
TITLE **SSA Private Lands Application for a Type A Land Use Permit**
SECTION 2: Type A Land Use Permit Application
SUBJECT 1: Summary

APPLICATION SUMMARY

Applicant: Imperial Oil Resources Ventures Limited
Regulatory Agency: Mackenzie Valley Land and Water Board
Application Type: Type A Land Use Permit
Location: Sahtu Settlement Area
Land Ownership: Private Lands

Proposed Development:	Description	Surface Area
	<ul style="list-style-type: none"> • construct one temporary infrastructure site near Little Chicago consisting of a 1,350-person construction camp, a stockpile site for equipment, materials and line pipe and a fuel storage area 	28.4 ha
	<ul style="list-style-type: none"> • construct one temporary infrastructure site at the abandoned Little Chicago airstrip site consisting of a stockpile site for equipment, materials and line pipe 	10.6 ha
	<ul style="list-style-type: none"> • develop a barge landing site near Little Chicago 	0.6 ha
	<ul style="list-style-type: none"> • construct one temporary infrastructure site within the Little Chicago facility footprint consisting of a 120-person camp, a stockpile site for equipment, modules and a fuel storage area 	0.0 ha
	<ul style="list-style-type: none"> • develop an airstrip near the Little Chicago facility site 	18.8 ha
	<ul style="list-style-type: none"> • construct one temporary infrastructure site west of Tulita consisting of a stockpile site for equipment, materials and line pipe and a fuel storage area 	6.2 ha
	<ul style="list-style-type: none"> • develop a barge landing site west of Tulita 	0.6 ha
	<ul style="list-style-type: none"> • construct one temporary infrastructure site near Little Smith Creek consisting of a 950-person construction camp, a stockpile site for equipment, materials and line pipe and a fuel storage area 	17.0 ha
	<ul style="list-style-type: none"> • develop an airstrip at Little Smith Creek 	18.8 ha
	<ul style="list-style-type: none"> • develop a barge landing site at Little Smith Creek 	0.6 ha
	<ul style="list-style-type: none"> • develop 33 borrow sites for materials to be used in the construction of the project 	1,843.3 ha
	<ul style="list-style-type: none"> • develop nine segments of 50 m wide pipeline right-of-way covering a total of about 137.9 km 	689.5 ha
	<ul style="list-style-type: none"> • develop 12 segments of 40 m wide pipeline right-of-way covering a total of about 86.5 km 	346.0 ha

- develop one segment of 30 m wide pipeline right-of-way covering a total of about 0.5 km 1.5 ha
 - develop a facility site near Little Chicago 9.5 ha
 - use temporary workspace for construction activities 78.1 ha
 - construct about 226.6 km of winter and all-weather access roads to facilitate construction of the project 453.2 ha
- Land Use Requested** 3,522.7 ha

Overview Map:

[Figure 2-1](#) and [Figure 2-2](#) are overview maps of sites with various activities on private land.

Schedule:

Following receipt of all approvals and a decision to proceed, construction is scheduled to begin in mid-2006 and be substantially completed in 2009.

Figure 2.1 has been moved to reduce file size. To view it, click on the link to the figure in the web page List of Figures for this document.

Figure 2.2 has been moved to reduce file size. To view it, click on the link to the figure in the web page List of Figures for this document.



Mackenzie Valley Land and Water Board
7th Floor - 4910 50th Avenue
P.O. Box 2130
YELLOWKNIFE NT X1A 2P6
Phone (867) 669-0506
FAX (867) 873-6610

Application for:

New Type A Land Use Permit **Amendment**

1. Applicant's name and mailing address

Imperial Oil Resources Ventures Limited
P.O. Box 2840, Station M
Calgary, Alberta T2P 3M9

Attn: A.D. (Sandy) Martin
Manager, Regulatory Affairs
Mackenzie Gas Project

Telephone number: (403) 237-2864
Fax number: (403) 237-2208
Email: sandy.d.martin@esso.ca

2. Head office address

Mackenzie Gas Project
Imperial Oil Resources Ventures Limited
425 First Street S.W.
Calgary, Alberta T2P 3M9

Field supervisor

Not currently identified

Radiotelephone

Not currently available

3. Other personnel (subcontractor, contractors, company staff etc.)

The number of workers required for activities at each site will depend on the type, size and stage of the activity. An estimate of the personnel requirements for each aspect of the development is shown in Part 3 of each of [sections 4, 5, 6](#) and [7](#).

Estimates of the number of person-days applicable to each location and set of activities will be available upon completion of design and finalization of contracting and logistical arrangements.

4. Eligibility (Refer to section 18 (b) (ii) of the *Mackenzie Valley Land Use Regulations*)

Imperial Oil Resources Ventures Limited (Imperial), on behalf of the proponents of the project, proposes to conduct the work described in this application. The project proponents include Imperial Oil Resources Ventures Limited, the Aboriginal Pipeline Group, ConocoPhillips Canada (North) Limited, Shell Canada Limited and ExxonMobil Canada Properties.

5. a) Summary of operation (Describe purpose, nature and location of all activities)

This application covers the developments proposed to occur on private lands in the SSA and seeks approval for the land use activities and operations associated with:

- constructing and operating a temporary infrastructure site near Little Chicago to support construction of the pipelines, including a 1,350-person construction camp, stockpile site and fuel storage area, and a barge landing (for a description of infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a gas compressor station near Little Chicago
- constructing and operating a temporary infrastructure site within the Little Chicago facility site footprint, including a 120-person camp, stockpile site and fuel storage area (for a description of infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near Tulita (Tulita West) to support construction of the pipelines, including a stockpile site and fuel storage area, and a barge landing (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near Little Smith Creek to support construction of the pipelines, including a 950-person construction camp, stockpile site and fuel storage area, a barge landing and an airstrip (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))

- constructing and operating a temporary airstrip near the Little Chicago facility site to support construction of the pipelines and the facility (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- developing and operating 33 borrow sites for materials to be used in the construction of the pipelines, facilities and infrastructure sites (for a description of borrow site development, see [Section 3](#) and [Section 5](#))
- developing and maintaining 137.9 km of 50 m wide pipeline right-of-way in nine segments (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining 86.5 km of 40 m wide pipeline right-of-way in 12 segments (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining 0.5 km of 30 m wide pipeline right-of-way in one segment (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining 226.6 km of winter and all-weather access roads to facilitate construction and operation of the project (for a description of access road development, see [Section 3](#) and [sections 4, 5, 6 and 7](#))
- using temporary workspace for construction activities (for a description of temporary workspace use, see [Section 3](#) and [Section 6](#))

The various land use activities in this application meet the threshold criteria for Type A or Type B land use permits under the *Mackenzie Valley Land Use Regulations*.

The total land area requested in this application is 3,522.7 ha. See [Appendix A](#) for detailed, site-specific requirements.

b) Please indicate if a camp is to be set up

A number of camps will be required to support the development. This land use permit application seeks approval to set up:

- one 1,350-person camp at the Little Chicago infrastructure site (a description of this camp development is contained in [Section 3](#) and [Section 4](#))
- one 120-person camp at the Little Chicago facility site (a description of this camp development is contained in [Section 3](#) and [Section 4](#))
- one 950-person camp at the Little Smith Creek infrastructure site (a description of this camp development is contained in [Section 3](#) and [Section 4](#))

- mobile pioneer camps (typically 35 to 70 person capacity), as required, to facilitate initial construction of development sites (for a description of these camps, see [Section 3](#))

Land requirements for the stationary and mobile pioneer camps are included in the lands required for the activities described previously in Part 5 a) Summary of Operation.

6. Summary of potential environmental and resource impacts (describe the effects of the proposed land-use operation on land, water, flora & fauna and related socio-economic impacts)

Biophysical and human environment setting, effects and primary mitigation strategies are discussed on a regional basis in [Section 8](#). Site-specific information is provided in [sections 4, 5, 6, and 7](#). Environmental and heritage resource protection plans are included in [Section 11](#).

7. Proposed restoration plan

The land use activities and operations related to construction of the proposed development will be planned and executed to reduce reclamation requirements and enhance natural recovery following construction. Construction techniques and design elements that comply with accepted protocols and standards for pipeline and facility construction will be used.

Decommissioning and abandonment will begin after the developments are no longer required for construction or operations. An abandonment and reclamation plan will be developed according to the regulatory requirements in effect at the time of the abandonment. The plan will include public consultation and consideration of alternative uses for the sites being decommissioned and abandoned. Surface facilities might be removed and the surface, other than granular pads, reclaimed. The site-specific sections and [Section 8](#) provide additional detail.

8. Other rights, licences or permits related to this permit application (mineral rights, timber permits, water licences, etc.)

Other rights, licences or permits related to this application are being sought from various regulatory authorities and government agencies. These are listed in [Table 2-1](#).

Table 2-1: Other Rights, Licences or Permits Related to This Application

Permit or Approval	Contact Agency	Contact
FEDERAL		
Application for a Certificate of Public Convenience and Necessity under Section 52 of the <i>National Energy Board Act</i>	National Energy Board	National Energy Board 444 Seventh Avenue S.W. Calgary, AB T2P 0X8

Table 2-1: Other Rights, Licences or Permits Related to This Application (cont'd)

Permit or Approval	Contact Agency	Contact
FEDERAL (cont'd)		
Application for approval of development plans and work authorizations under the <i>Canada Oil and Gas Operations Act</i> (COGOA)	National Energy Board	National Energy Board 444 Seventh Avenue S.W. Calgary, AB T2P 0X8
Applications for land use permits and water licences in the Mackenzie Valley	Mackenzie Valley Land and Water Board	Mackenzie Valley Land and Water Board P.O. Box 2130 7th Floor, 4910 – 50th Avenue Yellowknife, NT X1A 2P6
Applications for authorization for works or undertakings affecting fish habitat, as required	Fisheries and Oceans Canada (DFO)	Fisheries and Oceans Canada Yellowknife District Office Suite 101, 5204 – 50th Avenue Yellowknife, NT X1A 1E2
Approvals for work in navigable waters	Transport Canada	Transport Canada Prairie and Northern Division P.O. Box 8550 344 Edmonton Street Winnipeg, MB R3C 0P6
Applications for quarry permits and leases on Crown lands	Indian and Northern Affairs Canada (INAC, previously known as DIAND)	Indian and Northern Affairs Canada P.O. Box 1500 6th Floor, 4914 – 50th Avenue Yellowknife, NT X1A 2R3
Applications for land access on Crown lands	INAC	Indian and Northern Affairs Canada P.O. Box 1500 6th Floor, 4914 – 50th Avenue Yellowknife, NT X1A 2R3
Radio apparatus permits	Industry Canada	Industry Canada 4920 – 52nd Street Yellowknife NT X1A 3T1
Explosives storage permits	Natural Resources Canada	Natural Resources Canada 4920 – 52nd Street Yellowknife NT X1A 3T1
TERRITORIAL		
Wildlife disturbance, timber burning and cutting permits	Department of Resources, Wildlife and Economic Development (RWED), known as Department of Environment and Natural Resources (ENR) since April 1, 2005.	Environment and Natural Resources 600, 5102 – 50th Avenue Yellowknife, NT X1A 3S8
Applications for highway access	Department of Transport (DOT)	Department of Transport P.O. Box 1320 Yellowknife, NT X1A 2L9

Table 2-1: Other Rights, Licences or Permits Related to This Application (cont'd)

Permit or Approval	Contact Agency	Contact
TERRITORIAL (cont'd)		
Applications for camp water supply	Department of Health	Department of Health and Social Services P.O. Box 1320 Yellowknife, NT X1A 2L9
Explosives use permits	Workers' Compensation Board	Workers' Compensation Board of the NWT P.O. Box 8888 Yellowknife, NT X1A 2R3
Electrical and pressure vessel permits	Public Works and Services	Public Works & Services Stuart Hodgson Building P.O. Box 1320 Yellowknife NT X1A 2L9
<i>Area Development Act</i> permits and licences	Municipal and Community Affairs (MACA)	Minister's Office P.O. Box 1320 Yellowknife, NT X1A 2L9
Applications for quarry permits and leases on private lands within the Tulita District of the SSA	Sahtu Secretariat Incorporated (SSI)	Sahtu Secretariat Incorporated P.O. Box 155 Deline, NT X0E 0G0
Applications for quarry permits and leases on private lands within the K'ahsho Got'ine District of the SSA	Sahtu Secretariat Incorporated (SSI)	Sahtu Secretariat Incorporated P.O. Box 155 Deline, NT X0E 0G0
Applications for land tenure on private lands within the Tulita District of the SSA	Tulita Land Corporation	Tulita Land Corporation P.O. Box 63 Tulita, NT X0E 0K0
Applications for land tenure on private lands within the K'ahsho Got'ine District of the SSA	K'ahsho Got'ine Land Corporation	K'ahsho Got'ine Land Corporation P.O. Box 18 Fort Good Hope, NT X0E 0H0
Applications for archaeological permits	Prince of Wales Northern Heritage Centre (PWNHC)	Prince of Wales Northern Heritage Centre P.O. Box 1320 Yellowknife, NT X1A 2L9

Roads: Is this to be a pioneered road?

Existing roads and previously disturbed areas will be used, as much as practical. Where necessary, new roads will be built as described herein.

Roads: Has the route been laid out or ground truthed?

Road routes have been laid out or ground truthed through aerial photographs and confirmed by field reconnaissance between 2002 and 2004. Further reconnaissance work will be conducted to finalize routes and locations. Estimated road lengths allow for an additional 30% for topography and routing uncertainties.

9. Proposed disposal methods

a) Garbage:

c) Brush and trees:

b) Sewage (Sanitary and Gray Water):

d) Overburden (Organic soils, waste material, etc.):

Waste generated by the proposed development activities will be handled according to the waste management plan (WMP) for the project (see [Section 11](#)).

10. Equipment (includes drills, pumps, etc.)

The development activities at each site will require different numbers and types of equipment depending on the type, size and stage of activity. A discussion of the estimated equipment requirements for different activities is included in the topic Equipment (Part 10) in [sections 4, 5, 6 and 7](#).

11. Fuels

Fuel storage is described in the topic Fuels (Part 11) in [sections 4, 5, 6 and 7](#).

12. Containment fuel spill contingency plans

Detailed emergency response plans, including spill contingency, which reflect the construction and operational phases of the project, will be developed before construction begins. An overview of the emergency response and spill contingency framework is included in [Section 11](#).

13. Methods of fuel transfer (to other tanks, vehicles, etc.)

Barges will bring fuel to fuel storage sites adjacent to barge landings. Fuel storage tanks without nearby barge landings will be filled using fuel trucks shuttling between the barge landing and the tanks. If the fuel storage site is close enough, a temporary surface pipeline might be installed to connect the barge landing area to the fuel storage site so that fuel can be pumped directly into fuel storage tanks.

Tanker trucks will be filled with fuel from the fuel storage site for transport to the development sites. Construction equipment will be refuelled on the site, or the right-of-way, by tank or truck-mounted fuel pumps with spill control equipment and spill kits. Spill contingency measures are described in the emergency response plan (ERP) in [Section 11](#).

14. Period of operation (includes time to cover all phases of project work applied for, including restoration)

A schedule of activities to be carried out at each of the sites in this application is provided in [Section 3](#) and in the topic Period of Operation (Part 14) included in

sections 4, 5, 6 and 7. This includes ongoing maintenance, operations, post-construction reclamation and ultimate abandonment.

15. Period of permits (up to five years, with maximum of two years of extension)

The permit requested for all activities, including those associated with temporary construction sites and permanent facility sites, is for an initial five-year period. This covers a three-year construction period and allows for subsequent demobilization, construction cleanup and reclamation activities. Permanent developments, such as the pipeline right-of-way, will be the subject of long-term land access arrangements.

16. Location of activities by map coordinates (attached maps and sketches)

Each site in this land use permit application is shown on location maps and detailed site plans. Maps and coordinates of activities are referenced in the topic Location of Activities by Map Coordinates (Part 16) in sections 4, 5, 6 and 7.

Kilometre post (KP) markers are approximate and shown for relative placement only. Final KP markers will depend on the final pipeline route.

17. Applicant

Print name in full

Imperial Oil Resources Ventures Limited
425 First Street S.W.
Calgary, Alberta T2P 3M9

Attn: A.D. (Sandy) Martin
Manager, Regulatory Affairs
Mackenzie Gas Project

Signature _____ Date _____

18. Fees

A calculation of all land requirements applicable to this Type A land use permit application is contained in [Appendix A](#).

Application fee: Type A – \$150.00

Land use fee: $(3522.7 \text{ ha} - 2.0 \text{ ha}) * \$50.00/\text{ha} = \$176,035.00$

Total fee: \$176,185.00

