

## ᢧᠳᠸᠲ᠋ ᠨ᠘ᡖᡎᠫ᠘ᢣ᠘ᡶ᠕ᠳ

## Nunalingni Kavamatkunillu Pivikhaqautikkut Department of Community Government Services Ministère des Services communautaires et gouvernementaux

Phyllis Beaulieu Manager of Licensing Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

June 08, 2009

Sub: Application for the amendment of the existing Water license # 3BM-KIM 0911 for the Hamlet of Kimmirut, Baffin Region, Nunavut.

Dear Phyllis,

In response to our discussion over the tele conference with NWB of dated April 09, 2009 and the subsequent letter of NWB consultant Karlette Tunaley of also dated April 9, 2009, I am submitting the amendment application of the Hamlet of Kimmirut Water License and the following supporting documents are attached for your consideration.

- Amendment application signed by SAO
- 2. \$30.00 cheque is attached
- 3. Answers to the questions of the letter dated April 09, 2009
- 4. Technical Reports in English and Inuktitut
- 5. TROW's letter of the effluent criteria at the compliance point of the proposed Sewage Lagoon
- 6. Draft O&M manual

I am acting on behalf of the Hamlet. I will appreciate if you keep me in the loop of the approval process. If you have any question, please do not hesitate to contact me before putting in the website for public review.

Thanks.

Bhabesh Roy, M.A.Sc., P.Eng.

Municipal Planning Engineer Community & Government Services

Baffin Region, Government of Nunavut

P.O.Box 379, Pond Inlet, X0A 0S0

Ph-867 899 7314 Fax-867 899 7328

E-mail: broy@gov.nu.ca

Copy to: Patricio Fuentes, Regional Projects Manager, GN-CGS, Baffin Region Johnathan Palluq, Assistant Regional Director, GN-CGS, Baffin Region Timoon Toonoo, Regional Director, GN-CGS, Baffin Region Akeego Ikkidluak, SAO, Hamlet of Kimmirut

Steven Burden, P. Eng., Trow Associates Inc. Matthew Hamp, Project officer, GN- CGS



P.O. Box 119 GJOA HAVEN, NU X0B 1J0 Tel: (867) 360-6338

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הב" ב באני הובאר MUNAVUT IMALIRIYIN KATIMAYINGI NUNAVUT WATER BOARD OFFICE DES EAUX DU NUNAVUT

# WATER LICENCE APPLICATION FORM

Application for: (check one)			
New Renewal		Assignment	Cancellation
LICENCE NO: (for NWB use only)			
1. NAME AND MAILING ADDR APPLICANT/LICENSEE	RESS OF 2.	ADDRESS OF COR CANADA (if applica	RPORATE OFFICE IN able)
Akeego Ikkidluak Acting SAO, Hamlet of Kimmirut, Baffin Box # 120, X0A 0N0, NU. Ph: 867 939 2247, Fax: 867 939 2045 Contact Person: Bhabesh Roy, M.A.Sc., P.Eng. Municipal Planning Engineer, GN-CGS	Acting Box # Ph: 86 Conta Bhabe	go Ikkidluak g SAO, Hamlet of Kimmi 120, X0A 0N0, NU. 67 939 2247, Fax: 867 939 ct Person: esh Roy, M.A.Sc., P.Eng. cipal Planning Engineer, C	9 2045
Phone: 867 7 899 7314  Fax: 867 899 7328  e-mail: broy@gov.nu.ca	Fax:	867 899 7314 867 899 7328 broy@gov.nu.ca	
3. LOCATION OF UNDERTAK components of the Undertaking)  Latitude: (62°50'52" N) Longin NTS Map Sheet NoScale:	(tude: (69°54'25" W)	a topographical map, indi	cating the main
4. DESCRIPTION OF UNDERT	AKING (attach plans and	drawings)	,
5. TYPE OF PRIMARY UNDER application for undertakings liste		ary questionnaire must be	e submitted with the
☐ Industrial ☐ Mining and Milling(include ☑ Municipal (includes camps/l ☐ Power		Agricultural Conservation Recreational Miscellaneous (d	lescribe below):

See Schedule II of Northwest Territories Waters Regulations for Description of Undertakings

6.	WATER USE			
	<ul> <li>☑ To obtain water</li> <li>☐ To cross a watercourse</li> <li>☐ To modify the bed or bank of a watercourse</li> <li>☐ To alter the flow of, or store, water</li> </ul>			
	Other (describe): Soil remediation			
7.	QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)			
	Water use   ☐ 100m³/day or less ☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)			
	Water returned to source 17.68 m <sup>3</sup> /day			
8.	WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)			
	Sewage			
9.	<ol> <li>OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)</li> </ol>			
	Land Use Permit DIAND			
	Regional Inuit Association Yes No If no, date expected			
	Commissioner			
10.	PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)			
	NIRB Screening Yes No If no, date expected <u>N/A</u>			
11.	INUIT WATER RIGHTS			
	Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?			
	If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement			

has been made, how will compensation be determined? Not applicable			
1100 apprount			
12. CONTRACTORS AND SUB-CONTRACTORS (nar	me, address and functions)		
13. STUDIES UNDERTAKEN TO DATE (list and attach	n copies of studies, reports, research, etc.)		
Trow's compliance report will be attached.	300 au au		
14. THE FOLLOWING DOCUMENTS MUST BE INC REGULATORY PROCESS TO BEGIN	LUDED WITH THE APPLICATION FOR THE		
Supplementary Questionnaire (where applicable: see section 5)	Yes No If no, date expected		
Inuktitut and/or Inuinnaqtun/English Summary of Project	Yes No If no, date expected		
Application fee of \$30.00 (Payee Receiver General for Canada)	Yes No If no, date expected		
	Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the NWT Waters Regulations; Payee Receiver		
General for Canada)	Yes No If no, date expected		
15. PROPOSED TIME SCHEDULE (unless otherwise in	ndicated, the NWB will consider the application for		
a five (5) year term)  one year or less (or)	Multi Year		
Start Date: January 9, 2009C	Completion Date: January 9, 2013		
Akeego Ikkidluak Acting SAO Name (Print) Title (Print)	April 1, 2009 Signature Date		
For Nunavut Water Board office use only			
APPLICATION FEE Amount: \$30.00 Pay ID No	).:		
WATER USE DEPOSIT Amount: \$ Pay ID No	<b>).:</b>		

### Roy, Bhabesh

From: David Hohnstein [dts@nunavutwaterboard.org]

Sent: Thursday, April 09, 2009 2:07 PM

To: Roy, Bhabesh

Cc: Tunaley, Karlette; Stephen Lines

Subject: Telephone call

Hi,

Dionne just stopped in so I'll be out for lunch, should be back by about 1:30pm MDT, 3:30 ET.

Sorry for the inconvenience.

#### Dave



David Hohnstein, C.E.T., A/Director Technical Services

Nunavut Water Board | ふつ んしてった らいしたい Nunavut IMALIRIYIN KATIMAYINGI Office Des Eaux Du Nunavut P.O. Box 119 Gjoa Haven, NU X0B 1J0 Tel. 867.360.6338 Fax. 867.360.6369

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## Roy, Bhabesh

From: Karlette Tunaley [ktunaley@envireview.ca]

Sent: Thursday, April 09, 2009 6:21 PM

To: Roy, Bhabesh

Cc: dts@nunavutwaterboard.org; 'Dionne Filiatrault'

Subject: Kimmirut Amendment Application

#### Hi Bhabesh

It was good talking with you earlier today. To follow up, I have put together a list of items to submit for the application for amendment to the Hamlet of Kimmirut's water licence 3BM-KIM0911:

- Cover letter with request for amendment including proposed effluent quality limits, discharge strategy, and monitoring plan;
- 2. Completed amendment application form (attached);
- 3. Application fee \$30.00;
- Executive summary in English;
- Executive summary translated;
- Plan for Compliance in accordance with Part B Item 11 of the licence that addresses all licensed components and issues raised by the Inspector including but limited to:
  - a. Sewage disposal
  - Solid waste disposal including the segregation of bulk metals and hazardous wastes (see Inspector report dated January 8, 2008)
  - c. Water use including the installation of a volumetric device on the water intake system (see Inspector report dated January 8, 2008)
  - d. Access road
  - e. Quarry
  - f. Monitoring including the collection and analysis of samples and the posting of signs at monitoring program stations and the submission of a Quality Assurance/ Quality Control Plan (see Inspector report dated January 8, 2008)
  - g. Submission of annual reports (see Inspector report dated January 8, 2008)
  - h. Submission of Abandonment and Restoration Plan (see Inspector report dated January 8, 2008)
  - i. Any others

The Plan for Compliance must also provide an implementation schedule (note that this Plan was due April 9, 2009);

7. Operations and Maintenance Plan in accordance with Part F Item 1 of the licence. This Plan should be separate from the Plan for Compliance. (note that this Plan was due April 9, 2009)

A complete application is required before the NWB can process the application. Once the NWB determines the application to be complete, the application will be subject to a 30 day notice period. I hope this guidance helps. If you have any questions please feel free to contact me.

Regards, Karlette

Tunaley, Lines & Associates

1011 8th St SE Calgary, AB T2G 2Z3 Phone/Fax 403-697-7897 Email: ktunaley@envireview.ca

## Answers to the Requirements/questions to the Hamlet of Kimmirut's Water licence 3BM-KIM0911:

 Cover letter with request for amendment including proposed effluent quality limits, discharge strategy, and monitoring plan;

**Ans:** Attach a letter of TROW indicating effluent quality limit and discharge strategy. The monitoring plan will be provided in the Sewage Lagoon O&M manual.

2. Completed amendment application form (attached);

Ans. Amendment application has been signed by the SAO and attached.

3. Application fee \$30.00;

Ans. Attached \$30 cheque.

Executive summary in English;

Ans. Attached Technical Summary in English

5. Executive summary translated;

Ans. Attached Technical summary in Inuktitut

- Plan for Compliance in accordance with Part B Item 11 of the licence that addresses all licensed components and issues raised by the Inspector including but limited to:
  - a. Sewage disposal

Ans. This will be shown in the O&M manual.

 Solid waste disposal including the segregation of bulk metals and hazardous wastes (see Inspector report dated January 8, 2008)

Ans. A consultant is being hired to work on this project

 Water use including the installation of a volumetric device on the water intake system (see Inspector report dated January 8, 2008)

Ans. Yes, the volumetric device is not working. SAO is working with an electrician to fix up the problem ASAP.

#### d. Access road

**Ans.** There are two access roads. One is towards Quarry deposit # 2 and another one is towards proposed Sewage Lagoon. The Quarry deposit access road has been designed and Technical specification is ready for construction tendering once funds are available.

The access road towards proposed sewage lagoon has been redesigned for rehabilitation and technical specification is ready for construction tendering once funds are available.

#### e. Quarry

**Ans.** A quarry deposit #2 of capacity about 45000 cubic meters has been identified for construction granular material source. NIRB approval has been obtained for granular production.

f. Monitoring including the collection and analysis of samples and the posting of signs at monitoring program stations and the submission of a Quality Assurance/ Quality Control Plan (see Inspector report dated January 8, 2008)

Ans. The above information will be documented in the Sewage Lagoon final O&M manual once the facility is built. Interestingly they are also shown in clause 4.7 Monitoring and Compliance points in Table 4.7 and 4.8 of the Design Brief of the Sewage Lagoon.

g. Submission of annual reports (see Inspector report dated January 8, 2008)

Ans. The annual Report in 2008 is attached.

h. Submission of Abandonment and Restoration Plan (see Inspector report dated January 8, 2008)

Ans. The consultant will be working on this plan.

#### i. Any others

The Plan for Compliance must also provide an implementation schedule (note that this Plan was due April 9, 2009);

Ans: The Plan for compliance is as follows:

- The Sewage Lagoon will be built once the funds are available, expecting to start construction in 2010, if the funds are available.
- The construction of the access road towards the Quarry site is expected to start in 2010 provided if the funds are available.
- The rehabilitation of the access road towards the proposed Sewage Lagoon is expected to start in 2010, again if the funds are available.
- 4. The consultant will be working in the current fiscal year 2009/10 on the design of the solidwaste improvement by developing a new site and decommissioning the existing site, and also preparing O&M manual, QA/QC plan including Spill contingency plan.
- Operations and Maintenance Plan in accordance with Part F Item 1 of the licence.
   This Plan should be separate from the Plan for Compliance. (note that this Plan was due April 9, 2009)

Ans: The consultant will provide O&M manuals for both sewage Lagoon and Landfill site satisfying the requirements of Nunavut Water Board.



## Trow Associates Inc.

154 Colonnade Road South Ottawa, Ontario K2E 7J5 Telephone: (613) 225-9940 Facsimile: (613) 225-7337 E-mail: ottawa@trow.com Web Site: www.trow.com

Reference: OTCD00018881A

May 11, 2009

Mr. Bhabesh Roy, M.A.Sc., P.Eng. Municipal Planning Engineer Community & Government Services Baffin Region, Government of Nunavut P.O. Box 379 Pond Inlet, NU X0A 0S0

Via Facsimile: 867-899-7328

# Effluent Criteria at the Compliance Point Kimmirut Sewage Lagoon

Dear Mr. Roy:

Further to the conference call on February 3<sup>rd</sup>, 2009 regarding the Water Licence for the Kimmirut Sewage Lagoon, the following outlines our recommendations with regards to the location of the compliance point and the effluent criteria for the Kimmirut enhanced sewage treatment facility.

As per the Hamlet's of Kimmirut Water Licence 3BM-KIM0911, we proposed that the compliance point for the sewage treatment system be at the outlet of the lower lagoon, as this constitutes the last point of operator control over the facility. The rationale for the effluent criteria at the compliance point is based on the Guidelines for Discharge for Treated Municipal Waste Water in the Northwest Territories 1992, note 12 for table 4.1 which states "where wetlands are used as part of the treatment system, limits shall be chosen to suit the point of measurement and control". This point is interpreted to mean the effluent criteria shall take into consideration the additional treatment the effluent will receive in the wetlands when determining the effluent criteria at the compliance point. Therefore the effluent criteria a the compliance point will be set by determining the effluent strength allowable at the compliance point that will result in the effluent strength required at the end of the wetlands.

We have assumed an effluent criteria of 45 mg/L of BOD<sub>5</sub> and 45 mg/L total suspended solids (TSS) at the end of the wetlands, based reference to the similar criteria at the end of wetlands for the Cape Dorset facility during the conference call. The Kimmirut Wetlands Planning Study prepared for this project estimated a quality of effluent at the end of the wetlands of 38 mg/L BOD<sub>5</sub> and 39 mg/L TSS, based on an influent quality of 230 mg/L and 245 mg/L BOD<sup>5</sup> and TSS respectively. Assuming a proportional removal rate to achieve the 45 mg/L and 45 mg/L effluent quality criteria, the influent entering the wetlands would require a level of 272 mg/L BOD<sub>5</sub> and 288 mg/L TSS.

When setting effluent criteria at the end of the sewage lagoon consideration must be given to dilution through runoff. Based on the average yearly precipitation of 412 mm (as Climatic Normals are not available for Kimmirut the annual average precipitation for Iqaluit is used) the average annual precipitation which falls within the drainage area of the enhanced sewage

disposal system is 48,108 m<sup>3</sup>. Based on a projected sewage generation rate for the year 2028 of 33,195 m<sup>3</sup> the average dilution rate is rate of dilution of the effluent is 40.8%. This rate varies during the time of discharge between approximately 46% and 37%.

The rates of dilution above do not take into consideration the yearly variance of precipitation. In 2004, Trow undertook a study of the City of Iqaluit's raw water supply and storage, which included a review of the minimum anticipated precipitation of 5, 20 and 100 year return frequencies. The following table summarizes the estimated minimum yearly precipitation for a 5 year, 20 year and 100 year return period, and the corresponding dilution rates based on the these minimum yearly precipitation rates.

Table 1: Average Dilution Rates

Return period	Estimated Minimum Precipitation (mm)	Percentage of Average Yearly Precipitation	Average Dilution Rate
Average precipitation	412		40.8%
5 year	340	82.5%	45.5%
20 year	310	75.25%	47.8%
100 year	280	68%	50.3%

Based on the estimated required effluent quality at the end of the lagoon of 272 mg/L and 288 mg/L of BOD<sub>5</sub> and TSS respectively, to meet the goal of 45 mg/L BOD<sub>5</sub> and 45 mg/L TSS and the dilution rates listed above, the following tables summarizes the required effluent criteria which will have to be met at the compliance point, based on the average precipitation and the 5 year, 20 year and 100 year return period minimum precipitation.

Table 2: Effluent Quality for Return Periods

Return Period	Dilution	BOD <sub>5</sub>	TSS
Average Precipitation	41%	112 mg/L	118 mg/L
5 year	46%	125 mg/L	132 mg/L
20 year	48%	131 mg/L	138 mg/L
100 year	50%	136 mg/L	144 mg/L

We recommend the effluent criteria at the compliance point (the discharge of the Lower Lagoon) be based on a dilution factor for the minimum precipitation for a 20 year return period as the design life of the lagoon is 20 years. In recognizing the variance of runoff during the discharge period, we recommend the discharge criteria be based on the average of the three samples taken



during the discharge period. In addition, we recommend that the water licence recognize that it is statistically probable that the yearly precipitation will be less than the 20 year return period during the life of the facility, and if the sampling exceeds the criteria, a study of runoff is undertaken to determine if the dilution was not achieved. It should also be recognized that the dilution rates are based on historical data for Iqaluit.

In summary, we recommend the water licence adopt the following clauses:

- 1. The performance of the Enhanced Sewage Disposal System shall be monitored at the outlet of the Lower Lagoon, KIM-6 and KIM-7.
- All Effluent discharged from the Enhanced Sewage Disposal Facility at the Monitoring Program Stations KIM-6 and KIM-7 shall not exceed the following Effluent quality limits based on an average of samples taken throughout the discharge period, put forth in the Water Licence 3BM-KIM0911:

Table 3: Effluent Discharge Criteria

Parameter	Maximum Average Concentration
BOD <sub>5</sub>	135 mg/L
Total Suspended Solids (TSS)	140 mg/L
Faecal Coliforms	1 x 10 <sup>6</sup> CFU/100mL
Oil and Grease	No visible sheen
рН	Between 6 and 9

3. The water licence be amended such that in the event results of the monitoring program exceeding the effluent criteria listed above, the precipitation records will be reviewed to determine the actual rate of dilution and the affect it would have on the monitoring samples.

Should you have additional questions or require additional information please do not hesitate to contact Steven Burden at 613-225-9940 ext. 257.

Yours truly,

Trow Associates Inc.

Stephen A. Douglas Senior Designer

beinoi Designei

Infrastructure Services

Steven L. Burden, P.Eng.

Stone Burde

Project Manager

Infrastructure Services

## Technical Report of the Environmental Facilities Hamlet of Kimmirut

## Bhabesh Roy, M.A.Sc., P.Eng. MPE, Baffin Region, GN-CGS.

The Hamlet of Kimmirut is a small community of Baffin Region with a population of about 546. This community is located at 62<sup>0</sup>50'06''N and 69<sup>0</sup>52'04''W on the south end of Baffin Island.

In the community, there is a big and deep water lake from where water is extracted, treated in the water truck fill station and delivered by trucks to the community.

In 2001, a sewage lagoon and a landfill site including 1.5km access road were built. These facilities were never used. The community currently discharging its sewage to a ditch which drains directly to the ocean. The community wastes are dumped next to this.

The sewage lagoon and its access road have been redesigned and ready for construction tender once the capital funds are available. In order to get materials for construction, NIRB approval has been obtained for granular material production in deposit # 2 of capacity about 45,000 cubic meters. The design and tender specifications are ready of this road as well for construction and it delays due to the availability of funding.

To satisfy the requirements of the current water license, the solid waste management will need to be improved including with a proper Operation and Maintenance manual. The plan of compliances together with Quality Control and Quality Assurance (QA&AC) plan will need to be presented in a proper format. A consultant is being hired soon dealing with all these requirements. These documents will be submitted to the Water Board once ready.

The compliance effluent parameters of the sewage lagoon have been revised and submitted to the Board for acceptance. The existing Hamlet Water License is recommended to get amendment.

## ους δας λαυτισιά η δυμεριά η δυμερ

<Λ' ΡΔ, M.A.Sc., P.Eng. MPE, ጭριος Δοριος, Δοριος υναιος υναιος υναιος ο υναιος ο

ΡιΓΡιΓὸς Ηἀις ΔΔΡς)ἀίς σας Φος 19ρικς 19ρικς Δαίδιος 546-σ. Ċια σας 1ρς Δσίδιος 62°50'06"Ν Διασ 69°52'04" γρρικς 1ς σιασίσος.

# ANNUAL REPORT FOR THE MUNICIPALITY OF KIMMIRUT

## YEAR BEING REPORTED: 2008-2009 Financial Year

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. 3BM-KIM 0911 issued to the **Municipality of Kimmirut.** 

 i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged
April 2008	1,341,611	Same
May 2008	1,453,137	Same
June 2008	1,400,833	Same
July 2008	1,472,153	Same
August 2008	1,501,395	Same
September 2008	1,619,446	Same
October 2008	1,661,633	Same
November 2008	1,587,999	Same
December 2008	1,676,355	Same
January 2009	1,531,108	Same
February 2009	1,468,864	Same
March 2009	1,614,761	Same
SAMO SAMON MINING INC.	18,329,294.72	

# ANNUAL REPORT FOR THE MUNICIPALITY OF KIMMIRUT

	ANNUAL TOTAL		Same	
iv.	a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;  Water Truckfill station will be power connected. Solid waste management will be improved and the existing site will be decommissioned once the new facility will be			
-	built.			
v.	a list of unauthorize	d discharges and summar	ry of follow-up action tak	en;
_	The design of the new Once this is built, the	v sewage lagoon has been a existing source will be dec	pproved by the board.	
vi.	year and an outline The design work of t	bandonment and restorat of any work anticipated for the solid waste site is expect will be stated in next year on	or the next year; ed to complete this year an	
vii.		tudies requested by the Boation, and a brief descript		
viii.		water use or waste dispos year being reported; and		d by
		ted to meter the quantity of it it and following up.	water coming from the lak	e.
ix.	Updates or revisions	to the approved Operation	on and Maintenance Plan	ıs.
-	The Consultant will blandfill site.	e developing new O&M m	anuals for both sewage lag	oon and

## ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

GN-CGS is planning to hire a consultant for the designing the improvement of Solid wastes management, developing O&M manual and QA/QC plan including Abandonment and restoration plans in this fiscal year.
FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:
Hamlet has prepared the 2008-09 annual report for the Board. Hamlet is also
Planning putting signage in each environmental facility.