

**Environmental Assessment Registration Document
Forage Land Development near Springdale**

Moose Pond Road Area

West Pond Site

**Prepared by: Tim Dennis Young
 Harvey Rice**

File Ref No.: 200.20.2740

Date: April 4, 2019

Environmental Assessment Registration Document

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1.0 NATURE OF UNDERTAKING:

The development of two sections of land for forage production:

Section 1:

Moose Pond Road area, located seven kilometres south of Route 390 intersection with the T.C.H. (Springdale Junction)

Section 2:

West Pond (Riverhead) site, located 8.5 kilometres south of Route 390 intersection with the T.C.H. (Springdale Junction)

2.0 PROPONENT:

2.1 Name of Corporate Body:

Spring Meadow Farm Inc.

2.2 Address:

Springdale Junction Area

2.3 Chief Executive Officer:

Name: Tim Dennis Young

Official Title: Owner/Operator

Address: 53 Main Street
Springdale, NL
A0J 1T0

Telephone No: 709-673-8719

2.4 Principal Contact Person for purposes of environmental assessment:

Name: Tim Dennis Young or Harvey Rice

Official Title: Owner

Address: 53 Main Street
Springdale, NL
A0J 1T0

Email: Telephone No: (709)-673-8719 (Tim Young) or (709)-673-6793 (Harvey Rice)
timyoung@springdaleforest.com
harveyrice@springdaleforest.com

3.0 THE UNDERTAKING:

3.1 Name of the Undertaking:

The proposed project involves the development of two sections of land for forage production. These sections are denoted on the attached Department of Fisheries and Land Resources maps titled as **Forage Suitability for Parcels A & B Tim Young, Moose Pond, Halls Bay** (subdivided into Parcel A and Parcel B) and **Forage Suitability for CL Application Tim Young, West Pond, Halls Bay**.

3.2 Purpose/Rationale/Need of the Undertaking:

The owners of Spring Meadow Farm are endeavouring to establish a successful beef cattle operation. Currently, the farm has 75 animals. It is anticipated that within three years the farm will have a herd of about 200. The cattle will be raised on grass and hay, without the use of artificial growth hormones. There is much demand for this type of product.

The development of forage lands is essential to ensure the sustainability of a large Beef Cattle farm. Currently, Spring Meadow Farm is importing forage. If the farm is to expand, animal food self sufficiency must be the goal. Without it, the economic viability of the farm becomes tenuous.

Acquiring the lands identified in the attached maps will make a significant contribution toward the goal of self sufficiency.

4.0 DESCRIPTION OF THE UNDERTAKING:

4.1 Geographic Location:

The Google images on the next two pages provide a view of the location of Spring Meadow Farm and its relative geographic location to the two sections of land (Moose Pond Road and West Pond areas) under consideration. More descriptive location of each section is provided below:

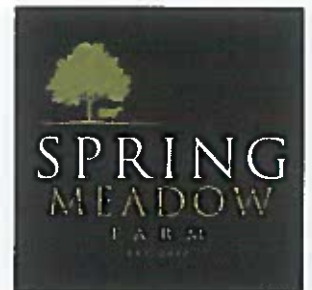
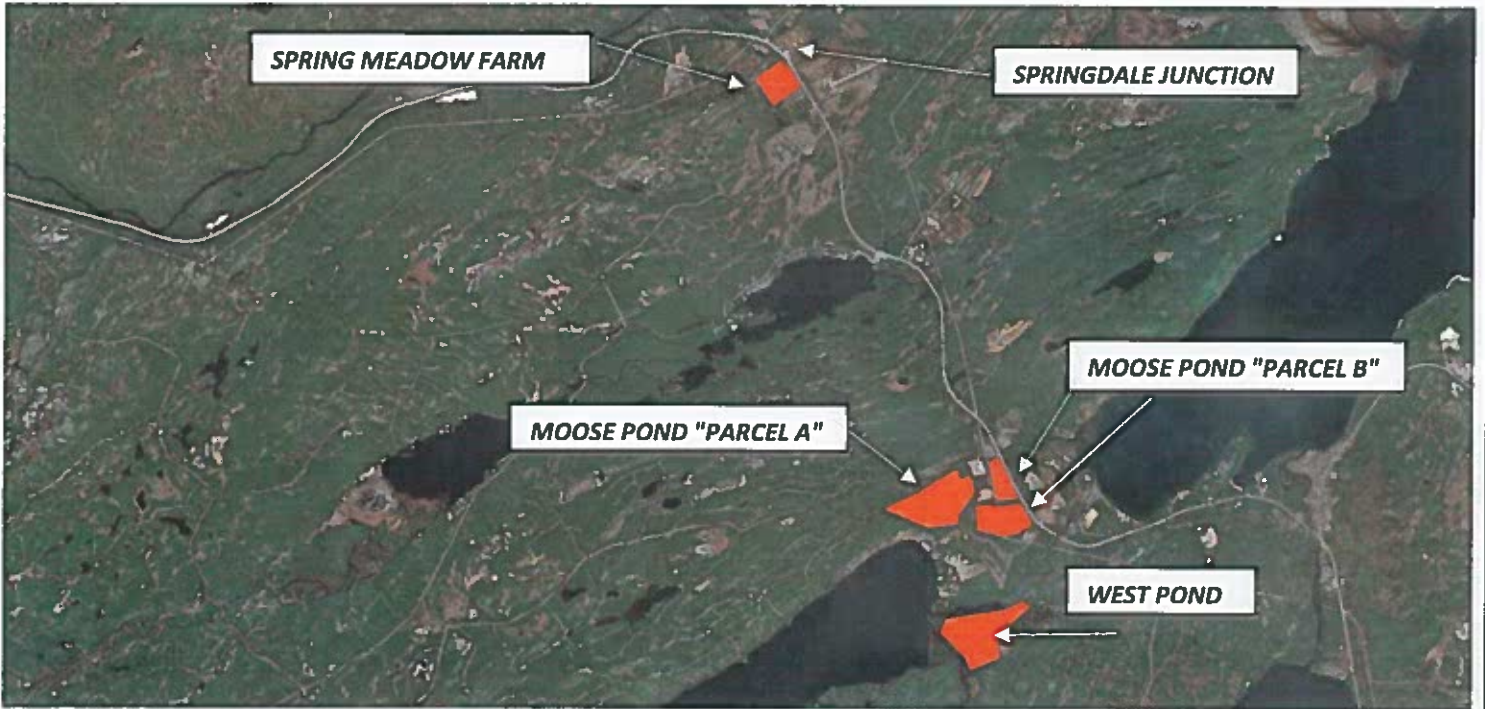
Section 1: Moose Pond Road, Halls Bay (NAD 27 UTM coordinates **21 U WE 61553, 75509**)

An old forestry road provides access to the forage area in the Moose Pond region. This location is 6.5 kilometers south of Spring Meadow Farm and 5.6 kilometers north from the South Brook Junction (Route 380) with the T.C.H.

**SPRING MEADOW FARM
(LOCATION)**



SPRING MEADOW FARM OVERVIEW
(Location of Spring Meadow Farm, Moose Pond Area, and West Pond Site)



The Department of Fisheries and Land Resources has divided the forage land in this Section into two parcels of land (Parcel A and Parcel B). Parcel A begins approximately 800 meters from the T.C.H. along the forestry road. After another 400 meters, the road branches and Parcel A is aligned with a road branch locally known as Moose Pond Road. (See Google Image on Page 6.)

Parcel B contains two blocks, both located on the eastern side of the transmission line. The land extends from the transmission line to the buffer with the T.C.H. A 20 meter access Right-of-Way off the forestry road provides access to Block B. Another 20 meters ROW leads from one area to another within this parcel of land. (See Google Image, Page 6.)

Part of the land separating Parcel A and Parcel B has been purchased recently by Green Bay Logging Ltd. This is not shown on the Department's map. In addition, a four hectare quarry site, as evident from the Google image and Department map, is located near the southern portion of the land. The Crown owns all other lands in the immediate vicinity.

The land identified as Parcels A and B will only be used for forage production. No animals will graze on the site. No buildings will be constructed. No fencing required.

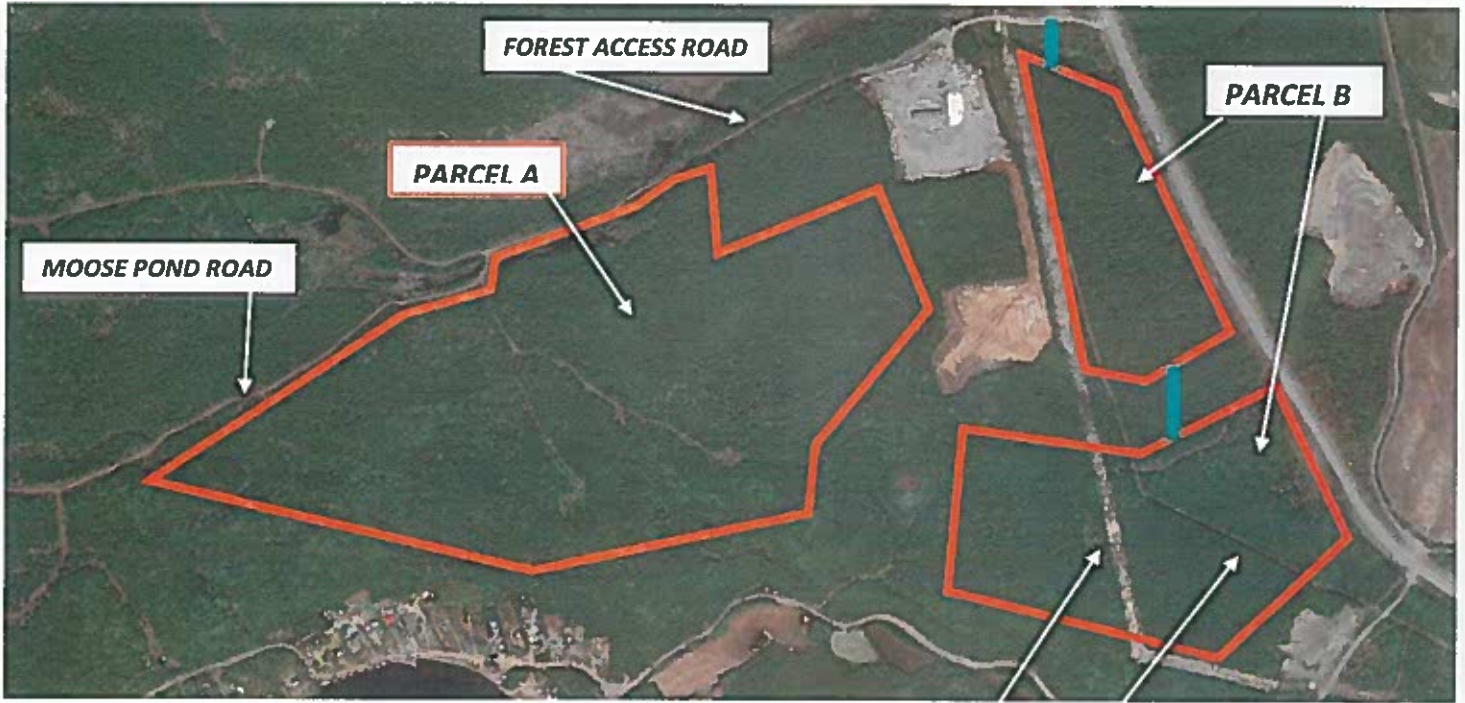
Section 2: *West Pond, Halls Bay* (NAD 27 UTM coordinates 21U WE 62517, 74308)

(See Google Image, Page 7)

Access to the forage area on the West Pond site is obtained through an old forest access road. The road begins 8 kilometers south of Spring Meadow Farm along the T.C.H and 4 kilometers north from the South Brook Junction (Route 380) with the T.C.H.. The road parallels Riverhead Brook and extends approximately 2.5 kilometres from the T.C.H. to West Pond. The eastern boundary of the forage area under consideration begins approximately one kilometer from the T.C.H.

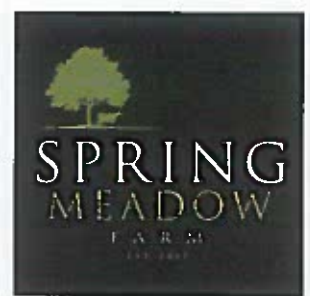
All land in the immediate vicinity is owned by the Crown.

SPRING MEADOW FARM
(Proposed Forage Area, Moose Pond Road)



R.O.W 20 M 

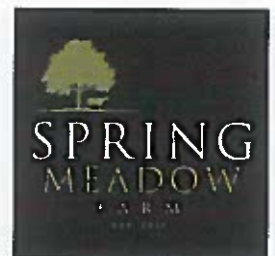
Transmission Lines



SPRING MEADOW FARM
(Proposed Forage Area, West Pond Site)



20 m road reservations



4.2 Physical Features

4.2.1 Site Description of Land

Section 1: Moose Pond Road Area

The land identified in the Department of Fisheries and Land Resources' Request For Proposals for the Moose Pond Road area is approximately 211 acres of arable land. As can be seen from the map Legend (Page 9), land suitability is described as follows:

- **Moderate imitations = 189.3 Ac.**
- **Severe Limitations = 21.7 Ac.**
- **Unsuitable = 9.9 Ac.**

The land is currently forested with mostly merchantable timber. It is relatively flat on the northern portion but drops off to a fairly steep slope along the southern boundary of the land under consideration.

There is a small waterbody (wet section) in the northern part of Parcel A.

In terms of wildlife, moose, snowshoe hare, grouse and song birds and been observed.

Section 2: West Pond Site

The land in this area has been harvested many years ago. As can be seen from the Google image (Page 7), some areas are relatively open. There area areas of small growth forest as well a portion with a small amount of merchantable timber.

The wildlife in this section is the same as that found in the Moose Pond area described above.

The West Pond forage area borders two productive salmon rivers; Barney's Brook to the southwest and West Brook, a.k.a. Riverhead, to the north.

The Department of Fisheries and Land Resources has classified the forage suitability of the West Pond site (See Page 9) as follows:

- **Moderate imitations = 122.6 Ac.**
- **Severe Limitations = 1.2 Ac.**
- **Unsuitable = 10 Ac.**

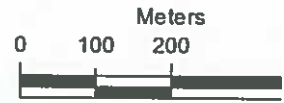
There are no ponds or streams within this section of land.

This land will only be used for forage production. No animals will graze on the site. No buildings will be constructed. No fencing required.

Forage Suitability for Parcel A & B Tim Young Moose Pond, Halls Bay, NL



1:11,000

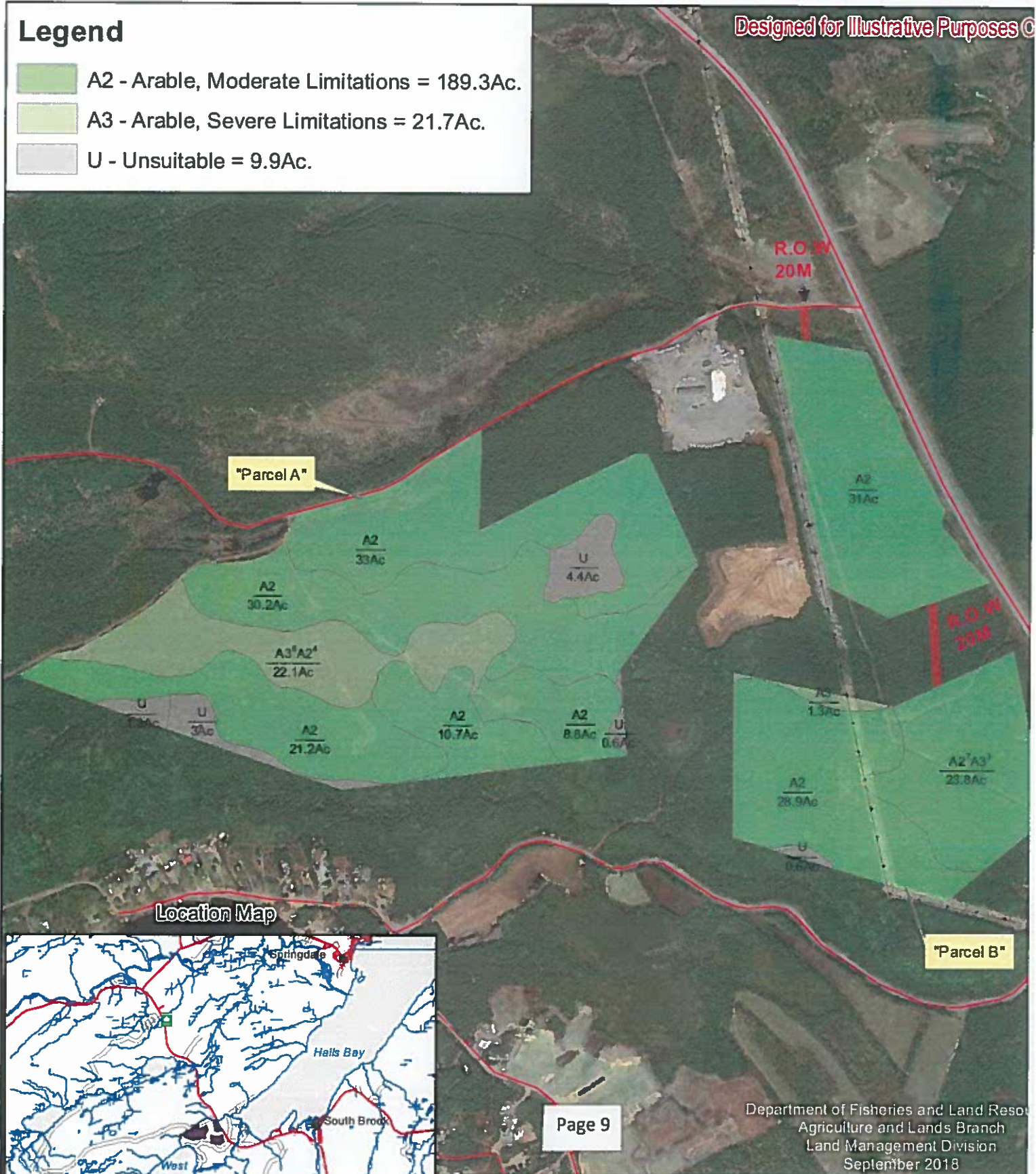


1 Acre = 0.404686 Hec

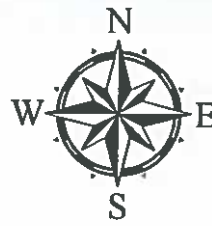
Legend

- A2 - Arable, Moderate Limitations = 189.3Ac.
- A3 - Arable, Severe Limitations = 21.7Ac.
- U - Unsuitable = 9.9Ac.

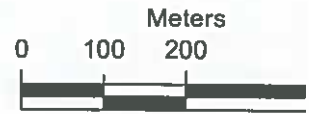
Designed for Illustrative Purposes Only



Forage Suitability for CL Application Tim Young West Pond, Halls Bay, NL







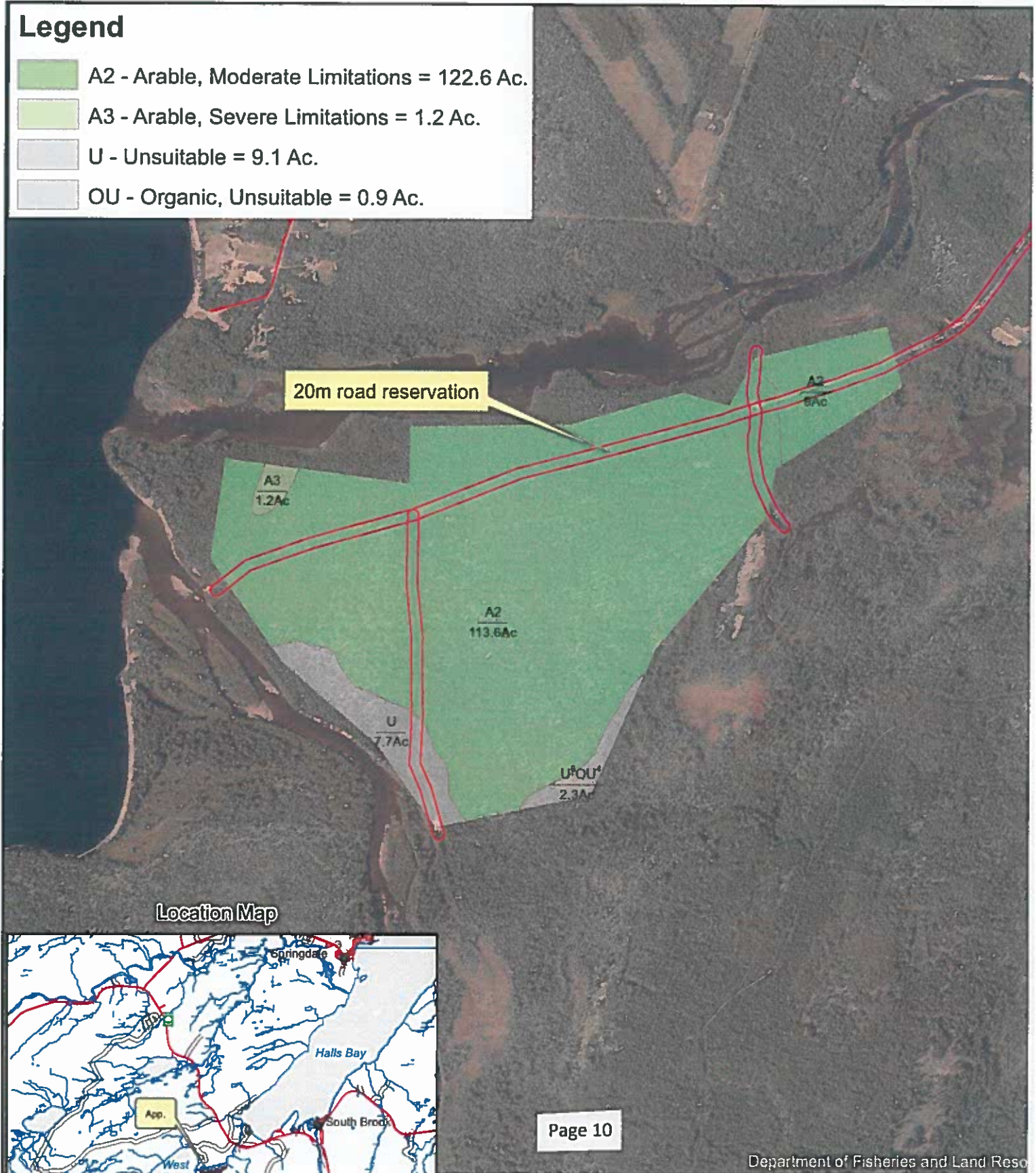
1:10,000



1 Hectare = 2.47 a

Legend

-  A2 - Arable, Moderate Limitations = 122.6 Ac.
-  A3 - Arable, Severe Limitations = 1.2 Ac.
-  U - Unsuitable = 9.1 Ac.
-  OU - Organic, Unsuitable = 0.9 Ac.



4.2.2 Items for Consideration:

Section 1: Moose Pond Road area.

(i) ATV Trail

There is one All Terrain Vehicle (ATV) trail crossing the property. It is located near the intersection of the Forest Access Road and the Moose Pond Road. The trail descend some 200 meters and give users access to the West Pond cabin area. The trail must be taken into consideration and a 10 meter right-of-way provided to ensure that residents and cottage owners in the West Pond area will have ATV access to the interior of the region.

(ii) Energized Power Lines

Two power lines extends from the northern to the southern borders and through the area of Parcel B. The lines are located near the western side of Parcel B boundary.

Since the electrical lines are on registered trails, unfettered access is permitted, thus allowing easy access throughout this portion of land. (See Department of Fisheries and Land Resources map (Page 9) as well as the Google image presented on Page 6. Road construction across the powerline easement must be done in consultation with NL Hydro.

An hazard assessment will be conducted and reviewed with Hydro. Prior to commencing work, an Energized Powerline Permit must be obtained from NL Hydro and all employees must have Powerline Hazard Training Certifications.

Section 2: West Pond site

The Department of Fisheries and Land Resources have reserved three 20 meter road Right-of-Way (ROW) through the property. One from the highway to West Pond and two other access roads of the same width which traverse the property from North to South. These designated ROWs are included to preserve the right of anglers to have unfettered access to trails leading to salmon pools along the river as well as access to

a fishing spot known locally as Barney's Falls, a distance of some 2.5 kilometers beyond the boundary of the proposed forage area.

As the access road from the highway enters the forage area, there are some pockets of water located outside but in close proximity to the boundary lines. All necessary buffers will be established to ensure no pollution results from the project. (See Section 4.3.1 -- Mitigation Measures taken during project work).

4.3 Project Construction Work

Road Upgrading:

The two forest access roads identified in this UNDERTAKING will need to be upgraded. This process will involve some mulching of alders along the length of the roadway as well as road grading.

In the Moose Pond Road area, two culverts will need to be installed. An 800 mm culvert pipe will be installed while constructing a 20 meter access road (ROW) to Parcel B. (See pages 6 & 9). A second culvert (450mm) will need to be installed on the forestry road, about 500 meters from the T.C.H., to allow proper water flow from one side of the road to another. Culvert installations will be conducted under the direction of the Department of Fisheries and Land Resources Inc.

Land Preparation:

Clearing, grubbing and mulching are the main activities associated with land preparation prior to the application of lime and seed. Mechanical harvesting and mulching will be the methods used to clear the land. The mulched material will be used to enhance soil development. The merchantable timber will be used/sold as firewood or transported to the Corner Brook Pulp and Paper mill. Any large logs will be sold to Green Bay Logging Ltd., which operates a sawmill within a short distance of the properties under consideration.

Once the clearing and grubbing have been completed, a FAE -150 Rock Crusher will be used. This crushing head, when attached to a tractor, can transform rocky ground into soil ready for planting with a single pass over the land. In that one pass, the crusher eliminates up to three steps in the land preparation process. When used, there is no need for tilling, raking or rock picking.

The application of lime and fertilizer will be determined by the soil analysis completed by the Provincial Soil, Plant & Feed Laboratory, Department of Fisheries and Land Resources.

4.3.1 Mitigation Measures taken during project work

- ✓ A 50 metre buffer will be maintained around all streams and ponds
- ✓ Vegetation clearing during migratory birds nesting, breeding and brood rearing season will be conducted only when a bird surveys, conducted by professionals, are completed.
- ✓ Equipment maintenance and refuelling will be conducted on level ground and NOT within a 150 metre radius of any stream or pond. No bulk fuel storage tanks will be used. Refuelling of all equipment will be from a double walled “Slip Tank” securely carried in the back of a pick-up truck.
- ✓ Any waste oil and lubricating oil shall be retained in a tank or enclosed container and disposed of by a company licenced for handling and disposing of used oil products.
- ✓ Emergency response spill kits will be on site and in each vehicle and piece of equipment.
- ✓ Out of “an abundance of caution”, operations will cease in heavy rainfall to ensure that no potential source of pollution enters any body of water. In addition to emergency spill kits, a supply of filter fabric and hay will also be maintained at sites.
- ✓ Employees will be experienced operators who have had extensive experience in working under the environmental guidelines of the ISO 14001 Environmental Management System.
- ✓ All work will be completed as per the regulatory requirements outlined in the Occupational Health and Safety Act and Regulations, 2012.
- ✓ All work will be conducted as per the Environmental Protection Act, 2002.

4.4 Operation

It is anticipated that once the land has been cleared and mulched, all arable land will be put into production. As indicated, it will be limed, seeded and fertilized. With appropriate applications of fertilizers (commercial and cow manure), the forage areas should be able to

produce two harvests per year. Until the soil matures, some of the forage requirements will have to be obtained from other sources.

4.5 Occupations

Bringing the land to forage production is not a labour-intensive process. Using mechanical harvesting equipment, two employees can clear the land in a relatively short timeframe. The same can be said about the grubbing process.

One employee, using a tractor with a FAE mulcher head attached can prepare the land for liming, fertilizing and seeding.

Harvesting and bailing of crop can be accomplished by another two individuals, one using a tractor with a Rotor Chop Mower and another with a round bailing attachment. The final product will then be wrapped and transported back to Spring Meadow Farm, approximately seven kilometers away.

4.6 Project Related Documents

There are no project related documents associated with this submission

5.0 APPROVAL OF THE UNDERTAKING:

In order for this project to proceed, the following permits and departmental approvals are required:

- ✚ **Environmental Protection Act – Assessment Regulations: Permit to Proceed**
- ✚ **Department of Municipal Services, Crown Lands Division**
- ✚ **Department of Forestry and Agrifoods – Commercial Cutting and Operating Permits**
- ✚ **Energized Powerline Permit for road construction (Hydro)**
- ✚ **Department of Fisheries and Land Resources**
- ✚ **Service NL, Dept. of the Environment**
- ✚ **Department of Transportation and Works**
- ✚ **Newfoundland and Labrador Hydro**

6.0 SCHEDULE:

The goal is to have the forage land referenced in the lease applications cleared and mulched during the spring/summer of 2019. Using mechanical harvesting and grubbing as well as mechanical advancements in ground preparation, all of the land can be ready for seeding this current year.

mechanical advancements in ground preparation, all of the land can be ready for seeding this current year.

7.0 FUNDING

The project is not funding dependent. All costs associated with the Proposal will be borne by the owner of Spring Meadow Farm.

8.0 SUBMISSION

Submitted by:

Date: April 4, 2019

A handwritten signature in blue ink, appearing to read "Tim Dennis Young" with a stylized flourish below it.

Mr. Tim Dennis Young
Owner
Spring Meadow Farm