

A RECONNAISSANCE SURVEY OF NEWFOUNDLAND CLAY DEPOSITS

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Project 4-8* was initiated in the spring of 1974 (Vanderveer and Harvey, 1975) and the preliminary report released in August 1975 (Vanderveer, 1975). During 1975 further field evaluations and resampling of selected sites (Fig. 1) were conducted (Vanderveer, 1976). Particle size analyses (Fig. 2) and quantitative mineralogical studies (Fig. 3) were conducted (Slatt and Press, 1976) on these samples.

On the basis of the field and laboratory evaluations it has been determined that six sites are satisfactory for commercial clay production (brick or pottery) and an additional six sites have potential for limited production or use. All clays tested, fired to a red or brown color; no white or buff burning clays have been located.

The final report (Vanderveer, in press) is expected to be released in 1977.

REFERENCES

Slatt, R.M. and Press, D.E.

1976: Grain-size and mineralogy of some Newfoundland clay deposits; Unpubl. report, Nfld. Dept. of Mines and Energy, Min. Dev. Div., St. John's.

Vanderveer, D.G. and Harvey, R.

1975: A reconnaissance survey of clay deposits on the Island of Newfoundland; in Report of Activities 1974, Nfld. Dept. of Mines and Energy, Min. Dev. Div., ed. J.M. Fleming; Rept. 75-1, p. 116-119.

Vanderveer, D.G.

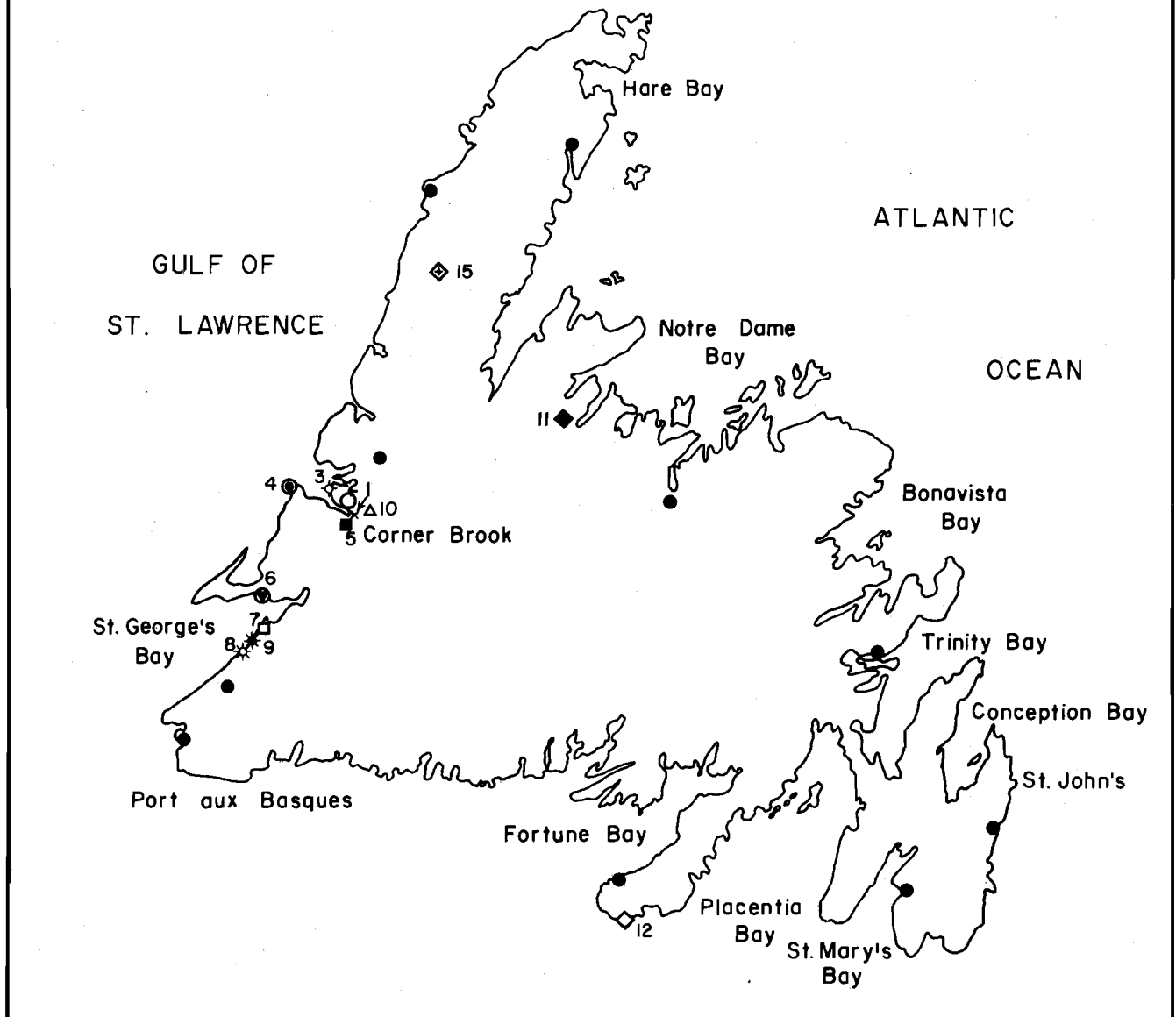
1975: Preliminary report on a reconnaissance survey of Newfoundland clay deposits; Nfld. Dept. of Mines and Energy, Min. Dev. Div., Open File 789.

1976: A reconnaissance survey of Newfoundland clay deposits; in Report of Activities, 1975, Nfld. Dept. of Mines and Energy, Min. Dev. Div., ed. B.A. Greene; Rept. 76-1, p. 90-92.

(in press) Clay deposits of Newfoundland and Labrador; Nfld. Dept. of Mines and Energy, Min. Dev. Div., St. John's.

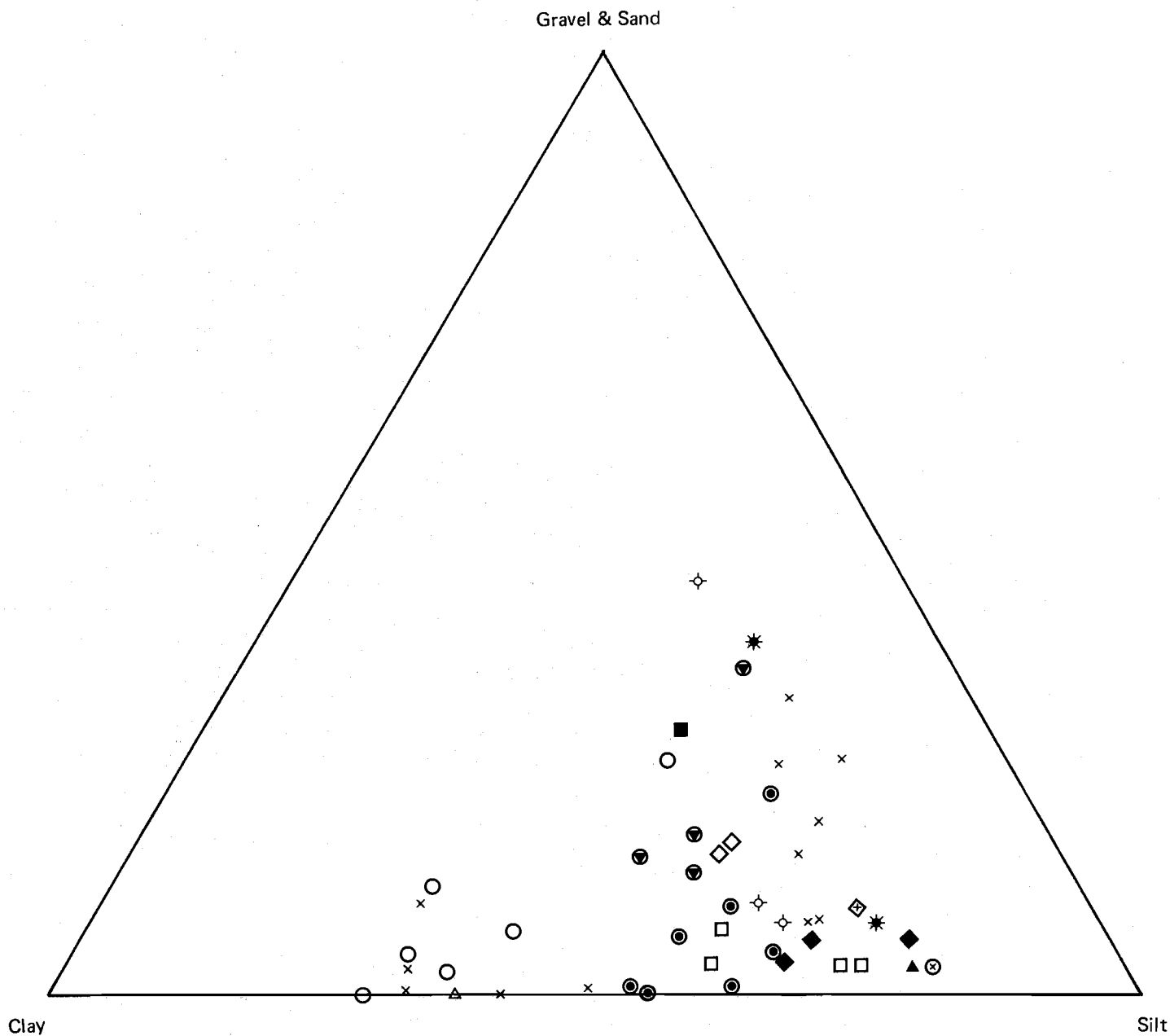
* Project 4-8, Canada Newfoundland Mineral Exploration and Evaluation Program.

NEWFOUNDLAND CLAY DEPOSITS



- | | | |
|----------------|----------------|------------------|
| ✱ Wild Cove | △ Soper's Hill | ✱ Barachois Bk |
| ○ Hughes Brook | ◇ Bellburns | ◆ Springdale |
| ◇ Lower Cove | □ Journois Bk | ◇ Allan's Island |
| ● Little Port | ■ Riverside | ● Other |
| ⊙ Kippens | ★ Youngs Cove | |

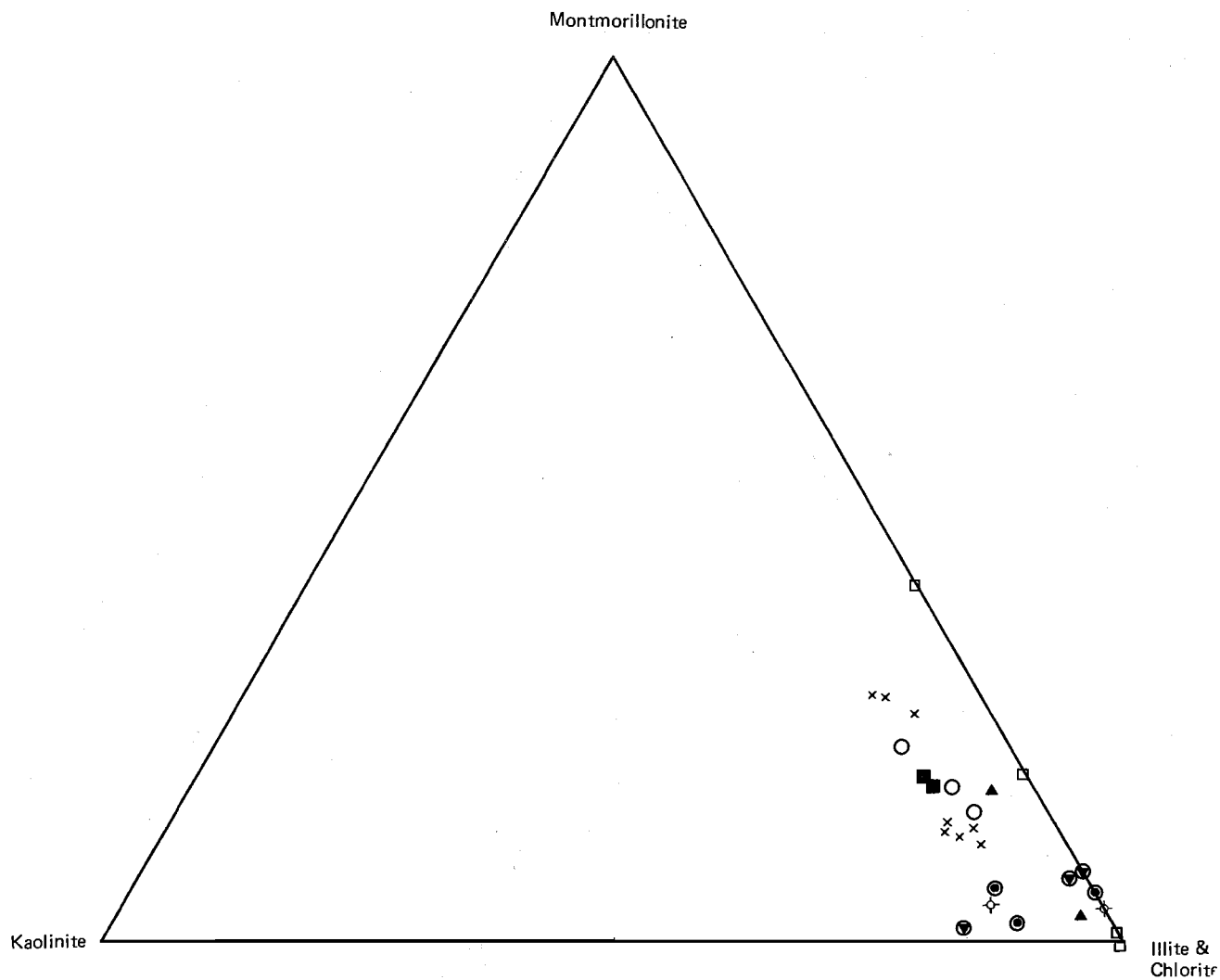
Figure 1.



Ternary Diagram of Newfoundland Clay Particle Sizes

- | | | |
|----------------|----------------|---------------------|
| × Wild Cove | ⊗ Kippens | * Barachois Bk |
| ○ Hughes Brook | △ Soper's Hill | ◆ Springdale |
| ◇ Lower Cove | □ Journois Bk | ◇ Allan's Island |
| ● Little Port | ■ Riverside | ◇ Bellburns |
| ⊙ Kippens | * Youngs Cove | ▲ Pinus River, Lab. |

Figure 2.



Ternary Diagram of Newfoundland Clay Mineralogy

- | | |
|----------------|---------------------|
| x Wild Cove | △ Soper's Hill |
| ○ Hughes Brook | ▲ Pinus River, Lab. |
| ◇ Lower C. | □ Journios Brook |
| ⊙ Little Port | ■ Riverside |
| ⊖ Kippens | |

NOTE: The Young's Cove, Barachois Brook, Springdale, and Allan's Island samples contained 100% Illite and Chlorite and no kaolinite and no montmorillonite.

Figure 3.