Commence of the second of the

Water Licence Application
Supplementary Questionnaire
for Municipalities

APPENDIX 1 - MODIFICATION
TO NOTE SUPPLY (MAT)

_		
		A T
6	1.H NH K	Δ.
I.	GENER	~1.

П.

1.	Date:	REPORT 25 1997
2.	Applicant:	PELLY BAY
		Municipality
3.	Contacts:	MARKA LIMOUSIN
		Name of Contact
		SENIOR ADMINISTRATIVE OFFICER
		Position
		402-769-6281
		Telephone #
		402-769-6069
		Fax #
4.	Municipal St	tatus: 🗆 Village 🗀 Town
	-	☐ Hamlet ☐ Settlement Corporation
5.	Is this a?	
	🖾 New Appl	ication
		► Water Licence #
	_ Renewar	Water Electrice if
AT.	TACHMENTS	
		2
1.	Attach(up- to-	date detailed map(s) showing the locations of the: ONLY DWG OF THE W/
	√a. water i	ntake; FIG3, FIG7 (OVERAL SITE PLAN), FIG B (CONTROURS)
	b. water s	torage and treatment facilities; F1G 4, 5, 6,
		d chemical storage; FI4 9
		treatment facilities (lagoon, honey bag pit, wetland); response
		ater treatment area and discharge outlets; FIG 10
		aste disposal areas and drainage patterns; FIG 12 - BULLI OF CON TLO
	g. hazardo	ous waste disposal area; NONE
		roads; WATER SUPPLY RUAD PROFILE FIG 13 PRINT TO FIG 10+12 ALSO
Spring Strike La	—-i. existing	water bodies/courses and any changes to these water bodies/courses that have or may
811 18	occur a	s a result of water use or waste disposal facilities, locations of environmental monitoring
	sites. (	Outline drainage basin); FIG IS 150 (TRAINAGE BASIA)
	j. Areas à	Outline drainage basin); FIG 15 15a (TRAINAGE BASIN) round the community used for recreation, camping, fishing, etc. FIG 12a
	k. abandoi	ned and/or restored water treatment, sewage, and solid waste disposal facilities.

•		Are maps attached If no, please indic					
		Who has provided	• •	•	ofile (1927	. GCC DILLON	1 512. 2
		W	ATER SUPPLY	PULLDING LA	40UT (1957	) GCG DILLON	FIG4-7
ш.	WAT	PELLY BAY, U TER SUPPLY	PSTREAM KU:	BAJUK, RIVE ENGINEERS E	R WATER SUPE PLANNERS	PLY SOURCE (198 FILA 85 :	BG) DILLON,
	Wate	r Source					
	1.	Type of source:	☐ Lake	□ River	□ Well	Other	
	2.	Name of water so	arce and alternat	ive, if any.	UNTRE ATET	D PRECHUATE	- 500 ECE
			HUK RIVER		DURING SPR		INTERMITTENT
		Primary So			Secondary S	ource G	BALCI SOURCE
	3.	Fire その Usual break-up & 1	IPCE! NONE		EAO	LUY DOTOBER	SEE FIG 17a
		•	<b>, ,</b>	Break-up	Freez		
	Water	Storage					
	1.	Type of water stora	ge facility. (che	ck where applic	able)		
	•	☐ Reservoir/Pond		orage tank	⊠ No	one	
		Other					
		Desc	cription				
	2.	If "reservoir" check	ted: N/A				
		Is the reservoir line	r	)			
		What type of liner?	N/A	When was	it installed?	J/A	
	Water	Treatment				<del></del> ,	
	1.	What is the quality	of the water, and	l provide/water	quality results.		
		Summer:	☐ good	🗖 fair	. 💹 poć	or	
		Fall:	$\square$ good	🗆 fair	· 🔯 pod	or	
		Winter:	□ good —	☐ faiı	poo	Or	
		Spring:	□ good	☐ fair	poc 🗵 poc	or	
				- AESTHICAL	4. color,-	TRADITIONIACCY	WATER QUALITY
						J POOR FORCE FRESHWATER	NG RESIDENTS
. ***							ufent etream

3 PROBLEMS W/ SALT NATER INTRUSION OCTORER TO TUNE.

Descri				
			REFER TO DATE DEDUC	
	APPENDIX 1			
3.	Type of water treatment.			
	☐ Filtration and chlorina	tion		
	Chlorination only PR	UNDARY SCHROL		
	Mone Secondance S	Lostere		
	☐ Other	· · · · · · · · · · · · · · · · · · ·		
		Description		
	Use And Distribution Volume of water use:			
	Distribution	Estimated number of people on the system	Estimated average water consumption (Litres/capita/day)	Total water consumption (Litres/day)
		A	<b>B</b>	(======================================
				A x B
	PIPED	N/A	NIA	11/A
	TRUCKED	4510	190 L/c/d	1675300044
			TOTAL	70

from Study claimed BIN AREM 1986

## General Condition of the water supply facilities

- General condition of the:
  - a. Water supply facility

    Satisfactory \( \text{\text{Unsatisfactory}} \)

    If unsatisfactory, explain.

    SAUT UNATTR INTRUSION PROLITION THE EVERUPE FROM CTUDY DATED 1986

    FO T AND ADDRESS OF SAUT WEITR INTRUSION ALRAY (Apperdix)

    ADDITIONAL CONCERNS: DEW UNE LAKE ONE OF 3 RUCKE ON MIGHTAL EDRIFFE ENDIN

    Storage facility

    Concerns with possible FEE contamination and solid waste

    Satisfactory \( \text{\text{Unsatisfactory}} \)

    If unsatisfactory, explain.

    NOUT IN PARE CONCERNS W/ UACK OF WATER DEPOLLY AUDITABLE

    AS FIRE PROTECTION REQUIREMENTS

	c.	Distribution system  Satisfactory Unsatisfactory				
		If unsatisfactory, explain.				
		SHOULD INTERSOON PROPERTIES BE-DECUR COMMUNITY FORCES TO INSTALL				
		FLOATING INTAKE ON ICE OF KUGUSAK RIVER TIMELY AND EXPENSIVE PROCESS FOR FILLING TRUCKS LACK OF TREATMENT AS TOUCKS CHLORINATED INDIVINUA				
Mod	lification	SOMETHIES UNDER SEVERE WEATHER CONDITIONS TREATMENT NOT DONE.				
1.	Are t	here any changes planned for the water supply system?  O X Yes				
	If yes	s, please attach a copy of the plan, or describe changes. Provide information on the implementation lule.				
	<u>P3</u>	ECENT CHANGES TO INTAKE LINE! LINE RAISE 54				
	WIT	HIN THE FRESHMATER ZONE PEFER TO APPENDIX 1- 1997 MODIFICATIONS				
	<u> 20</u>	TE ! COSTS FOR MUCIFICATION & 12000 BORT SOLELY BU HAMLET				
2.		hanges needed to the water supply, storage or treatment facilities? Describe.				
		SCIBLLY TO INTAKE SHOULD RECENT MODIFICATION FAIL TO SOLVE				
		INTRUSION PROBLEMS - STEROGE FOR FIRE OPOTECTION				
		RUSION ALARM REQUIRETS				
Ideni	tification					
	Are th	nere signs identifying drinking water sources presently used by the municipality?				
		Yes				
IV.	SEW	AGE DISPOSAL				
1.	What	type(s) of sewage treatment is used?				
	🛛 La					
	□ Me	chanical system				
	□we					
	☐ Ho	ney bag				
	☐ Cor	mbination/Other: describe				

	☑ Yes ☐ No If yes, describe
	DAKE PAILURE IN TUNE 1997 DEPAIRS MANE, NO FURTHER DREVENTATIVE IMPROVEMENTS MADE, CREPERTO APPENION 3)
echa	nical System (if applicable)  Describe (type, specifications, operation and maintenance program for the mechanical wastewater treatment system).
	Are sludges produced?  ☐ Yes ☐ No  If yes, describe how the sludges are disposed of:  N A
	d(if applicable) Describe the Wetland wastewater treatment system.  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
-	
]	Bag Pit  Does the municipality use a honey bag pit?  ☐ Yes ☑ No
	If yes, describe the location, drainage, and operation/maintenance of the site: $N/\Delta$

Com	ımerci	al, Industrial and/or Hazardous Wastes
1.	Are was mut	there any sources of commercial or industrial liquid waste being discharged or deposited to the stewater treatment system that may affect the quality of the effluent or leachate produced? (The nicipality should be aware that any commercial or industrial discharge has to be approved by the nicipality)
	[≱]	Yes □ No
	If y	es, indicate sources, types and quantities.
		HOUSEHOUR CLEANETS PERSONAL CARE PROCESSES MILLIMAL ANDONES
Sewa	ige Dis	scharge
1.		fish, shell fish and other wildlife harvested in or near the discharge area?
		Ces □ No
	If y	es, indicate species harvested, and level of harvest.
4	R	efer to paule to
Gene	ral Ca	ndition of the sewage treatment facilities
1.		eral condition of the:
	a.	Sewage collection system
		🗵 Satisfactory 🔲 Unsatisfactory
		If unsatisfactory, explain.
	b.	Discharge control system
	D.	☐ Satisfactory ☐ Unsatisfactory
		If unsatisfactory, explain. COMMENT
		TREATMENT APPEARS GOOD FROM APPEARANCE OF EFFLUENT, GEAR WITHING SOOD OF DISCHARGE POINT (APPENLIY 2)
		The contract of the contract o
	C.	Dams, diversion dykes, berms
		☐ Satisfactory ☐ Unsatisfactory

	If unsatisfactory, explain.
	THE FORTHER TUNE TOKE REFER TO ADDENOUN E HARA FORM
	PEPORT
Mo	difications
1.	Are there any changes planned in the sewage treatment facilities?  No Pyes  If yes, please attach a copy of the plan, or describe changes. Provide information on the implementation schedule.
2.	Does the municipality or residents believe changes are needed to the sewage treatment facilities?
	Describe.
Aba	ndonment and Restoration
1.	List and describe abandoned or restored sewage treatment facilities.  Indicate their location on a map.
	N/A
Iden	tification
	Are there signs identifying past and present sewage disposal sites?  ☒ No ☐ Yes
v.	SOLID WASTE DISPOSAL FOR CARCING WINDE WESTERLY
1.	Briefly describe how solid wastes are collected and delivered to the disposal area.  GEBRGE COLLECTED REGULARLY ( / WEEK) BY HAVIET FOR FEE. PRIVATE FORME
	OWNERS DIEFOSE OF WASTE INDIVIOUALLY CHANGE TO BYLAW PROPOSED TO ENSURE CONTROLLED DISPOSAL AND ORGANIZATION AT DUMP SITE. TRUCKS DRANSPORT GARBAGE TO DISPOSAL AREA
2.	Is the solid waste site fenced? □ Yes ☒ No
3.	Is the fence adequate? ☐ Yes ☐ No
	If no, describe
	12 let

	Does the municipality burn garbage?
	⊠ Yes □ No
	If yes, describe how and when this is done.
	COMMUNITY BURNED WASTES UNTIL ADVICED BY ENVIRONMENTAL HEALTH OFFICER. TO DISCONTINUE BURNING IN 1996,
	COMMUNITY REQUIRES DIRECTION FROM NWB, GIVEN LIMITER GRANULAR MAT'L TO COVER
	LACK OF FINDING FROM MACA TO OBTAIN ADDITIONAL SOURCE COUER MATIL. EXTREME
	Has the municipality considered measures for waste reduction such as recycling or reuse? RESTRICTION  Yes \( \text{No} \)  No  \[ \text{No} \( \text{CONCOMMUNITY} \)  \[ \text{CONCOMMUNITY} \)  \[ \text{CONCOMMUNITY} \)  \[ \text{CONCOMMUNITY} \)
	If yes, describe Of SITE, REFER TO APPENDIX 2.
	WASTE OIL FURNACE BEING INSTALLED AT LAMET CARAGE
i	mal Carcasses Pit
	Does the municipality have an area for the disposal of animal carcasses?  ☐ Yes ☒ No
	If yes, describe the location, drainage and operation/maintenance of the site
/A	ky Scrap Metal Waste Disposal Area
ľk	Does the municipality have a scrap metal or bulky waste disposal area?
IR	Does the municipality have a scrap metal or bulky waste disposal area?  X Yes □ No
IR	Does the municipality have a scrap metal or bulky waste disposal area?  Yes \sum No  If yes, briefly describe its location and operation plan-
IK	Does the municipality have a scrap metal or bulky waste disposal area?  Yes No  If yes, briefly describe its location and operation plan-  REFER TO FIGO PLANS TO BECLAME A FORTION OF THE SITE BY DIVIDING
· IR	Does the municipality have a scrap metal or bulky waste disposal area?  Yes No If yes, briefly describe its location and operation plan-  REPER TO FIGO PLANS TO BECLAME A PORTION OF THE SITE BY DIVIDING  SITE INTO CEUS AND DIGGING PIT AND COUERING WASTE. CONSIDERATIONS
	Does the municipality have a scrap metal or bulky waste disposal area?  Yes No  If yes, briefly describe its location and operation plan-  REFER TO FIGO PLANS TO BECLAME A FORTION OF THE SITE BY DIVIDING

	If ye	TE OIL - STOLET AT SOME WASTE SITE SECREGATED AND PACIFICED, HAM ET  PRUSING OIL IN WASTE ON FURNACE AT HAM ET GRAFAGE  RELE - COLECTED AND THEFT FOR HAMLET UNITE ACCESTANCE OF DISPOSAL  CAN BE DETERMINED
2.	Will □ Y	the municipality use a hazardous waste disposal area?   MNKNOWN ALCOUNTS OF PRODUCTS / PAINT /SOLUENTS  s, describe its:
	a. 	Location
	b.	Structure
	c.	Operation and maintenance (describe special handling/disposal methods for these wastes)
<i>Gener</i> l.		dition of the Solid Waste Disposal Area ral condition of the:
	a.	Solid waste disposal area  Satisfactory Unsatisfactory  If unsatisfactory, explain.
<b>Modifi</b> 1.	☐ No	ere any changes planned for the solid waste disposal area?  [X] Yes attach a copy of the plan, or describe changes. Provide information on the implementation
	Plan	AME IN PREVAIUNG WIND DIRECTION REFER TO FIGURE 12

Are changes needed to the solid waste disposal area? Describe.
donment and Restoration  List and describe abandoned or restored solid waste facilities.  Indicate their location on a map.  REFER TO FIG. 12a OR COMMENTS FOR EXILLY METAL WASTES
ification  Are there signs identifying past and present solid waste disposal sites?  ☑ No ☐ Yes
INSPECTION AND MONITORING
When were municipal facilities inspected by:    Indian and Northern Affairs Inspector   Date:   August 16/1997   Faul Smith Appendix     Municipal and Community Affairs   Date:   SEPT 30/1997   Kojo Kumi     Other:   NWB SITE VISIT   Date:   OCTOBER 17 1997     FRANK THAKOMAK, DIONNE FILIATRALLT
Is there a system in place for reporting spills?  U Yes U No  Spill for UNE 403-920-8130  If yes, describe.
Is there a contingency plan for clean up of spills?  ☐ Yes ☐ No If yes, describe.
Have any spills occurred in the past five years? One can be spills. What action has been taken to clean the

Are any changes planned in the water quality monitoring program?

e.

☐ Yes ☐ No

	If yes, descri	be.
VII.	PUBLIC CO	DNCERNS
1. O 54	What concern waste disposathose concern	ns does the municipality or residents have regarding the municipal water supply or all facilities? List the concerns and describe what steps have been taken to address as.  RUSION - INTAKE RAISETS
@ c	ONTANINATION	N OMETO WELINE SITE
(4) F	REQUIREMENT	- RECOMMENDATION OF EHOTOBOIL WETER THE TO CRYPTOPORIDIUM!
<u>(5)</u>	REDUCE WIND	BLOWN DEBRIS - FENCING PURCLESED
	ack of 510e4	AGE FOR FIRE PREVENTION
<u> </u>	<del></del>	
VIII.	PUBLIC HE	ALTH (To be filled by the Regional Environmental Health Officer)
1.	Date:	
2.	Municipality:	
3.	Contact:	
J.	Contact.	Environmental Health Officer Contact
		Telephone #
		Fax #
4.	Have there bed  ☐ Yes ☐ No  If yes, describ	en any problems or health/environmental concerns with drinking water?
Res	commendati	ON OF ENVIRONMENTAL HEALTH OFFICER TO FOIL WATER DUT
	CRYPTO SPOR	,

5. Have there been any problems or health/environmental concerns with sewage disposal/treatment?

	☐ Yes ☒ No				
	If yes, describe				
6.	Have there been any problems or health/environmental concerns with solid waste disposal?				
	☐ Yes ☐ No If yes, describe				
Mon	sitoring Program				
1.	Does the Regional Health Board perform water quality sampling?				
	☐ No ☐ If Yes, answer questions (a) to (e)				
a.	Briefly describe the sampling methodology.				
b.	Briefly describe any monitoring of wastewater effluent and leachate.				
c.	Who is responsible for sampling?				
	Name				
	Position				
	Telephone #				
	Fax #				
	Level of training				

<b>.</b> .	u.	Laboran	or performing analysis of samples.	
			Name	
			Address	
			Telephone #	
		•	Fax #	
	e.	Are any Yes If yes, de		
IX.	TECH Office)		NFORMATION (Assistance from the Regional Municipal	and Community Affairs
1.	Date:			
2.	Munici	ipality: _	PELLY BALY	
3.	Contac			
		M	IACA Representative/Position	
		T	elephone #	
		Fa	ax#	
4.	Populat	tion (acco	rding to most recent census results):	
5.	Estimat	ted growth	n rate over next 5 years:	
6.	Has any baseline data collection and evaluation been undertaken with respect to the physical, biological, and chemical characteristics of the main water bodies in the area?  I No I Yes  If yes, provide details below:			

Prep	ared by	Title	Completion Date			
If no	, are such studies be	ing planned?				
7.	Have Elders been ☐ No☐ Yes. If yes, specify.	consulted in the collection of basel	line data on main water bodies in the area?			
8.	Has any baseline data collection and evaluation been undertaken with respect to the various biophysica components of the environment potentially affected by the project?  □ No □ Yes  If yes, provide details below.					
	Prepared by	Title	Completion Date			
	If no, are such stud ☐ No☐ Yes. If ye	lies being planned? es, specify:				
Attack	iments					
l <b>.</b>	Attach detailed plainformation:	л or drawing(s) of the present solid	waste disposal area. Include the following			
	<ul><li>b. details of a</li><li>c. details of the</li></ul>	ond size and elevation; Il retaining structures (dimensions, and existing and placed decant, siphon mechanisms etc., in	materials of construction, etc.); proposed drainage modifications; ncluding sewage treatment facilities;			

	f. distant	ce from watercourses and fish bearing waters;	The state of the s				
	~	on and construction of liners;					
		te and groundwater collection systems; and					
	i. contro	l structures.					
2.		Attach detailed plan or drawing(s) of the present sewage treatment system. The drawing(s) should include the following:					
	a. details	of all retaining structures (dimensions, materials of con	nstruction, etc.);				
		details of the drainage basin, and existing and proposed drainage modifications;					
		details regarding direction and path of wastewater flow from the area;					
	d. indicat	indications of the distance from watercourses and fish bearing waters; all sources of seepage presently encountered near these areas, including volumes (m³/day) and					
	e. all sour	ons.	including volumes (m <sup>2</sup> /day) and				
Are o	rawings for the s	solid waste disposal area and sewage treatment system	attached?				
	☐ Yes ☐ No						
	If Yes, who ha	as provided them?					
			-				
	If no, indicate	when they will be available					
Hydr	ology						
1.	Effects on surf	ace water flow:					
	Are any stream	channels altered?	□ Yes፟ No				
	Is the natural st	torage or water level of any lake or pond changed?	☐ Yes\ No				
		ges in water flow downstream of the project?	☐ Yes⊠ No				
		ervoir created in a natural channel?	☐ Yes\ No				
	_	the above, briefly describe the expected change in flow					
	<del></del>		_				
2.	Drainage Area:						
	What is the drainage area?km <sup>2</sup>						
		1 1 2 1 1	tres				
		basin outlined on an attached map?    Yes    No					
•		ainage basin characteristics, (vegetation, general soil ty	pe, lakes, swamps and permafrost				
	areas, etc.)	, <b>2</b> , , <b>3</b>	, ,,				