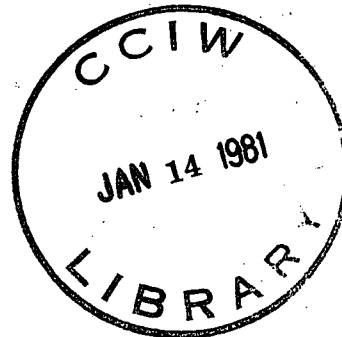## HYDRAULICS DIVISION
Technical Note

C.2

DATE: December 1980   **REPORT NO:**   80-36

TITLE: "Particle Size Data Report No. 80-07"

AUTHOR: G. A. Duncan

REASON FOR REPORT: This report responds to a request for particle size data from Dr. J. Cherry, Department of Earth Sciences, University of Waterloo.

CORRESPONDENCE FILE NO:

2242-1   Letter from Dr. J. Cherry November 28, 1978
           Reply from Division Chief December 14, 1978

1.0 INTRODUCTION

Stephanie O'Hannesin and Dr. J. Cherry, University of Waterloo, submitted 166 samples to the Sedimentology Laboratory for particle size analysis. The samples were analyzed by S. O'Hannesin and the results checked by G. Duncan.

2.0 PROCEDURE

2.1 Settling Tube Procedure

This procedure is used to obtain the size distribution of sand. Sand is released from the top of an Emery settling tube (Emery, 1938) and the amount of accumulation is measured at pretimed intervals. The results are processed with SIZDIST: A Fortran IV computer programme.

3.0 RESULTS

Appendix 1 lists the size analysis results for each sample. The output consists of:

1. A histogram of the frequency distribution.
2. The percentage and cumulative percentage of the material occurring within each 1/2 PHI unit.
3. Moment measures statistics (Krumbein & Pettijohn, 1938).
4. Percentiles.
5. Shepard (1954) and Folk (1968) Ternary Classifications.

4.0 REFERENCES

Folk, R. L., 1968. "Petrology of Sedimentary Rocks." Hemphill Publishing Co., Austin, Texas, 182 p.

Krumbein, W. C. and Pettijohn, F. J., 1938. "Manual of Sedimentary Petrography." Appleton-Century-Croffs, New York, 549 p.

Shepard, F. P., 1954. "Nomenclature Based on Sand-Silt Ratios." Jour. Sed. Petrology, V. 24, pp. 151-158.

APPENDIX 1

(Data on file in Hydraulics Division)