



MEMORANDUM

PA

850-5-X751

CLASSIFICATION

TO
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Dr. W.H. Frost,
Senior Medical Officer,
Medical Services Branch.

YOUR FILE No.
Votre dossier

OUR FILE No.
Notre dossier

FROM
De

Chief, Public Health
Engineering Division.

DATE August 12, 1968.

SUBJECT
Sujet

Arsenic Surveys of Yellowknife Bay, N.W.T.

Attached are two copies of a report dated July 19th, 1968, submitted by Mr. J.W. Grainge, Regional Engineer, Edmonton, and entitled "Arsenic Surveys of Yellowknife Bay and Turbidity Survey of Yellowknife River". The survey periods involved are: March 28th and 29th; March 13th; May 16th and June 20th, 1968.

Water samples collected from areas on the east side of the Channel in the upper section of Yellowknife Bay extending from the mouth of the Yellowknife River to the Narrows, show, for the most part, arsenic levels below the proposed limit of 0.01 mg/l As. In view of these results, Mr. Grainge has suggested that the intake for the new Yellowknife water supply line could be located in the Narrows on the east side of the Channel.

*Similar information
was sent to
Mr K. Stairs
I.A.B.
Engineering
Div.*

Although the data supports Mr. Grainge's suggestion, we still feel that a reasonable margin of safety should be provided by placing the intake in or near the mouth of the Yellowknife River as originally contemplated. The choice of a site will depend not only on water quality characteristics, but on suitable hydraulic conditions which will ensure that current and forecast water supply demands can be accommodated.

It has been suggested by Mr. S. Homulus, Department of Indian Affairs and Northern Development, that a meeting of the Ad Hoc Committee to discuss this report and related matters might be useful. He further proposed that the members be convened sometime during the week of August 26th - 30th. May I have an indication of your feelings in this regard, and, if favourable, of the dates and times preferred.

W.R. Edmonds
W.R. Edmonds, P.Eng.

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