

SHEET 96 C

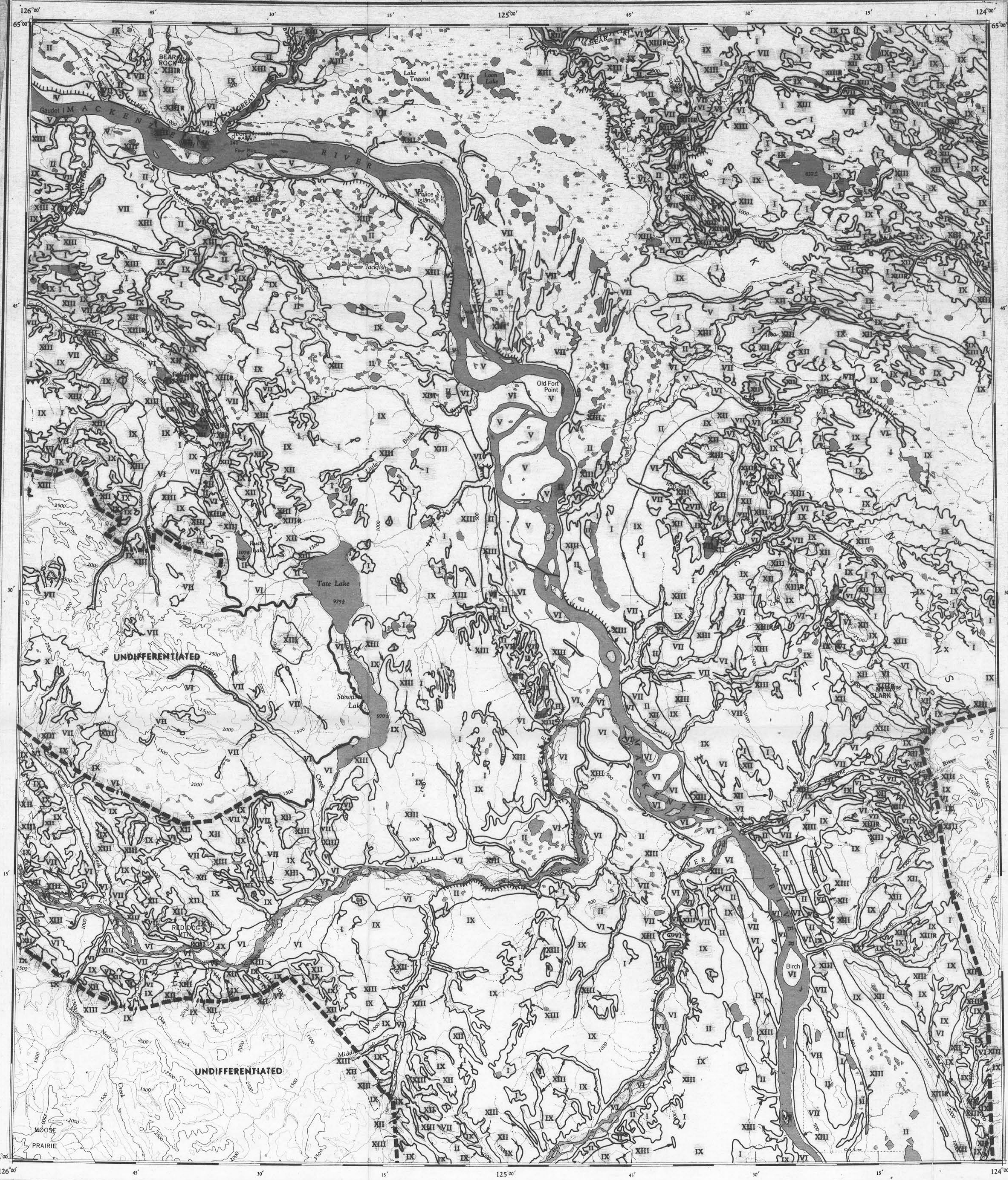
Note: Detailed unit descriptions of terrain sensitivity and the performance rating table are presented on a separate sheet which accompanies this map.

Unpublished bedrock geology maps and data by D.G. Cook, and C.J. Yorath, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 1972.

Preliminary map prepared for open file, April, 1973
Subject to revision and correction.

Produced for
Indian and Northern Affairs
by
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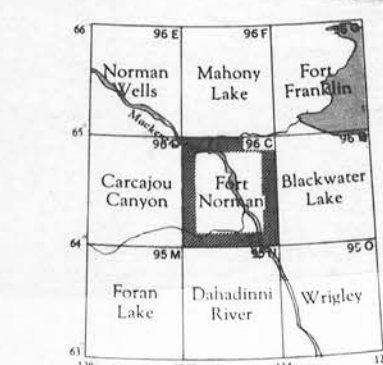
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Road, Hard Surface, All Weather.....		More than 2 Lanes Wide
" " " " " " " " " " " " " "		2 Lanes Route No.
" " " " " " " " " " " " " "		Less than 2
" " " " " " " " " " " " " "		2 Lanes Wide or More
" " " " " " " " " " " " " "		All Weather Dry Weather
Curt Track, Trail		Curt Track Trail
Railway, Multiple Track		
" " Single Track		
Boundary, International		
" " Province or State		Marker
" " County or District		
" " Reservations, Indian, Military, etc.		

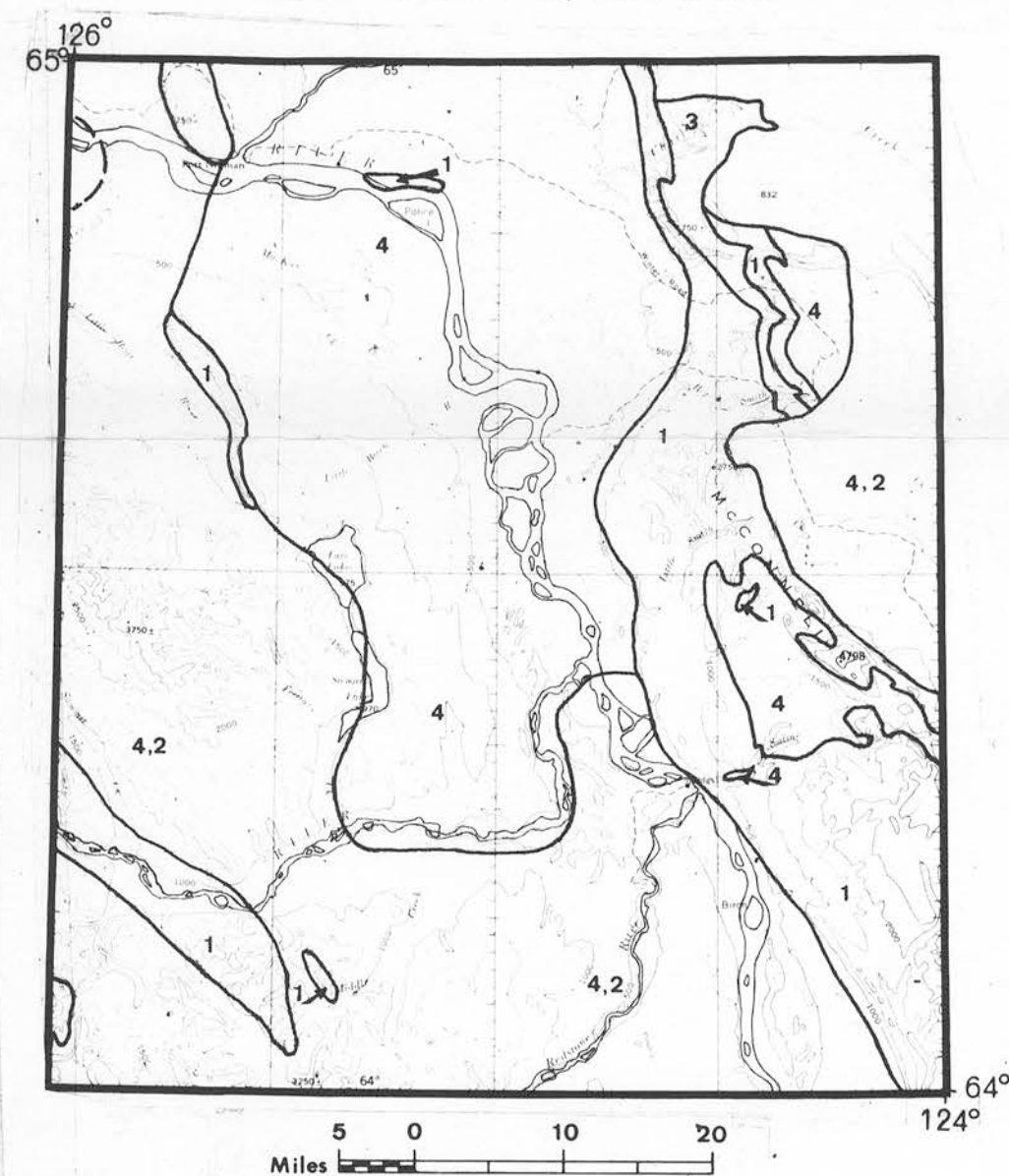
Copies may be obtained from
The Map Distribution Office,
Dept. of Mines and Technical Surveys,
Ottawa.

Church, School 4 2 Horizontal Control Point
Settlement, Town □ Spot Elevation, in feet 124
Contours, Elevation 1500
..... Depression 500
..... Approximate 600
Dry River Bed
Stream, Intermittent
Dike Ferry Mud Sand
Falls Lighthouse
Airport, on Land Water Landing Ground Anchorage
Power Transmission Line
.....



NOTE: On the above index the sheets published are shown tinted green

1. Resistant, competent carbonate rocks, potentially suitable for use as rip-rap.
Devonian limestone units Hume Formation, Ramparts Formation (Ramparts has been quarried and crushed for road and airstrip construction at Norman Wells), Devonian Bear Rock Formation (limestone and dolomite breccia) is variable in composition and consequently unpredictable in engineering qualities.
Cambrian and Silurian Running Group are hard cryptocrystalline limestones suitable for rip-rap etc. In Mackenzie Mts. includes Precambrian cemented quartzites.
2. Coherent or moderately competent rocks; fairly resistant to erosion but not strongly cemented; probably would break down rapidly under heavy traffic (e.g., if crushed and used for road surfacing). Includes Devonian Imperial Formation and Cretaceous sandstone, the latter of which locally weathers to an unconsolidated sand.
3. Moderately coherent rocks: more resistant than 4 and less easily eroded; capable of maintaining a steep cliff face 150 feet high. Mostly Devonian Hare Indian Formation shale with some thin limestone beds, but includes some Cretaceous siltstone and sandy shale.
4. Incoherent rocks: soft, easily eroded, subject to slumping, mostly Cretaceous shale but includes Devonian Imperial Formation shale. Includes Tertiary shales and poorly consolidated sand, (9% C.E).
- 3,2. Undivided Ramparts Formation limestone and Hare Indian Formation limestone.
- 4,2. Undivided sandstone and shale, either Cretaceous or Devonian Imperial Formation. Either lithology could be encountered at a given point but available data does not permit separation into more meaningful units.



FORT NORMAN
BEDROCK GEOLOGY

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