

## CORE-STORAGE PROGRAM, 1993

A. Harris and S. Cochrane  
Mineral Lands Division  
Mineral Resource Management Branch

### INTRODUCTION

In 1978, the Newfoundland Department of Mines and Energy began a program of drill-core collection and storage. Initially, three core-storage libraries, having a combined capacity of 260,000 m of core samples, were established at Pasadena, St. John's and Goose Bay. Funding for construction of these libraries was provided under the Canada-Newfoundland Mineral Development Subsidiary Agreement (1977-82) and construction was completed in 1982.

Since 1982, three additional core-storage libraries have been established at Springdale, Buchans and Baie Verte (Figure 1) increasing the combined core-storage capacity to a total of 785,000 m for all six libraries. The core-storage libraries are operated by the Mineral Resource Management Branch of the Department of Mines and Energy and as of November 1993, housed a combined collection of approximately 865,378 m of core samples. Construction of outdoor core-storage racks is ongoing at the Baie Verte and Pasadena buildings to accommodate additional core samples.

### 1993 CORE COLLECTION

During 1993, core samples were collected from thirteen drilling projects.

In total, approximately 13,920.5 m of core samples from 167 drillholes were added to our collections bringing our total collection of core samples in storage up to 865,378 m.

During the 1993 field season, the samples were organized and a listing of the hole numbers and interval data were compiled. All core samples have been catalogued and added to our master index. Table 1 lists the core samples acquired during 1993.

### USING THE CORE LIBRARIES

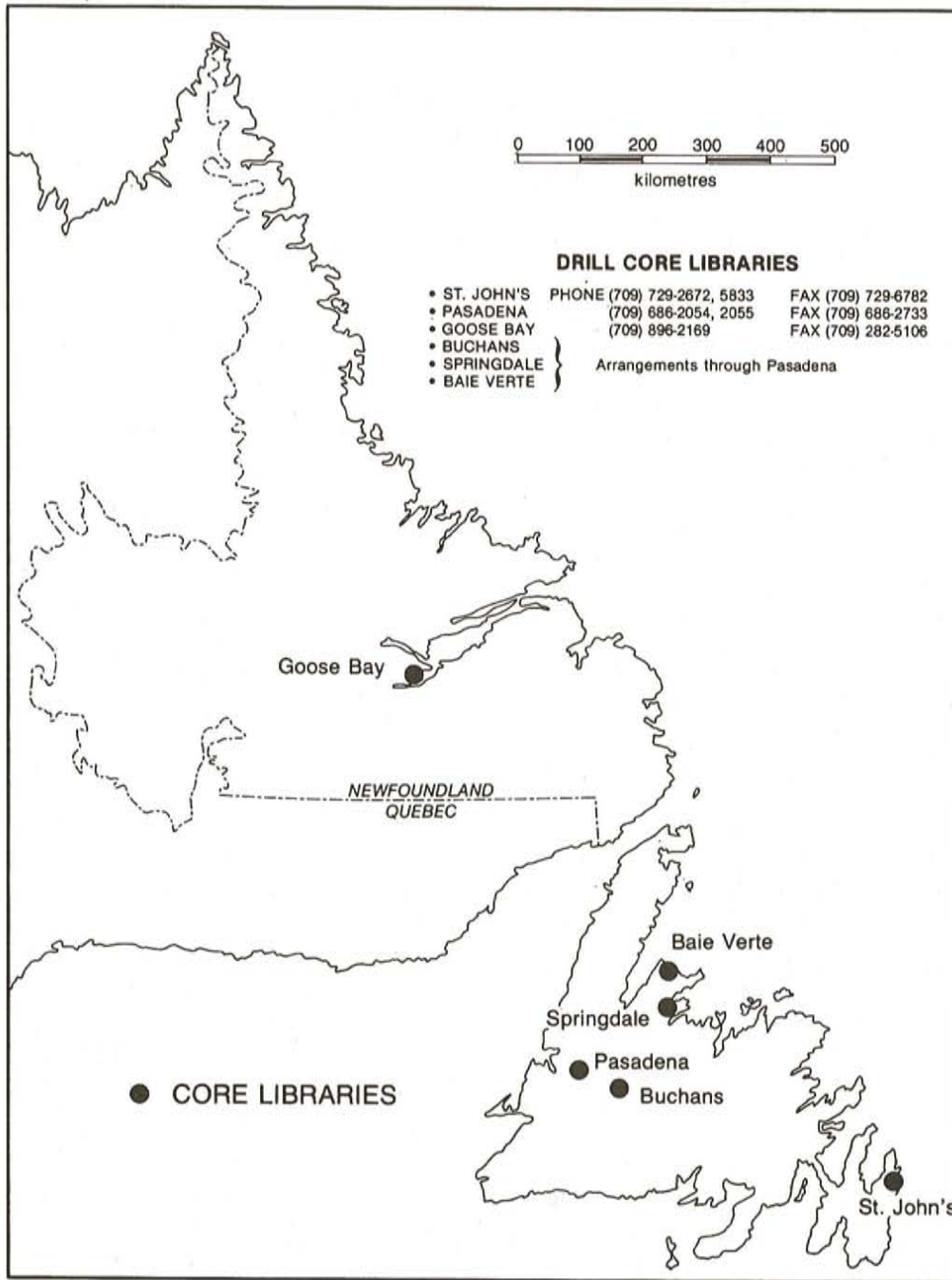
Any person who wishes to visit either of the core libraries for the purpose of examining core samples should provide advance notice to the person in charge of the particular core library. The Pasadena core library is staffed on a full-time basis by one employee and is open to the public during regular government office hours. Advance notice of one day is required in order to properly accommodate visitors to the Pasadena core library. Visitors to the St. John's core library

Table 1. List of core samples acquired during 1993

Company	Property	#Holes	Length (m)
Domtar Inc.	Flat Bay/Fischells	92	3,387.0
Rio Algom			
Exploration Inc.	Gullbridge	4	3,158.9
Nfld Zinc Mines	Daniel's Harbour	2	959.1
Gander River Minerals	Blue Zone	4	628.4
" "	Cripple Creek	4	670.5
" "	Fourth Pond	5	598.7
" "	Glenwood	8	565.7
" "	Muddy Gullies	2	184.0
" "	Third Pond	2	153.3
Brinex	Kitts Deposit	27	2,078.8
" "	Nash Prospect	12	1,030.2
" "	Gear Prospect	5	505.9
	Total	167	13,920.5

should also provide advance notice of one day and advance notice of one week is required to properly accommodate visitors to the Goose Bay core library since it is not staffed on a full-time basis. Visits to the Springdale, Buchans and Baie Verte core libraries require a minimum notice of two days.

The indexing system in all three core libraries is based on the National Topographic System (NTS). Core samples from each drillhole are assigned a unique master number based on the 1:50 000 scale topographic sheet on which the drillhole collar is located. A manual index card file forms the basis of this system in conjunction with a 1:50 000 scale drillhole location map file, which shows the location of all drillholes from which core samples have been catalogued. A completed example of the index card is shown in Appendix I. Each core library also contains a file of all available data, i.e., drillhole logs, cross sections, and assay results for all core samples stored. The company drillhole number and the assessment file in which the drilling was reported are referenced on the index card. The manual index card file and the map index are supplemented by a computerized drillhole index that contains all of the information on the previous two indexes. The computer drillhole index file functions as a permanent master file from which catalogues of all of our



**Figure 1.** Core libraries in Newfoundland and Labrador.

drill-core holdings are updated yearly and printed for distribution at the Department's Annual Review of Activities each November. The file is resident on microcomputers in the Department's St. John's office and in the Pasadena core library where it is available for production of customized indexes.

All six core libraries have core examination areas that contain or share rock-cutting equipment, a core splitter, a stereomicroscope, a magnetic susceptibility meter, a resistivity meter, an ultraviolet light and a McPhar TV-1 scintillometer.

Sampling is generally permitted where doing so does not destroy any lithological sequence or leave gaps in the drillhole record. The smallest size sample that is useful is taken and the minimum amount of core that must be left in each core box is a one quarter size split of the original core. The user must complete a 'Request To Sample Form' (Appendix II) before sampling is permitted. All core samples, pulps, powders, thin sections, and any other materials generated from the core samples must be returned (along with a copy of the results of any work done on the samples) to the core library within one year from the date the samples were taken.



The user shall be responsible for costs incurred in returning samples to the core library.

There are no fees charged for the services provided by the core-storage program, however, patrons making extensive use of the trim saws to sample drill core are required to supply their own blades or replace the blades that are used.

### **FURTHER INFORMATION**

Potential users of the core-storage program should contact the people listed below to arrange visits to the core libraries and to obtain information on the core-storage program.

Project Geologist—Core-Storage Unit (Alvin Harris)  
Department of Mines and Energy  
P.O. Box 8700  
St. John's, Newfoundland  
A1C 5T7  
PHONE: (709) 729-5833 FAX: (709) 729-6782

Core-Storage Geologist (Pasadena) (Stewart Cochrane)  
Department of Mines Energy  
Dr. A.K. Snelgrove Core Library  
Pasadena, Newfoundland  
A0L 1K0  
PHONE: (709) 686-2054, 2055 FAX: (709) 686-2733

APPENDIX I

MASTER NO.: 1L/13 0007 UTM: 584100 5204900 21  
 COMPANY: Nfld. Dept. of Mines & Energy CO. NO.: F-7 DRILLING DATE: 66-12-19  
 MIN NO.: \_\_\_\_\_ PROPERTY: Fortune STATUS: \_\_\_\_\_  
 DATE STORED: 82-02-25 LOG AVAIL: Yes ASSAYS AVAIL: Yes MDD NO.: 1M/4 (87)

CORE STORAGE INDEX CARD

INTERVAL (m)	BOXES	CORE	RACK LOCATION		MISSING INTERVALS (m)	CORE EXAMINATION FREQUENCY													
			FROM	TO		81	82	83	84	85	86	87	88	89					
0-48.76	6	AX	01B04A09	01B04B02	34.13-38.10														
55.77-89.30	4	EX	01B04B03	01B04B06	48.76-55.77														
E.O.H.						90	91	92	93	94	95	96	97	98					

**APPENDIX II**  
**CORE STORAGE UNIT**  
Request to Sample Core

USER NAME: \_\_\_\_\_

COMPANY/AFFILIATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

NATURE OF PROJECT: \_\_\_\_\_

WORK TO BE CONDUCTED

ON SAMPLES: \_\_\_\_\_

DRILL HOLE NOS: \_\_\_\_\_

SAMPLE INTERVALS: \_\_\_\_\_

SIZE AND SHAPE OF SAMPLES: \_\_\_\_\_

REQUEST DENIED/GRANTED (REASON): \_\_\_\_\_

DATE \_\_\_\_\_ CORE STORAGE GEOLOGIST \_\_\_\_\_

**NOTE:** All core samples and/or pulps, powders and thin sections, etc., generated from core samples must be returned to the core library at the end of a previously specified period. A copy of all assays and other analytical work conducted on the samples is also required at the end of this period.

RETURN DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_