



MTG BA
MEMORANDUM *single*

850-5-X751
CLASSIFICATION

TO
A

Dr. W. H. Frost,
Medical Services Branch,
Room 1042, Brooke Claxton Bldg.

YOUR FILE No.
Votre dossier

OUR FILE No.
Notre dossier

DATE January 2, 1969

FROM
De

Acting Chief,
Public Health Engineering Division.

FOLD

SUBJECT
Sujet

Monitor Program -- Yellowknife Bay, N.W.T.

Attached is a copy of correspondence received from Mr. J. W. Grainge, Regional Engineer, Edmonton, in response to my request for information. This request was made following receipt of the letter from Mr. J. A. MacDonald, Deputy Minister, Indian Affairs & Northern Development, concerning the monitoring program at Yellowknife.

R. E. Tait, P. Eng.

RET:eb
Att.

YTC
KELLER

048210

MEDICAL SERVICES
SUB-REGISTRY

JAN 3 9 43 AM '69

TO: DIRECTOR, MEDICAL SERVICES
FROM: [illegible]
SUBJECT: [illegible]
[illegible text follows]

[illegible text]

[illegible text]

[illegible text]

MEDICAL SERVICES

RECEIVED

Mr. R.E. Tait, A/Chief
Public Health Eng. Division
OTTAWA, Ontario

Edmonton 2, Alberta

Dec. 17, 1968

Sampling for Arsenic Tests
by Public Health Inspector
Yellowknife, N.W.T.

In reply to your telephone call, following is an account of the program of sampling water supplies, and a few other points in the vicinity of Yellowknife, N.W.T. This is entirely separate from the surveys of water in the bay.

The frequency of sampling for arsenic analyses from the three water supplies and other selected places (the number of other points increased during the survey), as specified in my report of 1962, was weekly during the months of May and June, and monthly at other times of the year. The mine inspection staff at Yellowknife did this work faithfully.

During Dr. deVilliers' survey of 1966, the job was turned over to the public health inspector, who submitted a satisfactory number of samples during the survey. The public health inspector was provided with a copy of the report.

Later, we decided to increase the number of samples on account of the concentration of arsenic becoming higher. Attached is a letter from Dr. Brett, dated December 13, 1967, instructing the public health inspector to do so.

Attached is a record of this sampling program from 1966 to the present.

J.W. Grainge, P. Eng.
Regional Engineer

JWG/es
Encls. 2

c.c. Dr. H.B. Brett, Area Director, M.S.D., Edmonton

Mr. Frank Gillis,
Yellowknife Health Centre

150-5-X751 (N3)

Area Director,
MacKenzie Area

December 13, 1967

This memo is further to our telephone conversation today in which we discussed arsenic sampling at the various specified locations in Yellowknife. It is regrettable that a misunderstanding appears to have arisen regarding continuation of this testing on a two-weekly basis, however, it is definitely imperative that such testing be continued until such time as we are officially notified that sufficient sampling has occurred. Would you therefore ensure that the appropriate samples are taken at the specified two-weekly intervals.

ORIGINAL SIGNED BY
H. B. BRETT, M.D.

Area Director

cc: Mr. Grainge

P. H. E. D. EDMONTON	
DEC 14 1967	
A. W. S.	<input checked="" type="checkbox"/>
B. S. D.	<input type="checkbox"/>
C. S. D.	<input checked="" type="checkbox"/>
D. S. D.	<input checked="" type="checkbox"/>
E. W. S.	<input type="checkbox"/>

ARSENIC SURVEY

WATER SAMPLES TAKEN AT YELLOWKNIFE

Date	Water Supplies			Baker at Mouth	Creek above Giant	Latham Is. North at End Bridge	Indian Village Y.R.	Tail. Pond. Eff.
	Giant	Town	Con					
1966								
JAN 17	0.007	0.029	0.024					
FEB 8	0.012	0.022	0.014					
MARCH 23	0.038	0.028	0.030					
29	0.038	0.028	0.030					
APRIL 25	0.046	0.010	0.024					
MAY 10	0.372	0.078	0.064	1.900	1.025			
18	0.237	0.046	0.067	3.310	0.663	0.37		
JUNE 2	0.246	0.156	0.144	3.125	0.625	0.180	0.020	31.6
6	0.091	0.123	0.198	0.702		0.202	0.017	34.05
16	0.161	2.920	0.157	3.125	0.340	0.157	0.018	
20	0.294	0.114	0.111	1.083		0.111	0.022	57.75
27	0.256	0.065	0.059	1.500	0.500	0.072	0.025	40.00
JULY 4	0.058	0.055	0.035	2.50	0.390	0.055	0.001	45.38
11	0.078	0.045	0.036	3.250	0.165	0.050		58.0
15	0.030	0.070	0.068	2.70				42.0
22	0.090	0.044	0.036	4.30	0.150	0.080	0.001	54.0
29	0.044	0.022	0.009	4.850	0.188	0.024	0.007	48.0
AUGUST 1	0.250	0.013	0.012	3.10	0.225	0.017	0.006	48.5
8	0.034	0.018	0.008	7.450	0.010		0.004	38.0
15	0.026	0.019	0.010	10.88	0.110	0.017	0.005	46.5
24	0.080	0.018	0.009	3.55	0.110	0.022	0.004	36.5
29	0.014	0.002	0.007	21.00	0.175	0.002		52.0
SEPT 6	0.039	0.018	0.014	5.125	0.150	0.022	0.005	50.0
12	0.041	0.012	0.006	12.50	0.270	0.028	0.012	37.5
19	0.048	0.029	0.020	12.40	0.200	0.038		58.0
26	0.050	0.031	0.023	5.500	0.068	0.040		47.5
OCT 3	0.052	0.036	0.018	1.75	0.183	0.048	0.006	47.0
11	0.076	0.058	0.064	14.25		2.40	0.009	42.5
17	0.075		0.046	13.80		0.070	0.124	39.5
18		0.068						
19			0.030					
20	0.070*							
21	0.160**							
24	0.052	0.064	0.040	15.9				46.0
NOV 1	0.061	0.033	0.031					
10	0.050	0.043	0.043				0.006	
14	0.051	0.040	0.040				0.010	
21	0.055	0.050	0.050				0.046	
28	0.040	0.048	0.030				0.036	
DEC 5	0.034	0.040	0.030					
12	0.040	0.036	0.036				0.034	
19	0.036	0.046	0.034				0.015	

* TAP IN ROASTER BLDG. #2 DRAIN LINE IN PUMPHOUSE

Date	Water Supplies			Baker at Mouth	Creek above Giant	Latham North End	Island at Bridge	Ind- ian Vill.	Yellow- knife River	Tail- Pond Eff.
	Giant	Town	Con							
1967										
JAN 18	0.058	0.068	0.050					0.042		
23	0.048	0.050	0.050					0.044		
30	0.035	0.056	0.050					0.048		
FEB 13	0.050	0.050	0.034							
16	0.050	0.008	0.040						0.004	
22	0.150	0.043	0.038						0.006	
28	0.162	0.086	0.062					0.042	0.010	
MARCH 6	0.220	0.030	0.114						0.009	
13	0.180	0.034	0.036					0.032	0.005	
20	0.120	0.026	0.124					0.170	<0.001	
APRIL 3	0.166	0.023	0.144					0.120	<0.001	
18	0.154	0.120						0.140	0.001	
10(?)	0.158		0.136						0.006	
26	0.128	0.016	0.122					0.120	N.D.*	
MAY 1	0.112	0.026	0.092					0.080	0.002	
31(?)	0.102	0.126	0.155						<0.001	
25	0.226	0.044	0.155						<0.001	
JUNE 5	0.158	0.030	0.124	0.910	0.150				<0.001	0.010
13	0.140	0.110	0.106						0.002	
30	0.182	0.066	0.098			0.114		0.048	0.012	
JULY 7	0.170	0.012	0.022	1.650		0.082			0.002	61.8
14	0.125	0.038	0.036	5.650			0.126	0.018	0.004	46.0
20	0.094	0.038	0.048	6.250		0.068		0.014	0.008	87.5
DEC 14	0.014	0.010	0.018						0.006	
1968										
JAN 8	0.012	0.020	0.026						0.002	
FEB 12	0.011	0.010	0.002						0.004	
MAY 16	0.142	0.044	0.033						<0.001	
JULY 18	0.011	0.017	0.015		1.070		0.018		N.D.	16.40
OCT 23	0.036	0.016	0.008	1.340		0.008	0.012		<0.002	13.695
NOV. 1	0.006									
4		0.010							<0.001	17.20
17									<0.002	14.00
18	0.004	0.010	0.019							

NOTES:

FEB 13 to APRIL 26 - ADDITIONAL SAMPLES ^{WERE} TAKEN FROM 3 SAMPLE LOCATIONS ON GREAT SLAVE LAKE AND 7 SAMPLES ON YELLOWKNIFE BAY

* NONE DETECTED