



**ENVIRONMENTAL ASSESSMENT
REGISTRATION DOCUMENT**

**Green Hill Quarry Reclamation/Rehabilitation
Sand/Kelp Recycling**

13 NOVEMBER 2017

St. Bride's, NL
A0B 2Z0
709 337 2430
709 690 5523
manning.eugene@gmail.com (e)

Synopsis

This document presents details and methodologies proposed for reclamation and rehabilitation of the former and existing quarry facilities at the area colloquially known as Green Hill, situate on Route 100, between the communities of St. Bride's and Branch, in the province of Newfoundland and Labrador.

Table of Contents

1.0	NAME OF UNDERTAKING	1
2.0	PROPONENT	1
2.1	Corporate Body	1
2.2	Principal Contact	1
3.0	THE UNDERTAKING	2
3.1	Purpose	2
3.2	The Kelp	2
3.3	Green Hill Quarry	2
3.4	Soil/Fertilizer Production	3
4.0	DESCRIPTION OF THE UNDERTAKING	3
4.1	Geographic Location	3
4.2	Physical Features	4
4.3	Construction	5
4.4	Operation	5
4.5	Occupations	6
5.0	APPROVAL OF THE UNDERTAKING.....	7
6.0	SCHEDULE	7
7.0	FUNDING.....	7
8.0	AUTHORIZATION	7

APPENDIX A

GREEN HILL QUARRY SITE MAP

1.0 NAME OF UNDERTAKING

Project Name: Green Hill Quarry Reclamation/Rehabilitation,
Soil Production Facility

2.0 PROPONENT

2.1 CORPORATE BODY

Name of Corporate Body: J&E Enterprises Limited

Address: 67 Main Street
St. Bride's, NL
A0B 2Z0

Chief Executive Officer: Eugene J. Manning
President

67 Main Street
St. Bride's, NL
A0B 2Z0

709 337 2430 w

2.2 PRINCIPAL CONTACT

Principal Contact: Eugene G. Manning
Operations Manager

67 Main Street
St. Bride's, NL
A0B 2Z0

709 337 2430 w

709 690 5523 c

3.0 THE UNDERTAKING

3.1 PURPOSE

The purpose of the undertaking is to provide local and positive use for kelp continually harvested, including that presently stockpiled, at the Small Craft Harbours Facility, St. Bride's, Newfoundland and Labrador, while offering complementary business opportunities for the proponent.

The undertaking noted herein offers to use the kelp for reclamation and possible complementary soil production at an existing quarry location that requires significant reclamation and rehabilitation as a result of prolonged use and construction activity.

3.2 THE KELP

The Department of Fisheries and Oceans, Small Craft Harbours facility at St. Bride's, Newfoundland and Labrador, has a long-standing issue with accumulating kelp and seaweed that causes impediments to vessel traffic and harbour facilities. This work results in a near annual requirement to harvest and remove the kelp from the harbour facilities. Traditionally this kelp has been used locally as fertilizer for subsistent agricultural purposes, lawn care, and small commercial farming. There presently exists at the harbor facility a stockpile of approximately 7000m³ of dried kelp. This stockpile causes significant congestion along the harbour apron and has limited available laydown area. This has extended into impeded industrial traffic and reduced sightlines which have been noted by harbour users as an on-going safety concern.

In addition, the kelp, at various stages of decomposition and in such quantity, causes a significantly unpleasant olfactory experience for those visiting the facility and community residents at large.

3.3 GREEN HILL QUARRY

The Green Hill Quarry site is located approximately 7km West of St. Bride's along Route 100. The site has been in operation intermittently since the 1960s. Stripping, gravel, and rock excavations have taken place throughout the site over this time.

The proponent, J&E Enterprises Limited, currently operates a quarry in a portion of the site:

Quarry Permit ID 135208
File No. 7114416

The approximately 350 metre access road to the present quarry leads through various abandoned borrow pit and quarry operations, the lack of proper decommissioning of which has left the site aesthetically wanting, in terms of current and future operations and development, as well as to the travelling public along Route 100.

3.4 SOIL/FERTILIZER PRODUCTION

Previous users have not completed stockpiling of topsoil and grubbing materials to complete proper decommissioning for a large portion of the quarry site. The given undertaking would allow for the kelp stockpile to be moved to site, and used along with existing materials to promote reclamation and vegetation growth in abandoned areas to beautify the area and work towards possible future development or growth.

Any additional stockpile would be marketed and sold as fertilizer to the local agricultural and private market, with possibility of expansion should the source material be available and market warrant such investment.

This has the potential to provide a secondary revenue stream to the proponent using existing infrastructure and equipment at the site, with possible expansion into other reclamation and/or agricultural projects in the region, should the opportunity present itself.

4.0 DESCRIPTION OF THE UNDERTAKING

4.1 GEOGRAPHIC LOCATION

The Green Hill Quarry is located on the South Side of Route 100, approximately 7 kilometres West of St. Bride's. An access road presently exists and proceeds 350m to the existing quarry site. Abandoned quarry and borrow pits extend from intersection with the road to 300m past the current quarry site.



Figure 1: Geographic Location of Undertaking, Green Hill Quarry

A topographic map at 1:12,500 scale of the site is included in Appendix A.

4.2 PHYSICAL FEATURES

The physical features of the site as they presently exist are that of an abandoned quarry. Various rock/gravel piles, borrow pits resulting in standing water, and other obstructions litter the access road and areas directly surrounding the present quarry.

Once undertaken, the project will consist of a stockpile of sand/kelp, in a general laydown area adjacent to the existing quarry measuring 100m x 100m.

As reclamation work progresses the material will be moved and placed on reshaped/graded areas along the approach road and in the direct vicinity of the quarry to promote vegetation growth.

General stockpile will remain as long as quarry operations are ongoing and source material available. If/when permanent cessation of quarry activities occurs, the remaining stockpile would be used for final reclamation/restoration of site.

Beyond the direct vicinity of the general quarry site, the physical features of the area are barren land, marked by mosses and lichen and stunted tree growth. A stream flows 400m to the West of site.

The proponent expects no negative effects on local flora and/or fauna as proposed; rather, the project is expected to eventually result in increased growth and reclaimed habitat for local wildlife and plant life.

4.3 CONSTRUCTION

The total construction period for initial trucking and stockpiling operations would be 3 to 4 weeks. Stockpiling would occur parallel with this work.

This work would be expected to commence in December 2017 or early 2018, dependent on co-ordination and scheduling with Fisheries and Oceans Canada.

Possible sources of pollutants during the construction period include all of those normally encountered with heavy equipment operations. Airborne emissions, possibility of hydraulic leaks and other mechanical issues are present.

Given the construction and operations will all take part in coordination with quarry activities, risk of pollutants shall be no more than already exist under current operations. As well, current Health, Safety, and Environmental protocols and infrastructure such as health stations, emergency spill kits, fueling stations/techniques, etc. shall all be in place throughout the construction phase of the undertaking.

4.4 OPERATION

Operation of the undertaking after initial construction shall run supplementary and in conjunction with ongoing quarry activities. In times of off-peak production, quarry equipment shall be utilized to grade and restore existing abandoned areas with attention focused on aesthetics, drainage, and dust control.

Restoration/reclamation would be intermittent throughout the construction season and would total a period of 20 to 30 days of activity, depending on material supply and restoration requirements.

Soil production and aeration/mixing of kelp would likewise occur during off-peak periods and be ongoing and completed in conjunction with quarry activities.

Possible sources of pollutants during the operation period include all of those normally encountered with heavy equipment operations. Airborne emissions, possibility of hydraulic leaks and other mechanical issues are present.

Given the construction and operations will all take part in coordination with quarry activities, risk of pollutants shall be no more than already exist under current operations, and all existing company procedures and health, safety, and environmental requirements shall apply.

Part of the rationale for restoration efforts are to decrease blowing debris and dust during quarry activities, and as a result operations should reduce particulate pollution in this regard.

The proponent does not foresee resource conflict during operations. Operations would complement existing quarry operations, and see minimal increase in vehicular traffic. As no residence nor operating commercial enterprise lies within 3km of site, there are no foreseeable conflicts with other private or corporate citizens.

4.5 OCCUPATIONS

As per the 2016 National Occupation Classifications, expected employment requirements are as follows:

<u>OCCUPATION</u>	<u>CONSTRUCTION</u>		<u>OPERATIONS</u>	
	<u># OF EMPLOYEES</u>	<u>DURATION</u>	<u># OF EMPLOYEES</u>	<u>DURATION</u>
<i>7511 Dump Truck Driver</i>	2	3 Weeks	-	-
<i>7521 Heavy Equipment Operator</i>	1	3 Weeks	2	4 Weeks/Yr

J&E Enterprises Limited is an equal opportunity employer and values diversity in the workplace. Any and all position openings shall be filled with this consideration.

5.0 APPROVAL OF THE UNDERTAKING

The work of reclamation and rehabilitation would have formed part of any and all quarry permitting granted prior to the present tenant at the site, and therefore no additional approvals or permits are expected to be required.

Approval will be required from Fisheries and Oceans Canada, Small Craft Harbours, for the removal of the kelp stockpile at the St. Bride's facility. The quantity removed shall be set by initial reclamation activities.

Receipt of the entire stockpile by the proponent would be dependent on approval/contractual agreement between Small Craft Harbours, the proponent, and trucking contractor. This agreement would be reviewed annually as source material warrants.

6.0 SCHEDULE

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18
Construction													
Operations													

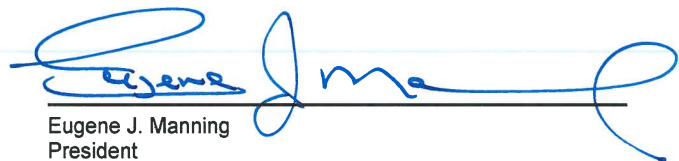
7.0 FUNDING

This work is not dependent on any external funding.

Capital costs are estimated at \$30,000.00 for creation of the initial stockpile at site.

8.0 AUTHORIZATION

Nov 13/2017
 Date

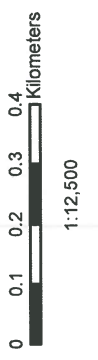
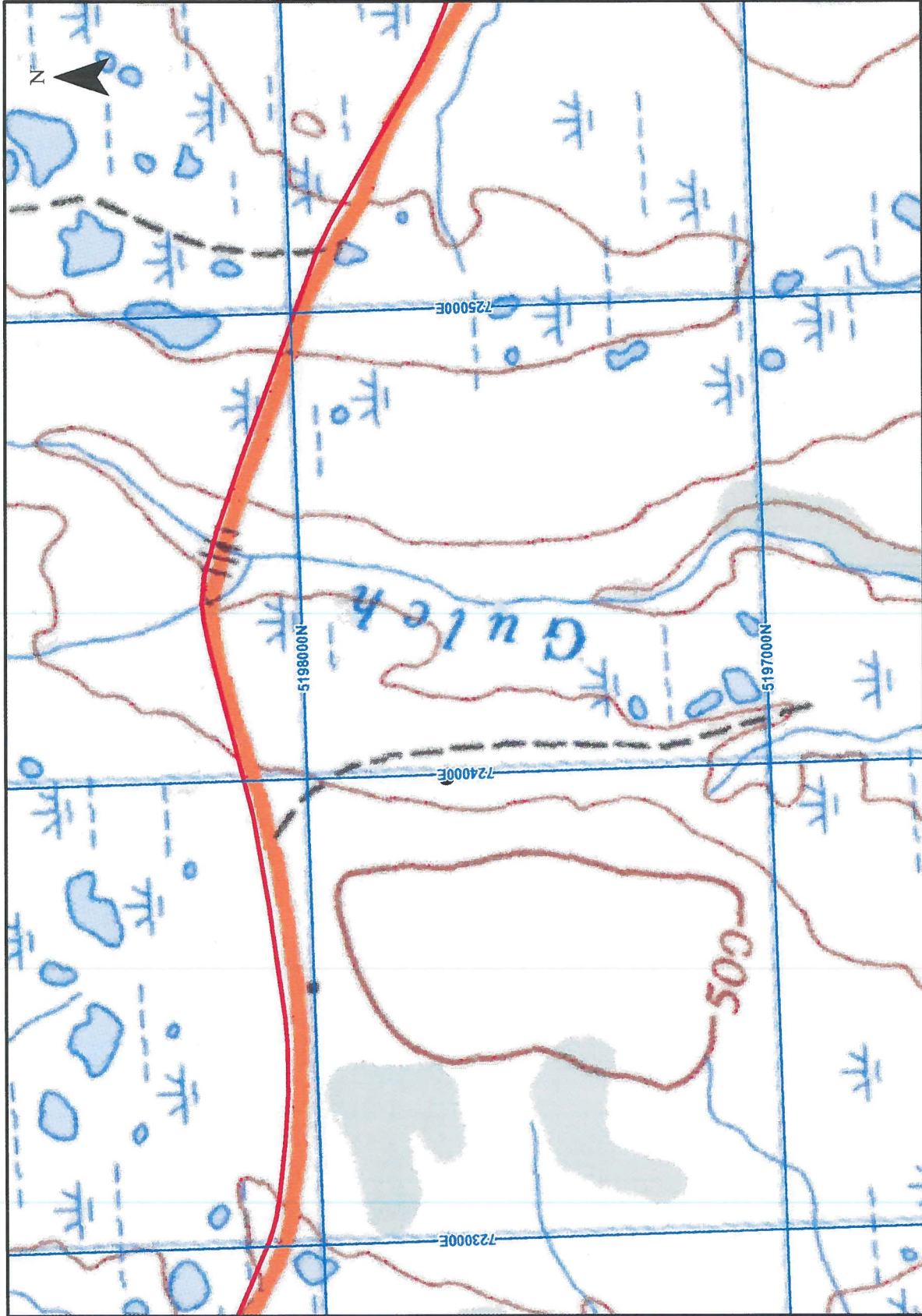

 Eugene J. Manning
 President

APPENDIX A

Green Hill Quarry Site

1:12,500 Map

Green Hill Quarry Site



Map Projection: Transverse Mercator
Central Meridian: 59.5° West
Scale Factor: 0.998
Datum: NAD 27

Date: 10/17/2017
Time: 6:22:02 PM