Environmental Assessment

Registration Document

Submitted by:

Harrys River Cranberry Farm
632 Logy Bay Rd.
Logy Bay, NL
A1K 3B3

January 2010

Table of Contents

REGISTRATION PURSUANT TO SECTION 49 OF THE ENVIRONMENTAL PROTECTION ACT

Name of Undertaking:

Harrys River Cranberry Farm

Proponent:

i.	Name of Corporate Body:	Harrys River Cranberry Farm Ltd. (TBI)
ii.	Address:	632 Logy Bay Rd. Logy Bay, NL A1K 3B3 709-682-8985
iii.	Chief Executive Officer:	Mr. David Walsh 632 Logy Bay Rd. Logy Bay, NL A1K 3B3 709-682-8985
iv.	Principal Contact:	Mr. David Walsh 632 Logy Bay Rd. Logy Bay, NL A1K 3B3 709-682-8985 dwalsh27@hotmail.com

The Undertaking:

Mr. David Terrence Walsh of Logy Bay, 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 Black Duck Siding area.

Description of the Undertaking:

i. Geographical Location:

A large peat bog located south of the municipality of Black Duck Siding, NL, in an area just south of Harrys River and three kilometres west of Route 460. Please see the attached location maps. The total size of the site is approximately 142.4 hectares (350 acres).

ii. Physical Features:

The site is comprised of a deep peat bog gently sloping from south to north and from east to west. A small pond approximately 7.3 hectares in size is located in the centre of the property. Harrys River lies just to the north and west and extensive bog lands lie to the south and east. The area is underlain by approximately 80% peat and 20% mineral soil. These in turn, are underlain by fluvial/glacial fluvial sands and gravels ranging in size from medium to fine grained sand to poorly sorted boulder gravel.

iii. Construction:

Subject to final design engineering and consultation, work to be carried out over several years with a total of 88 acres of cranberry beds to be developed, at a rate of 10 - 15 acres per annum. Beds will be developed at a consistent width of 45 m, with a length based on site layout and topography varying from 175 m to 575 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 Sediment Pond;
- Construction of farm auxiliary building;
- Construction of approximately 1500 m of power line including a crossing of Harrys River;
- Installation of water control structures and canals;
- Installation of drainage tile in the bed;
- Development of 760 m of access roads to bed sites and farm service roads on top of the berms which will be approximately 6m wide and considered part of the berm construction;
- Establishment of quarry and screening equipment for sand;

- Placement and levelling 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 refuelled 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. A pit privy will be constructed during the construction phase and may be replaced at a later date by a septic field.

iv. **Operations**:

The long term goal of the cranberry farm is to have efficient and sustainable operations while maintaining sound environmental practices. No resource conflicts are expected throughout the life of this development.

Harvesting normally consists of flooding each field with approximately 45cm of water, independently, 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 (from east to west) 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 refuelled 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**:

i. General Manager
ii. Design Engineer (Contractor)

iii. Grower/Pesticide Applicator
iv. Labourers (Part time)
v. Office administrator
vi. Equipment operator
vii. Electrician (Contractor)
viii. Mechanic (Contractor)

ix. **Project Related Documents**:

Crown Land Application #135448, in progress

Approval of the Undertaking:

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

Approval/Certification/License/Permit	Authority
Environmental Registration	Environment and Conservation
Environmental Assessment Approval	Environment and Conservation
Crown Land	Environment and Conservation
Fuel Storage & Handling.	Government Services
Municipal Approval	Town of Stephenville Crossing
Pesticides (applicator/Operator)	Environment and Conservation
Water Use License	Environment and Conservation
Permit to Alter a Body of Water	Environment and Conservation
Quarry Permit	Natural Resources
Pit Privy	Government Services
Workers Health and Safety Compensation	Workplace Health Safety and compensation Commission

Schedule:

The earliest construction start date is July 2010, latest being October 2010. Construction will then be conducted over several years.

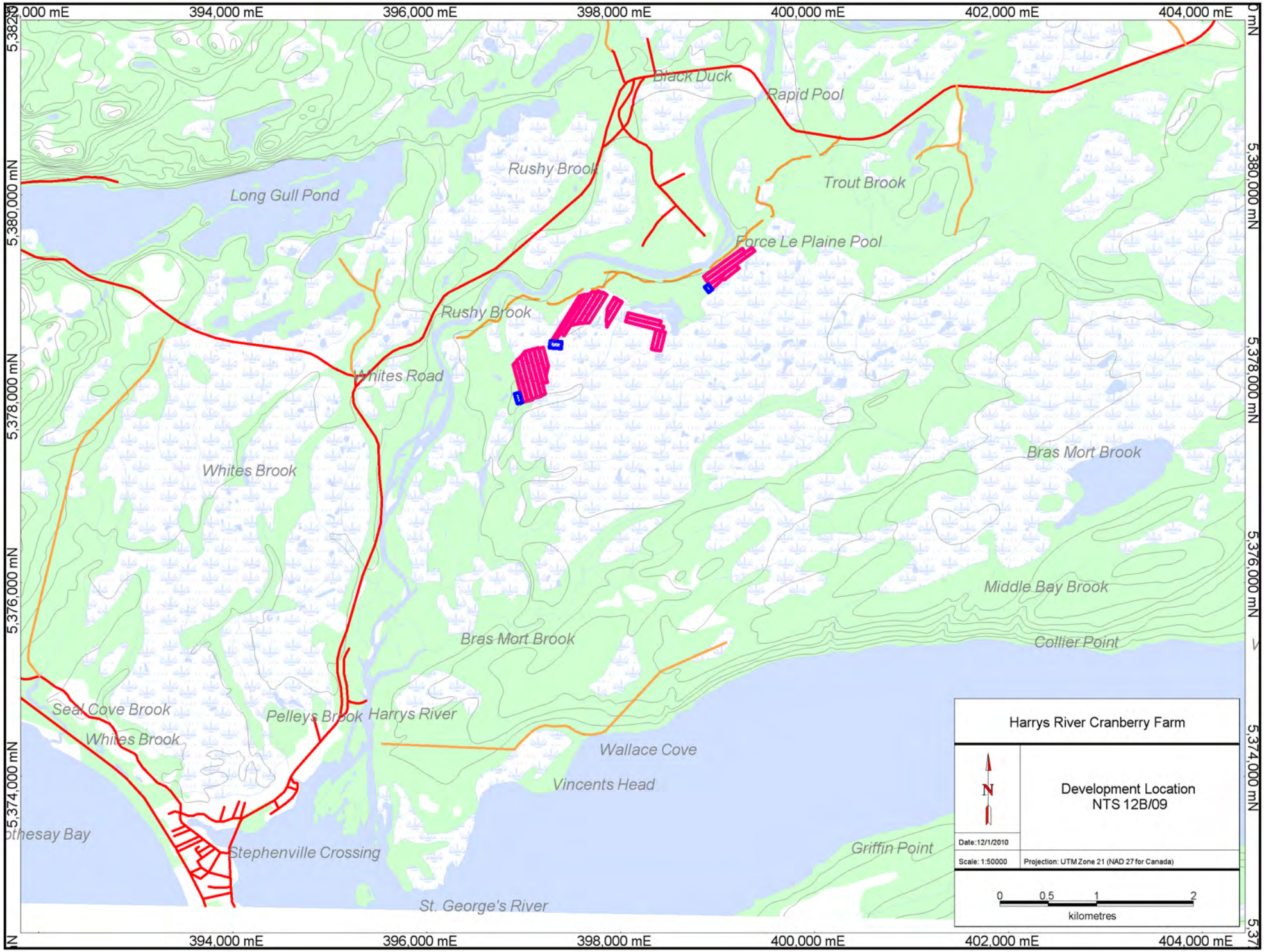
a. Year 1 - Start as soon as land, finances and machinery are secured, commencing to develop 10 acres of cranberry producing fields.
b. Year 2 - Develop 10 acres of cranberry producing fields.
c. Year 3 - Develop 10 acres of cranberry producing fields.
d. Years 4 to 7 - Develop 10 - 15 acres of cranberry producing fields.

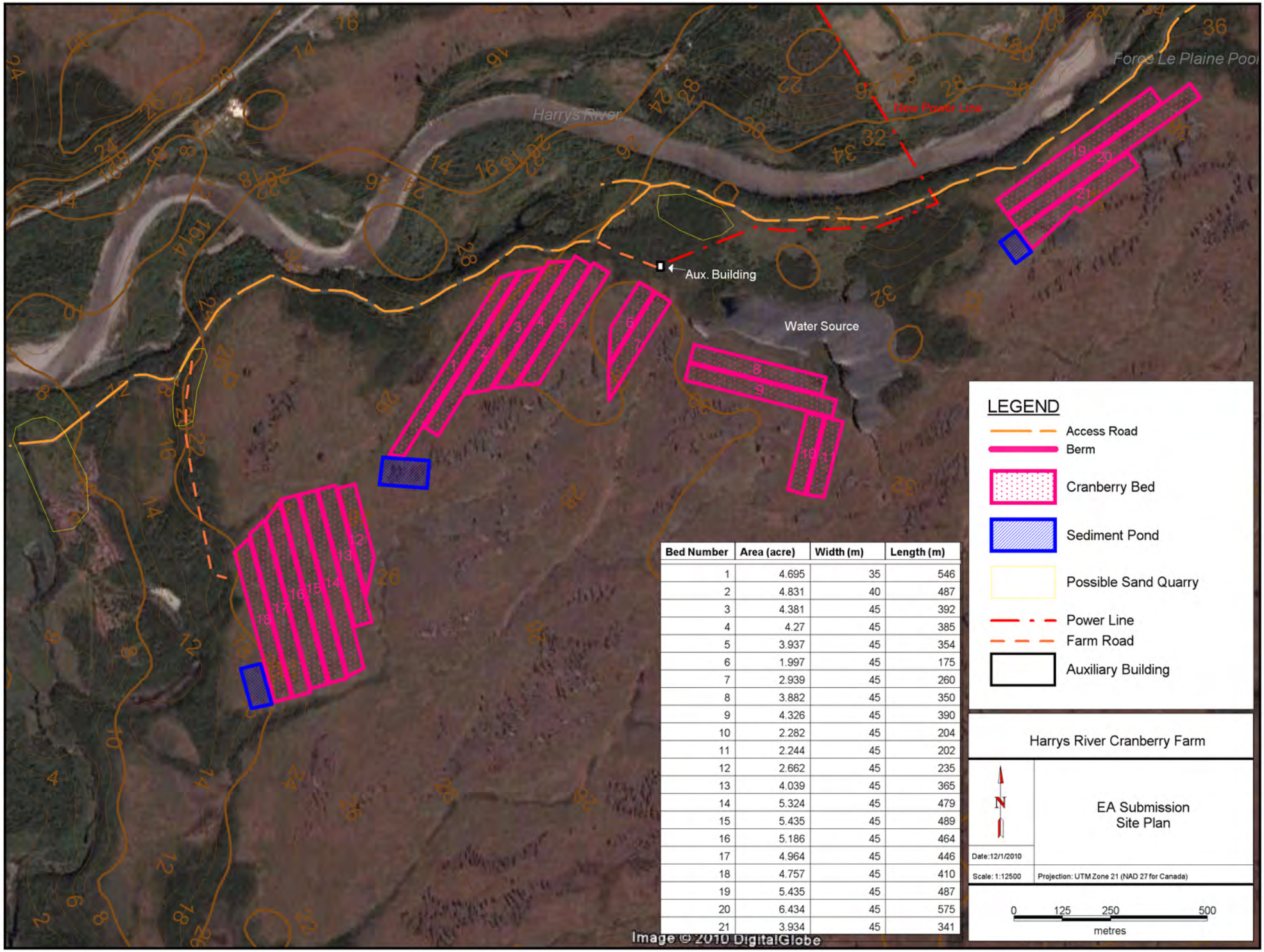
Funding:

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

_____ _____

Date David Walsh (CEO)


394,000 mE
396,000 mE
398,000 mE
400,000 mE
402,000 mE
404,000 mE
5,382,000 mN
5,380,000 mN
5,378,000 mN
5,376,000 mN
5,374,000 mN
Black Duck
Rapid Pool
Rushy Brook
Trout Brook
Long Gull Pond
Force Le Plaine Pool
Rushy Brook
Whites Road
Whites Brook
Bras Mort Brook
Middle Bay Brook
Collier Point
Bras Mort Brook
Seal Cove Brook
Pelleys Brook
Harrys River
Whites Brook
Wallace Cove
Vincents Head
Griffin Point
Stephenville Crossing
St. George's River
Harrys River Cranberry Farm
N
Development Location
NTS 12B/09
Date:12/1/2010
Scale: 1:50000
Projection: UTM Zone 21 (NAD 27 for Canada)
0
0.5
1
2
kilometres



Bed Number	Area (acre)	Width (m)	Length (m)
1	4.695	35	546
2	4.831	40	487
3	4.381	45	392
4	4.27	45	385
5	3.937	45	354
6	1.997	45	175
7	2.939	45	260
8	3.882	45	350
9	4.326	45	390
10	2.282	45	204
11	2.244	45	202
12	2.662	45	235
13	4.039	45	365
14	5.324	45	479
15	5.435	45	489
16	5.186	45	464
17	4.964	45	446
18	4.757	45	410
19	5.435	45	487
20	6.434	45	575
21	3.934	45	341

LEGEND

- Access Road
- Berm
- Cranberry Bed
- Sediment Pond
- Possible Sand Quarry
- Power Line
- Farm Road
- Auxiliary Building

Harrys River Cranberry Farm

N

EA Submission
Site Plan

Date: 12/1/2010

Scale: 1:12500

Projection: UTM Zone 21 (NAD 27 for Canada)

0 125 250 500

metres