



Northern Affairs Program
P.O. Box 100
Frobisher Bay, N.W.T.
XOA 0H0

March 24, 1986

Secretary Manager
Clyde River, N.W.T.

Your file Votre référence

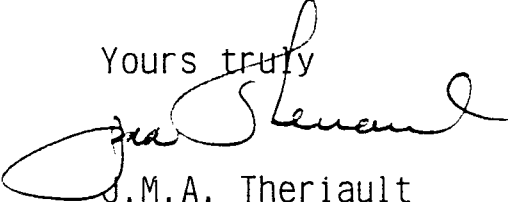
Our file Notre référence B9546-11=CL

Re: Results of Analysis of Water Samples from
Water Supply, Clyde River, September 11, 1985.

Attached is a copy of the analytical results from samples collected from Clyde River's Water lake on September 11, 1985. Based on the parameters measured, the water is of an acceptable quality. I apologize for not sending these results to you earlier.

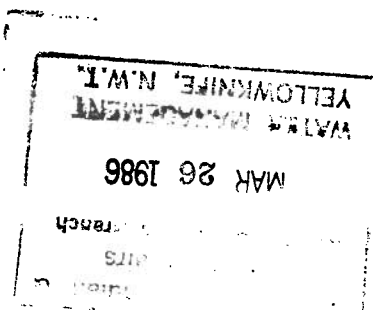
If you have any questions or comments please contact me at 979-4405.

Yours truly


J.M.A. Theriault
District Manager
Baffin District

cc. Water Resources
Local Gov't.
Health & Welfare

✓ CLYDE RIVER
FILE
RS
PB



DEPARTMENT OF INDIAN AFFAIRS AND NORTH DEVELOPMENT
WATER RESOURCES DIVISION, YELLOWKNIFE, NORTHWEST TERRITORIES
RESULTS OF LABORATORY ANALYSIS

LICENSEE/ PROJECT CLYDE RIVER		LICENCE NUMBER		LOCATION FRESHWATER CLYDE R. ER LK	
DATE SAMPLED SEPT. 11/85		DATE RECEIVED SEPT 24.85		DATE COMPLETED DEC. 27/85	
STATION NUMBER	①	①	①		
LABORATORY NUMBER	42596	42597	42598		
ANALYSIS REQUIRED	✓	✓	✓	✓	✓
pH (units)	✓ 4.1				
Conductivity (umho/cm)	✓ 9.				
Dissolved Oxygen					
Turbidity (NTU)	✓ 60.				
Colour (colour U.)	✓ 10				
Suspended Solids	✓ 26.				
TDS, Residue					
Calcium	✓ <1.0				
Magnesium	✓ 0.54				
Tot. Hardness (CaCO ₃)	✓ 4.2				
Tot. Alkalinity (CaCO ₃)	✓ too acid for alkalinity titration				
Sodium	✓ 2.35				
Potassium	✓ 0.6				
Chloride	✓ 3.3				
Sulphate	✓ 2.0				
Total Coliform (count)					
Fecal Coli. (100 ml)					
Fecal Strep. (ml)					
Std. Plate Cnt (cnt/ml)					
BOD ₅					
COD					
Carbon, IC					
Carbon, TOC					
Ammonia Nitrogen (as N)					
Nitrate + Nitrite (as N)					
Total Kjeldahl N					
Phosphorus O-P (as P)					
Phosphorus Tot (P)					
Silica Reac. (as SiO ₂)					
Total Cyanide					
Available Cyanide					
Sulphide					
Oil & Grease					
Phenols					
Arsenic	T (ug/L) ✓ <0.5				
	D (ug/L)				
Cadmium	T (ug/L)			✓ <0.1 +	
	D (ug/L)				
Copper	T (ug/L)			✓ <6.9 +	
	D (ug/L)				
Iron	T (ug/L)			✓ 226. +	
	D (ug/L)				
Lead	T (ug/L)			✓ <1.4 +	
	D (ug/L)				
Mercury	T (ug/L)		✓ 0.100		
	D (ug/L)				
Nickel	T (ug/L)			✓ <10. +	
	D (ug/L)				
Zinc	T (ug/L)			✓ <15. +	
	D (ug/L)				
Chromium	T (ug/L)			✓ <2.4 +	
	D (ug/L)				
				+ TOTAL DEPT	

Results are expressed in mg/L, except as indicated. T and D refer to total and dissolved metals respectively.

FILE NO. DATA

LICENSEE/PROJECT		LICENCE NO.		LOCATION	
DATE SAMPLED		SAMPLED BY		LOCATION	
SEPT 11/05		BRAD KELSO (NHW)		CLYDE KUTLER WATER SUPPLY CK	
ANALYSIS	SAMPLE VOLUME	PRESERVATIVE	STATION NUMBER		
			(1)	(2)	(3)
			42596	42597	42598
MISC. & ARSENIC	1 LITRE	NONE	(1)		
HEAVY METALS	125 ml 500 ml	2 ML 1:1 HNO ₃		(3)	
CYANIDE	500 ML	About 6 pellets NaOH to pH 12			
MERCURY	250 ML	2 ML 1:1 HNO ₃ + 2 ML 5% K ₂ Cr ₂ O ₇		(2)	
NUTRIENTS	250 ML	NONE			
BACTERIA	500 ML	NONE			
OIL AND GREASE	1 LITRE (GLASS)	4 ML 1:1 H ₂ SO ₄			
Time of Sampling			16:00	16:00	16:00
Air Temperature					
Water Temperature					
Rate of Flow					
Ice Thickness					
Depth of Sampling					
pH					
Conductivity					
Dissolved Oxygen					

Samples taken near intake at Freshwater
 Ck. by Brad Kelso of National Health &
 Welfare and turned over to N.A.P.
 Sept 17 for shipment
 Alan Frount

RESULTS OF LABORATORY ANALYSIS

LICENSEE/ PROJECT		LICENCE NUMBER		LOCATION	
Hamlet of Clyde River		N/A		Clyde River, N.W.T.	
DATE SAMPLED		DATE RECEIVED		DATE COMPLETED	
August 19, 1990.		Aug 21/90		Oct 6/90	
STATION NUMBER	MISC- CR-01	MISC- CR-02	MISC- CR-04	BLANK	
LABORATORY NUMBER	900735	900736	900737	900738	
ANALYSIS REQUIRED	✓	✓	✓	✓	✓
pH (units)	✓ 6.58	✓ 7.13	✓ -		
Conductivity (µmho/cm)	✓ 210	✓ 1780	✓ -		
Dissolved Oxygen			No		
Turbidity (NTU)	✓ 1.6		SAMPLE		
Colour (colour U.)	✓ 5				
Suspended Solids	✓ 23	✓ 45	✓ -		
TDS, Residue	✓ 9				
Calcium	✓ 4.0				
Magnesium	✓ 0.5				
Tot. Hardness (CaCO ₃)	✓ 4				
Tot. Alkalinity (CaCO ₃)	✓ 3.0				
Sodium	✓ 2.3				
Potassium	✓ 0.5				
Chloride	✓ 3.9				
Sulphate	✓ 21				
Total Coliform (count)					
Fecal Coli. (100)					
Fecal Strep. (ml)					
Std. Plate Cnt (cnt/ml)					
BOD ₅		✓ 500			
COD					
Carbon, IC					
Carbon, TOC					
Ammonia Nitrogen (as N)	✓ 0.04	✓ 0.06			
Nitrate + Nitrite (as N)					
Total Kjeldahl N					
Phosphorus O-P (as P)					
Phosphorus Tot (P)	✓ 0.005	✓ 17.			
Silica Reac. (as SiO ₂)					
Total Cyanide					
Available Cyanide (WAD)					
Sulphide					
Oil & Grease					
Phenols					
Arsenic	T (µg/L)				
	D (µg/L)				
Cadmium	T (µg/L)	✓ 10.2		✓ 10.2	✓ 10.2
	D (µg/L)				
Copper	T (µg/L)	✓ 2.		✓ 2.	✓ 2.
	D (µg/L)				
	T (µg/L)	✓ 52.		✓ 46.	✓ 15
Iron	D (µg/L)				
Lead	T (µg/L)	✓ 11.		✓ 11.	✓ 11.
	D (µg/L)				
	T (µg/L)	✓ 0.45			
Mercury	D (µg/L)				
Nickel	T (µg/L)	✓ 11.		✓ 11.	✓ 11.
	D (µg/L)				
Zinc	T (µg/L)	✓ 11.		✓ 11.	✓ 11.
	D (µg/L)				
Chromium	T (µg/L)	✓ 11.		✓ 11.	✓ 11.
	D (µg/L)				

Results are expressed in µg/L, except as indicated. T and D refer to
Total & Dissolved Metals

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
WATER RESOURCES DIVISION, YELLOWKNIFE, NORTHWEST TERRITORIES
FIELD SAMPLING AND DATA

LICENSEE/PROJECT <i>Hamlet of Clyde River</i>		LICENCE NO. <i>N/A B9546-5-C97</i>		LOCATION <i>Clyde River, N.W.T.</i>				
DATE SAMPLED <i>August 14, 1990</i>		SAMPLED BY <i>Jessimon</i>						
ANALYSIS	SAMPLE VOLUME	PRESERVATIVE	STATION NUMBER					
			MISC - CR-01	MISC CR-02	MISC CR-04	BLANK		
			BOTTLE NUMBER					
MISC. & ARSENIC	1 LITRE <i>500ml</i>	NONE <i>-(CR-02)</i>	MISC - CR-01	MISC CR-02				
HEAVY METALS	250 500 ML	2 ML 1:1 HNO ₃	"		MISC CR-04	BLANK		
CYANIDE	500 ML	About 6 pellets NaOH to pH 12						
MERCURY	250 ML	2 ML 1:1 HNO ₃ + 2 ML 5% K ₂ Cr ₂ O ₇	"					
TRIENITS	250 ML	NONE	"	"				
BACTERIA	500 ML	NONE						
OIL AND GREASE	1 LITRE (GLASS)	4 ML 1:1 H ₂ SO ₄						
Time of Sampling			1530	1554	1432			
Air Temperature			6°C	6°C	6°C			
Water Temperature			4°C	6°C	9°C			
Rate of Flow			-	-	-			
Ice Thickness			-	-	-			
Depth of Sampling			12cm below surface	surface	surface			
			-	-	-			
Conductivity			-	-	-			
Dissolved Oxygen			-	-	-			
<i>Caution : Sewage !!</i>								
<i>MISC - CR-01 - Water supply Lake - truck pumping site</i>								
<i>MISC - CR-02 - Sewage Effluent below old waste disposal site</i>								
<i>MISC - CR-04 - Runoff below the abandoned solid waste disposal site - 25 m from site in drainage creek.</i>								
<i>BLANK</i>								