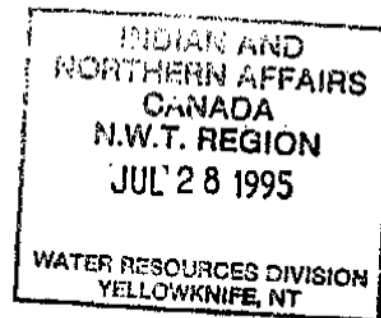




July 26, 1995



*Arctic Bay  
W.B.B.  
Dugout  
Dirt*

Mr. Rick Armstrong  
Capital Programs Officer  
Municipal and Community Affairs  
Government of the Northwest Territories  
Iqaluit, NT XOA 0H0

Dear Mr. Armstrong:

RE: ARCTIC BAY TRUCKFILL PLANNING STUDY

Thank you for the above noted submission dated April 4, 1995. The Northwest Territories Water Board completed a review of the study and offers the following comment for your consideration.

The report recommends that the truckfill station be serviced by an onsite power supply. It should be ensured that appropriate guidelines for spill contingency planning and fuel storage are taken into consideration during the design stage of the project.

Please note that the approval of the local health agency may also be required. It is recommended that you contact the Regional Medical Health Officer at the Regional Health Board headquarters for more information.

If you require further assistance, please contact this office. If your inquiry is of a technical nature, please contact Mr. Brian Collins at (403) 920-8219 or Mr. John Witteman at (403) 920-8240 of the Water Resources Division.

Sincerely,

Gordon Wray  
Chairman  
N.W.T. Water Board

cc-Regional Medical Health Officer

INDIAN AND NORTHERN AFFAIRS — CANADA  
N.W.T. REGION

JUN 20 1995

WATER RESOURCES  
DIVISION  
YELLOWKNIFE, NT

Page 1 of 3

Northern Affairs Program  
PO Box 100  
Iqaluit, N.W.T.  
XOA OHQ

Fax Nbr: 1-819-979-6445  
Office : 1-819-979-4405

Date: June 20, 1995

File: B9500-1

B9545-5. (all communities)

INDIAN AND NORTHERN  
AFFAIRS —  
N.W.T. REGION

JUN 20

Iqaluit
Pangnirtung
Cape Dorset
Lake Harbour
Arctic Bay
Pond Inlet
Nanisivik
Grise Fiord
Clyde River
Igloodik
Resolute Bay
Broughton Isl.
Hall Beach
Sanikiluaq

To: Brian Collins  
Municipal Coordinator  
Water Resources  
(463) - 873-9248

Transmittal Note:

Brian

For your review and submission to  
Ron Kent, MACA.

Thanks,

RO

Number of Pages to Follow:

2 short

0 long



Indian and Northern  
Affairs Canada

Affaires Indiennes  
et du Nord Canada

Paul Smith

Water Resources Officer  
Northern Affairs Program

P.O. Box 100  
Iqaluit, N.W.T.  
XOA OHQ

Bus. (819) 979-4405  
Res. (819) 979-2449  
Fax (819) 979-4445

Canada

Memorandum

Brian Collins  
Municipal Coordinator  
Water Resources  
Yellowknife, NT

June 20, 1995

B9545-5-(all communities)  
B9500-1

Sewage Risk Assessment Exercise: Baffin Region

Reference: May 29, 1995 Letter for Distribution from Ron Kent.

1. The DIAND Nunavut District Office has, in response to the above noted letter, taken the opportunity to complete the Risk Assessment Matrix.
2. The matrix is self-explanatory, however, there are a few comments that I wish to make regarding the final scoring.
3. With respect to Resolute Bay, it has scored very low, but does not necessarily deserve this rating. Raw sewage, although diluted, flows directly into the ocean.
4. As Sanikiluaq is also within the Baffin Area of the Nunavut District, I have completed the scoring for this community, although the matrix supplied does not make allowances for this community.
5. While this exercise is obviously of a benefit to MACA, this office is somewhat hesitant in assigning priorities to communities if it means that the Water Board agrees to certain time-frames in which communities receive proper sewage disposal systems in that licensing may also be prioritized. As we have previously indicated, licensing is not a matter of prioritizing. All communities in the Nunavut District should be licensed.
6. This office would appreciate receiving the final results of this exercise when completed.



Paul Smith  
Water Resources Officer  
Nunavut District

cc. Mike Ferris, Superintendent, MACA, Iqaluit

# Risk Assessment Matrix Baffin Communities

Community	Documented Problem Score	Concern Score Health	Land	Water	Regulatory	Impact	Sum of Concern Scores	Advice to Mgt.	Final Rating
Melville	(2+10)	4	2	6	10	10	384	10	3840
Pangnirtung	(2+2)	8	10	6	2	8	136	10	1360
Cape Dorset	(2+2)	2	6	6	8	8	120	10	1200
Lake Harbour	(2+2)	8	10	6	2	4	120	10	1200
Arctic Bay	(2+2)	6	6	6	6	6	120	8	960
Road Lake	(2+2)	2	10	2	6	8	112	8	896
Nainivik	(2+2)	10	2	2	8	4	104	8	832
Grisu Fiord	(2+2)	2	6	6	4	6	96	2	528
Clyde River	(2+2)	2	6	6	4	6	96	2	192
Iqrofik	(2+2)	2	2	6	4	8	88	2	176
Rosolute Bay	(2+2)	8	2	2	2	4	72	2	144
Broughton Isl.	(2+2)	2	6	2	2	6	72	2	144
Hall Beach	(2+2)	2	2	2	4	6	64	2	128
Saibhuag	(2+2)	2	2	2	4	4	56	2	112

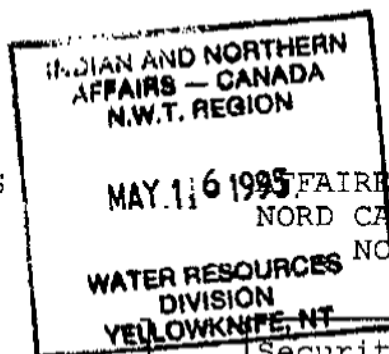
\* Note: A value of 6 was chosen for the "Regulatory Concern", as it is the opinion of the DIAND Nunavut District Office that neither a "4" or "8" was an appropriate choice. Neither community is licensed, and very few sewage effluent samples have been collected that would allow a determination as to whether or not the guidelines are being met.

INDIAN AND NORTHERN AFFAIRS  
CANADA

MEMORANDUM

To/A  
Yvette Morin  
Secretary  
Technical Advisory Committee

From/De  
Francis Jackson  
Pollution Control Specialist  
WM&P



FAIRES INDIENNES ET DU  
NORD CANADA  
NOTE DE SERVICE

Security-Class. Sécurité

Our File - N/ Référence

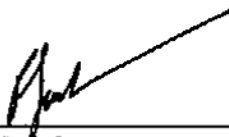
Your File -V/ Référence

Date  
16 May 1995

SUBJECT: Arctic Bay-Truckfill Planning Study

Arctic Bay  
Yvette

I have reviewed the above submission and have no comments/concerns.

  
Francis Jackson  
Pollution Control Specialist

c.c. Brian Latham, Head, WM&P.



Environment  
Canada

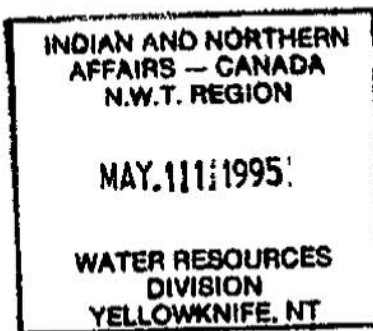
Environnement  
Canada

## Environmental Protection

P.O. Box 370 • Yellowknife, NT • X1A 2N3 • (403) 920-6062 • Fax: (403) 873-8185

May 8, 1995

Yvette Morin  
Secretary  
Technical Advisory Committee, DIAND  
P.O. Box 1500  
Yellowknife, NT.  
X1A 2R3



*Arctic Bay  
Yvette*

Dear Yvette:

On behalf of Environmental Protection Branch I have reviewed MACA's "Truckfill Planning Study - Arctic Bay". The only concern that I have with this proposal deals with the power supply for the pump house. The recommended power supply is to be an on site power plant. When this project moves into the predesign phase MACA should ensure that the appropriate guidelines ( spill contingency planning and fuel storage requirements) are available to the firm who will be designing this facility. This should ensure that the appropriate designs for fuel storage are incorporated into the final design.

If you have any question please contact me at 920-6062.

Sincerely,

Stephen Harbicht  
Head, Assessment and Monitoring

cc. Laura Johnston Division Manager, EPB, Yellowknife.





Government  
of Canada

Gouvernement  
du Canada

*JK*

## MEMORANDUM NOTE DE SERVICE

TO  
A

Yvette Morin  
Secretary  
Technical Advisory Committee

FROM  
DE

Chris Spence  
Hydrologist  
Water Resources Division

Security Classification de sécurité

Our File - Notre référence

Your File - Votre référence

Date May 10, 1995

SUBJECT/OBJET: TRUCKFILL STATION - ARCTIC BAY

*Arctic Bay  
Yvette*

I have the following comments on the report outlining the alternatives for the truckfill station at Arctic Bay, . First, I can find no statement that says the options without storage in town meet the fire marshal's requirements, yet in Figure 7.1 it is stated they do. The only way to increase storage in town with options W1M, W2M and S1M is with more trucks sitting in town. I found no reference to extra trucks for these options under capital costs in Table 7.3. Second, the life cycle costs in Figure 7.1 appear to include the up front capital cost. That means capital cost is counted twice and, in turn, the analysis is biased toward the station options at Marcil Lake. If capital costs are subtracted from the 'life cycle costs', options W2T ( the community's first choice) and W2M cost the same. While this doesn't affect the result of the analysis, it shows that perhaps more consideration of option W2T should be given. Option W2T is the community's choice and it will meet the fire marshal's requirements. Given the information in this report, W2M will not. If W2M is chosen, it should be assured that extra trucks are purchased so that the town can meet fire marshal's requirements.

*Chris Spence*

Chris Spence ( 920 - 8237 ) ( Fax: 873 - 9318 )

c.c. Brian Latham



34  
Arctic Bay.  
Yvette  
May 05, 1995

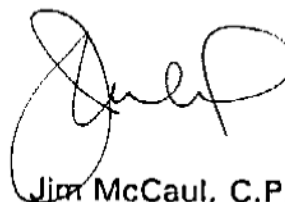
Yvette Morin  
Secretary  
Technical Advisory Committee  
P.O. Box 1500  
YELLOWKNIFE, NT X1A 2R3

Dear Yvette

**TRUCKFILL PLANNING STUDY**

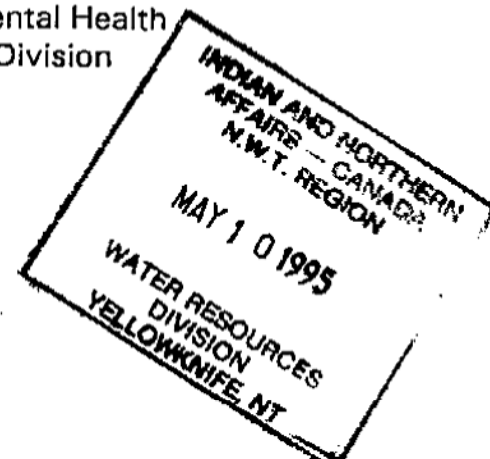
I have forwarded this application to Bruce Stephen, A/Senior Environmental Health Officer, Baffin Regional Health Board for comment.

Sincerely



Jim McCaul, C.P.H.I. (C)  
Consultant, Environmental Health  
Environmental Health Division

c: Bruce Stephen  
A/SEHO, BRHB





Memorandum

Yvette Morin  
Secretary  
Technical Advisory Committee

May 1, 1995

B9545-3  
B9545-5-A11

*Arctic Bay  
Yvette*

Truckfill Planning Study; Arctic Bay

- Ref.: - My December 5/94 memo to B. Collins, and;  
- Your April 13/95 memo requesting comments.

INDIAN AND NORTHERN  
AFFAIRS — CANADA  
N.W.T. REGION

MAY 23 1995

WATER RESOURCES  
DIVISION  
YELLOWKNIFE, NT

1. Further to your April 13th request for final comments, I have no additional comments to offer than those in my December 5, 1994 memorandum.

*PSH*  
Paul Smith  
Water Resources Officer  
Nunavut District



To  
À

TAC Members (Municipal)

From  
De

Yvette Morin  
Secretary  
Technical Advisory Committee

Security Classification - Classification de sécurité

Our File - Notre référence  
TAC General  
Arctic Bay

Your File - Votre référence

Date  
April 13, 1995

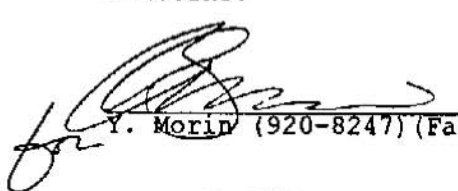
Subject  
Objet

TRUCKFILL PLANNING STUDY

Enclosed for your review and comments is the above mentioned report.

Please provide any comments that you may have on or by May 11, 1995.

If no response is received by the due date, we will assume that you have no concerns.

  
Y. Morin (920-8247) (Fax 873-9318)

c.c. J. Witteman  
B. Latham  
B. Collins  
Nunavut District

Distribution List

E. Madsen	- INAC
H. Gaukel	- GNWT - Ren. Res.
D. McKenna	- DFO
S. Harbicht	- EP
J. MacKinnon	- GNWT Health
Y. Bungay	- Assoc. of Mun.
A. McRobert	- Land Administration
S. Cheema	- DPW
R. Kent	- MACA

Encl

BC/ec

Arctic.2

NORTHWEST  
TERRITORIES  
WATER BOARD



ALJF  
60LX

April 11, 1995

Mr. Rick Armstrong  
Capital Programs Officer  
Municipal and Community Affairs  
Government of the Northwest Territories  
IQALUIT, NT X0A 0H0

Arctic Bay  
Nunavut Dist.

Dear Mr. Armstrong:

**RE: ARCTIC BAY**

I acknowledge your April 04, 1995 letter with attached *Truckfill Planning Study*.

Your report will be reviewed and you will be contacted if there are concerns or should additional information be required.

INDIAN AND NORTHERN  
AFFAIRS — CANADA  
N.W.T. REGION

APR 12 1995

WATER RESOURCES  
DIVISION  
YELLOWKNIFE, NT

Sincerely,

Pamela R. LeMouel  
Executive Assistant  
N.W.T. Water Board



Northwest  
Territories Baffin Region

MUNICIPAL AND COMMUNITY AFFAIRS  
FILE: MC-94-36

COPY	
BOARD.	6
G.W.	1
E.A.	1
W. RES.	1
File -	UN



April 4, 1995

Gordon Wray  
North West Territories  
Water Board  
P.O. Box 1500  
Yellowknife, NT  
X1A 2R3

Document 15  
Done up to  
first 17  
Arctic Bay  
navut

#### TRUCKFILL PLANNING STUDY - ARCTIC BAY

Enclosed for review is a copy of the planning study for the truckfill station planned for Arctic Bay. We would hope to commence the design of the station in 1996.

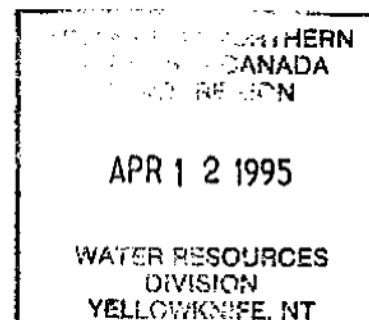
If there are any concerns with the plan, please contact us. We would appreciate a speedy response as further consultations with the community will take place this summer.

Yours sincerely,

*Rick Armstrong*

Rick Armstrong  
Capital Programs Officer  
MACA, Iqaluit

cc: Delia Chesworth, PW&S Iqaluit  
Al Shevkenek, MACA Yellowknife



NORTHWEST  
TERRITORIES  
WATER BOARD



WATER REGISTER

COPY	
BOARD	_____
G.W.	_____
E.A.	_____
NO:RE86-3-	<del>100</del>
File -	_____

January 19, 1995

Mr. Gary Strong, P. Eng.  
Project Manager  
M.M. Dillon Limited  
Suite 201, 5102 - 51st Street  
Yellowknife, NT X1A 1S7

Dear Mr. Strong:

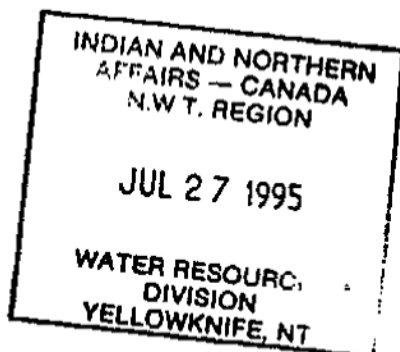
RE: ARCTIC BAY TRUCKFILL STATION PLANNING STUDY

Thank you for your letter of November 17, 1994 with the attached draft report regarding the subject matter.

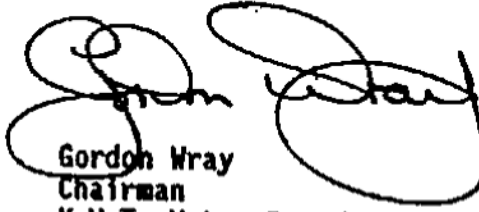
The Northwest Territories Water Board reviewed the draft and offers the following recommendations for your consideration.

1. A spill prevention/contingency plan should be developed for the proposed construction.
2. There is no mention of ice-scour prevention for the intake. It is recommended that this be considered in the design.

If you require further assistance, please contact this office. If your inquiry is of a technical nature, please contact Mr. Brian Collins at (403) 920-8219 or Mr. John Witteman at (403) 920-8240 of the Water Resources Division.



Sincerely,

  
Gordon Wray  
Chairman  
N.W.T. Water Board



Environment  
Canada

Environnement  
Canada

B



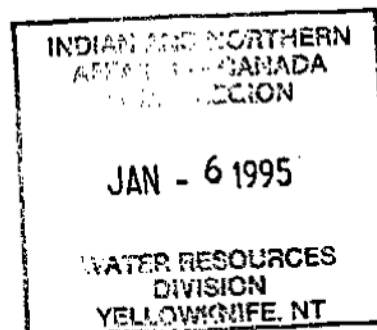
CANADA'S GREEN PLAN  
LE PLAN VERT DU CANADA

# ENVIRONMENTAL PROTECTION

P.O. Box 370 • YELLOWKNIFE, NT • X1A 2N3 • (403) 920-6062 • FAX: (403) 873-8185

January 6, 1995

Yvette Morin  
Secretary  
Water Resources, Technical Advisory Committee  
P.O. Box 1500  
Yellowknife  
NT  
X1A 2R3



Arctic Bay  
Yvette

Dear Yvette:

On behalf of the Environmental Protection Branch I have reviewed MACA's Planning study -Truckfill station for Arctic Bay, N.W.T.

Overall there is no concerns regarding the approach that was used to reach the final option. The information indicates that Marcil Lake has substantial volume available for water supply with a healthy recharge rate, therefore drawdown of the lake is a non concern.

On shore activities should be developed in a manner such that erosion an/or any spill of hazardous materials, i.e. fuels for the on site generator are not allowed to enter Marcil Lake.

A concern that I have regarding the intake pipe relates to ice scour protection. The only information supplied was "a heat traced insulated 100 mm intake pipe extending from on shore to an intake screen." indicates that no ice scour protection will be available. This concern should be addressed.

If you have any question regarding the above comments please contact me at 920-6062.

Sincerely,

Stephen Harbicht  
Head, Assessment and Monitoring

Canada

Printed on recycled paper  
Imprimé sur du papier recyclé



INDIAN AND NORTHERN AFFAIRS  
CANADA

MEMORANDUM

AFFAIRES INDIENNES ET DU  
NORD CANADA

NOTE DE SERVICE

To/A

Yvette Morin  
Secretary  
Technical Advisory Committee  
Water Resources Division

From/De

Bob Reid  
Hydrologist  
Water Resources Division  
Yellowknife

Security-Class. Sécurité

Our File - N/ Référence

Your File -V/ Référence

Date

7 December 1994

**SUBJECT: Arctic Bay Planning Study - Truck Fill Station**

I have reviewed the above document and have no comments or concerns with respect to water quantity.

*Bob Reid*

Bob Reid

INDIAN AND NORTHERN  
AFFAIRS — CANADA  
N.W.T. REGION

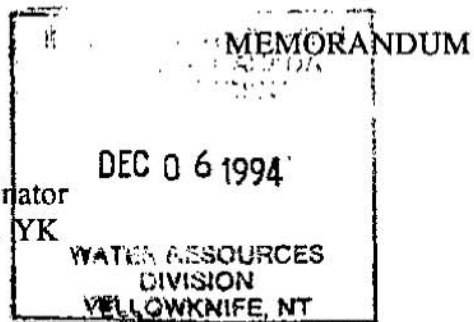
DEC 07 1994

WATER RESOURCES  
DIVISION  
YELLOWKNIFE, NT

c.c. Brian Latham

*Arctic Bay  
Yvette*

Brian Collins  
Municipal Coordinator  
Water Resources, YK



December 5, 1994

B9545-5-A11

*Arctic Bay  
Yvette*

Planning Study: Truckfill Station - Arctic Bay

Ref: Draft Report Prepared for MACA by MM Dillon Ltd. Dated Novemebr 1994.

1. For your information, I have received and reviewed the above noted report on behalf of this office.
2. The planning study seems to be quite comprehensive and has taken into consideration the ideas and concerns of the local administration.
3. I have no concerns with the recommendations made as to the location and method of operation proposed for this site.

A large, stylized handwritten signature in dark ink, appearing to read "P. Smith".

Paul Smith  
Water Resources Officer  
Nunavut District

A small, handwritten mark or signature in the bottom left corner, possibly a date or initials.





To  
À

TAC Members (Municipal)

From  
De

Yvette Morin  
Secretary  
Technical Advisory Committee

Subject  
Objet

**ARCTIC BAY PLANNING STUDY**  
**TRUCKFILL STATION**

Security Classification - Classification de sécurité
Our File - Notre référence <b>TAC General Arctic Bay</b>
Your File - Votre référence
Date <b>December 2, 1994</b>

Enclosed for your review and comments is a copy of the above-noted planning study.

Please provide any comments that you may have on or by January 6, 1995.

If no response is received by the due date, we will assume that you have no concerns.

  
Y. Morin (920-8247) (Fax 873-9318)

c.c. J. Witteman  
B. Latham  
B. Collins  
Nunavut District

**Distribution List**

K. McDonnell	- INAC
H. Gaukel	- GNWT - Ren. Res.
D. McKenna	- DFO
S. Harbicht	- EP
J. MacKinnon	- GNWT Health
Y. Bungay	- Assoc. of Mun.
J. Umpherson	- Lands
S. Cheema	- DPW

Encl

YM/ec/arctic.1