

31C12NW2002 2.22242 METHUEN

010

**TRIGAN RESOURCES INC.**  
**ASSESSMENT REPORT**  
**TITANIUM/AGGREGATE PROPERTY**  
**METHUEN TOWNSHIP, SOUTHERN ONTARIO DISTRICT**

**2.22242**

**September, 2001**

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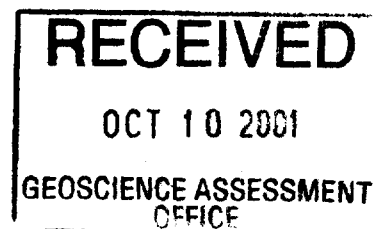
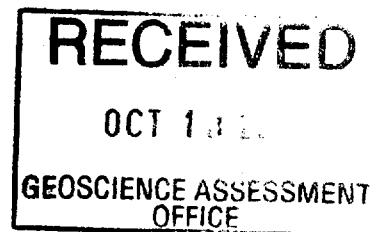
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*For E  
S/R*



## **SUMMARY**

During the period May 21 to August 21, 2000 Trigan Resources carried out preliminary work to obtain bulk samples of bedrock aggregate material for testing required to determine if this material is suitable for commercial production. The work consisted of 1) clearing bush for road access and site preparation, 2) road construction into the site, 3) drilling and blasting, 4) crushing, screening and stockpiling and 5) technical services.

A total of 19,467 tonnes of rock was processed into three products, passing through 2", 5/8", and 1/4" screens respectively.

A sample was submitted to the Ontario Ministry of Transport (MTO) for preliminary testing and investigation of new sources of high quality aggregates for asphalt pavements. The results of the tests show that the Trigan aggregate product from the Methuen property satisfies all the criteria required by high quality aggregates for asphalt pavements.

A preliminary estimate of the aggregate resource at this site is in excess of 200 million tonnes to a depth of 45 m. Additional testing of the area is required to fully confirm this estimate.

Approximately 2000 tonnes of the aggregate product will be required for highway strip testing by the MTO.

## **INTRODUCTION**

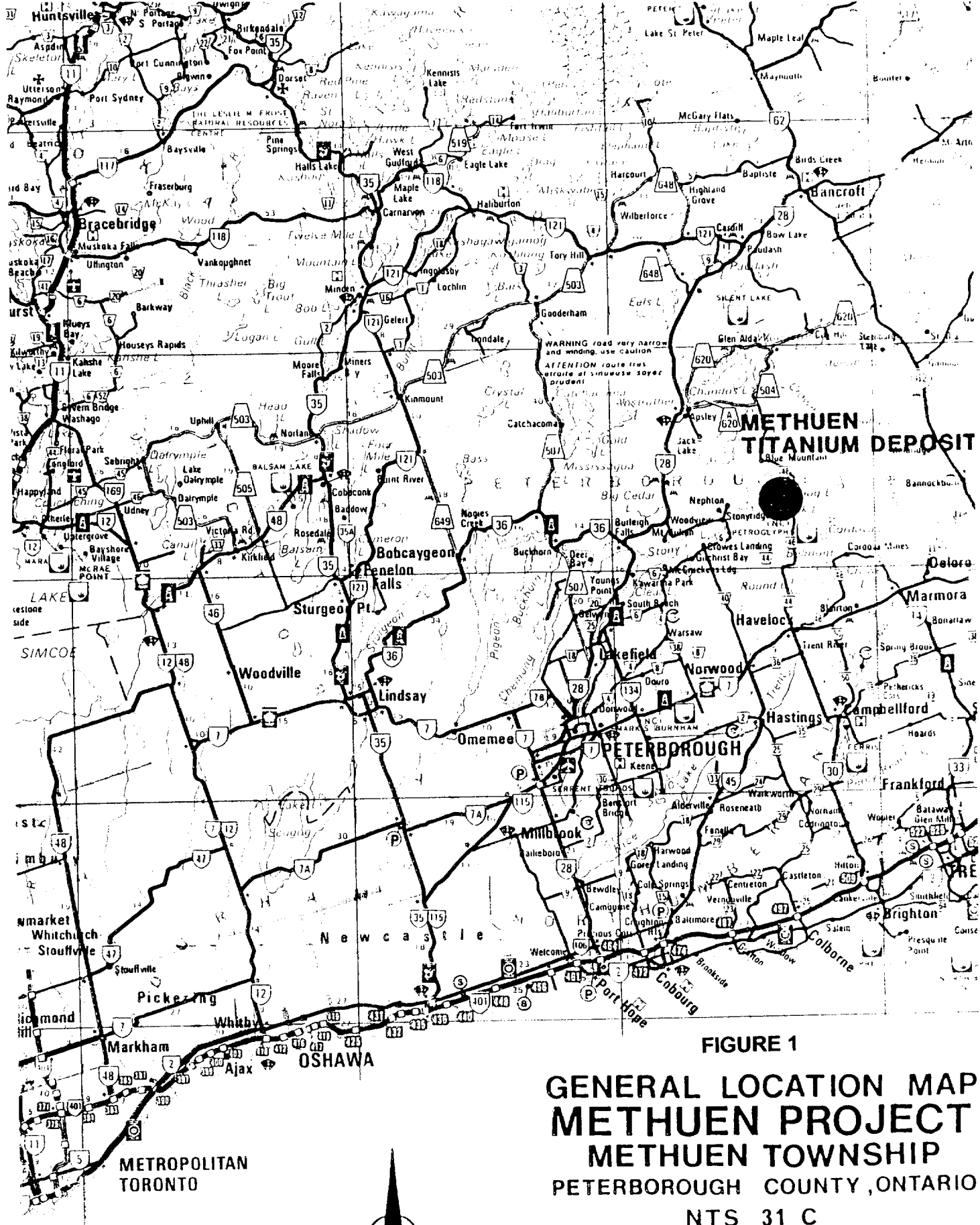
The Trigan Methuen Property was originally acquired and explored because of the presence on the property of semi-massive to massive titanium (ilmenite) mineralization. An open pit resource of 13 million tonnes grading 21.7% TiO<sub>2</sub> has been outlined. Attention turned to the possibility of using the waste rock from an open pit, titanium mining operation as aggregate. A composite sample of the gabbro hosting the ilmenite mineralization was prepared from borehole samples which intersected the surrounding barren gabbro. This sample was submitted for geotechnical testing and the material was found to satisfy all the geotechnical criteria required for high quality aggregate.

During the summer of 2000 activities were undertaken to obtain bulk sampling of the material for further MTO testing and to provide material for the laying down of highway test strip as required by the MTO. Plans are currently underway for the laying down of the test strip. This report documents initial aggregate testing and the fieldwork carried out between May 21<sup>st</sup> and August 21<sup>st</sup> 2000. The work is broken down into 1) Access and site preparation, 2) Access road construction, 3) Drilling and blasting, 4) Crushing and screening and 5) Technical services.

## **PROPERTY**

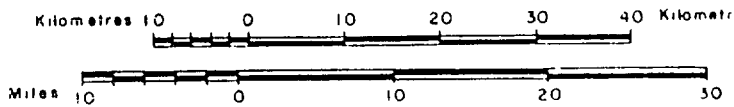
### **Location and Access**

The property is located in the south half of Methuen Township in southern Ontario (Figure 1). Paved Regional Highway 46 crosses the eastern part of the property approximately 20 km north of the town of Havelock situated on Hwy 7. Regional Road 46 passes close to the ilmenite mineralization; the site excavated for aggregate lies approximately 350 m east of the Road 46 close to the area of the ilmenite mineralization.



**FIGURE 1**  
**GENERAL LOCATION MAP**  
**METHUEN PROJECT**  
**METHUEN TOWNSHIP**  
**PETERBOROUGH COUNTY, ONTARIO**  
**NTS 31 C**

Scale 1:800000



The CPR rail line, which services the Unimin's Blue Mountain Nepheline Syenite Mine, passes through the western limits of the property. The aggregate excavation site lies about 8 km due southwest of the termination of the CPR line at the Blue mountain Mine.

### Property Status

The property is registered in the name of Trigan Resources Inc. 445 Beacon Hall Drive, Aurora, Ontario, L4G 3G8. The property consists of contiguous Leased Claims and Staked Claims (Figure 2 and Table 1). The leased claims cover Lots 7, 8 and 9 Conc. IV, and lots 7, 8, 9 and 10 Conc. III except the southwest part of Lot 9 Conc. III. The Mining Leases were granted on June 18, 1986.

Additional claims were staked contiguous with the Mining Leases starting with Claim 1195074, recorded in December 1994. Claims adjoining to the west were staked more recently with recording dates ranging from December 9, 1999 to April 5, 2000. All the claims are currently in good standing.

**Table 1**  
**Trigan Resources Inc. Contiguous Mining Properties in Methuen Twp. South**

Mining Leases (27)		Mining Claims (15)
39064	219758	1195074
39065	219759	1237260
41296	219760	1240115
41916	219761	1240118
41328	220785	1240120
41329	220786	1240130
41330	220787	1240138
41331	220788	1240141
41332	231489	1240142
41333	231490	1240148
41475	231491	1240150
41476		1240151
41477		1240154
41478		1240155
41479		1240164
41480		

The work in the summer of 2000 was carried out mainly on Mining Lease 41332 with road access crossing Leases 39064 and 39065. It is intended to apply allowable assessment credits to certain mining claims within the contiguous property which are coming up for renewal.

### GEOLOGY

Methuen Township is underlain by northeast-trending Late Precambrian, Grenville metasedimentary rocks intruded by younger granitic gneisses, granites syenites and gabbros. The metasedimentary rocks have been subjected to multiphase deformation and regional metamorphism. Contact metamorphism is evident especially around some of the gabbroic intrusives. Undeformed Ordovician limestone and dolomitic limestone occurs as outliers east of Oak Lake in the southeastern part of the Township.

Two ovoid-shaped basic to intermediate intrusions semi-conformably intrude the Grenville metasediments in the area of the property (Figure 2). These two intrusions, referred to as the East Gabbro and the West Gabbro, vary in composition through gabbroic anorthosite to gabbro to monzonite. The gabbroic anorthosite and gabbro portions of the intrusions are the focus for the establishment of an aggregate resource. The gabbroic anorthosite hosts a pipe-like occurrence of semi-massive to massive ilmenite mineralization in the easternmost part of the Eastern Gabbro.

## **WORK CARRIED OUT**

### **Introduction**

In October 1999 interest was focussed on the possibility of the gabbroic host rock to the ilmenite mineral zone being used as a source of aggregate. Preliminary aggregate testing of material from boreholes indicated that the anorthositic/gabbro gabbro had the necessary properties required for a high quality aggregate. With the satisfactory results from the aggregate testing, the next step was to prepare a bulk sample for further MTO testing. A site was selected for the quarrying of a bulk sample. Clearing of the site and access to the site was followed by road construction into the site, drilling and blasting, crushing and screening and the production of three graded products.

A summary of work and expenditures is shown in Table 2. Detailed documentation and costs of the aggregate testing and the work carried out to obtain a bulk sample, are filed in the Appendix.

The names and address of contractors carrying out the work are as follows:

#### **Aggregate Testing:**

John Emery Geotechnical Engineering Ltd., 109 Woodbine Downs Blvd., Toronto, Ont., M9W 6Y1  
MOT Soils and Aggregates Section, Building C, 1201 Wilson Ave., Downsview, Ont., M3M 1J8.

#### **On Site Work:**

MacBro Drilling and Blasting, R.R.1, Box 69 Denbigh, Ontario, K0H 1L0.  
Robert Young Construction Ltd., 1488 Chemong Road, Peterborough, Ontario, K9J 6X2.

The work was supervised by Mr. J. Regan of 445 Beacon Hall Drive, Aurora, Ontario, L4G 3G8. Don Phipps of 98 Kingsmount Blvd., Sudbury, Ontario, P3E 1K6, wrote this report and oversees geological aspects of the project.

### **Preliminary Aggregate Testing**

In October 1999, a composite sample from boreholes intersecting barren gabbro outside of the ilmenite mineralized zone, was assembled and submitted to John Emery Geotechnical Engineering Ltd. for a series of standard tests to determine the suitability of the gabbro as an aggregate source with the results as shown below:

Micro-Deval Abrasion, % loss	7.9
Bulk Relative Density	3.066
Absorption, %	0.12
Petrographic Analysis	101
Unconfined Freeze-Thaw, % loss	6.0

With favourable results of this testing, the sample was sent to the MOT for a Polished Stone Value (PSV) test in December 1999. A PSV value of 51 obtained from the sample meets the MOT requirements (PSV>50) for HL1 material.

### **Bulk Sample Site**

With the satisfactory results from the above aggregate testing, the next step was to prepare a bulk sample for further MTO testing. For the quarrying of a bulk sample, a site was selected close to the eastern contact of the gabbro, approximately 150 m east of the zone of ilmenite mineralization (Figure 3). Work on the site started on May 15, 2000 and finished August 21, 2000. Documentation of all the work carried out and the costs of this work are appended. Contractors used in the work consisted of :

MacBro Drilling and Blasting Ltd.	Site clearing, road construction, drilling and blasting.
Robert Young Construction Ltd.	Crushing, screening and stacking.

Starting May 15, 400 m of access into the site and the site area (sufficient to allow quarrying of the bulk sample, set up crushing and screening plant, and area for product storage), was cleared. This was followed by drilling and blasting of bedrock. A crushing, screening and stacking plant was brought into the site. Crushing equipment consisted of primary and secondary jaw crushers and a tertiary rolls crusher. Crushed material was passed over three screen sizes, 2", 5/8" and 1/4". A total of 19,467 tonnes were processed.

The Ontario Ministry of Transportation, Soils and Aggregates Section, took a sample of HL1 coarse aggregate (HL1 CA) from the stockpile for further testing of "production material". With the positive results of this testing the MTO conditionally approved the site as a source of HL1 coarse aggregate, and placed the site on the Designated Source for Materials list (DSM #3.05.25).

Table 2 gives a summary of the costs incurred for the above work. Details and invoices for the work are in Appendix I. Documentation of the results of the various aggregate tests are included in Appendix II.

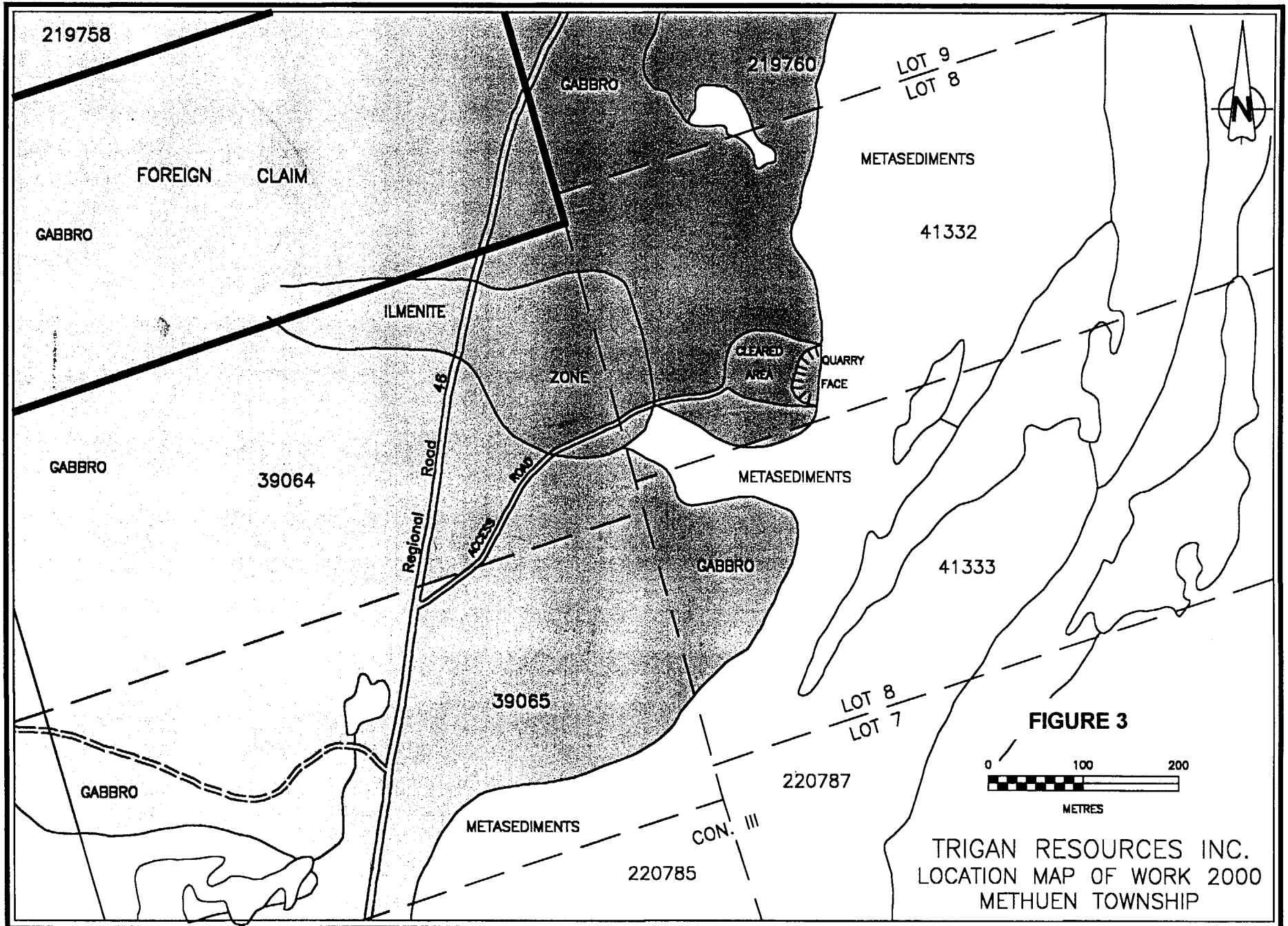
### **FUTURE WORK**

In order for the material from the site to be listed for DFC (Dense Friction Course) coarse and fine aggregate approval, a test section trial must be carried out. This requires the laying down of a 500 m length, full width section of highway (driving and passing lane) in a typical DFC location (100 km/hr speed limit; near horizontal and straight section; typical truck percentage of AADT).

### **STATEMENT OF QUALIFICATIONS**

The writer of this report, Don Phipps, acts as the Geological Consultant to Trigan Resources Inc. He is a member of the Association of Geoscientists of Ontario and a prospective member of the Association of Professional Geoscientists of Ontario. The professional qualifications of the writer include the following.

- Graduate of the Camborne School of Mines with Mining Diploma
- Graduate of McGill University, B.Sc.Honours Geology
- Graduate of the Massachusetts Institute of Technology, M.Sc. in Oceanography
- Over 30 years as a practicing professional geologist, mainly in the field of mineral exploration.



**FIGURE 3**  
0 100 200  
METRES  
TRIGAN RESOURCES INC.  
LOCATION MAP OF WORK 2000  
METHUEN TOWNSHIP



<b>TABLE 2</b>					
<b>TRIGAN RESOURCES INC. - EXPENDITURES OCT. 14 1999 TO SEPT. 10 2000</b>					
<b>Site Activities</b>					
<b>Date</b>	<b>Invoice #.</b>	<b>Contractor</b>	<b>Description</b>	<b>Amount</b>	<b>Totals</b>
May 31/2000	1	MacBro Drilling and Blasting	Clearing roadway and site area	17,384.00	
June 30/2000	2	"	Drilling and blasting for roadway and stie preparation	58,588.31	
July 31/2000	3	"	Roadway drilling and blasting, culverts, gates, rock base	20,075.71	
July 31/2000	4	"	Quarry drilling blasting and excavating	19,274.98	
Sept 1/2000	5	"	Gravelling roadway to quarry	2,675.00	
Sept 1/2000	5	"	Rock excavation	5,589.10	
Aug. 31/2000	6	Robert Young Construction Ltd	Crushing, screening and stacking	100,880.67	
Sept 10/2000	7	"	Crushing, screening and stacking	13,682.62	
			Total expenses for site activites		238,150.39
<b>Technical Services</b>					
Oct. 14/1999	8	John Emery Geotech. Eng. Ltd.	Aggregate testing of borehole material	727.60	
June 6/2000	9	Oakridge Environmental Ltd	DGPS survey of site	662.08	
Sept. 7/2000	10	Ministry of Transportation	Testing of high quality aggregate for asphalt pavements	5,350.00	
			Total expenses for Technical services		6739.68
			<b>Grand Total</b>		<b>244890.07</b>

**APPENDIX I**

**INVOICES FOR WORK CARRIED OUT**

# MACBRO DRILLING & BLASTING LTD.

R. R. 1 — Box 69  
Denbigh, Ontario KOH 1L0  
Tel. (613) 333-5578

# INVOICE

11-00

TO Trigan Resources Inc  
445 Beacon Hall Dr.  
Aurora, Ontario L4G 3G8  
c/o J. R. Regan

DATE May 31, 2000

TERMS: 2% INTEREST PER MONTH

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Building roadway to Quarry (May 15-17)		
30.5 hr	Excavator & Dozer	130.00	3965.00
20 hrs	Skidder & men clearing quarry site (May 18,19,23)	65.00	1300.00
	Stripping Quarry (May 18-30)		
71.5 hr	Excavator	80.00	5720.00
36 hr	Dozer	50.00	1800.00
	Placing Culvert & Rock on Roadway (May 31)		
11 hr	Excavator & Dozer	130.00	1430.00
10 hr	Truck	45.00	450.00
	Culverts - invoice attached		1471.69
	Subtotal		16136.69
	G.S.T. #R124816778		1129.57
	P.S.T on culvert invoice		117.74
	PLEASE PAY		17384.00

*Handwritten notes:*  
 (May 31)  
 10.00  
 45.00  
 1471.69  
 1129.57  
 117.74  
 17384.00

Thank You

PAY LAST AMOUNT  
IN THIS COLUMN

#2.

# Macbro Drilling & Blasting Ltd.

Box 69, Denbigh, Ontario KOH 1L0

Gordon (Pete) Malcolm

613 333-5578

## INVOICE

12-00

TO... Trigan Resources Inc.  
445 Beacon Hall Dr.  
Aurora, Ontario L4G 3G8  
c/o Mr J. R. Regan

DATE June 30, 2000

TERMS: 2% INTEREST PER MONTH

QUANTITY	DESCRIPTION	PRICE	AMOUNT	
June 1-30th	Equipment & Drilling & Blasting for roadway and Quarry site preparation & trenching.			
81.5 hrs	Excavator	80.00	6520	00
54 hrs	Dozer	50.00	2700	00
31 hrs	Truck	45.00	1395	00
	Drills & Drill Product drilling		14502	33
	Explosives & Labour Blasting		29004	66
	Preblast Inspection (attached invoice)		633	44

*Paid  
July 18, 2000  
Office # 0005*

<b>SUBTOTAL</b>	54755.43
<b>G.S.T. 7% #124816778</b>	3832.88
<b>P.S.T. 8%</b>	
<b>PLEASE PAY</b>	\$ 58588.31

# THANK YOU

#3

# Macbro Drilling & Blasting Ltd.

Box 69, Denbigh, Ontario KOH ILO  
Gordon (Pete) Malcolm  
613 333-5578

## INVOICE

16-00

TO..... Trigan Resources Inc. .... DATE July 31, 2000 .....  
445 Beacon Hall Dr. ....  
Aurora, Ontario L4G 3G8 .....  
c/o Mr J. R. Regan .....

TERMS: 2% INTEREST PER MONTH

QUANTITY	DESCRIPTION	PRICE	AMOUNT	
	Roadway to Quarry, Culverts, Gates, Rock Base			
75 hrs	Excavator	80.00	6000	00
52 hrs	Dozer	50.00	2600	00
54.5 hrs	Truck	50.00	2725	00
	Roadway Drilling & Blasting Labour, Equipment, Product		6072	50
90 yds	(County Rd. #46) "A" Gravel for culvert	6.50	585	00
	Culvert, Gates & Hardware <del>Plate Packer Invoices attached</del> (G.S.T. IS INCLUDED)		834	33

*Price & quantity subject to change*

<b>SUBTOTAL</b>	<b>18816.83</b>
<b>G.S.T. 7% #124816778</b>	<b>1258.78</b>
<b>P.S.T. 8%</b>	
<b>PLEASE PAY</b>	<b>20075.61</b>

# THANK YOU

#4

# Macbro Drilling & Blasting Ltd.

Box 69, Denbigh, Ontario KOH 1LO  
Gordon (Pete) Malcolm  
613 333-5578

**INVOICE**  
17-00

TO..... Trigan Resources Inc. .... DATE July 31, 2000 .....  
445 Beacon Hall Dr. ....  
Aurora, Ontario, L4G 3G8 .....  
c/o Mr J. R. Regan .....

TERMS: 2% INTEREST PER MONTH

QUANTITY	DESCRIPTION	PRICE	AMOUNT	
	Quarry Drilling, Blasting & Excavating			
30 hrs	Excavator	80.00	2400	00
	Explosives, Detanators & Trucks		8894	00
	Drills, Drill Product, Fuel		4200	00
	Drillers, Blasters & Labour		2520	00

*Paid August 13, 2000  
J. Regan # 006*

<b>SUBTOTAL</b>	18014.00
<b>G.S.T. 7% #124816778</b>	1260.98
<b>P.S.T. 8%</b>	
<b>PLEASE PAY</b>	19274.98

## THANK YOU

*Plus Dm 16.00  
July 31/00  
TOTAL*

*30075 6.1  
39350.10*

#5.

# Macbro Drilling & Blasting Ltd.

Box 69, Denbigh, Ontario KOH ILO  
Gordon (Pete) Malcolm  
613 333-5578

**INVOICE**  
21-00

TO..... Trigan Resources Inc. .... DATE..... September 1, 2000.....  
..... 445 Beacon Hall Dr. ....  
..... Aurora, Ontario L4G 3G8 .....  
..... c/o Mr J. R. Regan .....

TERMS: 2% INTEREST PER MONTH

QUANTITY	DESCRIPTION	PRICE	AMOUNT	
	Havelock Quarry			
	Placing "A" Gravel on roadway to quarry Aug 3-4			
30.5 hrs	Trucks	50.00	1525 00	}
19.5 hrs	Dozer	50.00	975 00	
	Excavating Rock to feed Breaker & feed stock pile areas Aug 3-11			
61 hrs	Excavator	80.00	4880 00	}
5 hrs	Dozer	50.00	250 00	

2,500.  
175  
2,675  
5,350  
350  
3,000

*Pay \$100  
Sept 16/00  
check # 010*

<b>SUBTOTAL</b>	7630.00
<b>G.S.T. 7% #124816778</b>	534.10
<b>P.S.T. 8%</b>	
<b>PLEASE PAY</b>	8164.10

## THANK YOU

INVOICE

ROBERT YOUNG CONSTRUCTION LTD.

SAND • GRAVEL • FILL • STONE • TOPSOIL

GRAVEL CRUSHING • LOADING & TRUCKING

1488 Chemong Road  
Peterborough, Ontario K9J 6X2  
Office 705 / 745-1488  
Residence 705 / 292-8264  
Fax 705 / 745-6305

To Teigan Resources Inc.  
445 Beacon Hill Dr.  
Aurora, Ont. L4G 3G8

Date Aug 31/00

<p>To crush + stockpile with stackers. to make 2" clear. 1 1/2". 1/4" screenings. Aug 8-2100</p>		<p>17142 tonnes</p> <p><i>Aug 3 1481.60</i> <i>4 841 -</i> <i>2325.60</i></p> <p><i>paid Sept. 20/00</i> <i>cheque # 11011</i></p>	<p>5 50 9.5T 70%</p>	<p>94281.00 6599.67</p>	<p>\$ 100880.67</p>
--	--	--	--------------------------	-----------------------------	---------------------

TERMS: Net 30 days - 2% per month service charge on overdue accounts

6268

G.S.T. No. R104572490



# 7

INVOICE

ROBERT YOUNG CONSTRUCTION LTD.

SAND • GRAVEL • FILL • STONE • TOPSOIL

GRAVEL CRUSHING • LOADING & TRUCKING

1488 Chemong Road  
Peterborough, Ontario K9J 6X2  
Office 705 / 745-1488  
Residence 705 / 292-8264  
Fax 705 / 745-6305

To Teigan Resources Inc.  
445 Beacon Hill Dr.  
Aurora Ont. L4G 3G8

Date Sept. 10/00

To crush & stockpile	Aur 3+4/00	3/4" material 2325 tonne  <i>paid Sept 20 2000 cheque #0012</i>	550	951.70	12187.50	895.12
					13682.62	

TERMS: Net 30 days - 2% per month service charge on overdue accounts

G.S.T. No. R104572490

6289

# 8

# JOHN EMERY GEOTECHNICAL ENGINEERING LIMITED

CONSULTING ENGINEERS

#1, 109 Woodbine Downs Boulevard, Toronto, Ontario M8W 6Y1

Telephone: (416) 213-1060 Facsimile: (416) 213-1070 E-Mail: jegel@comnet.ca www.jegel.com

October 14, 1999

JEGEL Project: 199274

Invoice: 1/674

*FAX TO DON PHIPPS  
705 677 6873*

John B. Regan  
445 Beacon Hall Drive  
Aurora, Ontario L4G 3G8

Attention: Mr. John Regan

## INVOICE FOR PROFESSIONAL SERVICES

Laboratory Testing of Core Samples Provided by J.B. Regan.

Engineering and Technical Services to October 14/99:

### LABORATORY TESTING

Sample Crushing	1 @ \$ 20.00	\$ 20.00
Petrographic Analysis	1 @ \$ 225.00	225.00
Bulk Relative Density	1 @ \$ 55.00	55.00
Micro-Deval Abrasion	1 @ \$ 190.00	190.00
Freeze-Thaw	1 @ \$ 190.00	<u>190.00</u>

Engineering and Technical Services	\$ 680.00
GST on Services	<u>47.60</u>

TOTAL THIS INVOICE \$ 727.60

*PH*

(This total includes \$47.60 GST. Our GST Number is 102687118RT.)

- Notes:
1. Net 15 days from receipt of this Invoice, 1½% per month (19.6% per annum) surcharge on overdue accounts.
  2. We appreciate the opportunity to be of service and trust this Invoice is in order.

*Rec'd  
Oct 18 1999  
Cheque # 883*

ISO 9001

Engineering / Research / Development / Education  
Soil / Rock / Aggregates / Slags / Asphalt / Cement / Concrete / Byproducts  
JEGEL • DYNATEST • PAVMATEC

Oakridge Environmental Ltd.

P.O. Box 431  
Peterborough, Ontario  
K9J 6Z3  
705-745-1181, (Fax: 705-745-4163)

# Invoice

DATE	INVOICE NO.
10/6/2000	100562

#9

<b>BILL TO</b>
Trigan Resources Inc c/o Ridgeland Development 35 Lauren Road General Delivery Ashburn, ON L0B 1A0

# COPY

DESCRIPTION	AMOUNT
<p>Fees &amp; expenses re: DGPS survey of Havelock area quarry site</p> <ul style="list-style-type: none"> <li>- obtain latest OBM map (1:10,000 scale)</li> <li>- digitize lot corner locations &amp; other features</li> <li>- site visit, DGPS survey of quarry laneway, etc</li> <li>- prepare sketch map &amp; letter</li> <li>- supplementary land title search for Plan 45R-5802</li> <li>- obtain copies</li> <li>- supplementary meeting</li> <li>- includes out-of-pocket expenses</li> </ul> <p>Total GST Business Number: 13330 1200 RT</p> <p><i>Paid Oct 24, 2000 cheque # 0015</i></p>	<p>618.77</p> <p>43.31</p>
<p><i>+ cheque # 0017 Dec 27/00 for 43.31 to cover GST.</i></p>	
<b>TOTAL</b>	<b>\$662.08</b>

#10

Ministry of  
Transportation

Ministère des  
Transports

OFFICIAL RECEIPT



LOCATION: 91  
DATE: Sept 7/00

RECEIVED FROM:

Trigan Resources Inc  
445 Beacon Hall Drive  
Aurora, Ontario  
L4G 3G8

Attention: MR. J. B. Regan

Unmarked Cheque  Cash  Money order  Certified Cheque

CHEQUE NUMBER: 0007

AMOUNT: \$5,350.00

PARTICULARS

Preliminary Testing & Investigation of New Sources of High Quality Aggregate for  
Asphalt Pavements

RECEIPT: J05295

RECEIVED BY:

*[Handwritten signature]*

FOR MINISTRY USE  
VENDOR CODE:  
COC: 43870  
R.C. 91-4450

*[Handwritten notes: 3500, Cheque # 0007, Aug 28/00]*

**APPENDIX II**  
**DOCUMENTATION OF AGGREGATE TESTING RESULTS**

# JOHN EMERY GEOTECHNICAL ENGINEERING LIMITED

CONSULTING ENGINEERS

#1, 109 Woodbine Downs Boulevard, Toronto, Ontario M9W 6Y1  
Telephone: (416) 213-1060 Facsimile: (416) 213-1070 E-Mail: jegel@comnet.ca www.jegel.com

October 13, 1999  
JEGEL: 199274  
JEGEL ID #: 002602

John B. Regan  
445 Beacon Hall Drive  
Aurora, Ontario L4G 3G8

Dear Mr. Regan:

## Aggregate Testing

As requested, John Emery Geotechnical Engineering Limited, Consulting Engineers (JEGEL), has completed testing of aggregate received as HQ cores (from BH 70432, 70445 and 70447), supplied by John B. Regan.

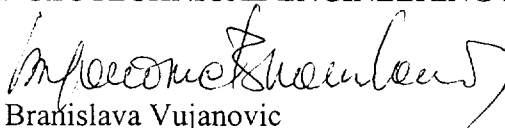
In order to prepare sample for the testing, the HQ cores were crushed and mixed. The testing consisted of:

Bulk Relative Density and Absorption	MTO LS-604
Unconfined Freeze- Thaw	MTO LS-614
Petrographic Examinations	MTO LS-609
Micro-Deval Abrasion	MTO LS-618.

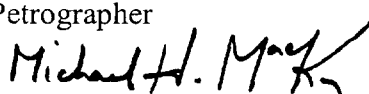
The test results are presented in Tables 1 and 2. The crushed rock consists of gabro, basalt and granite as shown in the attached Table 2. Gabro is dominant throughout the sample and is dark grey in colour, medium grained.

We trust that the results of this testing are satisfactory for your purposes. Please contact us with any questions or if you require any additional information.

Yours very truly,  
JOHN EMERY GEOTECHNICAL ENGINEERING LIMITED



Branislava Vujanovic  
Petrographer



Michael H. MacKay, M.Eng., P.Eng.  
Principal Geotechnical Engineer

ISO 9001

Engineering / Research / Development / Education  
Soil / Rock / Aggregates / Slags / Asphalt / Cement / Concrete / Byproducts  
JEGEL • DYNATEST • PAVMATEC

**TABLE 1  
AGGREGATE PHYSICAL PROPERTIES TEST RESULTS**

TEST		TEST RESULT	SPECIFICATION REQUIREMENTS		
		Crushed Core Sample	OPSS/MTO Maximum Limits HL 1 and DFC		
			Dolomitic Sandstone	Traprock, Diabase, Andesite	Meta-Arcose, Gneiss
Micro-Deval Abrasion, % Loss	Sample	7.9	15	10	15
	Control	16.1	15.8 - LCL 18.6 - UCL		
Bulk Relative Density	Sample	3.066	-	-	-
	Control	2.676	2.655 - LCL 2.685 - UCL		
Absorption, %	Sample	0.12	1.0	1.0	1.0
	Control	0.72	0.60 - LCL 0.83 - UCL		
Hot Mix Surface Treatment and Concrete Petrographic Number		101	145	120	145
Corrected Granular and 16 mm Type B		100	-	-	-
Unconfined Freeze-Thaw, % Loss		6.0	6	6	6

TABLE 2

PIT NAME. John B. Regan		COARSE AGGREGATE PETROGRAPHIC ANALYSIS			JEGEL: 199274	
DATE October 12, 1999		FRACTION 19.0 9.5 mm		ANALYST B.V.		ID #: 2602
TYPE NO.	TYPE	MASS	%	GRANULAR & 16.0 mm TYPE B CORRECTION		
1	CARBONATE (hard; silty, hard)					
20	CARBONATE (surface weathered; silt, surface weathered; medium hard; silty, medium hard)					
2	CARBONATE (sandy, hard or medium hard)					
21	CARBONATE (slightly cherty: <5% chert)					
23	MARBLE (hard or medium hard)					
3	CONGLOMERATE-SANDSTONE-ARKOSE (hard)					
22	CONGLOMERATE-SANDSTONE-ARKOSE (medium hard)					
6	GREYWACKE-ARGILLITE (hard or medium hard)					
4	GNEISS-AMPHIBOLITE-SCHIST (hard)					
5	QUARTZITE					
8	GRANITE-DIORITE-GABBRO-BASALT (hard)	1028.1	97.7			
7	VOLCANIC (hard or medium hard)					
9	TRAP (<20% sulphide)					
10	QUARTZ (vein or pegmatitic)					
71	IRON FORMATION	18.2	1.7			
	TOTAL GOOD AGGREGATE	1046.3	99.4			
35	CARBONATE (soft; silty, soft; slightly shaley)			x 2		
41	CARBONATE (soft, pitted)			x 2		
42	CARBONATE (deeply weathered; silty, deeply weathered)			-		
40	CARBONATE (sandy, soft)			x 2		
24	MARBLE (brittle)			x 2		
26	CHERT-CHERTY CARBONATE (<20% leached chert)			x 2		
30	CONGLOMERATE-SANDSTONE-ARKOSE (brittle)			x 2		
29	GREYWACKE (brittle)			x 2		
52	ENCRUSTATION			x 2		
25	GNEISS-AMPHIBOLITE-SCHIST (brittle)			x 2		
34	ARGILLITE (medium soft)			x 2		
27	GRANITE-DIORITE-GABBRO (brittle)	5.3	0.6	x 2	1.2	
28	VOLCANIC (soft)			x 2		
	TOTAL FAIR AGGREGATE					
43	CARBONATES (shaley; clayey; silty, clayey)					
44	CARBONATE (ochreous; sandy, ochreous)					
49	MARBLE (friable)			x 3		
45	CHERT-CHERTY CARBONATE (<20% leached chert)			x 5		
46	CONGLOMERATE-SANDSTONE-ARKOSE (friable)			x 3		
56	SILTSTONE			x 3		
53	CEMENTATION (partial)			x 3		
54	CEMENTATION (total)					
50	GNEISS-AMPHIBOLITE (friable)			x 3		
55	SCHIST (soft)			x 3		
51	GRANITE-DIORITE-GABBRO (friable)			x 3		
48	VOLCANIC (very soft, porous)			x 3		
	TOTAL POOR AGGREGATE					
60	OCHRE					
61	SHALE					
62	CLAY					
63	VOLCANIC-GNEISS-SCHIST (decomposed)					
	TOTAL DELETERIOUS AGGREGATE					
		TOTALS	1051.6	100.0	1.2	
% GOOD		99.4 x 1 =	99.4			
% FAIR		0.6 x 3 =	1.8			
% POOR		x 6 =				
% DELETERIOUS		x10 =				
HOT MIX, SURFACE, TREATMENT AND CONCRETE P.N.		101.2				
				EST. PERCENT CRUSHED	100.0	
				EST. PERCENT FLATS & ELONGATED	<5	
				CORRECTED GRANULAR AND 16.0 mm TYPE B P.N.	100.0	



January 28, 2000

File No.: 3162-2-0-1

Mr. John Regan  
445 Beacon Hall Drive  
Aurora, Ontario L4G 3G8

Dear Mr. Regan:

**Re: Polished Stone Value Test Results for your Gabbro Sample**

Further to your telephone conversation with Bob Gorman in December, 1999, we have completed the Polished Stone Value (PSV) testing on the diamond drill core samples you provided to our laboratory. We crushed the drill core samples pass 5/8" in our laboratory crusher. The testing was completed in accordance with British Standard BS 812, 1989. The test results are portrayed in Table 1.

Although there are no Ontario Provincial Standard Specifications for the PSV and Aggregate Abrasion Value (AAV) tests, we require values greater than 50 for the PSV test and less than 6.0 for the AAV test.

When we perform the PSV test, we measure the ability of your aggregate to retain or develop microtexture. Microtexture is the fine scale (less than 0.5 mm) texture possessed by the individual aggregate particles. The higher the PSV obtained, the better the frictional properties of the aggregate. I note from Table 1 that your PSV result was 51.

If you require further information, please do not hesitate to contact our office.

Yours Truly,



Chris A. Rogers, Manager,  
Soils and Aggregates Section.

pc: B. Gorman  
B. Grant  
D. Phipps ✓  
D. Williams  
N. Zohorsky

**Table 1**  
**Polished Stone Value Test Result**  
**John Regan Property**  
~~Belmont~~ **Township, Near Oak Lake**  
*Melhuon*

Lab. Sample No.	Sample Type	Polished Stone Value (PSV)	English Basalt Control Sample Range		British Standard Control Material Value
			Minimum	Maximum	
99-B-9058	diamond drill core	51	49.5	55.5	52

September 8, 2000

File No.: 3162-2-0-1

John B. Regan, President  
Trigan Resources Inc.  
445 Beacon Hall Drive  
Aurora, Ontario L4G 3G8

Dear Mr. Regan:

**Re: Approval of Meta-Gabbro for HL1 Asphalt Pavement  
from Your Quarry Located in Lots 6 to 10, Conc. 3,  
Methuen Township, Peterborough County**

We are pleased to advise you that your HL1 coarse aggregate produced from the meta-gabbro in your Methuen Township Quarry is now conditionally approved as a source of HL1 coarse aggregate. While approval is effective on the date of this letter, it will take a few weeks to place your quarry on the Designated Sources for Materials list (DSM #3.05.25). Approval is based on acceptable test results (Table 1) and petrographic and physical quality comparison with other meta-gabbro bedrock that is similar to yours and has been performing satisfactorily in existing HL1 pavements elsewhere in Ontario.

From Table 1, I note that both your Gradation and Loss by Washing test results for Lab. Sample No. OO-B-9035 are out of specification. I expect that you will take steps to deal with these production problems before you intend to supply.

As you know, we are familiar with the bedrock in your quarry. Thin section slides produced from the rock reveal significant feldspar. Since some feldspars are susceptible to asphalt stripping, we will require that, each time before the aggregate is used on ministry contracts, test method LS-283, "Resistance to Stripping of Asphalt Cement in Bituminous Mixture by Immersion Marshall", be carried out to establish whether an anti-stripping additive is required for the mix. If it is required, the cost of supply and application will not be our responsibility. The cost of such testing will also not be our responsibility.

In order for your material to be listed for DFC coarse and fine aggregate approval on the ministry's DSM list (#3.05.25), a test section trial will have to be secured. You will be responsible for all of the arrangements for the DFC trial. The trial must be on ministry work and in the context in which the material is offered for use, e.g. a DFC candidate must be tested in a typical DFC location which has a 100 km/hr speed limit, at or near horizontal, straight section of highway, in the driving lane, with typical truck percentage of AADT. For DFC mixes, the coarse and fine aggregate used in the trial must come from your source. The trial section must be at least 500 m in length across the full width of the pavement in one traffic direction in both driving and passing lanes. The trial section must be in place for at least two winters before a decision can be made regarding the acceptability of the aggregate for DFC use.

Approval of your aggregate for HL1 is conditional upon: 1) it meeting the requirements of OPSS 1001, 1003, and such special provisions that alter these specifications; and 2) maintaining an average PSV of no less than 50 with no value less than 48.

As you are aware, in order to be listed on our DSM list, you also have to be registered on "The Road Authority" website. I understand from Bob Gorman that you have already submitted this fee directly. Information can be accessed on the [www.roadauthority.com](http://www.roadauthority.com) website or by telephone at (905) 670-0469. Should you require any further information, please do not hesitate to contact either Bob Gorman at (416) 235-3736 or myself.

Yours Truly,

A handwritten signature in black ink, appearing to read "Chris Rogers". The signature is fluid and cursive, with a large initial "C" and "R".

Chris A. Rogers, Manager,  
Soils and Aggregates Section.

**Table 1  
Laboratory Test Data  
Trigan Resources Inc.**

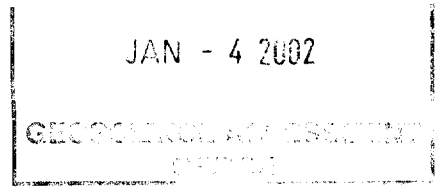
Laboratory Test	Sample Data Methuen Township Quarry (B02-071)			Specification Limit
	99-B-9058	00-B-9035	00-B-9036	
Lab. Sample No.	99-B-9058	00-B-9035	00-B-9036	Specification Limit
Field Sample No.	99-VM-1039	00-VM-1022	00-VM-1023	
Date Sampled	-	00 08 09	00 08 09	
Type of Material	original drill core	HL1 CA	screenings	HL1 CA
Rock Type	meta-gabbro	meta-gabbro	meta-gabbro	
Granular PN	-	102	-	N.A.
HL + Conc PN	-	113	-	145 (max.)
Absorption, %	-	0.351	0.411	1.0 (max.)
Bulk Relative Density	-	2.871	2.836	N.A.
Loss by Washing, %	-	1.7	-	1.0 (max.)
Crushed, %	-	100	-	N.A.
Flats & Elongated, %	-	12	-	15.0 (max.)
Micro-Deval Abrasion, %	-	11.8	13.4	15.0 (max.)
Polished Stone Value	51	52	-	50 (min.)
Aggregate Abrasion Value	-	4.9	-	6.0 (max.)
Freeze-Thaw, %	1.0	1.0	-	6.0 (max.)
Insoluble Residue, %	N.A.	N.A.	-	N.A.
Pass 75 µm, %	-	-	10.4	N.A.
Plasticity Index	-	-	N.P.	N.A.
Los Angeles Abrasion, %	-	25	-	
Gradation, % Passing		100		
16.0 mm		99.6		100
13.2 mm		90.5		96-100
9.5 mm		29.1		50-73
4.75 mm		3.7		0-10



31C12NW2002 2.22242 METHUEN

020

Don Phipps  
98 Kingsmount Blvd  
Sudbury  
Ontario, P3E 1K6  
Phone: 705-673-2510  
E-mail: [don.phipps@sympatico.ca](mailto:don.phipps@sympatico.ca)



January 4, 2002

Ron Gashinski  
Senior Manager Mines and Minerals Division  
Ministry of Northern Development and Mines  
Geoscience Assessment Office  
933 Ramsey Lake Road  
Sudbury, Ontario, P3E 6B5

Re: 45-Day Notice - Submission No. 2.22242; Transaction No. W0190.30919

Dear Sir:

In reply to your request of November 21 2001 for additional information to complete the submission, the information required is listed below.

Re Revisions:

**1. Drill core sample submitted to John Emery Geotechnical Engineering Ltd.**

Three BQ sized boreholes (70432, 70445, 704470) were sampled to make up a combined sample of approximately 60 lbs of medium grained gabbro representing the host rock for the associated ilmenite mineralization. The location of each borehole is shown on the accompanying Borehole Location Sketch. A 4 to 6 inch sample of core was taken at approximately 10 ft intervals. Borehole 70432 was sampled from 30 to 244 ft, borehole 70445 from 12 to 152 ft, and borehole 70447 from 10 ft to 246 ft. The core is stored at the Inco Core Farm.

Locating, accessing and sampling the core plus packaging and shipping of the sample was completed in one day at a cost, including shipping of \$425.00

**2. Drill core sample submitted to MTO for PSV.**

The same rock type was sampled from five boreholes (70409, 70412, 70413, 70416, 70418). The location of each hole is indicated on the accompanying Borehole Location Sketch map. Sampling was carried out with a 4 to 6 inch core sample taken at approximately 10 ft intervals down each hole. The five holes are between 100 and 158 ft in depth.

Locating, accessing and sampling the core plus packaging and shipping of the sample was completed in one day at a cost, including shipping of \$425.00

**3. Land survey by Oakridge Environmental Ltd.**

There is no report for this work; only an invoice. This cost will be removed.

**4. Cost of preparation of Technical Report by D. Phipps**

2.5 days @ \$400/ day	\$1000.00
Drafting services	<u>88.00</u>
Total	\$1088.00

**Re Reduction:**

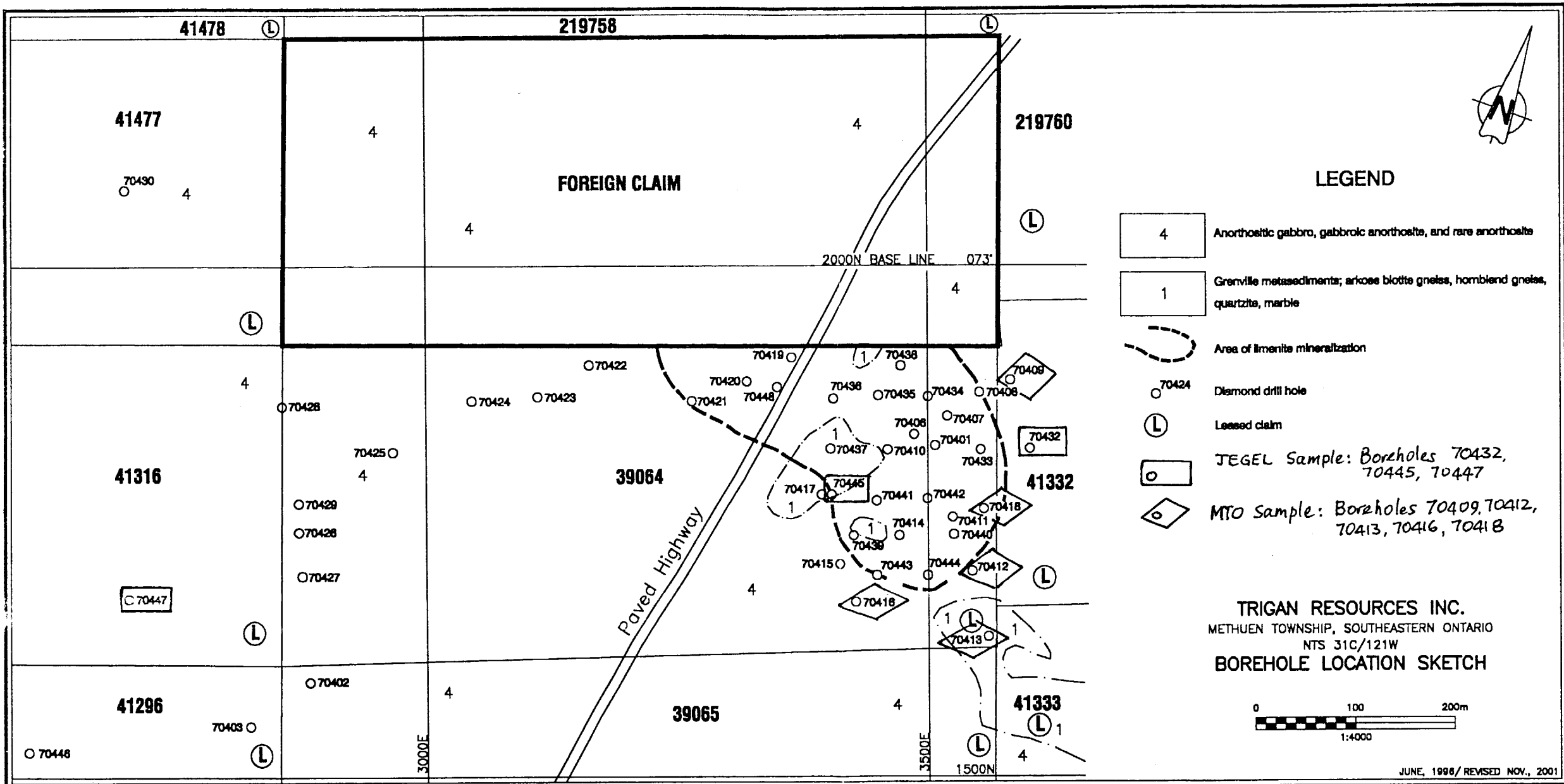
Attached is a letter from Gordon Malcolm of Macbro Drilling and Blasting stating that the cost of a trail for mobilization and demobilization of the crushing and screening equipment into the site totals \$16,990.73. This is claimed as a valid assessment cost.

A revised Statement of Costs for Assessment Credit is attached.

Yours sincerely



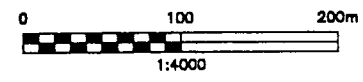
Don Phipps  
Agent for Trigan Resources Inc.



**LEGEND**

- 4 Anorthositic gabbro, gabbroic anorthosite, and rare anorthosite
- 1 Grenville metasediments; arkose blotte gneiss, hornblende gneiss, quartzite, marble
- Area of ilmenite mineralization
- 70424 Diamond drill hole
- L Leased claim
- JEGEL Sample: Boreholes 70432, 70445, 70447
- ◇ MTO Sample: Boreholes 70409, 70412, 70413, 70416, 70418

**TRIGAN RESOURCES INC.**  
 METHUEN TOWNSHIP, SOUTHEASTERN ONTARIO  
 NTS 31C/121W  
**BOREHOLE LOCATION SKETCH**





**MACBRO DRILLING & BLASTING LIMITED**

**Box 69 Denbigh Ontario  
KOH 1L0**

**Gordon (Pete) Malcolm  
613-333-5578**

---

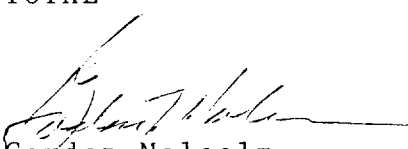
December 17, 2001

Trigan Resources Inc.  
445 Beacon Hall Dr.  
Aurora, Ontario L4G 3G8

To Whom This May Concern,

This would be the price just to build a rough roadway to new quarry site near Havelock for mobilization of crushing equipment.

Skidder and cutting of right of way	2040.00
Excavator and dozer	3965.00
Placing culvert & Rock base - Dozer & Excavator	1430.00
- Culverts	1471.69
- Trucks	900.00
Roadway drilling & Blasting	6072.50
Subtotal	15879.19
G.S.T.	1111.54
TOTAL	16990.73

  
Gordon Malcolm  
Macbro Drilling & Blasting

### Work Report Summary

**Transaction No:** W0190.30919 **Status:** APPROVED  
**Recording Date:** 2001-OCT-10 **Work Done from:** 2000-MAY-15  
**Approval Date:** 2002-JAN-07 **to:** 2000-AUG-21

**Client(s):**  
     392610      TRIGAN RESOURCES INC.

**Survey Type(s):**  
                     BULK

**Work Report Details:**

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
G 9090001	\$244,890	\$36,708	\$0	\$0	\$0	0	\$244,890	\$36,708	
	\$244,890	\$36,708	\$0	\$0	\$0	\$0	\$244,890	\$36,708	

External Credits:                      \$0

**Reserve:**  
                                 Reserve of Work Report#: W0190.30919  
      (\$52,400)      Applied by W0190.31143 2001-NOV-26  


---

                                 Total Remaining

Status of claim is based on information currently on record.



31C12NW2002 2.22242 METHUEN 900

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

Date: 2002-JAN-08

TRIGAN RESOURCES INC.  
ATTEN :J.B. REGAN  
445 BEACON HILL DRIVE  
AURORA, ONTARIO  
L4G 3G8 CANADA

Tel: (888) 415-9845  
Fax:(877) 670-1555

**Submission Number:** 2.22242  
**Transaction Number(s):** W0190.30919

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

The revisions outlined in the Notice dated November 21, 2001 have been corrected.

Assessment work credit has been approved as outlined on the attached Work Report Summary. The TOTAL VALUE of assessment credit that will be allowed is \$36,708.00, as per the amended Statement of Costs submitted on January 4, 2002.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by phone at (705) 670-5856.

Yours Sincerely,



Ron Gashinski  
Supervisor, Geoscience Assessment Office

**Cc:** Resident Geologist

Trigan Resources Inc.  
(Claim Holder)

Donald Phipps  
(Agent)

Assessment File Library

Trigan Resources Inc.  
(Assessment Office)



MINISTRY OF  
NORTHERN DEVELOPMENT  
AND MINES  
PROVINCIAL MINING  
RECORDERS OFFICE

**MINING LAND TENURE  
MAP**

Date / Time of Issue Dec 10 2001 10:58h Eastern

TOWNSHIP / AREA PLAN  
METHUEN (SOUTH) G-3053

ADMINISTRATIVE DISTRICTS / DIVISIONS  
Mining Division Southern Ontario  
Land Titles/Registry Division PETERBOROUGH  
Ministry of Natural Resources District BANCROFT

**TOPOGRAPHIC**

- Administrative Boundaries
  - Township
  - Commission
  - Reserve Park
  - Town Boundary
  - City Boundary
  - County / Regional Boundary
  - Shaft
  - Mine Headframe
  - Paved Road
  - Road
  - Trail
  - Natural Gas Feature
  - Hydro Line
  - Communication Line
  - Wooded Area
  - Wetland/Environmental Sensitive Area

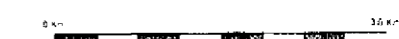
**LAND TENURE**

- Freehold Patent**
  - Surface Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licensed Patent**
  - Surface Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Surface Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Land Use Permit**
  - Open Pit Mine
  - Waste Reclamation Agreement

**LAND TENURE WITHDRAWALS**

- 1974 - **Asset Withdrawal from Operation Mining Act Withdrawal 1974**
  - Wh - Withdrawal from Operation
  - Wh - Surface Rights Only
  - Wh - Mining Rights Only
  - Wh - Waste Reclamation Agreement
  - Wh - Land Use Permit
  - Wh - Mining Rights Only
- 1974 - **IMPORTANT NOTICES**

**2.20242**  
**BULK**



**LAND TENURE WITHDRAWAL DESCRIPTIONS**

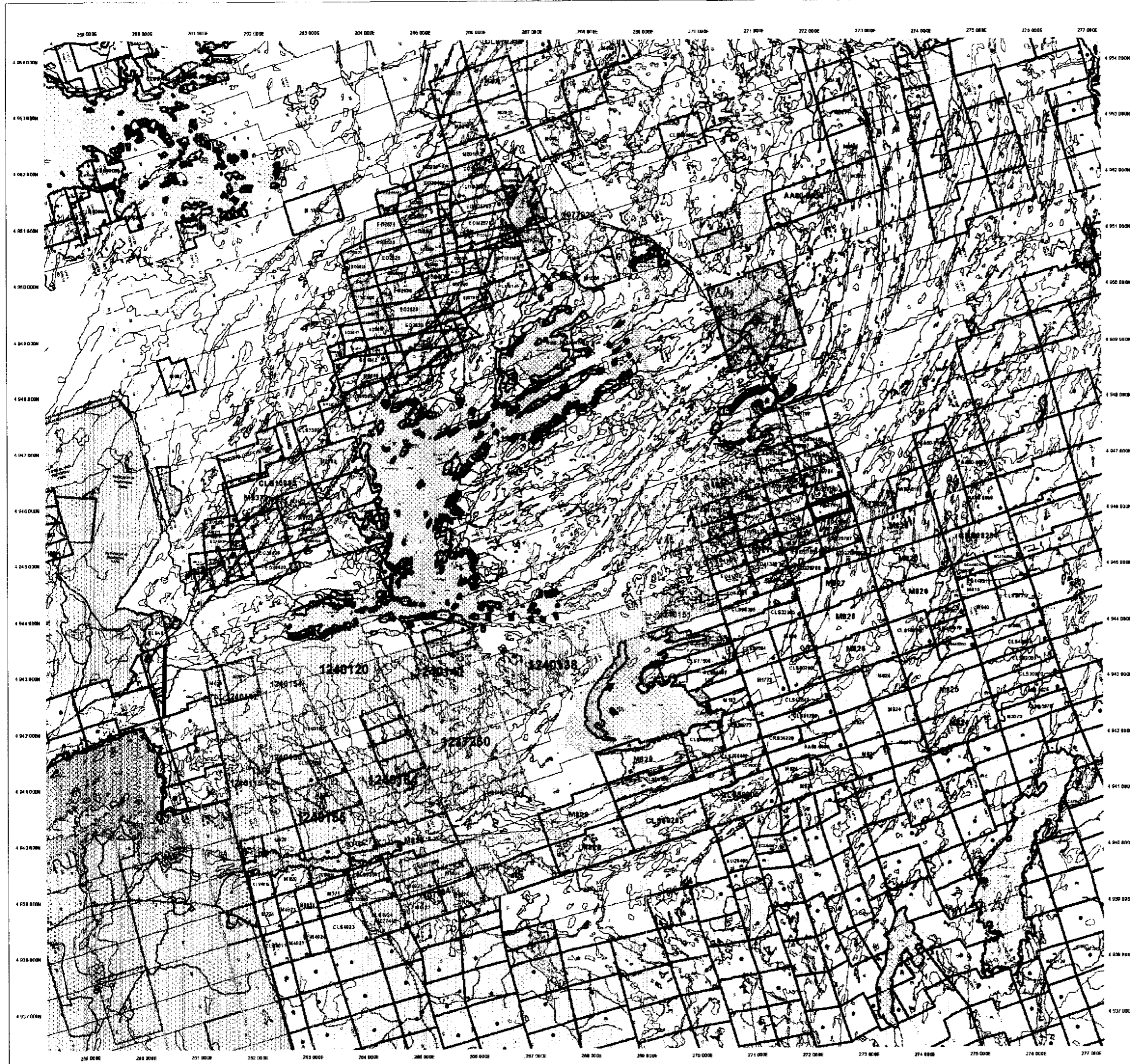
Identif.	Type	Date	Description
4177	Wh	Jun 1 2001	FLOODED LANDS
4304	Wh	Jun 1 2001	FLOODED LANDS
4792	Wh	Jun 1 2001	FLOODED LANDS
4790	Wh	Jun 1 2001	FLOODED LANDS
4800	Wh	Jun 1 2001	FLOODED LANDS
4800	Wh	Jun 1 2001	J0409 S.R. & M.R. 82477
4806	Wh	Jun 1 2001	FLOODED LANDS
4810	Wh	Jun 1 2001	FLOODED LANDS
4824	Wh	Jun 1 2001	FLOODED LANDS
4827	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4827	Wh	Jun 1 2001	SEC 43 7/272 SR & MR 57816
4836	Wh	Jun 1 2001	SEC 43 7/272 SR & MR 57810
4849	Wh	Jun 1 2001	SEC 43 7/272 SR & MR 57816
4851	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4884	Wh	Jun 1 2001	SEC 43 4/871 SR&MR 57841
4884	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4885	Wh	Jun 1 2001	SEC 43 4/871 SR&MR 57801
4886	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4871	Wh	Jun 1 2001	SEC 43 4/871 SR&MR 57841
4887	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4887	Wh	Jun 1 2001	SEC 43 4/871 SR&MR 57841
4887	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4887	Wh	Jun 1 2001	SEC 43 4/871 SR&MR 57841
4887	Wh	Jun 1 2001	SEC 36 RESERVE FOR PUBLIC USE
4887	Wh	Jun 1 2001	SEC 43 4/871 SR&MR 57841

**IMPORTANT NOTICES**

Please refer to each notice, regulations, conditions and other normal provisions relating to mining development activities.

Type Description

N1 For land status within this township, please contact the appropriate Land Registry Office.



**General Information and Limitations**

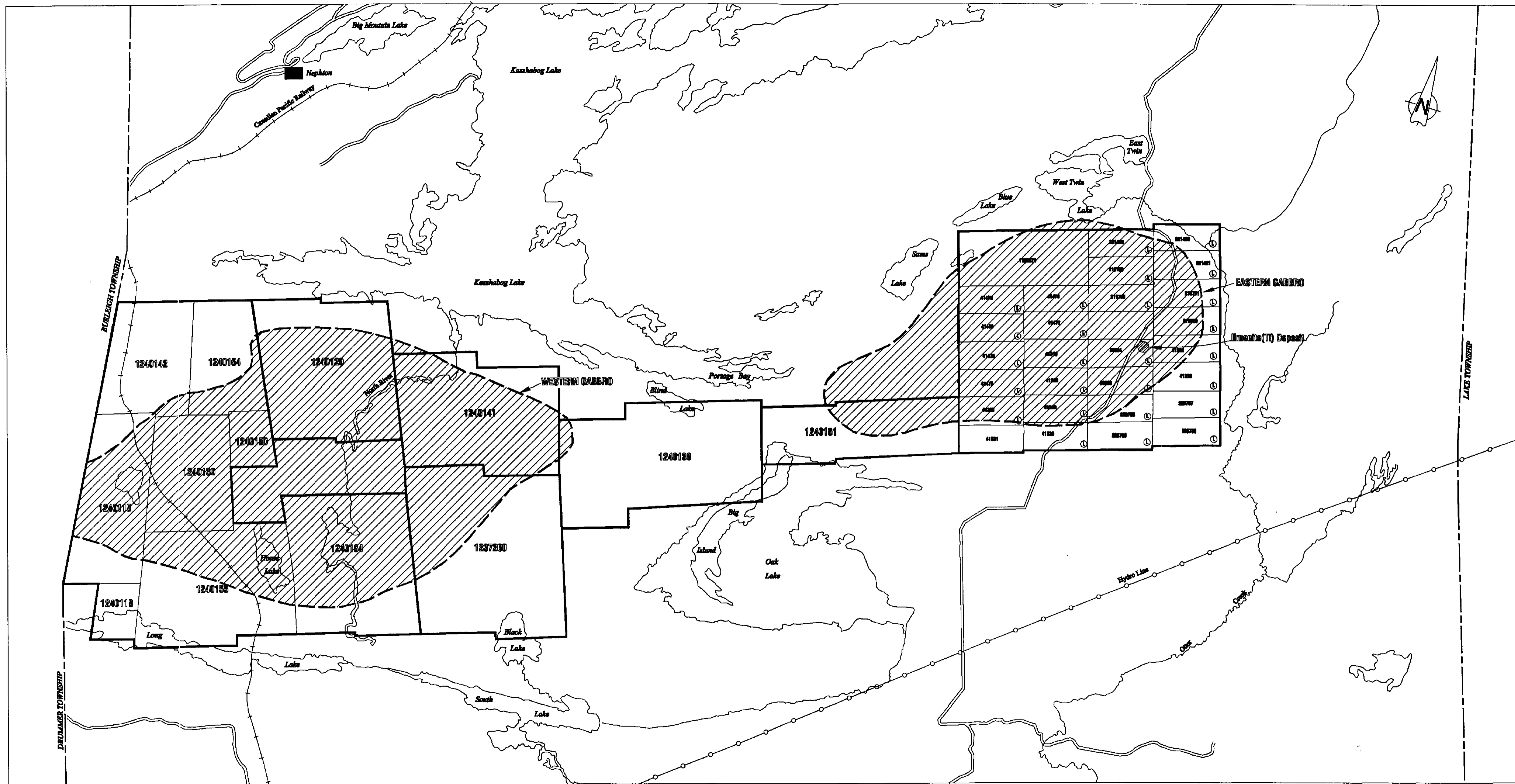
**Call and Information:**  
Provincial Mining Recorders' Office 1-800-455-5000  
Public Grain News Centre 1-800-455-5000  
9334 Highway 16, Unit 100  
Sudbury, ON P3B 6K1  
E-Mail: info@mnr.gov.on.ca

**Map Data: NAU 03**  
Projection: UTM (NAD83)  
Contour Interval: 10m  
Mining Land Tenure Source: Provincial Mining Recorders' Office





This map shows mining land tenure and interests in land including certain patents, leases, agreements, rights of way, floating rights, licences, or other forms of disposition of rights and interests in the Crown. Some surface land tenure and land tenure that is subject to a pending or proposed mining claim may not be shown.

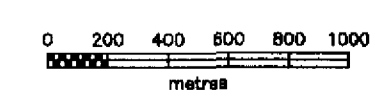
31012M2002 2.22242 METHUEN

220



Legend

-  Gabbro
-  Road
-  Trigan Claims
-  Licensed Claim



TRIGAN RESOURCES INC.

Project: Methuen		Area: Methuen Township	
<b>CLAIM MAP AND GABBRO BODIES</b>			
Compiled by: D. Phipps	Supervisor: D. Phipps		Date drawn: March 11, 2000
Drawn by: W.E.M.	Revised by:		Revised:
Scale: 1:25000	N.T.S. 32C12	File: Trigmthgeol.dwg	<b>FIGURE 2</b>

