

1.0 Name of Undertaking:

Grand Falls – Windsor Cranberry Farm

2.0 Proponent:

- (i) Mr. Stephen Newhook
- (ii) 365 Grenfell Heights
Grand Falls – Windsor, NL
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3.0 The Undertaking:

Stephen Newhook of Grand Falls – Windsor, Newfoundland is presently seeking an agriculture lease or License to Occupy from the Lands Division, Department of Environment and Conservation to develop and operate a Cranberry Farm in the Grand Falls – Windsor area.

4.0 Description of the Undertaking:

- (i) Geographical Location:
 - Located approximately 500 meters North of Grand Falls – Windsor where the transmission line intersects with Ivany's Access Road. Access to the site is made through an old branch of Ivany's road that is currently used by all terrain vehicles, Please see attached location map. Site map indicates cranberry field development consisting of 26 ha, which includes berms and ditches. However, only approximately 18 ha applies to the field beds.
- (ii) Physical Features:
 - The site is comprised of approximately 60% dry bog with Kalmia ground cover and 30% wet bog with grass cover and 10% standing water. The surrounding land is comprised of forest land that burnt in 1986 and currently in varying stages of regeneration, primarily hardwood stands.

The areas high point is located to the South West and gently slopes to the North East. 2 storage sheds are proposed. Upgrading of 450m of existing road access is necessary.

(iii) Construction:

Subject to design engineering and consultation. Work to be carried out over 3 Years with a total of 18 hectares of cranberry field beds being developed.

Construction will consist of:

- Brush cutting on the proposed site where necessary;
- 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 pond;
- Construction of Sediment Pond;
- Construction of farm auxiliary buildings;
- Installation of water control structures;
- Installation of drainage tile in the bed;
- Upgrading 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 bed.

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 Dept. of Environment and Conservation.

Year 1 – Start as soon as land, finances and machinery are secured, commencing to develop 6 hectares of cranberry producing fields.

Year 2 – Develop 6 hectares of cranberry producing fields.

Year 3 - Develop 6 hectares 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

Fertilizers; 17 17 17/50lbs/acre, 4600/10lbs/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 Dept. 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 No. : 132383 in progress

5.0 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	Department of Environment and Conservation
Environmental Assessment Approval	Department of Environment and Conservation
Crown Land	Department of Environment and Conservation
Electrical installation	Department of Government Services
Fuel Storage & Handling.	Department of Government Services
Cutting Permit	Department of Natural Resources
Municipal Approval	Town of Grand Falls – Windsor
Pesticides (applicator/Operator)	Department of Environment and Conservation
Water Use License	Department of Environment and Conservation
Permit to Alter a Body of Water	Department of Environment and Conservation
Workers Health and Safety Compensation	Workplace Health Safety and Compensation Commission

6.0 SCHEDULE

The earliest construction start date is September 2008, latest being September 2009. Construction will then be conducted over 3 years.

7.0 Funding:

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

Date

Stephen Newhook (Owner/Operator)