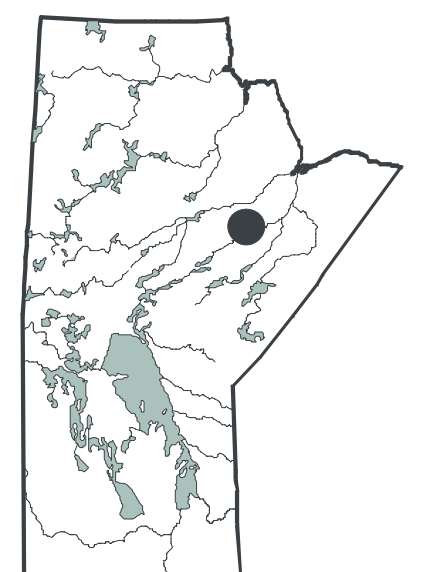
1 Lower Volcanic Formation: massive basalt and komatiitic basalt, minor interflow mudstone

1b Massive flows

1a Pillowed flows

Symbols

- Bedding
- Pillow top
- Flow contact
- Igneous layering
- Foliation
- Columnar joint
- Contact; defined, assumed, underwater
- Fault
- Outcrop



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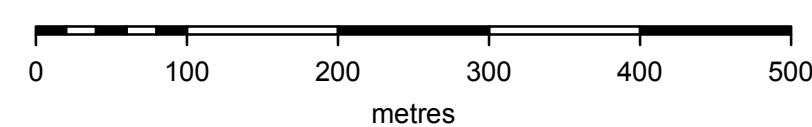


Completion of this map was made possible with the expertise and financial assistance of Falconbridge Limited.



Universal Transverse Mercator Projection,
Zone 15, North American Datum, 1927.
Magnetic declination in centre of map is
34°E, decreasing 5' annually (2004).

1:5 000



Printed 2004