

## INVENTORY OF AGGREGATE RESOURCES PROGRAM

by

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### INTRODUCTION

The Inventory of Aggregate Resources Program (Kirby *et al.*, 1982) was designed as a reconnaissance level program. The project began in 1975, and to date sampling has been completed within a 6 km wide corridor study area. Information on the aggregate resources is now available along all existing and proposed transportation routes in Newfoundland and Labrador within this corridor (Maps 1 and 2).

The 1982 program was mainly office oriented, centered around the compilation of maps and sample data and the development of a computer package designed for search and retrieval of aggregate resource data.

### OFFICE PROGRAM

Most of the work carried out in 1982 dealt with the compilation of two 1:250,000 scale map series each consisting of 30 maps. A colored map series outlines the areas of aggregate potential plus sample localities, sample types and sample numbers. These maps summarize the zones of aggregate potential depicted on the 1:50,000 scale maps. The colored map series, plus report, is hoped to be released before March, 1983. Another series of 1:250,000 scale maps, the geology series, gives a summary of the bedrock geology with emphasis on the geotechnical aspects of bedrock and will include marginal notes on each map with a unified legend. Draft versions of these maps are ready for final cartography. Work on legends and marginal notes should be completed in 1983.

Work is also being carried out on the production of two sets of 1:50,000

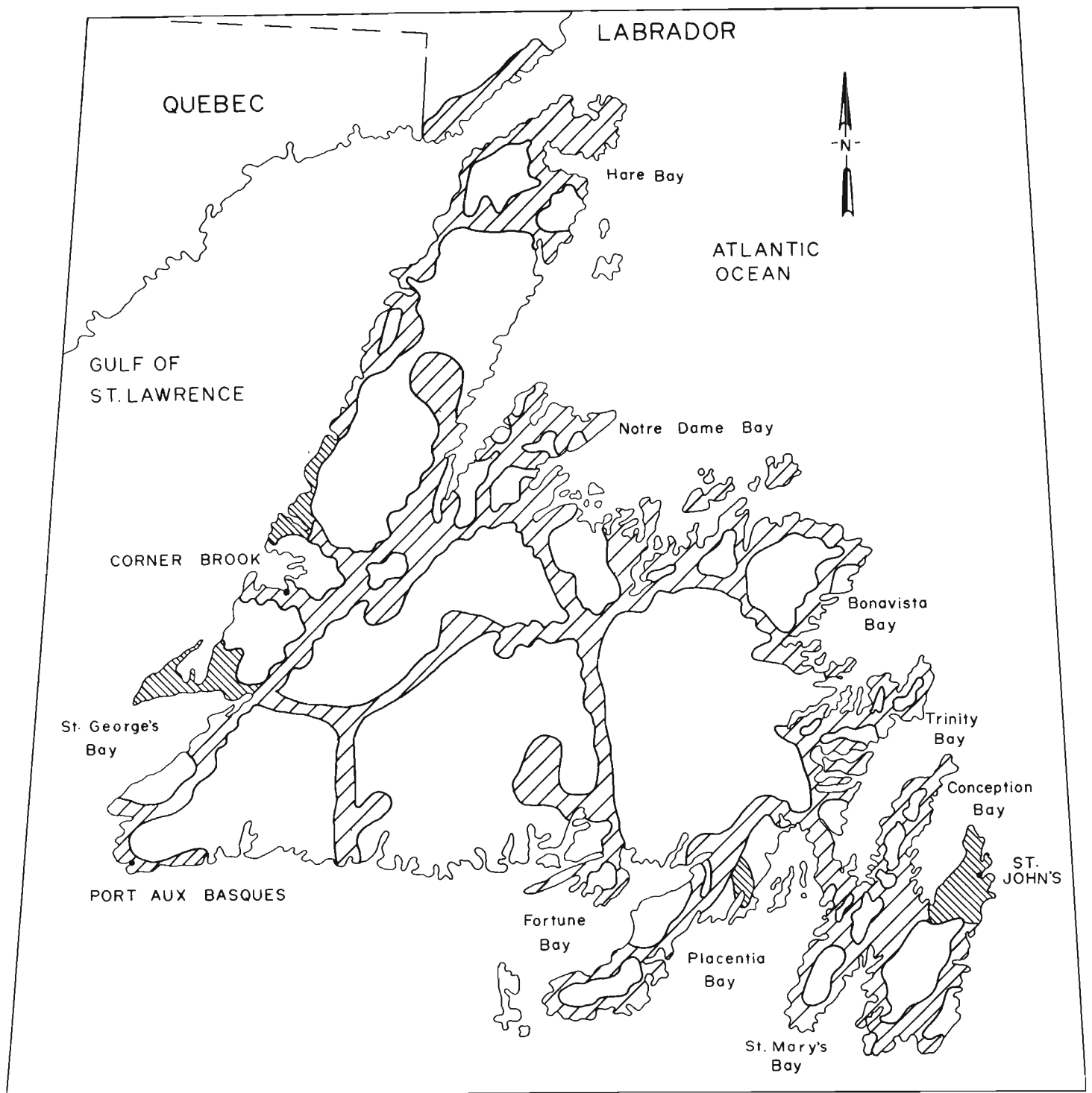
scale maps, consisting of approximately 180 maps each. The first series of maps, depicting sample localities and zones of aggregate potential, has been completed (except for periodic corrections and updates). The second series, the landform classification series, is approximately 75% done and is expected to be completed in 1983.

All field maps and field data (prior to 1982) have been placed on microfiche. Microfiche copies are available for all 1:50,000 scale aggregate resources maps for the island and should be available for Labrador in early 1983.

The implementation of a computer package that was developed to handle the vast amount of data generated over the term of the project met with some delays. However, this system is now ready for production and will allow the easy search and retrieval of data on file, and report the data in an English-like format that is easily understood by the user. A computer programmer has been hired recently to assist in this task and data are now being keyed for editing, storage and retrieval. We hope that 50% of the sample data generated to date (*i.e.*, 5,000 of 10,000 samples) will be on computer file by March, 1983.

### FUTURE PLANS




The 1983 program will be mainly office oriented, with emphasis on the completion of the surficial (landform classification) maps as well as corrections and updates on the computer data base. It is also planned to complete and update microfiche on all aggregate resources maps and to have all coded field forms transferred onto microfiche for storage.

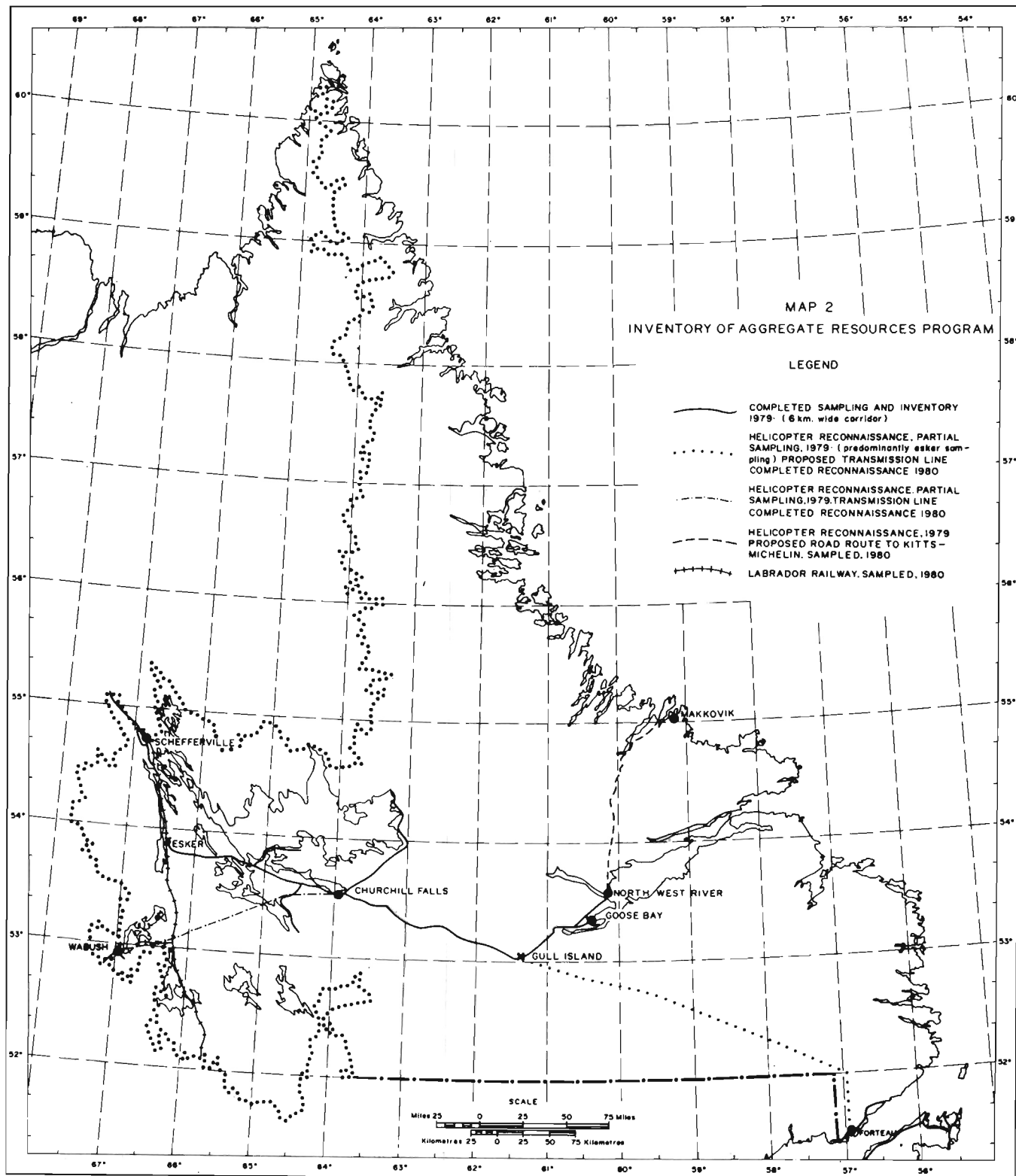


MAP 1

Inventory of Aggregate Resources Program  
Island of Newfoundland  
CANADA/NEWFOUNDLAND MINERAL DEVELOPMENT SUBSIDIARY AGREEMENT  
SUBPROJECT 2.2

Legend

-  Completed 6 km wide corridor sampling parallel to existing roads and highways, and selected development areas.
-  1981 fieldwork including detailed assessments in previously sampled areas.
-  Unsurveyed areas, including Terra Nova National Park.



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In future years, we hope to continue the program outside the corridor area to complete coverage, on a reconnaissance level, for all areas of Newfoundland and Labrador. The main thrust will be to generate surficial geology maps with limited ground truthing and some sampling. Comprehensive sampling and testing as carried out under the current project would be limited to areas of proposed developments (*i.e.*, hydro-electric, new highways, etc.). Under the Coastal Labrador Agreement, funding has been provided to carry out a detailed assessment of aggregate resources of selected coastal areas between Forteau and Cartwright. This project will provide results of aerial photography analyses between December, 1982, and March, 1983, to Municipal Affairs and/or consulting contractors to provide data

preparatory to the release of calls for tenders on municipal servicing projects.

Field work in 1983 along the Mary's Harbour to Lodge Bay Road and in selected communities will be at a level of detail similar to the Detailed Aggregate Assessment Project - Insular Newfoundland (Kirby - this volume).

REFERENCES

Kirby, F.T., Ricketts, R.J. and Vander-veer, D.G.

1982: Inventory of Aggregate Resources. *In* Current Research. *Edited by* C.F. O'Driscoll and R.V. Gibbons. Newfoundland Department of Mines and Energy, Mineral Development Division, Report 82-1, pages 224-227.