

REGISTRATION PURSUANT TO SECTION 49 OF
THE ENVIRONMENTAL PROTECTION ACT

NAME OF UNDERTAKING:

NORTHERN BROOK CRANBERRY FARM

PROPONENT:

(i) *Name of Corporate Body:* **Northern Brook Cranberry Farm (TBI)**

(ii) *Address:* **P.O Box 65
Botwood, NL
A0H 1E0**

(iii) *Chief Executive Officer:* **Mr. Ken Newhook
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Botwood, NL
A0H 1E0
709-257-3163**

(iv) *Principal Contact:* **Mr. Ken Newhook
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email: kenandmichelle@nf.sympatico.ca**

The Undertaking:

Ken Newhook of Botwood, Newfoundland and Labrador is presently seeking a License to Occupy from the Lands Division, Department of Environment and Conservation to develop and operate a Cranberry Farm in the Northern Arm Area.

Description of the Undertaking:

(i) Geographical Location:

A large peat bog located in the Northern Arm area off the Northern Arm Brook Resource Road. Please see the attached location maps. The total size of the site is approximately 140 hectares (345 acres).

(ii) Physical Features:

The site is comprised of a deep peat bog in three sections. The site is bounded by the Northern Arm Brook Resource Road to the North, by Northern Arm Brook to the South and by Crown Land to the East and West. The proponent plans to initially develop the lower section of bog (approx. 35 acres), followed by the center section (approx. 14 acres), as per the attached map. One to two storage sheds are proposed for the site. Access to the site will be developed utilizing the Northern Arm Brook Resource Road off Route 350.

(iii) Construction:

Subject to final design engineering and consultation. Work will be carried out over four to five years with a total of up to 49 acres of cranberry field beds being developed, at a rate of at least 5-10 acres per annum. Fields will be developed at a consistent width of 46 m, with a length based on site layout and topography varying from 50 m to 615 m.

Construction will consist of:

- Preliminary ditching in the proposed berm locations and discharge areas;
- Cranberry bed development, consisting of removing a layer of peat to level the bed, with the spoil to be used for the berm construction;
- Ditching between the bed and berm;
- Construction of Irrigation and Sediment Ponds;
- Construction of farm auxiliary buildings;
- Installation of water control structures;
- Installation of drainage tile in the bed;
- Development of an access road to the site, then a farm service road on top of the berms which will be approximately 6m wide and considered part of the berm construction;
- Placement and leveling of approximately 20cm of sand on new cranberry beds.

The potential sources of pollutants during the construction period are associated with machinery diesel fuel and lubricants. Machinery such as farm tractors, excavators, and dump trucks will be refueled and lubricated on mineral soil - off the construction site.

Refuse and human waste will be disposed and addressed using procedures specified by the Department of Environment and Conservation.

Year 1 – Start as soon as land and finances are secured, commencing to develop at least 5-10 acres of cranberry producing fields.

Year 2 – Develop at least 10 acres of cranberry producing fields.

Year 3+ - Develop at least 10 acres of cranberry producing fields.

(iv) Operations:

Long term management of a producing cranberry farm with a goal of being a model steward to the environment. No resource conflicts are expected throughout the life of this development.

Harvesting normally consists of flooding each field with approximately 45cm of water, independently at different times, to reduce large volumes of discharge. A cranberry beater will dislodge the cranberries from the vines underwater which will in turn float to the surface, then gathered by a boom and loaded into plastic containers via a conveyor system.

Flood water discharge will be diverted into another field for harvesting or through maintained ditches and routed to a sediment pond, which will contain any potential contaminants, and act as a supplementary water source if required.

Agricultural operational procedures will be consistent with appropriate environmental standards for sustainable agriculture.

Potential contaminants during the operational period will include: Common chemicals used during cranberry operations within Newfoundland and Labrador includes the following registered products:

- Herbicides; Devrinol, Callisto, Roundup
- Insecticides; Sevin, Diazinon
- Fungicides; Bravo, Furban
- Fertilizers; 17-17-17/50lbs/acre, 46-0-0/10lbs/acre

Other potential sources of pollutants during operations include the same as the construction period associated with machinery fuel and lubricants. Machinery such as farm tractors and flat bed trucks will be refueled and lubricated on mineral soil - off the construction site. Refuse and human waste will be disposed and addressed using procedures specified by the Department of Environment and Conservation.

(v) Occupations:

1. General Manager
2. Design Engineer (Contractor)
3. Grower
4. Pesticide Applicator
5. Laborers (Part time)

6. Office administrator
7. Equipment operator
8. Electrician (Contractor)
9. Mechanic (Contractor)

(vi) Project Related Documents:

Crown Land Application #133531, in progress.

Approval of the Undertaking:

Following is a list of main permits, licenses and approvals required for this project.

<u>Approval/Certification/License/Permit</u>	<u>Authority</u>
Environmental Registration	Dept. of Environment and Conservation
Environmental Assessment Approval	Dept. of Environment and Conservation
Crown Land	Dept. of Environment and Conservation
Fuel Storage & Handling.	Department of Government Services
Pesticides (applicator/Operator)	Dept. of Environment and Conservation
Water Use License	Dept. of Environment and Conservation
Permit to Alter a Body of Water	Dept. of Environment and Conservation
Workers Health and Safety Compensation	Workplace Health Safety and Compensation Commission

Schedule:

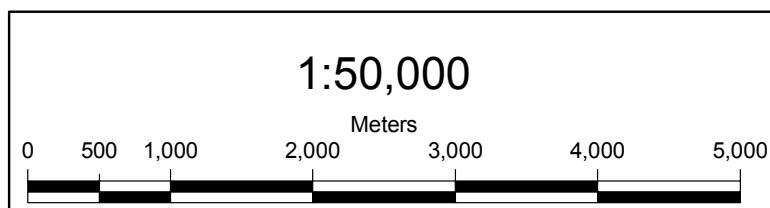
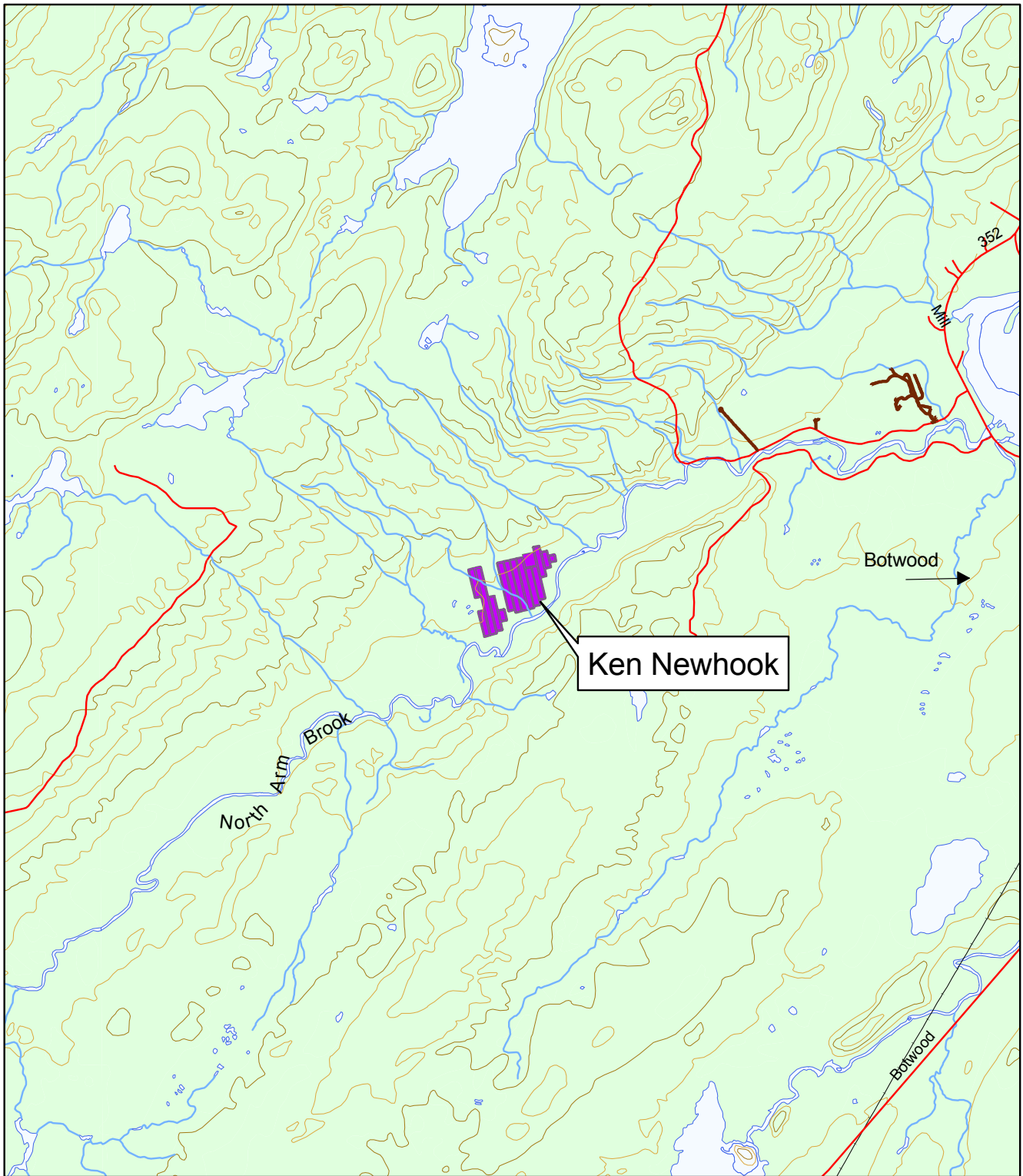
The earliest construction start date is July 2009, latest being September 2009.
Construction will then be conducted over several years.

Funding:

No application for funding at this time. Typical cost of cranberry bed development is approximately \$30,000-35,000/acre.

Date

Ken Newhook (Owner/Operator)



NTS Mapsheet 2E3 / 2E4

