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May 27, 1999

NWB File No: N5L4-1447

By Fax: 867-979-4748

Dave Parker, P. Eng.
Project Officer
Government of Nunavut
P.O. Bag 1000
Igaluit, Nunavut X0A 0H0

Re: Proposed Road and Sewage Lagoon Construction in Pangnirtung

Dear Mr. Parker:

Further to our meeting held on May 19, 1999 in Iqaluit regarding the proposed road construction planned to access the proposed new sewage lagoon in Pangnirtung, the Nunavut Water Board confirms that the road construction phase of the project does not require the approval of the Board.

In accordance with Part C, Item 4 & 5 of the Hamlet's water licence (N5L4-1447), the final proposal for upgrading the sewage disposal system shall be reviewed by the Board. To this effect, the NWB expects a response to comments sent to Ms. Tanja Smith, Capital Programs Officer, MACA, on April 27, 1998.

Should you require clarification in this matter please do not hesitate to contact me at (867)360-6338.

Sincerely,

Original Signed By

Dionne Filiatrault Technical Advisor

Cc:

SAO, Hamlet of Pangnirtung

Paul Smith Shannon Pagotto

Nunavut Impact Review Board

SENT BY: COMMONTO ECOMONIC NEA



Hamlet of Pangnirtung / Hdをしこて くちゅう* / Pangnirtung, N.W.T. - XOA 0R0

Metion Paper ∧જ⊳»∿⊃[⊂]

Number

Day March 12, 1990 Date

ል∟ል∟ና/ ለኮላቸነነበ>℃ Whereas/ I move that:

Council have posted the public notice and have not received any concerns.

. CALAL^C APGYYYDY / 4PGDWJJ Therefore I move that/ He it resolved

To accept the location of a new sewage lagoon,

Opposed

Hamlet of Panguirtung Minutes from the Hamlet Regular Council Meeting March 12, 1998

Meeting no. 04-98

Present:

Mayor Joannaie Manianik Deputy Mayor Aim Papetric Councillor Dainy Kermainak Councillor Andrew Olalla Councillor Soumus Juige Councilet Apak Qequaiq Thomasic Alikatuktuk Councillar Councillor Julia Tartuajuk

Ookalik Omley Jevus Menispik SAO Recorder

Absent:

Billy Byles

Councillor/Excused

Opening Prayers

Mayor called meeting to order at 7:05 p.m. with a prayer by Deputy Mayor Aisa Papatein.

Adoption of Agendu:

Motton:

Moved by:

Counciller Apak Qaqasiq

Seconded by:

Councillor Thomasic Alikatuktuk

That agends be approved as presented.

Carried Unanimously Motion # 33-98

Delegatee

Shelly Parks Social Worker: Acting as Social Worker in Panguirtung and the position is open now. Deals with appeal process, Community Justice and help elders and disabled people. Shelly has an open (bor policy and welcomes any assistance from Council. She is requesting to use a truck from Hamlet if possible.

Manasic Nosh & Jaco Newkinga: They wish to start a small business in town to do painting, interior decorating and dry walling. Requesting support from Council, they have already sent a proposal to Kakivak Association in Iqaluit.

Norman Komosriok: Two yours ago he gave a letter to Hamlet and never heard anything regarding the taxi faces for elders to have up oint rates. Taxi is back on the read.

2nd Alcohol is a problem in town when it is a prohibited community and it's signed by a commissioner. There are thefts of Alcohol, property and money, one who brings in the alcohol should be charged. Prosecution is not part of fouri Culture he has brought his concerns to Alcohol and Trange Education Committee and bring this concern before an elected body.

Many Papatale: Youth Soccer Team: Requesting donation of finds to attend the Tournement in Yellowknite in May 1998.

Mary advised of other also matives to fund raise money for their Tournament.

Approval of Minutes:

January 20, and February 19, 1998.

Motion:

Moved by: Seconded by: Councillor Datsy Keenainak

Councillor Thomasic Alikatuktuk

That the minutes of January 20, 1998 be approved with amendment to motion # 03-98 year to tead 1997 and that the minutes of February 19, 1998 be approved as presented.

Carried Unanimously Motion # 34-98

Correspondence & Information:

- Commentty Councillor Pin-Minister of MACA: Pins distributed.
- Community Based Planning Frank Pearce: Information for Council.
- Elumiers Support Program Raymond Ningsocheak Nunavet Tungavik incorporated. Information for Courseil.
- Nunavut Tungavik Incorporated News Release: Information for Court. it.
- c) MLA's Statements:
 Read and to be translated & distributed.
- Languago Policy Nu-savut Water Board: Appreciation letter.
- g) Baffin Regional Ilicalth & Services Board Annual Report: Play safe colouring book MACA NWTAM: Give to Library once it has been circulated – Play school to Alockie & Attagoyuk Schools.
- h) Alcohol & Drug Counsellows Report: Information for Council.
- Staff Changes MACA: Information for Council.

 j) Hamlet of Broughton Island Re: Floor Hockey Tournament: Thank you letter in be sent to Broughton Island.

Old Businetzt

- a) Invusingshavik Re: Adem Pudia Kilabak: Information for Council.
- Healthy Children Initiative: Information for Count it.
- Income Support Agreement 1998/99;
 Information for Council.
- d) Agenda for Reparato Caucus Meeting NWTAM:

Motion:

Moved by:

Councillor Thomasio Alikstuktuk

Seconded by:

Councillor Andrew Dialla

Whoreas the subsidies for Municipal Swittening pools no longer available and it is difficult to raise funds in small communities.

Therefore I move that Municipal & Community Affairs make available subsidies for assimuting pools again.

Carried Unantmously Motion # 35-98

Motion:

Moved by:

Councillor Apak Qaqueiq

Seconded by:

Deputy Mayor Aisa Papatsie

Whereas there appears to be inconsistency in allowing excerts for hospital repatriation to regional communities and to south, in medical centres.

Therefore I move that excert policy be consistently followed by all health centres.

Carried Unanknowly Metter # 36-92

e) Men's Group Request:

Motton

Moved by:

Deputy Mayor Alsa Papatsio

Seconded by:

Councilly Andrew Dialia

Five in favor

Two abstain

To allow reallocation for Men's Group funds between conference budget, to transfer it to woodworking program section of the budget.

Carried Motion # 37-98

COMMONTH COMMONTO DIA

Mutlen:

Moved by:

Councillar Andrew Dialla

Seconded by:

Councillor Thomasie Alikatuktuk

To allow clark of Men's Group to work full time until Much 31, 1998.

Carried Unanimously Motton # 38-98

Sawago Lagoon -- Pul-lic Concerns:

Motion:

Moved by:

Councillor Julia Tautuajuk

Counciliar Somma Quigg Seconded by:

Whereas Council have possed the public notice and have not received any concerns.

Therefore I move to accept the location of a new newage lagoon.

Carried Unanimously Mution # 39-98

New Buchess:

a) Request for Support - Jaypeetee Angmarlik:

Motion:

Moved by:

Councillar Andrew Dialla Councillor Apak Qaqasiq

Seconded by: Four in favor

One opposed

One abstuin

To support the application of Jaypeetee Augmarilk for funding from Kakivak Association to purchase aki-doo.

Carried Motion # 40-98

- b) Request for Support Simoonie Akpalialuk: Council requesting to get more information from Simeonie Akpalialuk.
- c) Request for dometion Nunavut Arctic College: Letter of denial to be sout to Nunavat Actic College.
- d) Signing Authority:

Motions

Moved by:

Deputy - (ayor Aisa Papatsio

Seconded by:

Counciller Julia Tautuajuk

To approve signing authority with the Royal Bank which includes Ookalik Carley as Acting Senior Administrative Officer.

Carried Unanimously Motion # 41-98

p) Brighter Puture Proposal:

Motions

Moved by: I's Seconded by: C

Deputy Mayor Aira Papatale Councillor Semnus Quigg

To support the propert of Plaimee Akpelialuk and Jevus Maniapik of \$5,225,00 out of Prighter Poinces Program funds.

Carried Unanimously Metion # 42-98

f) Hamlet Day Proposed Gudget:

Motion;

Moved by: Seconded by: Counciller Andrew Dialla

Cosmeillor Seamus Quigg

To approve \$5,490.00 for 1998 Hamlet Day Celebrations to come out of Repression Funds.

Carried Unanimously Motion # 43-98

g) Request for Support Corole Pittman: Council with to invite Nancy Anilalliak for next Council meeting to sower some questions regarding Carole Pittman's proposal.

Request for Support Mosesic Nakashuk:
 Council wants Mosesic Nakashuk to fill out the application form thru Simeonic Akyaliakik.

By-Laws:

By-law # 118 Council Indramity: Refer to Finance Committee.

Motion:

Moved by:

Counciller Seamus Quigg

Seconded by:

Councilly Apak Ququiq

That Council meeting of March 12, 1998 proceed part 11:00 p.m.

Carried Unantmously Motion # 44-98

Metioni

Moved by:

Counciller Andrew Dialla Counciller Saanus Quige

Seconded by:

Pive in favor One opposed

Whereas Apak Qaqasiq attended the Qikiqtanluk Bowhead planning committee meeting and they do not have funds to pay honorarin for March 10 and 11, 1998 meeting.

Therefore I move that Conveillor Apak Qaqasiq be paid \$160.00 per meeting for two days for a mail of \$320.00.

Carried Motion # 45-98

Metlen:

Moved by:

Councillor Thomasic

Seconded by:

Conneiller Julia Tauluajuk

Whereas current fire trucks are breaking down and not in service to fight fives in most most most communities.

Therefore I move that the tire tracks be constructed to withstand harsh environment of the arctio.

Carried Unanimously Metion # 46-98

Committee Reports:

Defered to next Council meeting.

Data of next meeting;

Date set for next meeting 1 (arch 23, 1998.

Adjournment:

Matlon;

Moved by:

Conacillor Daisy Keenainak

Seconded by:

Counciller Thomasie Alikataktuk

That Council adjourn the meeting at 11:30 p.m. and defer committee reports to next Council meeting.

Carried Unanimously Motion # 47-98

These mirrates were approved on this

day of

1298.

By Council Motion Number 75 48.

Manage

Senior Administrative Officer



Northwest Territories Baffin Region

May 6, 1998

By Facsimile: 867-360-6369

Dave Parker
Tanya Snith.

Day Sitland.

Methusalah Kunuk

Dionne Filiatrault Technical Advisor Nunavut Water Board Gjoa Haven, NT XOE 1JO

Dear Ms. Filiatrault:

Thank you for your letter of April 27, 1998, concerning the Pangnirtung Sewage Treatment Facility Planning Study. As you note in your letter, Pangnirtung has been in need of a functioning sewage treatment facility for many years and the Government of the Northwest Territories (GNWT) Department of Municipal and Community Affairs (MACA) has been working very closely for several years with the Hamlet to bring this project to fruition.

As I had indicated to you before, the timelines and proposed schedules for this project were very tight and it was essential that comments from the various stakeholders be obtained as soon as was possible. Therefore it is with some concern that we read your letter of April 27, 1998, in which you bring forward a number of comments. We will be initiating a geotechnical study to determine the suitability of locating the sewage lagoon at the Hamlet's granular source and the design required for the berms to resist ice scour and wave action, but it is important to note that this project is still in the planning phase. Therefore, although MACA cannot address all of your concerns at the present time, we trust the information presented below will be sufficient for the Nunavut Water Board to grant tentative approval for this project, with the understanding that all final documentation and reports will be provided to you and that the sewage lagoon option does meet the minimum criteria for sewage treatment.

In response to your comments, we offer the following:

i. Although the Planning Study would seem to indicate that consultation was not part of the process, rest assured that it was. Over the last several years, MACA, the Hamlet and various consultants have met many times to discuss, in detail, this particular project. Through these meetings, MACA has received feedback from the community and their concerns and desires for the treatment facility. In fact, work had already begun on a sewage lagoon at one particular location, but was halted due to public concern. Approval for this particular sewage lagoon was granted by the Northwest Territories Water Board. Additional studies and tests were undertaken

and as a result, this Planning Study was commissioned. The council advertised and held a public meeting to address any additional concerns that the general public and any community groups may have had about the treatment system and its location as presented in this Planning Study. There was no opposition to this project. We feel that public consultation for this project was quite comprehensive.

- ii. The original scope of the project (dating back several years) did not require the consultant to consider the impacts of a decentralized Nunavut. These impacts will be considered during the final design stage and it is foreseen that they will not have a significant impact on the design.
- iii. The concerns of existing and future land users was not expressed as a major concern or criteria for the Hamlet as they choose the location of the facility. Aesthetic concerns were considered in the process. As there appears to be some concern over impacts on existing and future land use, it will be considered in the selection criteria and design matrix of the final report. Our consultant indicates that inclusion of land use considerations does not alter the design matrix and this will be reflected in a final report to be prepared and forwarded to your office as soon as it is available.
- iv. Environmental considerations are inherent in all aspects of planning, design, construction, operation and decommissioning of a capital asset, including sewage treatment facilities. A general "environmental" criteria is difficult to evaluate and potentially allows for personal biases to enter the decision process. We feel we have addressed the impact of the operation of the facility through considering the treatment levels. If specific "environmental" concerns exist on the part of the Nunavut Water Board, or any other stakeholder, which can be defined and evaluated, the report will be revised to include these criteria in the decision matrix.
- v. The levels of Fecal Coliform will be addressed in the revised report, however MACA is confident that treatment objectives will be met. The concerns regarding the contamination of the clam beds have been mitigated through the location of the sewage lagoon.
- vi. The design of a sewage treatment facility for a 40-year planning horizon would be cost prohibitive. The community needs both an immediate solution to their sewage disposal problem and a sustainable plan for the future. It is our hope that the technology, cost and reliability of other sewage treatment methods will be more attainable (and sustainable) for this community twenty years from now. Therefore, a 20-year planning horizon is appropriate for this community for consideration of sewage treatment options. Currently, there is little choice as to the location of a sewage lagoon considering the size and location of the community.
- vii. Good engineering practice ensures that a failure does not occur under normal operating conditions. As recommended in the planning study, the next phase of the project involves the study of the (geotechnical and structural) feasibility of locating the sewage lagoon on the tidal flats. The results of these studies may potentially

have an effect on the costs and even the treatment method. The studies will be initiated upon tentative approval of the Nunavut Water Board and will be provided to you upon completion. It is hoped that the positive outcome of these studies will allow the Nunavut Water Board to give final approval to the project, such that construction can start in a timely fashion.

- viii The lagoons' geometry was determined based on the maximum depth allowable in order for a sewage lagoon to operate properly. Additional depth (and thus less area) will adversely affect the level of treatment, and possibly prevent the lagoon from obtaining the required treatment levels. Therefore, the geometry of the proposed lagoon will essentially remain unchanged. Final design will determine the exact geometry of the lagoons.
 - ix. As indicated above, the next phase of the project is to study the tidal flats for their suitability for the construction of a sewage lagoon. The study can proceed once we obtain tentative approval from the Nunavut Water Board. The study will be funded by MACA.
 - x. It is premature to develop an abandonment (decommissioning) plan at the planning or even design stage of this particular project as an abandonment plan would have to meet the guidelines and restrictions imposed by the regulatory agencies at that time (presumably 20 years from now). Furthermore, the capacity of the sewage lagoon, considering any new technologies in the next 20 years, may permit it to be used beyond its design life.
 - xi. Both the opportunities and constraints associated with the operation of a mechanical sewage treatment plant will be incorporated into the planning study to ensure that the community understands both.
- xii. As per (xi) above, the various opportunities for the training and development of personnel required for the efficient operation of a mechanical sewage treatment plant will be incorporated into the study. It is foreseen that even with potential positive opportunities, the decision matrix will remain unchanged.
- xiii. It is recognized that residual heat from the generating station could possibly be used as a inexpensive source of heat for a mechanical sewage treatment plant building. As any treatment plant would consist of a building housing a large tank of water which has a high latent heat compared to the air, it would take an enormous amount of energy to change the temperature of the building from that of the influent, thus the potential savings in using residual heat from the generating station are considered minimal. Furthermore, these potential savings are minimal compared to the overall energy costs for the operation and maintenance of the mechanical plant. Nevertheless, you comments will be incorporated into the study, but again, no impact on the decision matrix is expected.

- The transfer of infrastructure to the communities is an on-going process for the GNWT and is expected to continue under the Government of Nunavut. Once the sewage disposal facility (or any other facility or asset) has been constructed, it will be transferred to the Hamlet for their continued on-going maintenance and operation. As was done in the past, the Hamlet and every other community, in cooperation with the GNWT (and in the future, the Government of Nunavut) will continue to identify 5-year capital needs and a 20-year capital forecast. Therefore, MACA feels that the Nunavut Water Board concern over the availability of funding for Phase 2 of the lagoon option is not warranted. The Phase 2 capital requirements for the sewage lagoon (provided this is the option constructed) will be added to the 20-year capital forecast and will appear on the 5-year capital plan when appropriate.
- xv. The reliability of a mechanical system is not only related to power failures, but is also dependant on the mechanical plant. If a critical piece of the mechanical plant were to fail, depending on the availability of replacement parts (requiring an ongoing inventory of replacement parts an increased capital and on-going operation and maintenance cost), a direct discharge of sewage could occur, and potentially continue until the problem could be rectified. You note that the simple provision of a generator mitigates against a power failure. The point that the consultant was trying to make was that mechanical plants will discharge directly to the fiord if the system fails for any reason. This will be clarified in the study.
- wi. We are committed to effective and constructive consultation with all regulatory authorities and this will form an on-going component of this project and all issues will be addressed with the various stakeholders as they arise. Normally, we would await final design before seeking approval from the various stakeholders, however, due to the critical timelines associated with this project, it was hoped the tentative approval for the project could be obtained, prior to final design. It was our understanding, that by submitting this planning study to the Nunavit Water Board (and hence the regulatory agencies involved), comments from the Department of Fisheries and Oceans and others, would have been incorporated into your reply to us. Could you please clarify your role such that proper consultation with various regulatory agencies is accomplished. If MACA has to undertake this consultation process with each and every regulatory agency itself, we would like to know as soon as possible as this could possibly delay the implementation of the project.

Lastly, you inquired about the project proponents, to whom to license should be issued and other jurisdictional and financial issues. As indicated above, upon construction of the facility, it will become the property of the Hamlet, thus we foresee that the license should be issued to the Hamlet of Pangnirtung. We are under the impression that for the construction duration, an additional license will not be required. The GNWT Department of Public Works and Services (PWS) acts as the project officer for MACA: essentially MACA is the Client. As for financial responsibilities, as mentioned above, MACA (and the Government of Nunavut equivalent) will continue providing technical and financial support to the communities through the capital planning process.

We sincerely hope that we have addressed your concerns and look forward to your positive response in the form of tentative approval for this project. As indicated at the beginning of this letter, the timelines and schedules for this project are extremely tight and any further delay may be to the detriment of the project implementation schedule. It is understood that upon receiving the tentative approval, all additional studies will be initiated and results provided to the Nunavut Water Board for your final approval.

I will be out of the office until Tuesday, May 19, 1998. Should you have any immediate questions or concerns, please do not besitate to contact my colleague, Mr. Doug Sitland, Municipal Planning Engineer, at 867-979-5020.

Sincerely,

/Tanya Smith, P.Eng.

Capital Programs Officer

Municipal and Community Affairs

cc: Joanasie Maniapik, Hamlet of Pangnirtung

P. Smith, Indian and Northern Affairs Canada

K. Chang-Kue, Department of Fisheries and Oceans

The NWB would appreciate a prompt response to the above concerns so that the Board may proceed with the approval of this project in a timely manner.

Sincerely,

Dionne Filiatrault Technical Advisor

Cc: Hamlet of Pangnirtung Mayor - Joanasie Maniapik
INAC Water Resources Inspector - P. Smith

DFO - K. Chang-Kue