

Affairs
CEAA SCREENING FORM - LEVEL I and II
Department of Indian and Northern Development
Northwest Territories Region

1. General File Information on Screening

File Number: N5L3 - 1638

Can be permit or license number

FEAI LD. Reference Number: _____

A number assigned by the Agency, to be inserted here upon receipt of number from Agency

*Project Title: _____

*Alias Project Title: Municipal water license application

Title of project

Proponent: H inlet of Pond Inlet

Alternate project name (if any)

Type of proponent: government - municipal

Company/Applicant

(e.g., Industry, Government, Other private)

*Subject Descriptors: inland waters

*EA Type: screening (level I)

See Appendix A

Screening I and II, Class Screening or Comprehensive Study

*EA Start Date: 1994 0907 (incomplete application at the time)

Date application received

Proposed Date of Activity OPEN : 1996

*EA Determination: 20-1-a

Final screening determination from subsection 20(1) and section 23 - see #13 of Screening Form and insert number here

Project Abandoned Yes _____

Explain reason for abandonment

*EA Determination Date: _____

Date of screening decision

Follow-up program required: NO (unless initiated by Nunavut Water Board or NWRB) - Normally, DIAND inspections of such "projects" will suffice

Yes/No If Yes, by NAD or proponent (or both)

*Estimated Follow-up program termination date: N/A

2. Responsible Authority (RA) Identification

*Lead RA and Screening Division: Water Resources
Division of DIAND (e.g. Water Resources, Land Administration etc.)

*Lead RA Contact: GREG COOK 403-669-2653
Name and telephone # of Regional Manager or Screening

District Nunavut

*Lead RA Trigger Types: Land list
(e.g., proposal, finding, land disposition, law list approvals)

Type of Application Water licence
(e.g., water license, land use permit, quarry permit, lease, reserve, OLC)

Type of Approval being sought: new
(e.g., new, renewal, amendment, cancellation)

Present licence/permit/lease number: N5L3 - 1638

Other RAs or Screening Divisions: NO
If yes, is there an integrated Screening underway?

*Other RA Trigger Types: NO

Other RA Types of Approval: NO

Project File Location: Water Resources Div. / Water Bd.
Office where project file is located

3. Project Location:

*Region: Northwest Territories
Province/Territory

Topographic Map Sheet Number: - 38 B/10
1:50,000 map sheet number

*Geographic Place Name: LASKA : Pond Inlet
(e.g., nearest place name or geographic feature)

Latitude / Longitude: 72°42'00" N 107° - 77°59'00" W
(e.g., degrees, minutes, seconds)

*Drainage Region: Peace Athabasca Arctic Coast Islands Lower Mackenzie Keewatin circle one

Watershed: 08 Salmon Creek f Water Supply Lake
(nearest creek, river, or lake system)

Street Name: -
(complete address of project if it occurs in a municipality)

*Nearest Community: LASKA Pond Inlet

Surrounding Land Status: Commissioners & settlement land.
(e.g., private, Commissioner's, crown land, settlement land)

Special Designation: NO (across straits from Bylot I.
(Yes / No - e.g., heritage river system) Bird Sanctuary)

4. Project Description

*Physical Work Being Assessed: municipal infrastructure: rewater use, waste disposal
(e.g., road, bridge, etc.)

*Multiple Activities: ☒ Yes ☐ No

*Physical Activity as identified from Inclusion List: water use
(e.g., water use, etc.)

*Project Category Code: ☒ Point ☐ Linear ☒ Areal ☐ Circle one

*Phase of Project / Primary Undertaking: construction & operation
(e.g., construction, modification, operation, abandonment, decommissioning, repair, maintenance, installation, or expansion)

Project Description: Describe thoroughly (e.g. duration of project, size of project, related physical activities, machinery used, fuels and chemical use and storage, etc. (w/ FSC, D.O. inspect))

1) current practice: water supply/distribution - potable water is trucked ^{3 times / week} ^{on demand} to residents, from Water Supply Lake in winter, & Salmon Creek during summer. - most homes & other buildings are fitted with pump out sewage facilities. Trucks collect the sewage 2-3 times/week, & dispose of it in a lagoon no overflow control. Discharge is over a rip-rapped drainage course to the ocean - new lagoon under construction. Solid waste: collected as above, by truck, & dumped in a landfill 500 m. SE of community; some burning of refuse & use of oil, then covered with whatever available. some bulky segregation. Proposed: new, larger capacity sewage lagoon, with proper drainage; a new segregated landfill site, & remediation of existing waste site, and used oil pit & hazardous waste site - summer 1996.

What sources of information did you use?

- ☒ other government data
- ☐ historical maps
- ☒ scientific reports (consultant)
- ☐ personal information
- ☐ CEAA public registry system
- ☐ contour maps
- ☒ other, specify application,

5. Description of Environment

*Ecozone:

1 (or 15) Arctic Cordillera

See Appendix B for zone names

Description of Biophysical Environment: (NWT Data Book)

- located on N. Baffin Island, S. shore of Eclipse Sound, facing Bylot Island (a bird sanctuary), approx 1060 km NW of Iqaluit.
- high Arctic topography - shallow, sandy, loam soil, with numerous boulders & gravel at surface. Area around new/planned facilities is mostly sand & gravel, some rocks.
- located in permafrost zone, with only a shallow active layer; long cold winters, short cool summers. Area is rich in marine mammals - whales, seal, narwhal; A. char, polar bear, A. fox, wolf, & caribou.

Description of socio-economic and cultural environment

- historically important area of N. Baffin Inuit, named after British explorer J. Pond, early whaling area.
- almost all Inuit, with a small ^{non-native} (white) population.
- has a limited level of govt, with airport, RCMP, community health centre, school, etc.
- major activities include marine mammal harvesting, hunting, fishing & trapping; some mining - at nearby Nauyasivik oil exploration; tourist destination.

Past and Current Land Use Activities in the Area

- ☒ Historical Maps (expired permits and licences)
- ☒ Running Maps (current permits and licences)
- ☐ Interference Maps (other land dispositions)
- ☐ Public Registry System
- ☐ GIS
- ☐ Indian Land Registry
- ☐ Land Transition Management Style

Was public consultation deemed appropriate?

Yes ☒ No

Date application referred to government departments:

1996 02 23

Date application referred to public:

Deadline date for public comments:

Referral sent to:

Date comments received:

Federal Government

Contact Person

DIAND

☒

GREG COOK / B. Collins

☐

Water

☒

BRIAN LATHAM

☐

March 8/96, 79

Geology

☐

Lands

☐

Minerals

☐

En. Dev.

☐

Env't

☒

M. Swyripa

☐

I&I

☐

D.M.

☒

D. Elliott

☒

Apr. 11/96

R.M.O.

☐

DFO

☒

B. Ferguson / M. Keast

☒

March 15/96

DOB

☒

S. Harbicht

☐

Health Canada

☐

DOT

☐

Coast Guard

☐

N.W.T. Government

Ren. Res.

☒

R. Enc, IQ.

☐

Health

☒

B. Stephen, IQ

☐

Transport

☐

Tourism

☐

MACA

☐

EM&PR

☐

PWNHC

☐

Other

☐

First Nations

☒

T. Audla, BRIA

☐

Public/Interested Parties

☐

☐

☐

☐

☐

☐

Record of comments attached to screening Form

7. Identification of Project Components and Environmental Effects

Identify all components of the project under screening and their potential adverse environmental effects

Project Components

(✓ check all the items appropriate to this project)

- ☒ access road
- ☒ construction
- ☐ abandonment/removal
- ☐ modification e.g., widening, straightening
- ☐ automobile, aircraft or vessel movement
- ☐ blasting
- ☐ building
- ☐ burning
- ☐ burying
- ☐ channelling
- ☐ cut and fill
- ☐ cutting of trees or removal of vegetation
- ☒ dams and impoundments
- ☒ construction
- ☐ abandonment/removal
- ☐ modification
- ☐ ditch construction
- ☐ drainage alteration
- ☐ drilling other than geoscientific
- ☐ ecological surveys
- ☒ excavation;
- ☐ explosive storage
- ☐ fuel storage
- ☒ storage
- ☒ disposal of hazardous waste
- ☒ disposal of sewage
- ☒ waste generation
- ☐ geoscientific sampling
- ☐ trenching
- ☐ diamond drill
- ☐ borehole core sampling
- ☐ bulk soil sampling
- ☐ gravel
- ☐ hydrological testing
- ☒ site restoration
- ☐ fertilization
- ☐ grubbing
- ☐ planting/seeding
- ☐ reforestation
- ☐ scarify
- ☐ spraying
- ☐ recontouring
- ☐ slash and burn
- ☐ soil testing
- ☒ topsoil, overburden or soil
- ☒ fill
- ☐ disposal
- ☒ removal
- ☐ storage
- ☐ stream crossing/bridging
- ☐ tunnelling/underground
- ☐ other, explain _____

accidents or malfunctions (Check if there is a possibility for malfunctions and accidents with this project). Describe.

effects of environment on project (e.g., beaver die)

Describe.

old weather - caused
Aren't they? maybe they're
the thing, I should know it
then and (also) (what's the)
- permit for the sub site

Project Effects

(✓ check all the items appropriate to this project)

Biophysical Environment

1. ☒ deposit into surface water (min.)

2. ☐ deposit into ground water

3. ☐ change in surface water flow

4. ☐ change in ground water flow

5. ☐ change in water temperature

6. ☒ change in drainage pattern

7. ☒ change in air quality

8. ☐ change in air flow

9. ☐ micro-climate change

10. ☐ ice fog

11. ☐ change in ambient noise levels

12. ☐ change in slope stability

13. ☒ change in soil structure

14. ☒ alteration of permafrost regime

15. ☒ destabilization/erosion

16. ☒ soil compaction

17. ☐ loss of access to non-renewable resource

18. ☐ depletion of non-renewable resource

19. ☐ removal of rare/endangered plant species

20. ☐ introduction of species

21. ☐ toxic/heavy metal accumulation

22. ☐ removal of rare/endangered wildlife species

23. ☐ change in wildlife health

24. ☐ impact to large mammals

25. ☐ impact to small mammals

26. ☐ impact to fish

27. ☐ impact to birds

28. ☐ impact to other wildlife

29. ☐ impact in a calving, nesting or spawning area

30. ☐ removal of wildlife buffer zone

31. ☐ change in wildlife habitat/ecosystem

32. ☒ other, explain upset in water quality - minor

Directly-related Socio-economic and Cultural

Environment

33. ☐ impact to trappers

34. ☐ impact to hunting

35. ☐ impact to outfitters

36. ☐ recreational or back country use

37. ☐ impact to fishing

38. ☐ impact to First Nation traditional use

39. ☐ impact to community

40. ☐ impact to industry

41. ☒ impact to community health

42. ☐ change in work force economics

43. ☐ change in housing or infrastructure

44. ☐ change in regional transportation

45. ☐ other, explain _____

46. ☐ impact to traditional use area

47. ☐ impact to historical site or cultural landmark

48. ☒ impact to local aesthetics

49. ☐ impact to archaeological or historical site

50. ☐ other, explain _____

Environmental Effect	Describe
1, 6, 32	- sewage disposal practices & lack of decent control result in raw or partially treated sewage being dumped on the ground by the lagoon, or flowing to the ocean only partly treated; ponded water in dump - is a health hazard
13, 14, 15, 16	- existing operations & construction of new facilities has affected the ground cover, & the rich/permeable soil - gravels.
7, 41, 48	- lagoon & dump unsightly, waste is burned with oil, often poorly.. smells, smoke blows to town..
	- several poor practices at sewage & waste facilities have led to concerns for possible impacts on community health: stagnant water in dump, poor waste management (burning oil, lack of segregation); inadequate sewage treatment

Note: Most of the concerns in the past have related to the poor waste management practices & inadequate facilities. Hopefully problems will be remedied or rendered insignificant with the construction & operation of proper facilities, and the licensing thereof in this new municipal regime.

8. Identification of Other Resources Uses And Their Environmental Effects

Identify relevant past, current and future (pooding applications) physical works and activities and their potential adverse environmental effects.

Other Resource Uses

(/ check all the items appropriate to this project)

- ☐ agriculture
- ☐ forestry
 - ☐ commercial
 - ☐ domestic
- ☒ fishing
- ☐ hunting/subsistence
- ☐ urbanization
 - ☒ commercial / residential
 - ☒ built structures
 - ☒ infrastructure
- ☐ mining
 - ☐ exploration
 - ☐ open pits
 - ☐ underground

- ☐ quarries
- ☒ transportation/communications
 - ☒ roads / trails
 - ☐ channels / canal
 - ☐ telephone lines, satellite dishes, cables
 - ☐ beacons
- ☐ solid waste disposal

- ☐ energy project
 - ☐ hydro
 - ☐ pipeline
 - ☐ transmission line

- ☐ other water licenses, permits, leases

- ☒ land claim lands lands
 - ☐ selected
 - ☐ withdrawn
 - ☐ special management
 - ☐ heritage sites
 - ☐ cultural sites

- ☐ other private lands held under tenure

- ☐ recreational

- ☒ trapping

- ☐ mineral processing

- ☐ airport

- ☐ recreation

- ☐ other heritage sites

- ☐ other, explain _____

Effects from other Resource Uses
(/ check all the items appropriate to the scope of this project)

Biophysical Environment

- 1. ☐ deposit into surface water
- 2. ☐ deposit into ground water
- 3. ☐ change in surface water flow
- 4. ☐ change in ground water flow
- 5. ☐ change in water temperature
- 6. ☐ change in drainage pattern
- 7. ☒ change in air quality
- 8. ☐ change in air flow
- 9. ☐ micro-climate change
- 10. ☐ ice fog
- 11. ☐ change in ambient noise levels
- 12. ☐ change in slope stability
- 13. ☐ change in soil structure
- 14. ☒ alteration of permafrost regime
- 15. ☐ destabilization/erosion
- 16. ☒ soil compaction

- 17. ☐ loss of access to non-renewable resource
- 18. ☐ depletion of non-renewable resource

- 19. ☐ removal of rare/endangered plant species
- 20. ☐ introduction of species
- 21. ☐ toxin/heavy metal accumulation

- 22. ☐ removal of rare/endangered wildlife species
- 23. ☐ change in wildlife health
- 24. ☒ impact to large mammals
- 25. ☒ impact to small mammals
- 26. ☒ impact to fish
- 27. ☐ impact to birds
- 28. ☐ impact to other wildlife
- 29. ☐ impact in a calving, nesting or spawning area
- 30. ☐ removal of wildlife buffer zone
- 31. ☐ change in wildlife habitat/ecosystem
- 32. ☐ other, explain _____

Directly-related Socio-economic and Cultural Environment

- 33. ☐ impact to trappers
- 34. ☐ impact to hunting
- 35. ☐ impact to outfitters
- 36. ☐ recreational or back country use
- 37. ☐ impact to fishing
- 38. ☐ impact to First Nation traditional use
- 39. ☐ impact to community
- 40. ☐ impact to industry
- 41. ☐ impact to community health
- 42. ☐ change in manpower or community economics
- 43. ☐ change in housing or infrastructure
- 44. ☐ change in regional transportation
- 45. ☐ other, explain _____

- 46. ☐ impact to traditional use area
- 47. ☐ impact to historical site or cultural landmark
- 48. ☐ impact to local aesthetics
- 49. ☐ impact to archaeological or historical site
- 50. ☐ other, explain _____

9.

Cumulative Environmental Effects

Based on a comparison of effects identified in #7 and #8

Matching
Number(s)

Description of cumulative environmental effects

none identified or
anticipated.

10.

Mitigation Measures

For each environmental effect identified in #7 and #8, describe the required mitigation measure(s)

Number(s)
as Identified
in #7 & #8

Description of Mitigation Measure(s)

1,7

- implementation of consultant's design
recommendations (1992) for construction

6,32

of new & expanded sewage & solid
waste disposal facilities, including

41

full desant (drainage) of the lagoon, with new all

48

for adequate storage capacity, a new segregated
solid waste site (metals, garbage, waste oil, etc.);

containment of hazardous waste, prevent windblown
debris, & easily managed landfill operations
with an approved operations & maintenance
plan; remediation of old waste sites
- regular water sampling & analysis

11. Significance

After taking into account the above mitigation measures, are any of the adverse environmental effects significant?

☐ Yes ☒ No

If yes, identify which one(s) and proceed to 12; if no, proceed to #13

Number(s)

12. Likelihood of Occurrence

Of the identified adverse significant environmental effects in #11 which are likely to occur?

☐ Yes ☒ No

Number(s)

13. CEAA Determination Recommendation

☒

Section 20 (1)(a) - Project may proceed as it is not likely to cause significant adverse environmental effects. *(ie with new facilities & methods) (including operational)*

☐ Section 20 (1)(b) - Project may not proceed as it is likely to cause significant adverse environmental effects that cannot be justified.

☐ Section 20 (1)(c)(i) - Project must be referred to the Minister of Environment as it is uncertain whether the project is likely to cause significant adverse environmental effects.

☐ Section 20 (1)(c)(ii) - Project must be referred to the Minister of Environment as it is likely to cause significant adverse environmental effects.

☐ Section 20 (1)(c)(iii) - Project must be referred to the Minister of Environment as public concerns warrant the reference.

14.

Screening Report and/or Decision Report

Public Notice of availability of Screening Report ☐ Yes ☒ No

Public Notice of availability of Decision Report ☐ Yes ☒ No

☐ No Decision Report

Decision Report sent out ☒ Yes No To whom (attach list)

Public Comments Received on Screening Report ☐ Yes ☒ No

Public Comments Received on Decision Report ☐ Yes ☒ No

Record of comments attached to screening form ☒ Yes ☐ No

15. Authorization

Prepared By:

Greg Cook
Screener

Date: Apr. 16/96

Approved By:

[Signature]
Chairman, NWT Water Board

Date April 30, 1996

A & Environment & Conservation Div, NWT Water Board, Nunavut Water Bd (TT).

Appendix A: Subject Descriptors

Choose from this list and insert as a "Subject Descriptor"

☐ agriculture
buildings
communications
defence
energy
forestry
industry
inland waters
mining
oceans
oil and gas
parks
transportation

Appendix B: Ecozone

Choose from this list and insert as "Ecozone".

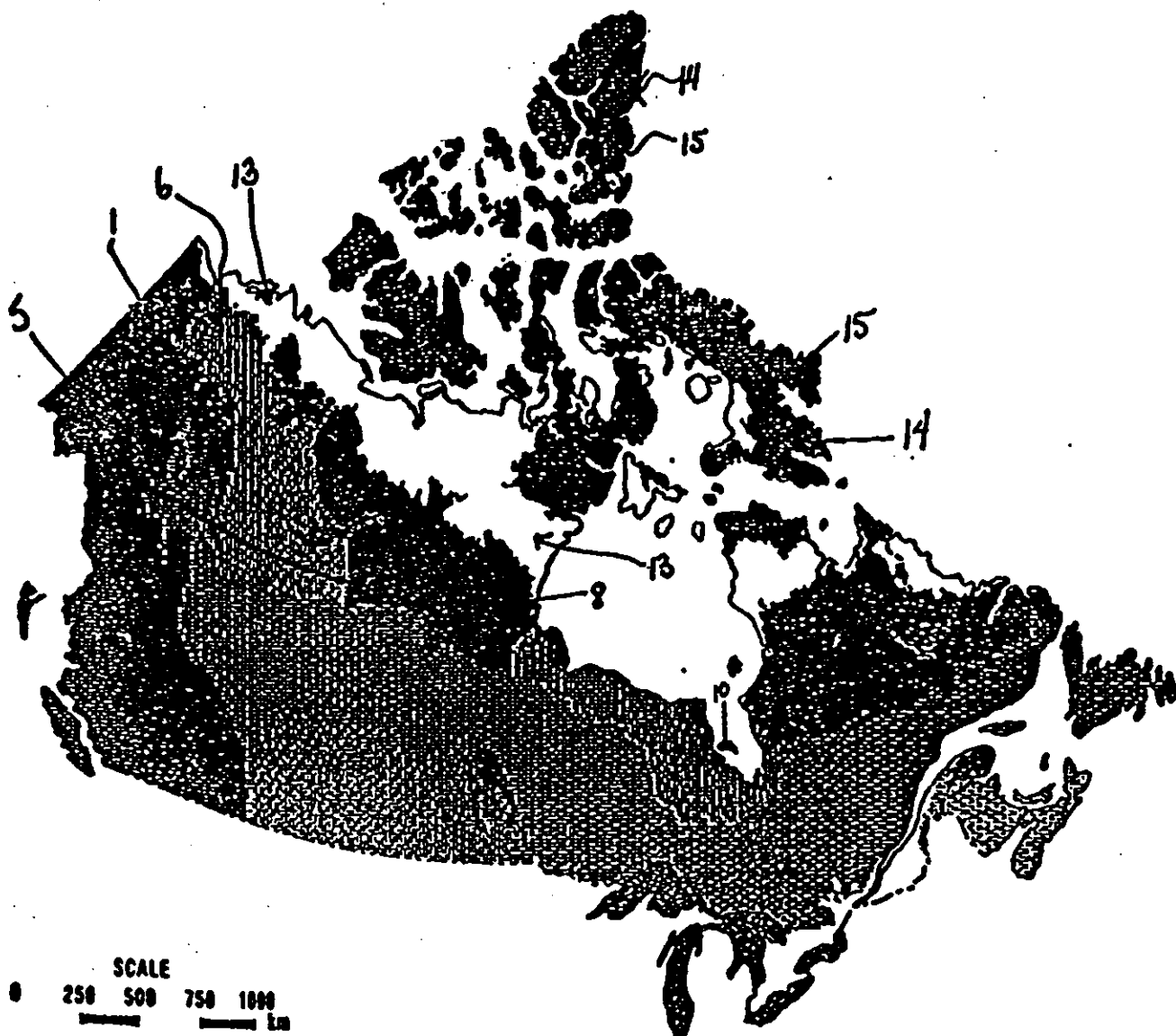
☐ 01 tundra cordillera
05 boreal plains
06 taiga plains
08 taiga shield
10 Hudson plain
13 southern arctic
14 northern arctic
15 arctic cordillera

* Refers to requirements of public registry

☐

FIGURE 5.1

The terrestrial ecozones of Canada



SCALE
0 250 500 750 1000
km

- | | | | |
|----------------------|-----------------|----------------------|----------------------|
| 1 Tundra Cordillera | 5 Boreal Plains | 7 Boreal Shield | 13 Southern Arctic |
| 2 Boreal Cordillera | 6 Taiga Plains | 10 Hudson Plains | 14 Northern Arctic |
| 3 Pacific Maritime | 7 Prairie | 11 Mixed Wood Plains | 15 Arctic Cordillera |
| 4 Montane Cordillera | 8 Taiga Shield | 12 Atlantic Maritime | |

Source: Environment Canada, State of the Environment Reporting, 1986.