

1.0 Name of Undertaking:

Black Duck Cranberries

2.0 Proponent:

- (i) Mr. Robert McFatridge
- (ii) 143 West Street
Stephenville, NL
A2N 1E7
- (iii) Mr. Robert McFatridge
Owner/Grower
143 West Street
Stephenville, NL
A2N 1E7
Telephone: 709-643-6364
email: nl10213@hotmail.com
- (iv) Mr. Robert McFatridge
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email: nl10213@hotmail.com

3.0 The Undertaking:

Robert McFatridge 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 Black Duck Siding area.

4.0 Description of the Undertaking:

- (i) Geographical Location:
 - Located immediately 200m west of the intersection of the Transmission Line and route 460 in Black Duck Siding. Access to the site will be made through a proposed road off route 460. Please see attached location map which indicates total cranberry site development consisting of 27.5 ha. However, only 13.9 ha apply to the cranberry field beds.

(ii) Physical Features:

The site is comprised of approximately 95% peat bog and 5% mineral soil.
1 storage shed is proposed.

(iii) Construction:

Subject to design engineering and consultation. Work to be carried out over 4 Years with a total of 27.5 hectares of cranberry site development.

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 beds and berms;
- Construction of Sediment Pond;
- Installation of culvert in Trailway bed;
- Construction of shed 12m x 18m;
- Installation of water control structures;
- Installation of drainage tile in the bed;
- 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 sediment pond, berms, ditches, road, and 3 hectares of cranberry fields.

Year 2 – Develop 3 hectares of cranberry fields.

Year 3 - Develop 4 hectares of cranberry fields, construct shed.

Year 4 - Develop 3.9 hectares of cranberry 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.

Water Source is indentified on attached map. An above ground 20cm diameter pipe is proposed to withdraw water from the source, through a proposed culvert to be installed in the Trailway bed, to pump water approximately 120 metres to the closest point of the cranberry site. Accessibility on the Trailway right of way will not be obstructed in any way. 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 or large bags via a conveyor system. Flood water discharge will be diverted from one field into another field for harvesting then through maintained ditches and routed to a sediment pond. Potential contaminants will be captured by the sediment pond prior to slow release of discharge water into a natural drainage area. 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, Ferban
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. Laborers (Part time)
 4. Equipment operator
 5. Mechanic (Contractor)

- (vi) Project Related Documents:

Crown Land Application No. : W-132749 (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
Fuel Storage & Handling.	Department of Government Services
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
Permission to install culvert in Trailway bed	Department of Environment and Conservation Parks and Natural Areas Division
Access Permit	Department of Works, Services and Transportation

6.0 SCHEDULE

The earliest construction start date is September 2009, latest being October 2009. Construction will then be conducted over 4 years.

7.0 Funding:

Application for funding at this time through Department of Natural Resources and other sources if deemed eligible. Typical cost of cranberry bed development is approximately \$30,000/acre.

Date

(Owner/Operator)