ᓄᓇᕗᑦ ᐊᖏᔪᓂᖅᓴᓐᓂᒃ ᑲᑎᒪᔨᖏᑦ/NUNAVUT IMPACT REVIEW BOARD/NUNAVUTMI KANOGILIYALIANIKOT ELITTOHAIYEOPLOTIK KATIMAYIIT

April 22, 1999

VIA: **Fax**

Dear Kitikmeot Distribution List

Re: Your comments a fuel storage facility expansion/upgrade.
NIRB File#99FN012
Fuel Storage Facility Expansion and Upgrade
Public Works, Telecommunications and Technical Services

Enclosed please find an application for an authorization to conduct a fuel storage expansion and upgrade in Kugluktuk. Please use the NIRB file no.99FN012, and the contact person listed below, in all future correspondence regarding this application.

Please assess the project proposal for the potential effects on the ecosystemic and socio-economic environments, from your knowledge of the area or your field of expertise.

Please forward your comments and recommendations to NIRB by **Wednesday May 19, 1999.**
A comment form has been included with the package. If you require additional information please refer to table of contents and call our office.

If you have any questions regarding the application, please do not hesitate to contact our office. Your input is greatly appreciated.

Yours truly,

Gladys Joudrey
Environmental Assessment Officer
Phone (867) 983-2593
Fax (867) 983-2574 or
(867) 983-2594

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COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: _Fuel Storage Facility Expansion/Upgrade_____
Proponent: _Public Works, Telecommunications and Technical Services_____
Location: ___Kugluktuk_____, NIRB#: _99FN012_____
Comments Due By: _Wednesday May 19, 1999_____

Indicate your concerns about the project proposal below:

- ☐ no concerns
- ☐ water quality
- ☐ terrain
- ☐ air quality
- ☐ wildlife and their habitat
- ☐ marine mammals and their habitat
- ☐ birds and their habitat
- ☐ fish and their habitat
- ☐ heritage resources in area
- ☐ traditional uses of land
- ☐ Inuit harvesting activities
- ☐ community involvement and consultation
- ☐ local development in the area
- ☐ tourism in the area
- ☐ human health issues
- ☐ Other:_____

Please describe the concerns indicated above:

Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES ☐ NO ☐
Any additional comments?

RECEIVED
APR 27 1999

Name of person commenting: _____ **of** _____
Position:_____ **Organisation:**_____
Signature:_____ **Date:** _____

NON-TECHNICAL PROJECT PROPOSAL SUMMARY

9. The existing fuel storage facility in Kugluktuk, NT, requires upgrading to ensure that it has enough capacity to provide fuel to the community. It is currently running very low on diesel capacity and Jet A1 capacity and will likely experience shortfalls within the next few years. Other problems include:

- The secondary containment volume (in all but one of the diked areas within the existing facility) does not meet current National Fire Code requirements; and
- The secondary containment system is in poor shape. The existing liner, dike, and berm (which was constructed of fine sand) have been damaged by rodents over the years.

The facility upgrade is intended to improve the containment system (berm) to meet current codes, and expand the containment area to allow for a growth in the communities fuel usage. The berm is being designed for a twenty-year life span. The liner is being changed from an HPDE 40 mil liner to an HDPE 60 mil liner and the surface of the berm will be constructed with hard packed crushed rock to dissuade hikhik's from using the area as habitat.

One new diesel tank will be added and two existing vertical tanks will be increased in height to provide for storage to meet the communities needs for a ten year period.

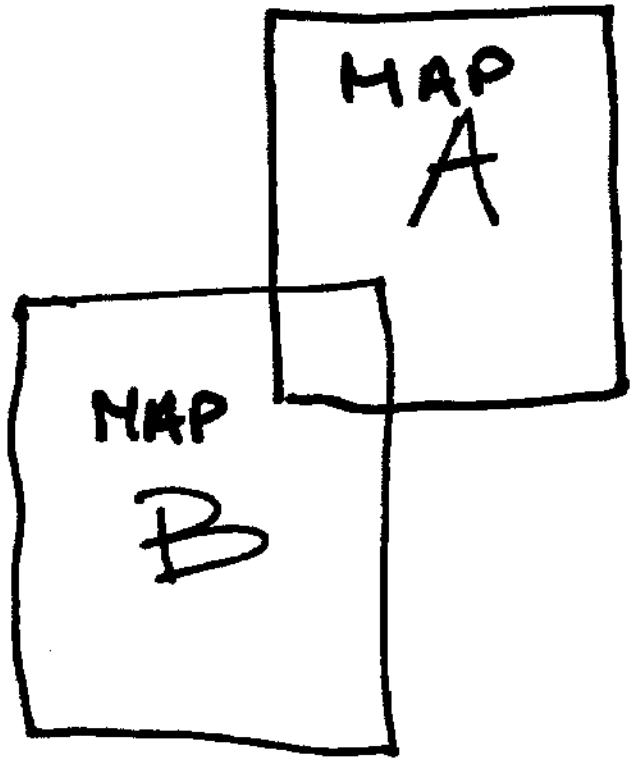
Resupply:
It is proposed that new resupply lines will be run down to the proposed new sea lift beach. This portion of the contract is being delayed until 2001 to allow for final approvals on the sea lift beach to be obtained. Assuming the sea lift project is approved then the existing resupply lines that run through town can be removed.

If the resupply relocation is not approved; other options are available including:

- Resupply with new lines in new location without new dock
- Upgrade existing resupply lines and continue resupply with existing lines (not the community preferred option)

Remediation:
It is anticipated that some remediation (environmental clean-up) work will need to be done along with the upgrade of the tank farm. A Phase II environmental assessment has been completed. A Phase III environmental assessment will be done as soon as possible to determine a good estimate of the quantity of contaminated soil. The remediation of the soil will be done as a separately, but the initial soil removal work will be done as part of this work. Any contaminated soil will be excavated and stored in a contained area (refer to plans). The location of this temporary storage area will be determined with assistance of the community. (In order to select a suitable site the results of the Phase III study will be needed.)

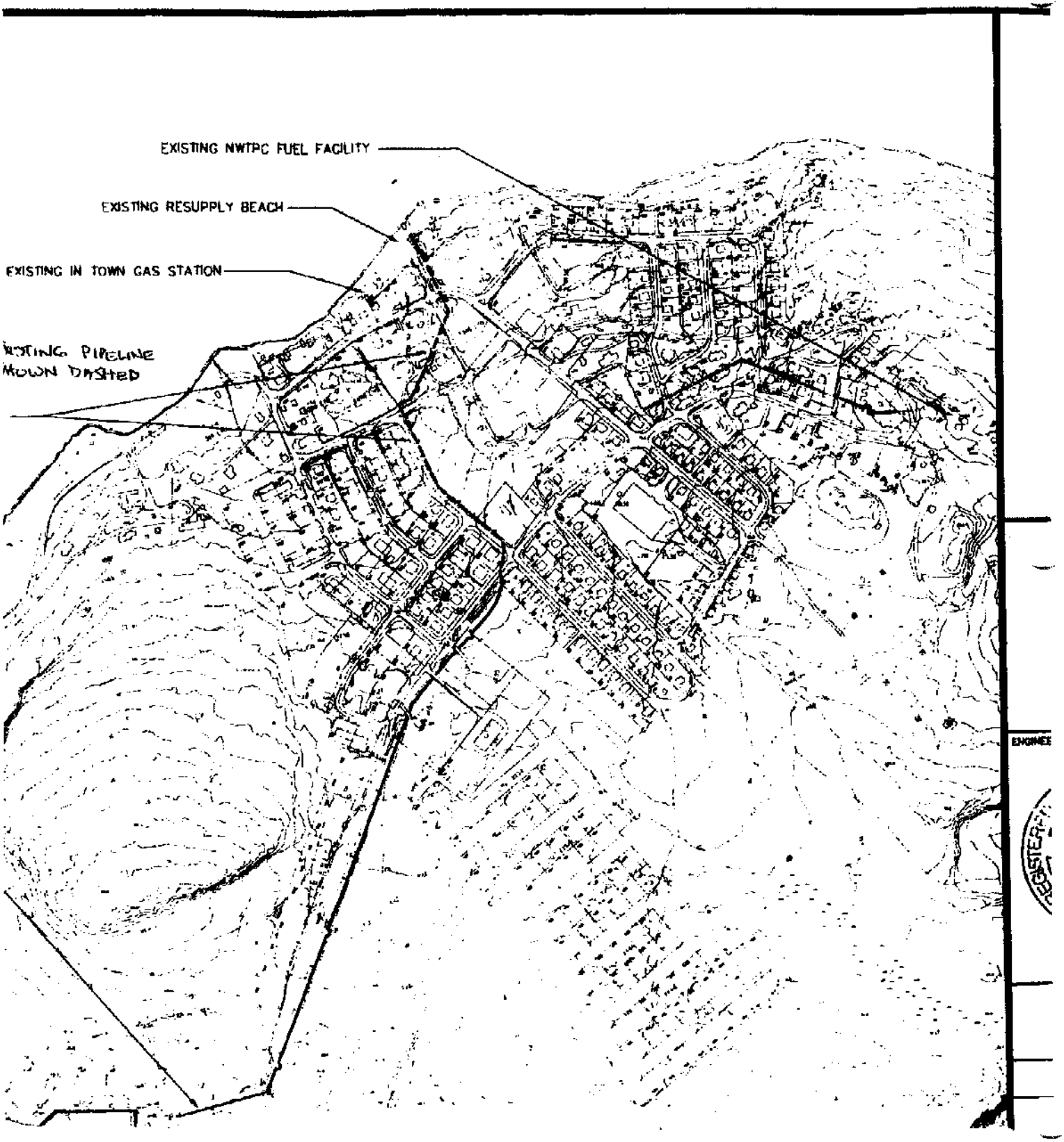
FUEL STORAGE UPGRADE/EXPANSION, KUGLUKTUK
MAP PLAN

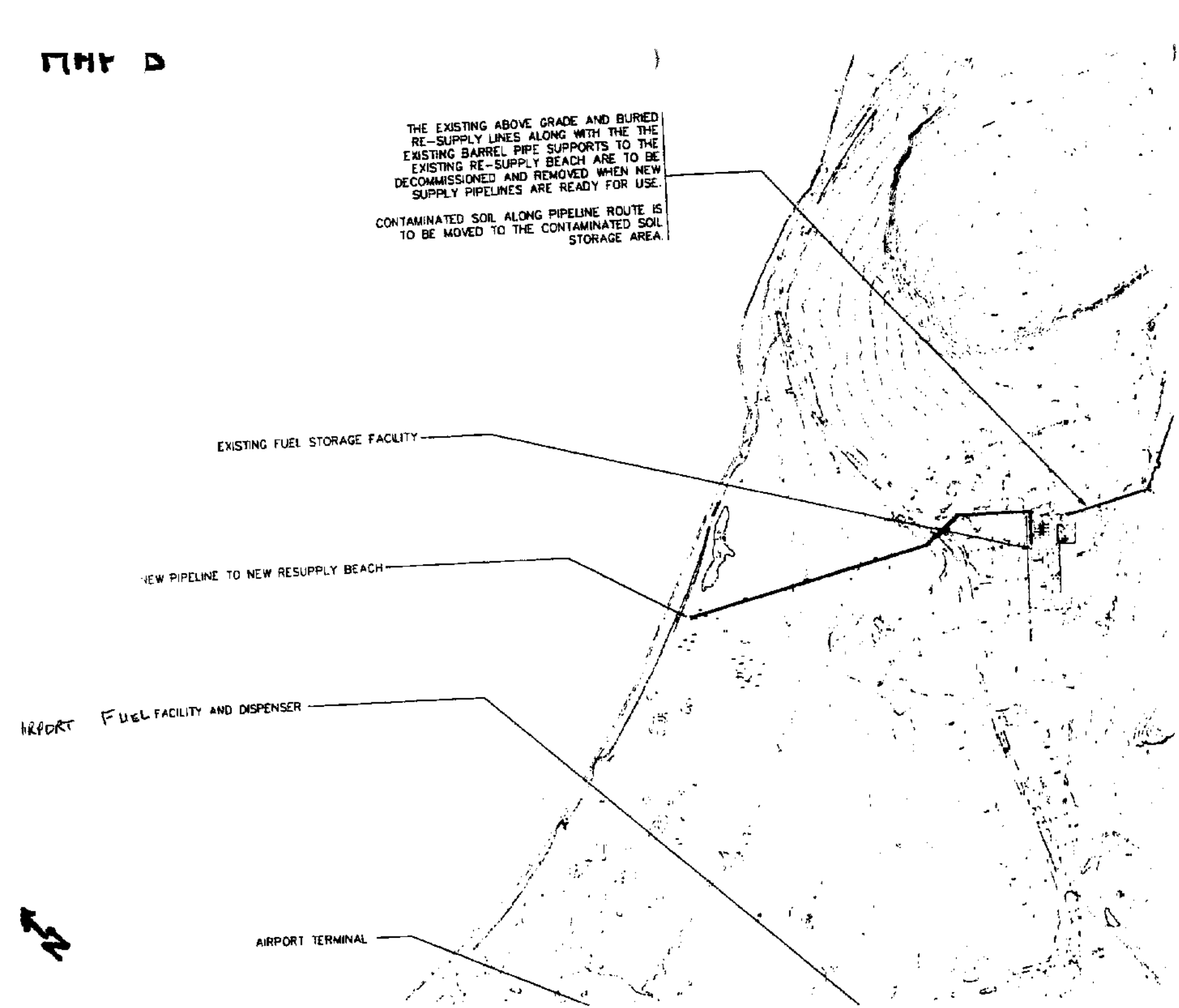


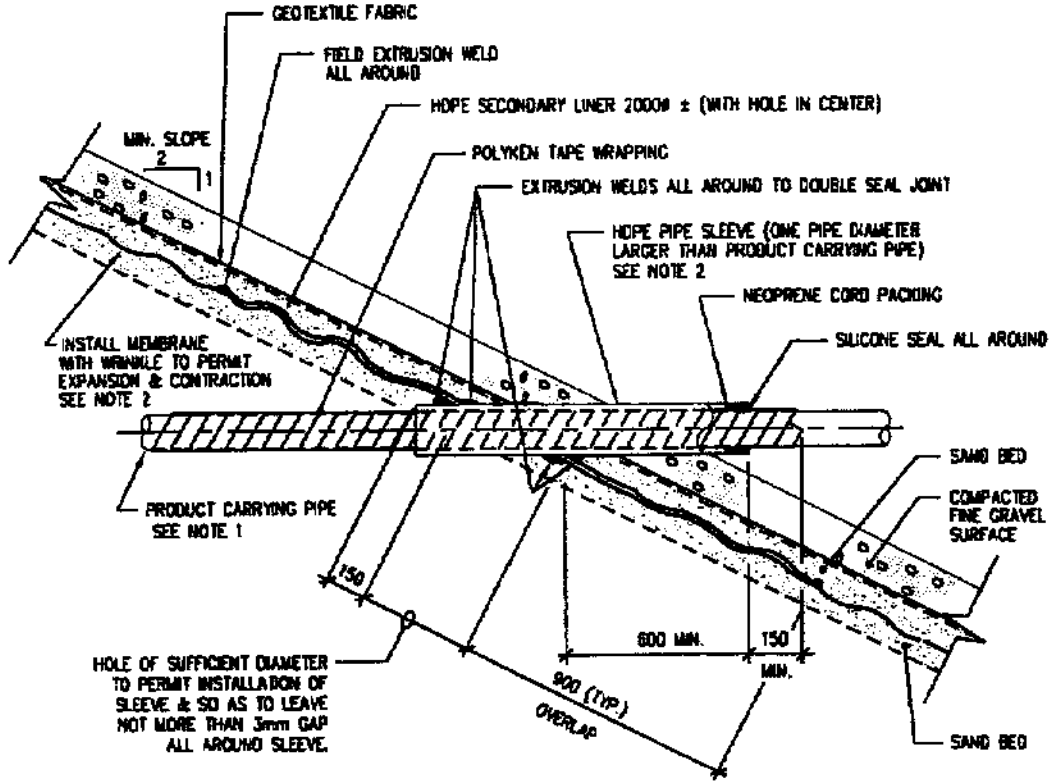
FUEL STORAGE UPGRADE/EXPANSION
KUGLUKTUK

N

MAP A




THE EXISTING ABOVE GRADE AND BURIED RE-SUPPLY LINES ALONG WITH THE THE EXISTING BARREL PIPE SUPPORTS TO THE EXISTING RE-SUPPLY BEACH ARE TO BE DECOMMISSIONED AND REMOVED WHEN NEW SUPPLY PIPELINES ARE READY FOR USE.
CONTAMINATED SOIL ALONG PIPELINE ROUTE IS TO BE MOVED TO THE CONTAMINATED SOIL STORAGE AREA.
EXISTING FUEL STORAGE FACILITY
NEW PIPELINE TO NEW RESUPPLY BEACH
AIRPORT FUEL FACILITY AND DISPENSER
AIRPORT TERMINAL



TYPICAL SECTION

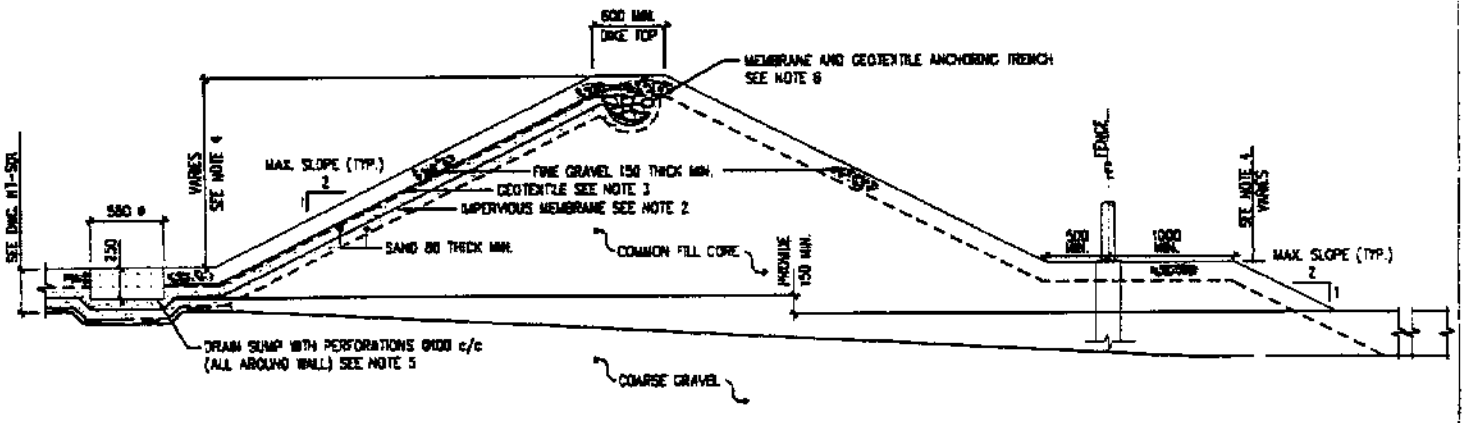
NOTES:

1- FOR SIZE OF PROJECT PIPING SEE PARTICULAR PROJECT DRAWINGS.
2- FOR MEMBRANE & SLEEVE MATERIAL SEE SPECIFICATIONS.

Northwest Territories Public Works & Services

Drawing Title: TYPICAL SLEEVE AT PIPE THROUGH DIKE MEMBRANE DETAIL

Design	Ver.	Scale	Revised By	Drawing No.
EDZ	EDZ	N.T.S.	ADWEI	NT-S04
Drawn	Appr.	Date	Revised On	
CAD/SL		99/04/29	99/02/08	



SECTION

NOTES:

1- FOR BACKFILL MATERIAL & SOIL CLASSIFICATION SEE SPECIFICATIONS.

2- FOR MEMBRANE MATERIAL SEE SPECIFICATIONS.

3- FOR GEOTEXTILE MATERIAL SEE SPECIFICATIONS.

4- FOR EXISTING & FINISH GRADES SEE PARTICULAR PROJECT DRAWINGS.

5- FOR DRAIN SUMP SEE SPECIFICATIONS.

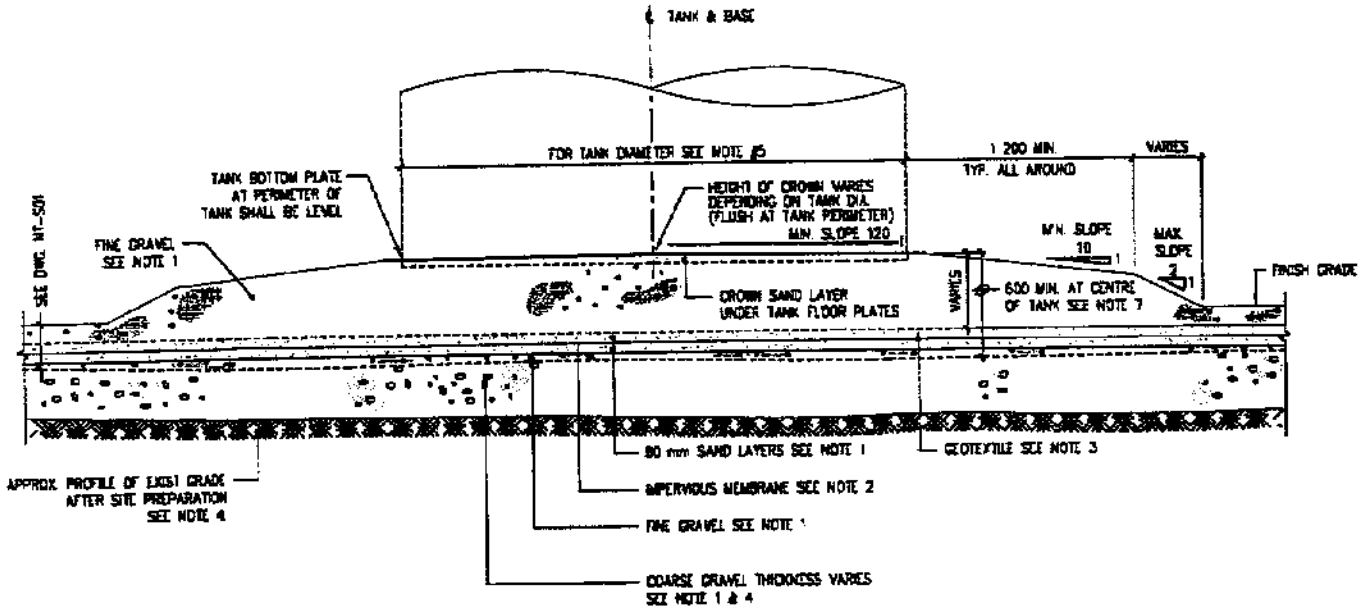
6- FOR ANCHORING TRENCH SEE SPECIFICATIONS.

Northwest Territories Public Works & Services

Drawing Title

TYPICAL SECTION THROUGH DIKE WALL & DRAIN SUMP

Design	Cor.	Scale
EDZ	EDZ	N.T.S.
Drawn	Appr.	Date
CAB/SL		94/04/29
Revised By		Drawing No.
ADMC		NT-S03
Revised On		
99/02/08		



TYPICAL SECTION

NOTES:

1- FOR BACKFILL MATERIAL & SOIL CLASSIFICATION SEE SPECIFICATIONS AND DRAWING NT-S01.

2- FOR MEMBRANE MATERIAL SEE SPECIFICATIONS.

3- FOR GEOTEXTILE MATERIAL SEE SPECIFICATIONS.

4- FOR EXISTING & FINISH GRADES SEE PARTICULAR PROJECT DRAWINGS.

5- FOR VERTICAL TANK DIAMETER SEE PARTICULAR PROJECT DRAWINGS.

6- MIN. SLOPES AT EDGES OF GRANULAR BASE SHALL BE MAINTAINED AS SHOWN.

7- FOR ACTUAL THICKNESS OF TANK BASE FOUNDATION SEE PARTICULAR PROJECT DRAWING.

Northwest Territories Public Works & Services

Drawing Title
TYPICAL GRANULAR BASE FOR VERTICAL TANKS

Design: EDZ	Ver.: EDZ	Scale: N.T.S.
Drawn: CAD/SL	Appr.	Date: 99/04/29
Revised By: ADREI		Drawing No.: NT-S02
Revised On: 99/02/08		