

APPENDIX II
LETTER DATED APRIL 7, 1995
FROM HAMLET OF RESOLUTE BAY TO
PUBLIC WORKS AND SERVICES

400 400 1010, # 21 2

A circular black ink stamp. The outer ring contains the text "PUBLIC WORKS & SERVICES" at the top and "IQUALUIT, N.W.T." at the bottom. In the center, the date "APR 10 1995" is stamped, with "Project Division" written below it.

Tabitha Kaliuk
Mayor

**APPENDIX III
EQUIPMENT LIST
(MAJOR COMPONENTS)**

Supply Line New
Heat Trace ~~Cabinet~~

Square D

Class 9991
Type SCG1
Series B enclosure containing:

a) Square D
Class 8910, Type DPA 53
Form Series A
Res Rating 62.5A
600 VAC Max.

b) Hammond
Cat. No. MH50AJ

Supply Line New
Heat Trace
Thermostat

Pyrotenax

Type 4688 WP
Temp. Range 0-50°C

Intake Line Heat
Trace

Square D

Class 8539
Type SCG1
Form C6P2SY76
Series A
Volts 230
Switch marked 30

Square D

CEMA Size 1
Class 8536
Type SC03
Series A

Current
Transformers

Sangamo

Type MV, Form 6
Ratio 200-5
Ins. Class 0.6 kV
R.F. Surcharge 1.5
B.I.L. 10 kV
HI Ratio 0.3 B 0.9
775 x 40

and

Sangamo

Same as above except:
HI Ratio 0.3 B 0.2
130 x 40

"Main Switch"

Square D

Cat. No. LA-400-S
Series T1
Max Amps
Max Volts

400
400 AC
250 DC

Transfer Switch	Simson Maxwell	Model ATS-3300-0 Serial 5033 Amps 300 ACV 120/208	
New Transformer	Square D	Single Phase Insulated Transformer kVA 50 Type 5 Serial No. 4186700-A001 Style No. 13959-15412-001 HV 600 HV Amps 83.3 Hz 60 LV 208 LV Amps 240 WT 340	
Electrical Box Just After Transformer	Square D	Molded Case Circuit Breaker 30 Amp Cat. No. LAL36300 Series 4	
		Volts	Amps
		240	42k
		480	30k
		600	22k
"Splitter Series" (2)	Main	4 Branches Branches 400 Max Amps 600 Max Volts	2-12 2/0-14

Standby Genset

Motor	John Deere	Type 4219DF 01
Generator	Onan	Model 30.0DDA-15R/1337A 3Ph 30kw 37.5 kVA 1Ph 20kw 25 kVA

Boiler

Boiler Modules	Hydrotherm	MO-770A
Circ. Pumps	Armstrong	Model S25 BF
Burners	Riello	Mectron 5M

2. SEWAGE BUILDING

Panelboard J	Square D	Cat. No. QBL-324 Series T2 Panelboard No. 92241 13 x 15 Amp breakers
Building	Coldstream	Model WIDF Serial 7763736

3. WATER TREATMENT PLANT

Pumps

Distribution Pumps	Ebara Pump	Type 125SFM 15 HP Motors	
Chlorine Pumps	Wallace & Tierman	A-747 Serial No.'s LDP-3274 and LDP-3149	
Boiler Circ. Pumps	Armstrong	S25-AB 1/12 HP	
"Main Switch"	Square D	Cat. No. KA-225-S Series T1 Max Amps 225 Max Volts	600 AC 250 DC
		Switch marked 100	
		- Inside panel switch marked KA1 36 100 GF	
"Lighting Panel Switch"	Square D	Cat. No. FA-100-S Series T1 Max Amps 100 Max Volts	600 AC 250 DC
		Switch marked 50	
"Panelboard B"	Square D	Cat. No. QBL-312 3 x 15 Amp breaker 3 x 20 Amp breaker Only one 20 Amp breaker is used. The rest are for abandoned heat trace.	
	Square D	Enclosed Circuit Breaker Cat. No. E-100-NS Series T2 Max Amps 100 Switch marked 30	
Flow Switch in Distribution System	ITT MacDonnell	FS4-3	

Electrical/Instrumentation

Temp. Sensor in Distribution Piping	United Electric	Type C7X Model 102W Range 0-225F
"Lighting Panel"	Square D	QBL - 324 19 x 15 Amp Breakers five open spaces
Main Transfer Switch	Onan	Model LTD 100-50/14746E Serial 1174893663 Volts 120/240 Ph 3 Amps 100 Hours 00723.5
Standby Genset		
Motor	John Deere	Type 4219DF 01 Serial No. 331797 T
Generator	Onan	Model 30.0 DDA-15R/12974A Serial No. 1174893581

**APPENDIX IV
WATER QUALITY TEST RESULTS
1992 AND 1993 WATER LICENSE
INSPECTION REPORTS**

RESULTS OF LABORATORY ANALYSIS

LICENSEE/ PROJECT Hamlet of Resolute Bay		LICENCE NUMBER N4L4-11-1		LOCATION Resolute Bay	
DATE SAMPLED 17 July 92		DATE RECEIVED July 25/92		DATE COMPLETED Aug 15/92	
STATION NUMBER	1571-01	1571-02	1571-03	1571-04	
LABORATORY NUMBER	720702	920703	920704	920705	
ANALYSIS REQUIRED	✓	✓	✓	✓	✓
pH (units)	✓ 7.70	✓ 8.08	✓ 7.20	✓ 7.39	July 27/92 ML
Conductivity (umho/cm)	✓ 280	✓ 280	✓ 250	✓ 420	July 27/92 ML
Dissolved Oxygen	✓ 1.4	✓ 2.1	July 29/92 ML		
Turbidity (NTU)	✓ 25	✓ 25	July 29/92 ML		
Colour (colour U.)	✓ 13	✓ 13	✓ 27	✓ 26	July 31/92 ML
Suspended Solids	✓ 167	✓ 169	July 31/92 ML		
TDS, Residue	✓ 37.7	✓ 40.0			
Calcium	✓ 6.3	✓ 6.5	Aug 10/92 ML		
Magnesium	✓ 120	✓ 127			
Tot. Hardness (CaCO ₃)	✓ 56	✓ 114			July 28/92 ML
Tot. Alkalinity (CaCO ₃)	✓ 11.6	✓ 12.3			
Sodium	✓ 1.2	✓ 1.3			
Potassium	✓ 15.0	✓ 16.0			
Chloride	✓ 16	✓ 17			
Sulphate					
Total Coliform (count)					
Fecal Coli. (100)					
Fecal Strep. (ml)					
Std. Plate Cnt. (cnt/ml)					
BOD ₅					
COD					
Carbon, IC					
Carbon, TOC					
Ammonia Nitrogen (as N)	✓ 0.01	✓ 0.01	✓ 0.01	✓ 0.01	July 29/92 ML
Nitrate + Nitrite (N)					
Total Kjeldahl N					
Phosphorus O-P (as P)	✓ 0.008	✓ 0.003	✓ 1.30	✓ 0.691	July 30/92 ML
Phosphorus Tot (P)					
Silica Reac. (as SiO ₂)					
Total Cyanide					
Available Cyanide (WAD)					
Sulphide					
Oil & Grease					
Phenols					
Arsenic	T (ug/L)				
	D (ug/L)				
Cadmium	T (ug/L)	✓ 0.6	✓ 0.2		Aug 4/92 ML
	D (ug/L)				
Copper	T (ug/L)	✓ 15	✓ 64		"
	D (ug/L)				
Iron	T (ug/L)	✓ 994	✓ 34		
	D (ug/L)				
Lead	T (ug/L)	✓ 45	✓ 1		
	D (ug/L)				
Mercury	T (ug/L)	✓ 0.06			Aug 6 ML
	D (ug/L)				
Nickel	T (ug/L)	✓ 1	✓ 1		Aug 4/92 ML
	D (ug/L)				
Zinc	T (ug/L)	✓ 123	✓ 32		"
	D (ug/L)				
Chromium	T (ug/L)	✓ 3	✓ 2		"
	D (ug/L)				

Results are expressed in ug/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 Hamlet of Resolute Bay		LICENCE NO. N4L4-1571		LOCATION Resolute Bay, NWT	
DATE SAMPLED 17 July 92		SAMPLED BY Paul Smith			

ANALYSIS	SAMPLE VOLUME	PRESERVATIVE	STATION NUMBER					
			(1)	(2)	(3)	(4)	(5)	(6)
			1571-1	1571-2	1571-3	1571-4		
BOTTLE NUMBER								
MISC. & ARSENIC	1 LITRE	NONE	1571-1	1571-2	1571-3	1571-4		
HEAVY METALS	250 500 ML	3.5 ml 3:5:1 HNO ₃ 2 ML 1:1 HNO 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	"	"				
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			19:25	19:00	19:10	19:15		
Air Temperature			4°C	4°C	4°C	4°C		
Water Temperature			0.5°C	0.5°C	—	—		
Rate of Flow			—	tap	—	—		
Ice Thickness			—	—	—	—		
Depth of Sampling			0.1m	—	Surface	Surface		
pH								
Conductivity								
Dissolved Oxygen								

1571-01 Char Lake Wet Well

1571-02 Water Treatment Plant, post-treatment

1571-03 Final Sewage Discharge into Resolute Bay

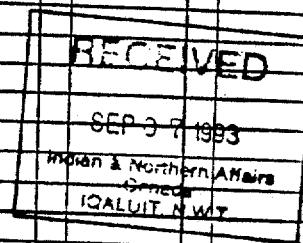
1571-04 Resolute Bay 10m down current of final
discharge pipe. West East side. Shallow

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

RESULTS OF LABORATORY ANALYSIS

LICENSEE/ PROJECT <i>Hamlet of Resolute Bay</i>		LICENCE NUMBER <i>N4L4-1571</i>		LOCATION <i>Resolute Bay</i>	
DATE SAMPLED <i>28 June 93</i>		DATE RECEIVED <i>July 7/93</i>		DATE COMPLETED	

STATION NUMBER	1571-01	1571-02	1571-03			
LABORATORY NUMBER	930659	930660	930661			
ANALYSIS REQUIRED	✓	✓	✓	✓	✓	✓
pH (units)	✓ 8.04	✓ 8.00	✓ 7.24	✓	✓	✓
Conductivity (umho/cm)	✓ 267	✓ 269	✓ 304	✓	✓	✓
Dissolved Oxygen						
Turbidity (NTU)	✓ 1.1	✓ 1.3	✓ 15			
Colour (colour U.)	✓ 25	✓ 25				
Suspended Solids	✓ 15	✓ 13	✓ 19			
TDS, Residue	✓ 145	✓ 138				
Calcium	✓ 38.8	✓ 34.8				
Magnesium	✓ 5.8	✓ 5.8				
Tot. Hardness (CaCO ₃)	✓ 111	✓ 111				
Tot. Alkalinity (CaCO ₃)	✓ 101	✓ 101				
Sodium	✓ 9.20	✓ 9.5				
Potassium	✓ 2.0	✓ 1.1				
Chloride	✓ 12.6	✓ 13.1				
Sulphate	✓ 16	✓ 16				
Total Coliform/count/						
Fecal Coli. (100)						
Fecal Strep. (ml)						
Std. Plate Cnt (cnt/ml)						
BOD ₅						
COD						
Carbon, IC						
Carbon, TOC						
Ammonia Nitrogen (as N)						
Nitrate + Nitrite (N)	✓ 20.008	✓ 20.008	✓ 1.26			
Total Kjeldahl N						
Phosphorus O-P (as P)	✓ 0.033	✓ 0.030	✓ 1.12			
Phosphorus Tot (P)						
Silica React. (as SiO ₂)						
Total Cyanide						
Available Cyanide						
Sulphide						
Oil & Grease						
Phenols						
Arsenic	T (ug/L) ✓ 0.3	✓ 0.3				
	D (ug/L)					
Cadmium	T (ug/L) ✓ 0.1	✓ 0.1				
	D (ug/L)					
Copper	T (ug/L) ✓ 1	✓ 17				
	D (ug/L)					
Iron	T (ug/L) ✓ 44	✓ 53				
	D (ug/L)					
Lead	T (ug/L) ✓ 0.7	✓ 0.7				
	D (ug/L)					
Mercury	T (ug/L)	✓				
	D (ug/L)					
Nickel	T (ug/L) ✓ 1	✓ 1				
	D (ug/L)					
Zinc	T (ug/L) ✓ 4	✓ 23				
	D (ug/L)					
Chromium	T (ug/L) ✓ 1	✓ 2				
	D (ug/L)					



Results are expressed in ug/L, except as indicated. T and D refer to