

**NAME OF UNDERTAKING:**

Green Hill Farm Ltd. - Cranberry Farm

**PROPONENT:**

- (i) Name of Corporate Body: Green Hill Farm Ltd
- (ii) Address: General Delivery St. Brides, NL. A0B 2Z0
- (iii) Chief Executive Officer: Reginald Careen
  - Name: Reginald Careen
  - Official Title:
  - Address: General Delivery St. Brides, NL. A0B 2Z0
  - Telephone: 709-337-2569
- (iv) Principal contact person for purposes of environmental assessment
  - Name: Reginald Careen
  - Official Title:
  - Address: General Delivery St. Brides, NL. A0B 2Z0
  - Telephone No.: 709-337-2569

**THE UNDERTAKING:**

- (i) Name of undertaking: Green Hill Farm Ltd. - Cranberry Farm
- (ii) Purpose/Rationale/Need for the Undertaking: To establish new Cranberry Farm for crop diversification.

**DESCRIPTION OF THE UNDERTAKING;**

(i) Geographical location:  
The location for the proposed site is 7 kms east of St. Bride's, Placentia Bay and approximately 9 kms west of Branch, St. Mary's Bay along route 100. 1:50,000 and 1:5,000 scale maps are provided.

(ii) Physical features:  
The area that will be affected is approximately 50 acres of peat bog (38 acres of actual cranberry beds and 12 acres of berms, water sources, discharge areas, etc.). There are no domestic water supplies near the proposed site. An 80m access road will be built connecting route 100 to the farm, the road will then be constructed on the berms for farm efficiency (see 1:5:000 map attached).

The physical features of the proposed site include:

Topography; inclined peatland 5%, which will encourage drainage flow.

Parent Material; Morainal till.

Water Bodies; Identified as five potential water sources for this undertaking, deep flashettes, void of fish.

Wildlife; No wildlife were observed during field inspections. Known Caribou habitat.

Trees; Stunted larch and balsam fir (< 60cm high – tuckamore)

Ground Vegetation; sedges, sphagnum mosses, caribou lichen, black crowberry, ground juniper, kalmia, bakeapple, cranberry, and sundew.

(iii) Construction:

The proposed site of 50 acres will be developed over an estimated period of 5 years, developing 10 acres per year. The development will commence as soon as possible, estimated September 2008.

Construction will consist of:

Brush cutting on the proposed site;

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;

Installation of water control structures;

Installation of drainage tile in the bed;

Construction of 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.

(iv) Operation:

This proposed 50 acre Cranberry Farm will be a year round operation with the majority of work being completed in early spring and late fall of each year. This will be a properly managed permanent site. There are no potential resource conflicts.

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, which will be under water, off the cranberry vines which will in turn float to the surface and gathered by a boom, and loaded into plastic containers via a conveyor system.

Flood water discharge will be diverted into maintained ditches and routed through 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 include 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:

During the construction phase of this proposed project, there will be 2-3 employees (Heavy Equipment Operators and Supervisor). After construction, daily operational requirements will involve two farm labour employees, except during the annual fall harvest, beginning in 2010, which should require approximately 6 farm labour employees for a period of 3 weeks.

Employees will receive proper training, as required, regarding the storage, handling and application of chemicals.

Employment opportunities will be gender neutral.

(vi) Project related documents:

Crown Lands Application to acquire land in question- in progress.

## **APPROVAL OF THE UNDERTAKING:**

Required for the undertaking:

License to Occupy, Lands Division.... Dept. Environment and Conservation (DEC)

Permit to alter a Body of Water.... DEC

Water Use License.... DEC  
Highway Access Permit..... Dept. Transportation and Works

**SCHEDULE:**

Earliest dates for commencement would be September 1, 2008.  
Latest possible date for commencement would be October 1, 2008.  
These dates are important for the construction phase of the proposal.  
The site has to be winterized and ready for early season planting during the spring of 2009. The site must be prepared early enough to permit settling prior to the winter season.

**FUNDING:**

Avalon West Development Corporation..... Placentia, NL  
Dept. of Natural Resources.....Corner Brook, NL

Typical cost of cranberry bed development is approximately \$30,000/acre.

Signature of Chief Executive Officer: \_\_\_\_\_

Date: \_\_\_\_\_