

### 3.7 Project Management and Quality Assurance

Project Management services will be provided by FSC/LPS. Both firms firm with considerable northern planning, design and project management experience. The construction contracts will be awarded by public tender through Nunavut Department of Community Government and Transportation.

Quantity and quality control will be provided by FSC/LPS and confirmed by qualified technical and professional engineering personnel from the Arctic Airports Division.

### 3.8 Environmental Impact Statement

This proposed projects, to Apron 1 and Taxi A, are of the type identified in the Canadian Environmental Assessment Act, Schedule I - Exclusion List, for which an environmental assessment is not required.

See Environmental Screening Form, Appendix J.

All material to be used will be extracted from existing quarry sites for which the appropriate quarry permits and land use permits will be issued.

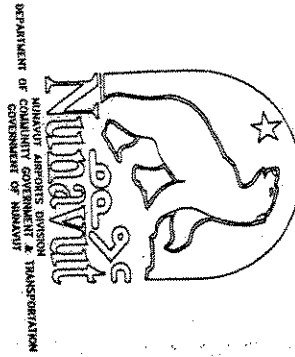
Appropriate measures will be taken to ensure that any locations that may be affected by this project, such as quarry sites, crushing production sites, haul roads, stockpile sites and project marshalling areas, will be mitigated in a manner acceptable to all parties.

### 3.9 Project Design

The design drawings and specifications prepared by Ferguson Simek Clark Limited are attached to this document as Appendix I.

### 3.10 Iqaluit International Airport Master Plan

We have included as appendix L to this submission a copy of the Master Plan prepared for the Iqaluit International Airport by FSC and LPS dated September 1, 1999.



# IGALUIT, NUNAVUT REHABILITATION OF TAXIWAY "A" AND APRON 1

FBC PROJECT NUMBER 2000-0300

737

G R O U P

FERGUSON SIMEX CLARK

ENGINEERS AND ARCHITECTS  
4910 - 2nd Street, P.O. Box 1777  
Nunavut, N.W.T., Canada  
X1A 0P4  
Tel. (867) 520-2882  
Fax (867) 520-2885  
Building 1002, P.O. Box 1779  
Igloolik, Nunavut  
Tel. (867) 574-0255

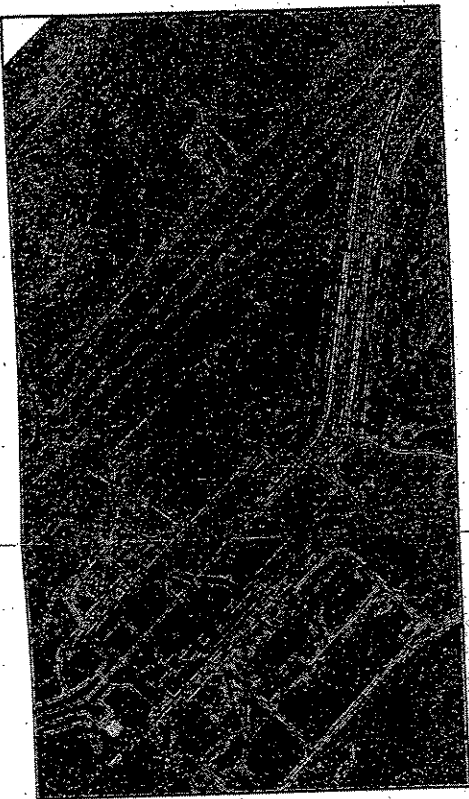
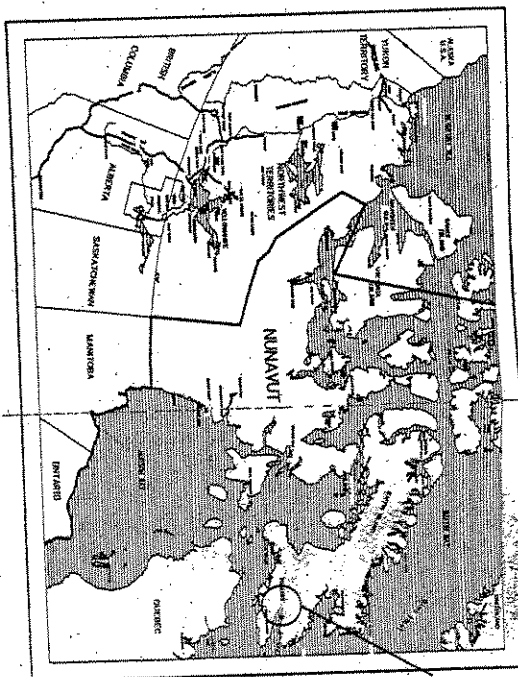
## LIST OF DRAWINGS

### CML

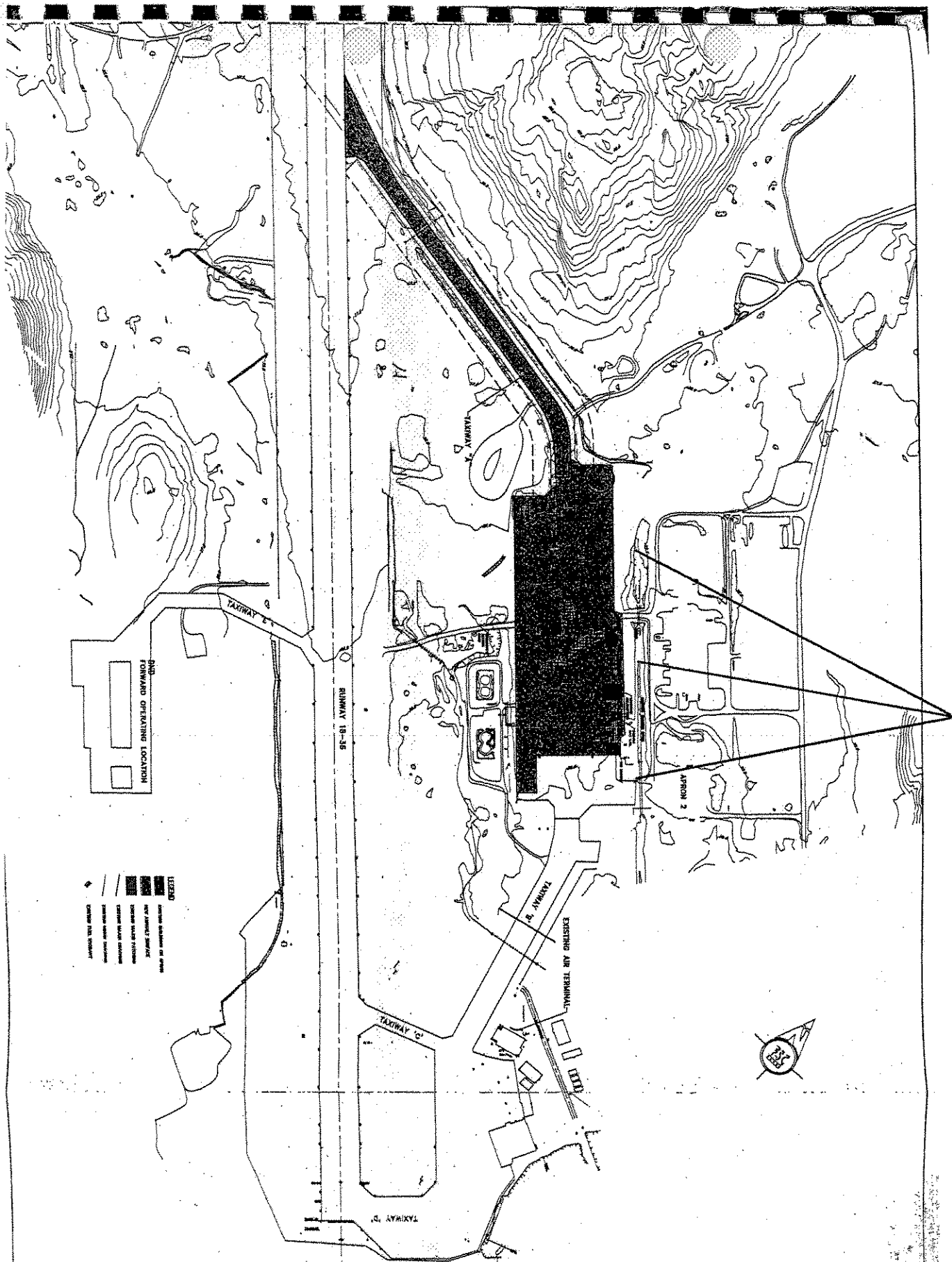
1. SITE PLAN C1
2. TAXIWAY "A" PLAN/PROFILE C2
3. APRON 1 ASPHALT OVERLAY PLAN C3

### ELECTRICAL

1. SITE PLAN E1
2. DETAILS E2
3. DETAILS E3
4. RUNWAY DESIGNATION & IDENTIFICATION SIGN DETAILS E4



LOCATION OF UTIL IDOR



FS

**FERGUSON SUEK CLARK**  
ENGINEERS AND ARCHITECTS  
1010 11th Street, N.E.  
Seattle, WA 98101  
206/461-1001

NOTE: MATTERS MUST BE  
MAILED BY THE FIRST DAY OF  
DECEMBER. ELEVATIONS DERIVED  
FROM MEASUREMENTS OF  
A1. ELEVATIONS TO BE COMPARABLE  
TO ELEVATIONS.

4	RECEIVED FROM ACCT SUBMISSION	1/1/0		
3	RECEIVED FROM ACCT SUBMISSION	1/1/0		
2	RECEIVED FROM ACCT SUBMISSION	1/1/0		
1	RECEIVED FROM ACCT SUBMISSION	1/1/0		
0				



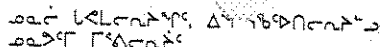
QUALITY AIRPORT  
REVALUATION OF  
TAXWAY "A" AND  
APRON 1

## SITE PLAN

1. 2. 3.	4. 5. 6.
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Kavamat Hamlatkolikiot Nunavutmi  
Ovalo Aolagotilikiot Tingmiakaviliikiyit

Ministère de l'administration division des gouvernementales des  
aéroports du collectivités et des transports Nunavut

☎ 867 645-8200  
📠 867 645-8246

## PROJECT PROPOSAL INFORMATION REQUIREMENTS

### SECTION 1: APPLICANT INFORMATION

1. Applicant's full name and mailing address:

NUNAVUT AIRPORTS DIVISION  
DEPT. OF COMMUNITY GOV'T & TRANSPORTATION  
BOX 560 RANKIN INLET, NU, X0C-0G0

Fax:

867 645-8246

Phone:

867 645-8209

Email: jhawkins@gov.nu.ca

2. Head office address:

SAME

Fax:

Phone:

Email:

3. Field Supervisor (address, if different from above):

JOHN S. HAWKINS, MANAGER, FACILITIES

Phone (radio or otherwise):

4. Other Personnel list (name and position + subcontractors and contractors):

Total # of personnel:

Shift schedule:

Total # of person days:

### SECTION 2: AUTHORISATION NEEDED

5. Indicate and circle the authorisations associated with the project proposal:

*Inuit:*

☐ Regional Inuit Association (land use permits and licenses, lease-land, recreational, commercial, quarry permit, access permit)

*Co-Management Board:*

☐ Nunavut Water Board (water license)

☐ Nunavut Planning Commission (amendment to the land use plan)

*Federal:*

☐ DIAND (land use permit, land lease, quarry permit, water license-if transboundary)

☐ Department of Fisheries and Oceans (under Fisheries Act -Loss of fish habitat, fisheries research, Navigable Waters Protection Act authorisation)

☐ Department of Environment (Access to protected area, scientific research, ocean disposal)

*GNWT:*

☐ Municipal and Community Affairs (land use permit, land lease, quarry permit)

☐ Nunavut Research Institute (research permit)

☐ Department Resources Wildlife and Economic Development (Fisheries/wildlife permit, wildlife research permit)

*Other:*

☒ Hamlet (development permit, ~~lease, quarry permit~~) CITY OF IQALUIT

☐ Canadian Launch Safety (launch authorisation)

☐

6. List the active permits, licences or rights related to the project and their expiry date: \_\_\_\_\_

# SECTION 3: PROJECT PROPOSAL DESCRIPTION

## 7. Indicate and circle the activities relating to the project proposal:

### Mining/Oil & Gas:

- ☐ exploration (geophys-grd/air)
- ☒ drilling (diamond/ice, etc)
- ☐ advanced exploration
- ☐ bulk sampling
- ☐ mine (open pit, undergrd, etc)

### Construction:

- ☐ camp
- ☐ building
- ☐ winter road
- ☐ all-season road
- ☐ Other: \_\_\_\_\_

### Tourism:

- ☐ tourism facility >20 beds
- ☐ access to a protected area
- ☐ cruise ship
- ☐ outfitting
- ☐ Other: \_\_\_\_\_

### Research:

- ☐ wildlife/fish/birds/marine
- ☐ survey (grd/aerial/collars)
- ☐ collection of species
- ☐ research station
- ☐ Other: \_\_\_\_\_

### Municipality:

- ☒ bulk storage of fuel
- ☐ power generation
  - ☐ hydroelectric
  - ☐ nuclear
- ☐ industrial activity

### Marine:

- ☐ off-shore drilling
- ☐ ship movements
- ☐ construction (breakwater/bridge/dock)
- ☐ obstruction (navigation/fish movement)
- ☐ ocean disposal

### Other:

- ☐ commercial harvest
- ☐ aircraft use (helicopter/airplane)
- ☐ rocket launch
- ☐ BLAST / CRUSH / ASPHALT PLANT.
- ☐ \_\_\_\_\_

## 8. Project duration and location:

Period of operation: 2003 to 2005  
Proposed term of permit: 2003 to 2006

### Region:

- ☒ Baffin ☐ Kivalliq ☐ Kitikmeot ☐ Transboundary: \_\_\_\_\_

### Land Status:

- ☐ Crown ☒ Commissioners' ☐ Inuit Owned Surface Lands ☐ Inuit Owned Sub-Surface Lands ☐ Other: \_\_\_\_\_

### Co-ordinates:

Min Lat (degree/minute): <u>63° 45'</u>	Min Long (degree/minute): <u>68° 33'</u>
Max Lat (degree/minute): <u>63° 46'</u>	Max Long (degree/minute): <u>68° 35'</u>

NTS Map sheet #: SITE DRAWING & DRAINAGE REHAB. DETAIL ATTACHED.

Please ensure that maps of the project area are attached (1:50 000, 1:250 000)

## NON-TECHNICAL PROJECT PROPOSAL SUMMARY

9. Please include a non-technical description of the project proposal, no more than 300 words, in English & Inuktituk (+ Inuinaktun, if in the Kitikmeot). The project description should outline the project activities and their necessity, method of transportation, any structures that will be erected, expected duration of activity and alternatives considered. If the proposed activity fits into any long-term developments, please describe the projected outcome of the development for the area and its timeline.

## SECTION 4: MATERIAL USE

### 10. List equipment (including drills, pumps, aircrafts, etc.):

Equipment type and number	Size- dimensions	Proposed use
<u>Rock Drill</u>		<u>DRILL, BLAST</u>
<u>CRUSHER</u>		<u>CRUSH AGGREGATE</u>
<u>ASPHALT PLANT</u>		<u>PAVEMENT PRODUCTION</u>
<u>LOADERS</u>		<u>MOVING MAT'L.</u>
<u>PAVING MACHINE</u>		<u>PAVING</u>
<u>Rock Trucks</u>		<u>MOVING MAT'L.</u>

### 11. Detail fuel and hazardous materials use:

Fuels	Number of Containers	Capacity of Containers (gal & litres)
• Diesel		<u>EST. 10000 litres</u>
• Gasoline		
• Aviation fuel		
• Propane		
• Other		



# RESPONSE PLAN.

Will be responsible for fuels and hazardous materials? Will be responsible for Safety Data Sheets and other appropriate information about OF CONTRACTOR.

Plan? ALLEGEDLY SPILL RESPONSE PROGRAM IN PLACE FOR FUELS AND HAZARDOUS MATERIALS? WILL BE RESPONSIBLE FOR SAFETY DATA SHEETS AND OTHER APPROPRIATE INFORMATION ABOUT OF CONTRACTOR.

FUEL TRUCK.

TREATMENT FACILITIES	
Method of disposal	Additional treatment procedures
CITY WASTE SYSTEM	
" " "	
CITY LANDFILL	
N/A	
N/A	

of waste rock material and testing methods, if applicable:

ON-GOING PLANS  
and abandonment plans. Please include information about on-going project.

Environment that are near the project area, as applicable. Attach

Environment that are near the project area, as applicable. Attach	Critical time periods (calving, post-calving, spawning, nesting, breeding, etc.)
<p>                     Sensitive Area (calving, spawning, migratory pathways, etc.)                 </p>	

Seals:		
Whales:		
Narwhals:		
Canid family (wolves, wolverines, foxes, etc.):		
Bears (grizzly, polar, black, etc.):		
Other:		
Eskers:		
Communities:		
Historical/Archaeological sites:		

17. Indicate and describe other uses of the area:

- ☐ Traditional use (hunting/fishing/spiritual): \_\_\_\_\_
- ☐ Outfitting: \_\_\_\_\_
- ☐ Tourism: \_\_\_\_\_
- ☐ Local development: \_\_\_\_\_
- ☐ Mineral development: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

*AIRPORT LAND. NOT CONDUCE TO OTHER USE. FENCED, RESTRICTED.*

18. Describe the impacts of the proposed project activity on the environmental components and uses in the area, listed above:

*EXTREMELY MINIMAL*

19. What are some suggested mitigation measures for these impacts?

20. List the environmental and socio-economic studies conducted in the area:

*Associated with the project: PROTECT ADDRESSES SERIOUS REGULATORY ISSUES & HAS LITTLE IMPACT. STUDIES WERE NOT UNDERTAKEN.*

Pending Research: \_\_\_\_\_

Relevant research not associated with the project: \_\_\_\_\_

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

21. List the community representatives that have been contacted about this proposed project:

Community	Name	Organisation	Date contacted	Means	Telephone #	Fax #

22. Describe the level of involvement that the residents of Nunavut have had with respect to the proposed project:

23. Describe the regional benefits of the project proposal to the residents of Nunavut:

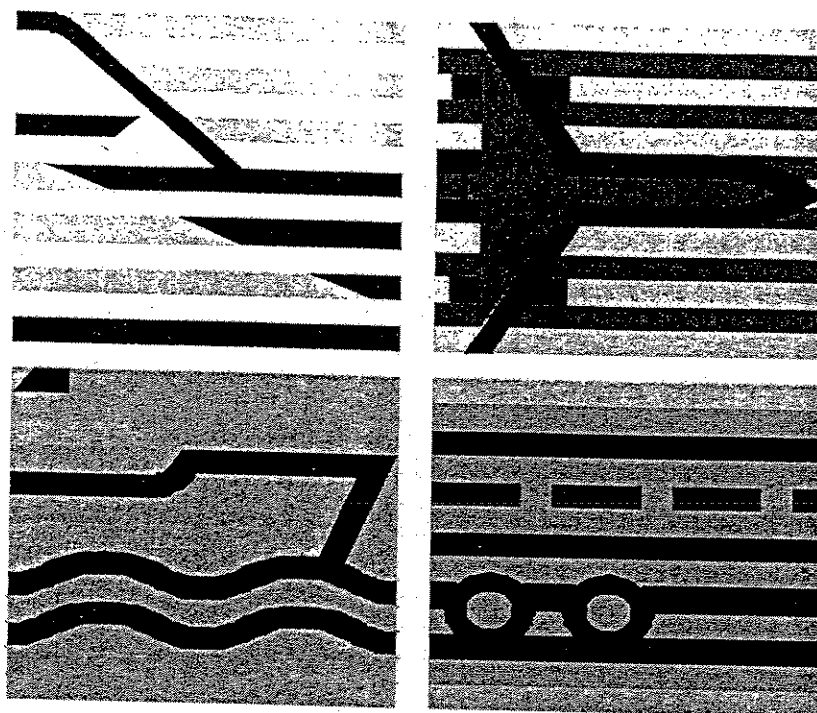
- ☒ employment: SEASONAL 2-3 YEARS, 20 EMPLOYEES +
- ☒ training programs: RADIO LICENSE, AIRSIDE VEHICLE, HEAVY EQUIPMENT
- ☒ contracts: LOCAL CONTRACTORS WILL BE INVITED TO B.O PUBLIC TENDER.
- ☐ Inuit Impact Benefits Agreements, if applicable: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

24. Describe and attach documentation regarding community concern or support for the proposed project:

Applicant: \_\_\_\_\_

Signature: [Signature] Title: MANAGER, AIRPORT FACILITIES, NAD Date: 2002/09/06

Office Use Only			
Application checklist	Date received	Description	Accepted by
• All authorising agency info			
• Application complete, signed and dated			
• Maps of proposed project			
• Maps of use in area			
• Baseline studies info			
• Community consultation records			



# ENVIRONMENTAL ASSESSMENT PROCESS FOR ACAP APPLICANTS

PREPARED BY: TRANSPORT CANADA

JANUARY 2001

# ACAP ENVIRONMENTAL INFORMATION FORM

The following form must be completed by the ACAP applicant as a requirement of Transport Canada's 'Environmental Assessment Process For ACAP Applicants'. Please use additional pages when extra space is needed, noting the appropriate headings and subheadings.

Project Title: \_\_\_\_\_

Other Permits & Approvals Required (i.e. building, municipal, provincial): Yes ☒ No ☐

Specify: MUNICIPAL LICENCE FOR QUARRY & LEASE FOR  
CRUSHER / ASPHALT PLANT LOCATION

Drawings Available: Yes ☒ No ☐

Specify: SUPPLIED WITH SUBMISSION

Project Documentation and Existing Environmental Reports: Yes ☒ No ☐

Specify: T.C. REPORTS ON APRON & SURROUNDING AREA.

## PROJECT AREA PHYSICAL & ECOLOGICAL DESCRIPTION

(Check box where applicable)

Approximate Size of Project Area: \_\_\_\_\_

(Square Meters, Hectares etc.)

Soil Type:

Topsoil ☐ Gravel ☐ Sand ☐ Clay ☐ Silt ☐ Sediment ☐

Other ☐ Specify: PROJECT TO TAKE PLACE ON EXISTING ASPHALT.

Depth to Bedrock \_\_\_\_\_

(in meters if known)

Vegetation Type:

Trees ☐ Grass ☒ Shrubs ☒ Submerged/Emergent ☐

No Vegetation ☒ Other ☐ Specify: \_\_\_\_\_

Terrestrial and Aquatic Wildlife (Specify):

AIRPORT ENVIRONMENT; SELDOM CONDUCTIVE TO WILDLIFE

## Surface Water (on-site or nearby if applicable):

Natural Watercourses

(rivers, streams, lakes, ponds etc.)

Marine

Other

Specify:

☒ Storm Water Drainage System  
(existing & proposed)☐ Wetland Area (swamp, marsh etc.)RUNOFF WATER & TRAINED WATER COURSE TO BE  
REHABILITATED AS PART OF PROJECT.

## Current Land Use:

Undeveloped/Natural Area

☐ Specify: \_\_\_\_\_

Agricultural Land

☐ Specify: \_\_\_\_\_

Residential

☐ Specify: \_\_\_\_\_

Recreational

☐ Specify: \_\_\_\_\_

Industrial

☐ Specify: \_\_\_\_\_

Airport Use

☒ Specify: ABANDONED TAXIWAY & APRON.

## Adjacent Land Use:

Undeveloped/Natural Area

☐ Specify: \_\_\_\_\_

Agricultural Land

☐ Specify: \_\_\_\_\_

Residential

☐ Specify: \_\_\_\_\_

Recreational

☐ Specify: \_\_\_\_\_

Industrial

☒ Specify: METAL DUMP ADJACENT TO QUARRY SITE.

Airport Use

☒ Specify: AIRPORT RESERVE FOR FUTURE TAXIWAY.

## HAZARDOUS PRODUCT - MATERIALS STORAGE LIST

Indicate any of the following materials that will be stored or used by this operation:

Fuel (gasoline, jet fuel, heating fuels etc.)

Propane

Oils (engine oils, transmission oil, waste oil etc.)

Metal Plating Materials

Maintenance Fluids (antifreeze, hydraulic fluids, brake fluids, etc.)

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Degreasers, Solvents, Cleaners, Paint Removers, Strippers  
Pesticides  
Sanitary Cleaning Products  
Other  
Specify: \_\_\_\_\_

TC File #: XXXXX

☐  
☐  
☐  
☐

### ASSOCIATED ACTIVITIES

Indicate the activities which will be associated with this project:

#### Site Preparation Phase Activities:

Access Road Construction ☐ Drainage or Stream Alteration ☒  
Site Clearing ☐ Vegetation Control ☐  
Burning ☐ Excavation ☐  
Other ☐ Land Filling ☐

Specify: IN PAST 5 DECADES DRAINAGE CHANNELS HAVE Silted. THIS WILL BE REHABILITATED.

#### Construction Phase Activities:

Temporary Roads	<input type="checkbox"/> Ditching	<input checked="" type="checkbox"/>
Topsoil Stripping	<input type="checkbox"/> Landscaping	<input type="checkbox"/>
Compacting	<input type="checkbox"/> Stumping & Grubbing	<input type="checkbox"/>
Blasting/Drilling	<input checked="" type="checkbox"/> Gravel Crushing/Washing	<input type="checkbox"/>
Earth Disposal	<input type="checkbox"/> Grading (cut/filling)	<input type="checkbox"/>
Stream Crossing	<input type="checkbox"/> Solid Waste Disposal	<input type="checkbox"/>
Dewatering	<input type="checkbox"/> Fencing	<input type="checkbox"/>
Stream Channeling	<input type="checkbox"/> Painting/Paint Removal	<input type="checkbox"/>
Installation of Petroleum Storage Tanks (ASTs/USTs)	<input checked="" type="checkbox"/> Culvert Installation	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/> Utilities	<input type="checkbox"/>
Asphalting/Concreting	<input checked="" type="checkbox"/> Sewage/Disposal Treatment	<input type="checkbox"/>
Equipment Use	<input checked="" type="checkbox"/> Electrical Equipment Disposal	<input type="checkbox"/>
Other	<input type="checkbox"/> Industrial Wastewater Disposal	<input type="checkbox"/>

Specify: \_\_\_\_\_

#### Operational and Maintenance Phase Activities:

Aircraft Maintenance ☐ Sewage Disposal/Treatment ☐  
De/Anti-icing ☐ Storage of Hazardous Goods ☐  
Pedestrian Movement ☐ Equipment Maintenance ☐  
Snow Removal/Disposal ☒ Fuel Storage ☐  
Other ☐

Specify: SNOW REMOVAL ALREADY UNDERTAKEN. THIS UNCHANGED

☐ Temporary Roads  
☐ Topsoil Stripping  
☐ Compacting  
☐ Blasting/Drilling  
☐ Earth Disposal  
☐ Stream Crossing  
☐ Dewatering  
☐ Stream Channeling  
☐ Erosion Control  
☐ Equipment Use  
☐ Ditching  
☐ Other  
 Specify: \_\_\_\_\_

☒ Landscaping  
☐ Stumping & Grubbing  
☐ Gravel Crushing/Washing  
☐ Grading (cut/filling)  
☐ Solid Waste Disposal  
☐ Fencing  
☐ Painting/Paint Removal  
☐ Culvert Installation  
☐ Utilities  
☐ Sewage/Disposal Treatment  
☐ Electrical Equipment Disposal  
☐ Industrial Wastewater Disposal

### ENVIRONMENTAL CONTROL FACILITIES TO BE INSTALLED

☐ Floor Drains  
☐ Wash Sinks  
☐ Waste Sumps  
☐ Grease Traps  
☐ Emission Controls  
☐ Other

☐ Oil/Water Separators  
☐ Petroleum Storage Tanks (ASTs/USTs) ~~#~~  
☐ Noise Attenuation  
☐ Environmental Management Plans  
☐ Environmental Emergency Contingency Plan

Specify: TANKS FOR ASPHALT PLANT; TO BE REMOVED  
AT CLOSE OF PROJECT.

### MITIGATIONS

Identify the activity under the appropriate phase (site preparation, construction, operation and maintenance, decommissioning) and describe proposed mitigations to be implemented as a part of this project:

- SPILL RESPONSE TO BE RESPONSIBILITY OF CONTRACTOR,  
WITH ASSISTANCE FROM AIRPORT/FIREHALL STAFF.

Additional comment or remarks:



Completed By/

Proposal Contact: JOHN S. HAWKINS

Signature: [Signature]

Date: 2002/09/23

mm/dd/yy

Box 560 RANKIN INLET, NU, X0C-0G0

Mailing Address

(867) 645-8209

Telephone Number

