

Environmental Assessment
Registration Document
Badger Quarry, Badger, NL

Prepared for:

KDJ Enterprises Ltd.

File No. 200-20-2400

Permit No. 71110884

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1.0 NAME OF UNDERTAKING

Badger Quarry, Badger, NL. (Government of Newfoundland and Labrador, Dept. of Natural Resources File No. 200-20-2400)

2.0 PROPONENT

2.1 Name of Corporate Body

KDJ Enterprises Ltd.

2.2 Address

79 Whitmore Street
Grand Falls-Windsor, NL
A2B 1B9

2.3 Chief Executive Officer

Mr. David Davis
Owner
79 Whitmore Street
Grand Falls-Windsor, NL
A2B 1B9

2.4 Principle Contact Person

Mr. David Davis
Owner
79 Whitmore Street
Grand Falls-Windsor, NL
A2B 1B9

3.0 THE UNDERTAKING

3.1 Nature of the Undertaking

This proposed project involves the development of a 10 hectare gravel, sand and rock pit located adjacent to the existing Hunt's Concrete Supplies and Exploits Valley Paving pits (gravel, sand and rock) for use as asphalt, Class A and Class B, aggregate projects in Central NL.

3.2 Purpose/Need for the Undertaking

The purpose of this project is to remove gravel, sand and rock for future use as asphalt aggregates and Class A and Class B road gravel and stone products for construction projects.

4.0 DESCRIPTION OF THE UNDERTAKING

4.1 Geographic Location

The proposed project is located approximately 2.0km SE of Badger, NL. The quarry location can be seen on Schedule A and B attached.

4.2 Physical Features

4.2.1 Project Site Description

The gravel, sand and rock pit will be the primary feature associated with this pit. There will not be any work camps or associated buildings on this site. This site will be accessed by the road presently vacated but formerly used to access timber/transmission line.

4.2.2 The Present Environment

The proposed 10 hectare quarry is located in an existing quarry area in central NL. The site is dominated by young Aspen and White Birch trees. Moss and Kalmia are present in low-lying depressions within the boundary of the proposed quarry. Previously constructed forest-access roads have now become surface conduits for water within the proposed area. Topsoil and decaying organic matter is negligible in this area.

Wildlife often found in these areas include black bears, moose, snowshoe hares , red foxes and coyotes.

Streams within this area are home to brook trout and stickleback fish.

4.3 COSTRUCTION

The construction phase of this site development will primarily consist of :

- Clearing and Grubbing
- Pit development and associated control measures

4.3.1 Site Access

Site access will be via the adjacent quarry pit road operated by Penny Paving Ltd and Hunt's Concrete Supplies. There will be no new access- road construction needed as a former access road exists but has overgrown with alders. Clearing of this road will suffice for access.

4.3.2 Clearing and Grubbing

All timber of size suitable for salvage will be removed and utilized. Grubbed overburden material will be separated and stockpiled for future site remediation.

4.3.3 Pit Development

This new pit has an area of approximately 10 hectares. The proponents plan on first opening the North East corner of the pit and work Westward to eventually open the full pit property. As mentioned, overburden material suitable for later use will be separated and stockpiled until needed for use in pit closing and site remediation.

4.4 Potential Sources of Pollution during Construction

The construction phase of this development will involve overburden clearing via use of heavy equipment. This activity has inherent potential for pollution. Potential sources of pollution include noise, waste, air emissions and hydrocarbon release from heavy equipment.

4.4.1 Air/Noise Pollution

There exists the potential for an increase in dust creation and noise emission during the pit development. As with the existing pit, both potential pollution events are kept minimal with the proper use of mitigating measures such as:

- Machinery will be properly muffled
- Machinery will comply with all provincial and municipal noise bylaws
- Machinery will have appropriate emission control mechanisms
- Machinery will only travel on approved roads within the pit boundary
- Construction will be done during daylight hours to limit impact upon any nearby wildlife and residents of Red Cliff.
- Water applications will be used, if required, to limit dust .

4.4.2 Domestic Wastes

There exists the potential to create domestic waste during the construction of this pit. The potential impact upon the immediate environment will be kept to a minimum via adhering to the Newfoundland and Labrador Waste Management Regulations.

4.4.3 Hydrocarbon Release

Pit activities could possibly result in the accidental spilling of hydrocarbons such as diesel fuel, engine oil, and hydraulic fluid. To reduce the likelihood and subsequent impact if a spill did occur, the following mitigation measures will be in effect.

- Emergency spill kits will be onsite at all times
- No hazardous or petroleum products will be store onsite.
- Servicing of machinery will be done offsite and at appropriate locations
- All employees will receive spill response training prior to operations

4.5 Operation

This pit operation will utilize standard excavation methods to collect the materials needed by KDJ Enterprises Ltd. Operations within the pit will include the excavation and loading of granular materials, crushing and screening of aggregates as well as the transportation of these materials. These materials will be used to supply asphalt during the construction season. Materials such as overburden and over-sized rock will be stockpiled for later use.

Typical equipment found in gravel, sand and rock quarry include:

- Dump trucks
- Front-end loaders
- Excavators
- Dozers
- Crusher/screening plant

A quarry of this nature will in operation from May/June until September/October.

4.6 Potential Sources of Pollution during Operation

The potential sources of pollution during operating activities are similar to those during the construction phase. They include air, noise, domestic waste and hydrocarbon release.

4.6.1 Air/Noise Pollution

There exists the potential for an increase in dust creation and noise emission during the pit development. As with the existing pit, both potential pollution events are kept minimal with the proper use of mitigating measures such as:

- Machinery will be properly muffled
- Machinery will comply with all provincial and municipal noise bylaws
- Machinery will have appropriate emission control mechanisms
- Machinery will only travel on approved roads within the pit boundary
- Construction will be done during daylight hours to limit impact upon any nearby wildlife and residents of Red Cliff.
- Water applications will be used, if required, to limit dust.

4.6.2 Domestic Wastes

There exists the potential to create domestic waste during the construction of this pit. The potential impact upon the immediate environment will be kept to a minimum via adhering to the Newfoundland and Labrador Waste Management Regulations.

Sewage facilities will comprise either a portable toilet or composting toilet.

4.6.3 Hydrocarbon Release

Pit operations could possibly result in the accidental spilling of hydrocarbons such as diesel fuel, engine oil, and hydraulic fluid. To reduce the likelihood, and subsequent impact if a spill did occur, the following mitigation measures will be in effect.

- Emergency spill kits will be onsite at all times
- No hazardous or petroleum products will be stored onsite
- Servicing of machinery will be done offsite and at appropriate locations
- All employees will receive spill response training prior to operations

4.7 Potential Resource Conflicts during Operation

The proposed quarry site is adjacent to existing pit areas southeast of the community of Badger, NL. As such, the proponents will have to maintain satisfactory noise mitigation techniques during operating hours. Other environmental protection measures will include:

- No storing of fuel on site
- No sewage disposal system on site
- Waste materials will be removed daily
- Erosion prevention will be enabled by only clearing the land as needed/the pit is expanded.
- Spill kits will be present and maintained by staff
- Spill response training will be provided for staff working on site

4.8 Occupations

Site construction and operation will involve the following occupations as classified by the National Occupations Code (NOC) 2011.

4.8.1 Construction

Three heavy equipment operators(NOC 7521) for a period of 5 weeks.

4.8.2 Operation

The operation of the quarry will be carried out by three heavy equipment operations (NOC 7521) for a period of 8 weeks.

4.9 Project –Related Documents

There are no project-related documents associated with this registration.

5.0 Approval of the Undertaking

The following permits will/may be required in order for this project to proceed.

Quarry Materials Act and Quarry Minerals Regulations: Quarry Permit/Lease. Provincial government

6.0 Schedule

Document submission/registration	May 2016
Pit Construction/Operation	ASAP

7.0 Funding

Funding for this project will be provided solely by KDJ Enterprises Ltd.

8.0 Submission



David Davis

Owner

KDJ Enterprises Ltd.

May 4th, 2016

SCHEDULE "A"

All that piece or parcel of land situate and being at Badger Chute, in the Provincial Electoral District of Grand Falls-Windsor-Green Bay South, Newfoundland & Labrador, abutted and bounded as follows, that is to say:

Beginning at a point, the said point having NAD 27 coordinates of north 5,421,856.720 meters and east 574,128.894 meters:

Thence running along Crown Land, north thirty-nine degrees six minutes twenty-three seconds east (N 39° 06' 23" E) five hundred decimal seven eight five (500.785) metres to a survey marker;

Thence running along Crown Land, south fifty-six degrees fourteen minutes one second east (S 56° 14' 01" E) one hundred ninety seven decimal three three five (197.335) metres to a survey marker;

Thence running along a Road Reservation twenty (20) metres wide, south thirty-nine degrees six minutes twenty-three seconds west (S 39° 06' 23" W) five hundred seventeen decimal one five zero (517.150) metres to a survey marker;

Thence running along Crown Land, north fifty-one degrees twenty-eight minutes thirty-seven seconds west (N 51° 28' 37" W) one hundred ninety six decimal four eight nine (196.489) metres more or less to point of beginning and containing in all an area of ten decimal zero zero zero (10.000) Hectares.

All bearings are referred to Grid North (UTM Zone 21 – NAD27).

Quarry Permit No. : 71110884

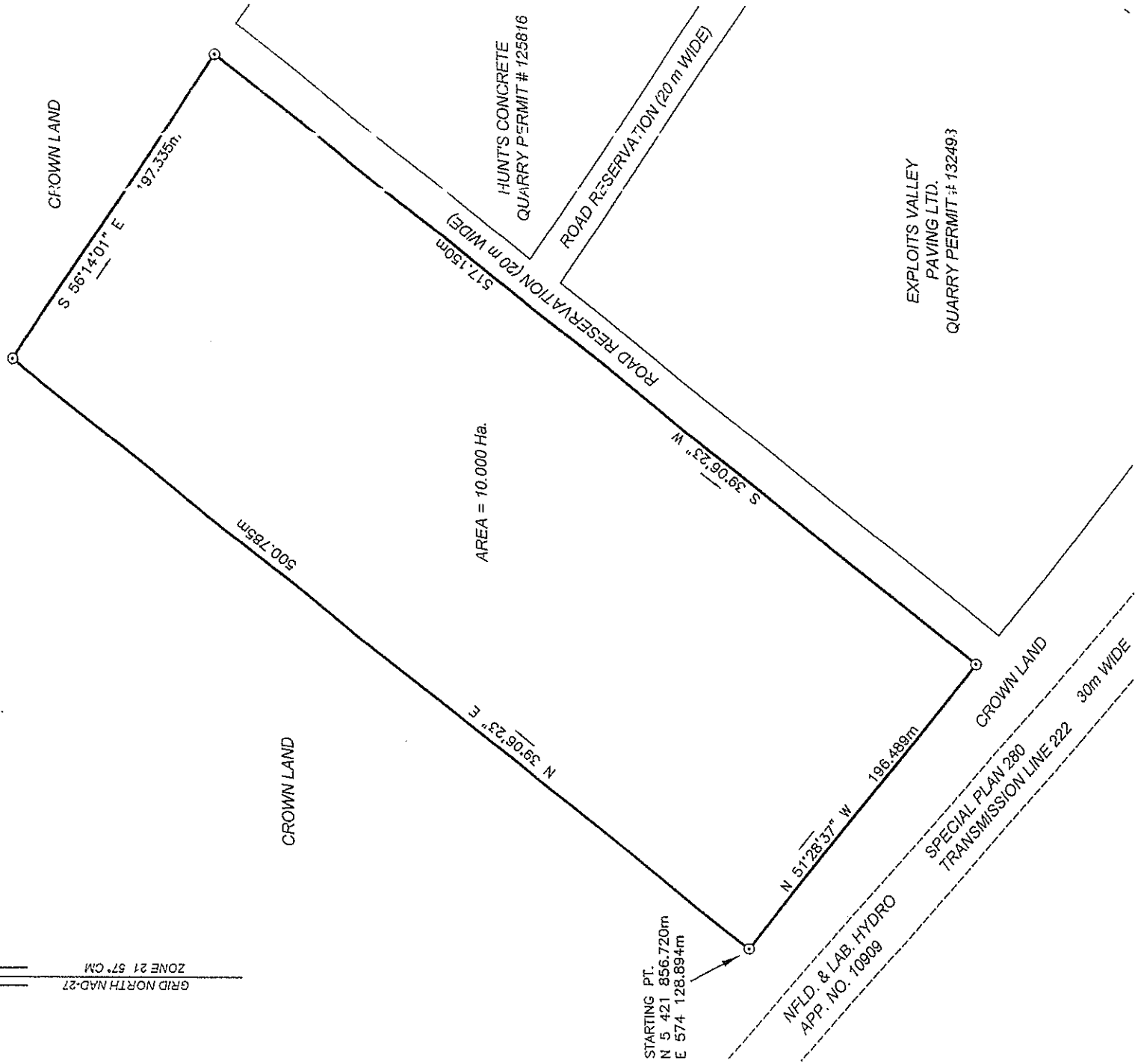
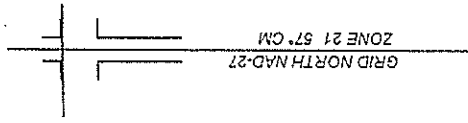
Job No. 16-072

Date: April 15, 2016



April 15/16

SCHEDULE "B"



6' UTM COORDINATES

STATION	NORTHING	EASTING
76G2210	5 425 372.799m	569 975.757m
76G5175	5 425 197.275m	570 488.341m
STARTING PT.	5 421 856.720m	574 128.894m

SCALE FACTOR = 0.999653

- NAIL
- IRON PIN
- CAPPED IRON PIN
- Fd FOUND

LINEAR MEASUREMENT HORIZONTAL GROUND DISTANCES
CENTRAL MERIDIAN 57° 00' 00" W



April 15/16

DATE: APRIL 15, 2016
 QUARRY PERMIT NO 71110884
 JOB NO. 16-072
 RED INDIAN SURVEYS LIMITED

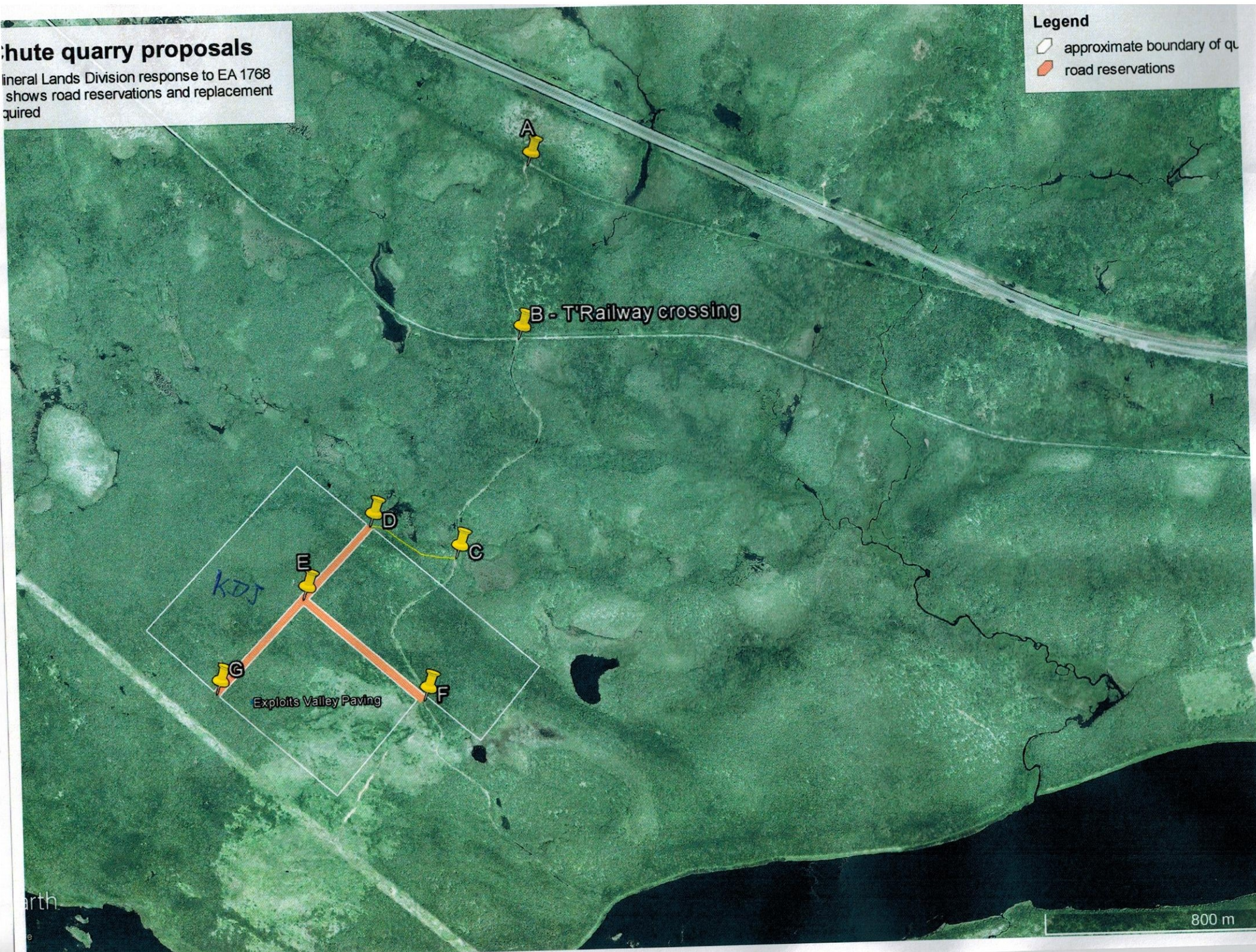
SCALE : 1:3000

Chute quarry proposals

Mineral Lands Division response to EA 1768
shows road reservations and replacement
required

Legend

- approximate boundary of quarry
- ▬ road reservations



arth

800 m



Badger

KDJ Enterprises - Quarry

Image © 2016 DigitalGlobe
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Google earth

4999 ft