Mr. M. D. Rowswell

Grum 51M

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KERR-AEX JOINT VENTURE

GRUM DEPOSIT

Progress Report

September, 1975

Montreal Engineering Company, Limited

P.O. Box 777, Place Bonaventure

Montreal, Quebec

1 PROGRESS DURING SEPTEMBER

1.1 GENERAL

The geotechnical site investigations for water supply, tailings disposal and the mill site were completed during the month. Jack Mollard was retained to interpret the existing air photos and advise on any problem areas likely to be encountered with all of the developments. The physical model was completed.

1.2 BIOPHYSICAL STUDIES

All field studies were completed in August but the results of the soils and benthic survey tests had not been received and therefore no work was carried out on the biophysical studies during September. The results of the fish analyses were received at the end of the month. The laboratory where the soils are being analysed experienced a serious fire during September. The soils were not damaged and we do not expect any delay in our overall schedule, however, the laboratory have informed us that they will take a little longer than expected.

The physical model has been completed and is presently in our Montreal office being checked for details.

1.3 ENGINEERING

The geotechnical investigation program was completed. Bedrock was not encountered at the Vangorda Creek water supply site and therefore a concrete spillway will have to be provided. Bedrock was encountered at Rose Creek at a depth of 33 feet and it is anticipated that this can be utilized in the design of the diversion works for Rose Creek.

Borrow material appears to be plentiful at both dam sites.

Bedrock was not encountered at the Pelly River water supply site and therefore no expensive excavations are anticipated. Jack Mollard was retained as part of the soils investigations program to interpret the existing air photos and advise on any possible problems that may be encountered. He was also asked to delineate areas of possible granular material for use in mine backfill. He is also to comment on pipeline locations from the Pelly River to the mill site.

Mapping of the various developments was finally arranged with Pacific Survey Corporation in Vancouver. Although the maps had not arrived by month's end they are expected in early October.

At a meeting in Toronto on September 9th MECo. was asked to investigate the possibility of a coal fired power plant to supply power to the site utilizing the coal presently being mined at Carmacks by Cyprus-Anvil. MECo. had considered this form of power initially but had not previously obtained more information because of very long delivery dates for equipment. The latter may still preclude a coal fired power development but will be considered further because of the present unknown timing of the project. An estimate of the coal required for such a plant was forwarded to Kilborn Engineering to enable them to arrive at a cost of the coal delivered to the site.

1.4 REGULATORY ASPECTS

The possibility of holding a public hearing in the near future was raised by the Chairman of the Yukon Water Board. It has been decided that the application for a water license (which necessitates a public hearing) will not be submitted until more definite information is available on the mine itself, probably not until spring or summer, 1976.

1.5 MEETINGS DURING SEPTEMBER

September 9th	A.V. Bell and J. Barter with M.D. Rowswell and Kilborn Engineering in Toronto to discuss the power supply, geotechnical investigations, and the possible public hearing.

2 FUTURE WORK

2.1 WORK DURING OCTOBER

The following items are to be carried out in October:

- Records from the stream gauging will be received and estimates of the flows in Vangorda and Upper Rose Creeks will be made.
- Volume of dam versus dam height curves will be produced for the water supply and tailings dams.
- Cost estimates for the tailings disposal and water supply schemes will be started.
- The report of the biophysical aspects will be started on receipt of the laboratory results.

- The report of the geotechnical soils program will be started.

- Cost estimates and delivery times for power supply will be continued.

- Monitoring of the mine water to continue.

2.2 WORK DURING NOVEMBER

All the various inputs will be collected and compiled and a final report will be produced. It is planned to submit a draft of the final report initially, in order for any comments from Kerr Addison to be included in the Final Report.

John Bate

JB/bk
cc: Mr. M.D. Rowswell
Mr. J. Carrington
Mr. A.V. Bell
Mr. D.R. Nancarrow
Mr. W. Fisher
Mr. F.F. Meth
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