Indian and Northern Affairs Canada
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P.O. Box 1500
Yellowknife, NT X1A 2R3

Your file - Votre référence
N7L1-1798

Our file - Notre référence

July 16, 2004

Mr. Gordon Wray
Chairman
NWT Water Board
P.O. Box 1326
YELLOWKNIFE, NT X1A 2N9

Dear Mr. Wray:

RE: Inuvialuit Projects Inc.: Proposed NTCL Barge Camp, Mackenzie Delta
Type "B" Water Licence - Level 1 Environmental Screening

The Department of Indian Affairs and Northern Development (DIAND) has screened the above mentioned water licence amendment application for water use and waste disposal as submitted by Inuvialuit Projects Inc. pursuant to Section 5 of the *Canadian Environmental Assessment Act* (CEAA).

DIAND has determined that this project, as proposed, is not likely to cause significant adverse environmental effects, providing that proposed mitigation measures are carried out and licence conditions met. DIAND recommends that the application proceed through the regulatory process. Incorporation of the recommended mitigative measures into the terms and conditions of the licence is required.

If the Board concurs with our findings, please sign the attached screening forms, advise the applicant of the CEAA recommendations in writing, and return the original forms to Water Resources Division for archiving and registration with CEAA.

If you require further information, please contact me at (867) 669-2650.

Sincerely,

for David Milburn
Manager
Water Resources Division

encl.

cc: D. Livingstone, Director, RR & E
North Mackenzie/Inuvik District
Environment and Conservation Division

Canada

CEAA SCREENING FORM - LEVEL I
Department of Indian Affairs and Northern Development

1. Public Registry Required Information

Applicant: Inuvialuit Projects Inc.

CEAR Reference Number: 04-01-4207

Subject Descriptors: municipal

Alias Project Title: NTCL Barge Camp in support of the Kittigazuit remediation project

DIAND Lead RA and Screening Division: Water Resources for the NWT Water Board

Lead RA Contact: Sarah Aho (DIAND screener for Water Board) 867-669-2402

Lead RA Trigger Types: Paragraph 14(6)(b) of the *Northwest Territories Waters Act*

EA Start Date: 200/06/30

EA Type: screening

Physical Activity as identified from Inclusion List: direct deposit of waste to surface waters

Physical Work and/or Activity Being Assessed: barge camp

Phase of Project / Primary Undertaking: operation (camp, waste disposal)

Multiple Activities: __Yes _x_ No Indicate One: Waste disposal

Project Category Code: Point Linear Areal (Circle one)

Geographic Place Name: Kittigazuit

EA Determination Date:

Estimated Follow-up program termination date: n/a

EA Terminated: no

2. General File Information

NWT File Number: N7-1-1798

ILA Land Use Number: ILA02TX29

Type of Application: Type B Water Licence

Present licence/permit/lease number: N7-1-1798

Proposed Date of Activity: 2004/08/03 to 2004/08/24

Other RAs or Screening Divisions: None

Other RA Types of Approval: None

Project File Location: NWT Water Board; DIAND Water Resources Division

DIAND District: N. Mackenzie, Inuvik

3. Proponent

Inuvialuit Projects Inc.
107 Mackenzie Road
Bag Service #7
Inuvik, NT
X0E 0T0

Type of proponent: Inuvialuit

4. Project Location

Topographic Map Sheet Number: 107 B

Latitude / Longitude: 69°26'55.71 N - 133°54'31.80 W

Watershed: Mackenzie River

Street Name: n/a

Surrounding Land Status: Inuvialuit private 7(1)(a) lands

Special Designation: Parks Canada National Historic Site (privately owned)

5. Project Description

Inuvialuit Projects Inc. (IPI) is applying for a Water Licence for the operation of a NTCL Barge in support of the Kittigazuit remediation project on the East Channel of the Mackenzie River. The camp will be in use from August 3, 2004 until August 25, 2004. Occupancy will be not more than 15 individuals during the operating period. All sewage will be treated in the ORCA IIA sewage treatment system and will then be discharged to the East Channel of the Mackenzie River, once it meets set discharge criteria. The proposed waste treatment equipment at the barge camp has been designed to accept and treat the total daily volume of raw camp waste water (black and grey water). The treatment system's capacity is 94000 litres, or 9.4 m^3 per day. Expected waste produced is 225 litres per person/day, or 3375 litres per day.

Water for human consumption, showering and laundry will be obtained in Inuvik and stored aboard the camp barge. The barge has a storage capacity of 90.5m^3, the camp is expected to use 71m^3 over the 21 days.

What sources of information did you use?

X other government data
__ historical maps
__ scientific reports
_X_ Project Description
__ CEAA public registry system
__ contour maps
X other: application; municipal questionnaire
__ Oil & Gas licence questionnaire

Describe any accidents or malfunctions that may occur in connection with the project.

Risk of spills from barge operations.

6. Description of Environment

The barge camp is to be located in the Mackenzie River (see attached map) next to the Kittigazuit site. The area is part of the Taiga Plains Ecozone, with low lying relief, consisting of broad lowlands and plateaux cut by rivers and braided channels. Underlain by sedimentary rock, limestone, shale and sandstone, with a cover of organic material and undulating deposits of hummocky morainal , lacustrine and alluvial material . Much of the area is covered in peat bogs and ribbed fens. Dominant vegetation here consists of black spruce and tamarack, with some white spruce, dwarf birch, willow and lichens and mosses. Dominant soils include regolic static and gleysolic static cryosols with some organic cryosols, underlain by a discontinuous layer of permafrost with low to medium ice content. The climate is characterized by cold winters and cool summers, where snow and fresh water ice persist for 6 to 8 months a year. Wildlife species found in the region include grizzly, polar and black bear, caribou, moose, muskrat, beaver, mink etc. Several species of terrestrial waterfowl occur here, as well as numerous fish species such as whitefish, char, smelt and pickerel.

Description of socio-economic and cultural environment

Traditional activities include subsistence hunting, fishing and trapping by area Inuvialuit residents from Tuktoyaktuk. Considerable oil and gas exploration and development activity is currently going on in the Mackenzie delta, providing seasonal employment to area workers. The project falls within the Tuktoyaktuk and Inuvik Conservation Planning Areas as defined by the communities' respective Community Conservation Plans. These plans identify four management categories of lands, of which two are affected by the overall project: C, and D. "C" includes lands and waters where there are cultural or renewable resources of particular significance and sensitivity during certain times of the year. These lands are to managed so as to guarantee the conservation of these resources. "D" includes lands and waters that are of particular significance , and are sensitive throughout the year, as with "C" lands, these areas are to be managed so as to guarantee the conservation of resources.

What sources of information did you use?

__ Historical Maps (expired permits and licences)
__ Running Maps (current permits and licences)
__ Interference Maps (other land dispositions)
_x_ Public Registry System
__ GIS
__Indian Land Registry
__Land Transition Management Style
_X_ Other, eg application
___ Project Description for EISC
_X_ Municipal licence questionnaire

7. **Consultation on Project**

Federal Government		Contact Person	Dates Comments Received
DIAND			
Water Res.	X	S. Aho, M. Wilson, B. Reid, S. Pagotto	
Geology			
D.M.			
Minerals			
Ec. Dev.			
Env. & Cons.			
I&I			
ILA			
DWRO/R.M.O.	x	R. Cockney	July 2, 2004
DFO/CCG	x	P. Cott	June 30, 2004
DOE	x	S. Harbicht	
Health Canada			
DOT			
NRCan			
NEB			
Parks Canada	x	E. McLean	

N.W.T. Government		Contact Person	Dates Comments Received
RWED	x	K. Hall	
Health	x	C. Beveridge	June 25, 2004
Transportation			
Tourism			
MACA			
EM&PR			
PWNHC			
Other			

Aboriginal Groups		Contact Person	Dates Comments Received
ILA	x		

Public/Interested Parties/Other	Contact Person	Dates Comments Received

Summary of Public Concerns:

No concerns were noted.

Record of comments attached to screening Form:

No, available on file.

8.a **Detailed description of environmental and cumulative effects identified in Boxes A and B.**

Environmental or cumulative environmental effect	Description
-water quality impairment	-due to improperly treated and released effluent, spills etc
-erosion of slopes and river banks during access to barge	-could occur if precautions not taken to ensure adequate approach to barge, improper stabililzation of the shoreline.

8.b Potential Effects of the Environment on the Project

Bad weather could hamper operations, increase risk of spills.

9. Summary of mitigation measures

Spill contingency plan in place. Storage tanks with capacity to store two days of wastewater available on the barge in case of a malfunction of the treatment system. A NTCL engineer will accompany the barge operation for proper operation and maintenance of the treatment system.

10. Significance

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

___ Yes __X__ No If yes, identify which one(s) and proceed to 11; if no, proceed to #12

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11. Likelihood of Occurrence

Of the identified adverse significant environmental effects in #10 are any likely to occur?

___Yes __x__No If yes, which one(s)?

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12. **CEAA Determination /Recommendation**

_X__ Section 20 (1)(a) - Project may proceed as it is not likely to cause significant adverse environmental effects.

___ 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.

13. **Consultation on Screening Report**

Public consultation on screening report deemed necessary? ___ Yes __x_ No

Deadline for comments on screening report _____n/a_____

Public Comments Received on Screening Report? ___ Yes __x_ No

(Attach Comments to screening file.)

14. **Follow-up Program**

None required (or identified) by DIAND or NWT Water Board under CEAA; regular licence inspections should suffice to identify any problems needing attention.

12. **CEAA Determination /Recommendation**

_X__ Section 20 (1)(a) - Project may proceed as it is not likely to cause significant adverse environmental effects.

___ 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.

13. **Consultation on Screening Report**

Public consultation on screening report deemed necessary? ___ Yes __x_ No

Deadline for comments on screening report _____n/a_____

Public Comments Received on Screening Report? ___ Yes __x_ No

(Attach Comments to screening file.)

14. **Follow-up Program**

None required (or identified) by DIAND or NWT Water Board under CEAA; regular licence inspections should suffice to identify any problems needing attention.

15. Authorization

Sarah Aho — July 16/04

Prepared By (screener): Sarah Aho — Date

Special Projects Officer

Gordon Wray — 040716

Approved By: Gordon Wray — Date

Chairman, NWT Water Board

Table A. 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
_x 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
_x_ fuel storage
_x_ garbage
  __ disposal of hazardous waste
  _x_ disposal of sewage
  _x_ waste generation
__ geoscientific sampling
  __ trenching
  __ diamond drill
  __ borehole core sampling
  __ bulk soil sampling
__ gravel
__ hydrological testing
_x_ 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_____

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

___ effects of environment on project (e.g., beaver dams).
Describe:_____

Project Effects
(✓ check all the items appropriate to this project)

Biophysical Environment

1._x_ 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._x__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 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_____
_____

Table B. Identification of Other Resource Uses And Their Environmental Effects

Identify relevant past, current and future (pending 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 (cottages)
  __ built structures
  __ infrastructure
__ mining
  __ exploration
  __ open pits
  __ underground
__quarries
_x_transportation/communications
  ___ roads / trails
  _x_ channels / canal
  __ telephone lines, satellite dishes, cables
  __ beacons
__ solid waste disposal
__ energy project(oil and gas)
  __ hydro
  __ pipeline
  __ transmission line
__other water licenses, permits, leases
___land claims
  __ 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._x_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
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30.__ removal of wildlife buffer zone
31.__ change in wildlife habitat/ecosystem
32.__ other, explain_____

Directly-related Socio-economic and Cultural Environment
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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_____

_____

Cumulative Environmental Effects

Based on a comparison of effects identified in Table A and Table B

Matching Number(s)	Description of cumulative environmental effects

It is not anticipated that the NTCL barge camp, in association with other related activities in this region, will cause any cumulative impacts.