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DETAILED LEVEL 1 SCREENING REPORT

(for completion / retention by
Water Resources.)

Environmental Assessment and Review Process (EARP)
Indian and Northern Affairs Canada,
Northern Affairs Program, Water Resources Division

~ Summary of TAC + NAP comments

1. PROJECT IDENTIFICATION

Applicant: Hamlet of ARVIAT (S. Eskimo Point)
Licence Application: Renewal: Amendment: Other:
Present Licence Number: N6L4-1562
Date of Application: 12/03/92 Proposed Date of Undertaking: / / when licensed
Submission Title: Municipal water licence application
Location: community on the west shore of Hudson Bay
Project Description: water withdrawal, sewage and
solid waste disposal for municipal purposes
Water from Miki-laag Lake & Wolf Creek piped to reservoir;
sewage trucked to lagoons; garbage etc. to adjacent landfill
Relevant Plans/Studies: application, MACA notes & maps (sketches) 1985
AESL Design Briefs (Water, Sewage & Solid Waste); inspection & water quality report
NAP District: KEEWATIN (in Rankin Inlet)
Class exemption from further Screening: Yes No X If "Yes"
explain decision and then proceed to "Recommendations":

Previous screening of similar projects Yes X No , Describe: Several municipal licences

Date distributed: 22/05/92 Date Comments due: 05/11/92 (sent 2x)

Other regulatory permits: ☐ Ocean Dumping ☐ Fisheries Act ☐ TLA
☐ Other

2. Description of Potential Environmental Effects and Concerns:

2.1 Bio-Physical

2.1.1 Plants/Animals: No significant impacts are
anticipated. Although raw sewage reaches the ocean,
impacts will likely be minimal due to mixing etc.
Significance of Impact or Deficiency: nil - minor; some info gaps.

2.1.2 Fish Habitat/Utilization: There is expected to be some impact
on grayling in Wolf Creek from withdrawal, and possible impacts on
fish/shellfish near outfall in ocean waters.
Significance of Impact or Deficiency: minor; need more information

2.1.3 Water Quality: concern exists for contamination of Wolf
Creek by vehicles (ATVs) crossing through untreated sewage
discharge path en route to collect water at Wolf Creek, and on
Significance of Impact or Deficiency: minor; need to mitigate

2.1.4 Hydrologic Regime: No specific concerns were noted,
other than a lack of information on flow rates and
local drainage patterns, as possible on fish habitat - mitigable.
Significance of Impact or Deficiency: insignificant - minor;

2.1.5 Soils: No concerns were noted or
expected.
Significance of Impact or Deficiency: insignificant

2.1.6 Groundwater: No specific concerns were noted or anticipated.

Significance of Impact or Deficiency: minor.

2.1.7 Surfacewaters: As noted, there is some concern re contamination of surface (Wolf Creek) and also from surface runoff waters if not properly diverted away from lagoon dump.

Significance of Impact or Deficiency: minor - mitigable

2.1.8 Air Quality: No concerns were noted.

Significance of Impact or Deficiency: nil

2.2 Socio-Economic

2.2.1 Public Concerns: None noted, although local residents apparently do not like the taste of current water supplied from Mitihaug lake.

Significance of Impact or Deficiency: minor - mitigable

2.2.2 Land/Water Use: Concern noted over possible contamination of Wolf Creek due to interaction between ATU's & raw sewage from lagoon.

Significance of Impact or Deficiency: minor - mitigable

2.2.3 Resource Users: Possible impact from raw sewage on shellfish & other fish in marine waters around outlet to ocean.

Significance of Impact or Deficiency: minor - mitigable

2.2.4 Employment: No impacts are expected.

Significance of Impact or Deficiency: nil

2.2.5 Land Claims: No concerns were noted by T.F.N. land involved is within B.C.T. prerogative.

Significance of Impact or Deficiency: Nil

2.3 Other

2.3.1 Consequence of Accidents: No concerns noted.

Significance of Impact or Deficiency: nil

2.3.2 Public Health: As noted, govt officials have expressed some concerns over possible contamination of Wolf Creek - a local water source & wanted to know the source.

Significance of Impact or Deficiency: minor - mitigable

2.3.3 Cultural: No concerns were noted or expected.

Significance of Impact or Deficiency: nil

2.3 Other: None identified.

Significance of Impact or Deficiency: nil

3. Summary of Recommended/Planned Mitigation Measures:

- Review W.M. plans for sewage & solid waste water to minimize impact on water quality e.g. drainage diversions.
- Install foot / ATV bridge over Wolf Creek to reduce contamination potential.
- determine best timing for water withdrawal from Wolf Creek (if used) to lessen impact on fish.

4. Monitoring Requirements:

Monitoring of effluent quality, respecting the permit was suggested as well as ongoing monitoring (in GYO license) of 17 water sources used, or at points along Wolf Creek in particular. - EPI/DOE noted the requirement for effluent into fish bearing waters to be non-toxic. Based on information

5. Project Alternatives (assessed by applicant or recommended by reviewers):

None per se although the use of Wolf Creek as the main, or alternate water source has still to be assessed due to potential health concerns, and possible impacts on fish

6. Consultation/Public Review:

Agency	Sent	Respond	Agency	Sent	Respond
INAC-NAP - Wat. Res.	☒	☒	DFO	☒	☒
Lands	☒	☐	DOE - EP	☒	☒
En. & Con.	☒	☒	GNWT/MACA Lands	☐	☐
Minerals	☐	☐	Com. Wks.	☐	☐
District	☒	☐	GNWT - Health	☒	☒
GNWT - Ren. Res.	☐	☐	GNWT - DPW	☐	☐
Cham. of Mines	☐	☐	Assoc. Municipal.	☐	☐
Other	☐	☐	Native Org. (TFN)	☒	☐

7. Conclusions/Recommendations:

Although there were concerns expressed regarding the use of Wolf Creek for water and the unknown quality of legacy effluent reaching the river, it was felt that the project could proceed to licensing, providing that environmental & health concerns are dealt with in the license

8. Authorization:

Report Prepared by: Greg Cook Date: 08/12/92

Report Checked by: BMH Date: 09/12/92