

APPENDIX A
PROPERTY INFORMATION

Environmental Assessment Registration Document:
Granite Village Quarry Expansion
East Port L'Hebert, Queens County
Nova Scotia

APPROVAL

Province of Nova Scotia
Environment Act, S.N.S. 1994-95, c.1

APPROVAL HOLDER: **MUNICIPAL ENTERPRISES LIMITED**

SITE PID: **70228531**

APPROVAL NO: **2003-035824-R01**

EXPIRY DATE: **April 2, 2024**

Pursuant to Part V of the *Environment Act, S.N.S. 1994-95, c.1* as amended from time to time, approval is granted to the Approval Holder subject to the Terms and Conditions attached to and forming part of this Approval, for the following activity:

Construction , operation and reclamation of a Quarry, and associated works, at or near East Side Port L'Hebert, Queens County in the Province of Nova Scotia.

Administrator _____
Lori Skaine

Effective Date _____

TERMS AND CONDITIONS OF APPROVAL

Nova Scotia Environment

Approval Holder: MUNICIPAL ENTERPRISES LIMITED
Project: Quarry
Site: East Side Port L'Hebert, Queens County
PID # 70228531

Approval No: 2003-035824-R01

File No: 92100-30

Map Series: 20P15

Grid Reference: E341300 N4860250

Reference Documents:

- Application dated September 26, 2013 and attachments.
- Previous File 2003-035824 and the contents held within
- Arial Photo - not dated
- Plan Showing Municipal Enterprises Ltd Quarry Site dated July 4, 2013
- Contingency Plan , Granite Village Quarry , Granite Village ,Queens County
- Rehabilitation Plan Granite Village Quarry , Granite Village , Queens County
- Bond 7363403 dated April 22, 2013

1. Definitions

- a) "Abandonment" means cessation of production of aggregate for a period of twelve (12) months.
- b) "Act" means the *Environment Act* S.N.S. 1994-1995, c.1 and includes all regulations made pursuant to the Act.
- c) "Active Area" means the area required to operate a quarry and includes the working face and associated works.
- d) "Associated works" means any building, structure, processing facility, pollution abatement system or stockpiles of aggregate.

- e) "Department" means the Western Region, Bridgewater Office, of Nova Scotia Environment located at the following address:

Nova Scotia Environment
Compliance Division
Western Region, Bridgewater Office
60 Logan Road
Bridgewater, NS B4V 3J8

Phone: (902) 543-4685

Fax: (902) 527-5480

- f) "Disturbed Area" means any area on a quarry site that has been stripped of vegetation and is susceptible to erosion.
- g) "Facility" means the Quarry and associated works.
- h) "Minister" means the Minister of Nova Scotia Environment.
- i) "Rehabilitation" means restorative work performed or to be performed in accordance with the rehabilitation plan.
- j) "Structure" includes but is not limited to a private home, a cottage, an apartment building, a school, a church, a commercial building or a treatment facility associated with the treatment of municipal sewage, industrial or landfill effluent, an industrial building, infrastructure or construction, a hospital, and a nursing home, etc.

2. **Scope of Approval**

- a) This Approval (the "Approval") relates to the Approval Holder and their application and supporting documentation, as listed in the reference documents above, to construct, operate, and reclaim the Facility, situated at or near East Side Port L'Hebert, Queens County (the "Site").
- b) The Facility shall be constructed, operated and reclaimed as outlined in the application for industrial approval dated September 26, 2013 and supporting documentation.
- c) The Site shall not exceed the area as outlined in the application and supporting documentation.

3. **General Terms and Conditions**

- a) The Approval Holder shall construct, operate and reclaim its Facility in accordance with provisions of the:
 - i) *Environment Act* S.N.S. 1994-1995, c.1, as amended from time to time;
 - ii) Regulations, as amended from time to time, pursuant to the above Act;
- b) The Approval Holder is responsible for ensuring that they operate the Facility on lands which they own or have a lease or written agreement with the landowner or occupier. The Approval Holder shall be responsible for ensuring that the Department has, at all times, a copy of the most recent lease or written agreement with the landowner or occupier. Breach of this condition may result in cancellation or suspension of the Approval.
- c) If there is a discrepancy between the reference documents and the terms and conditions of this Approval, the terms and conditions of this Approval shall apply.
- d) The Minister or Administrator may modify, amend or add conditions to this Approval at anytime pursuant to Section 58 of the Act.
- e) This Approval is not transferable without the consent of the Minister or Administrator.
- f)
 - (i) If the Minister or Administrator determines that there has been non-compliance with any or all of the terms and conditions contained in this Approval, the Minister or Administrator may cancel or suspend the Approval pursuant to subsections 58(A)(1) and 58(A)(2) of the Act, until such time as the Minister or Administrator is satisfied that all terms and conditions have been met.
 - (ii) Despite a cancellation or suspension of this Approval, the Approval Holder remains subject to the penalty provisions of the Act and regulations.
- g) The Approval Holder shall notify the Department prior to any proposed extensions or modifications of the Facility, including the active area, process changes or waste disposal practices which are not granted under this Approval. An amendment to this Approval will be required before implementing any change. Extensions or modifications to the Facility may be subject to the Environmental Assessment Regulations.

- h) Pursuant to Section 60 of the *Act*, the Approval Holder shall submit to the Administrator any new and relevant information respecting any adverse effect that actually results, or may potentially result, from any activity to which the Approval relates and that comes to the attention of the Approval Holder after the issuance of the Approval.
- i) The Approval Holder shall immediately notify the Department of any incidents of non-compliance with this Approval.
- j) The Approval Holder shall bear all expenses incurred in carrying out the environmental monitoring required under the terms and conditions of this Approval.
- k) Unless specified otherwise in this Approval, all samples required to be collected by this Approval shall be collected, preserved and analysed, by qualified personnel, in accordance with recognized industry standards and procedures.
- l) Unless written approval is received otherwise from the Administrator, all samples required by this Approval shall be analysed by a laboratory that meets the requirements of the Department's "Policy on Acceptable Certification of Laboratories" as amended from time to time.
- m) The Approval Holder shall submit any monitoring results or reports required by this Approval to the Department. Unless specified otherwise in this Approval, All monitoring results shall be submitted within 30 days following the month of monitoring.
- n) The Approval Holder shall ensure that this Approval, or a copy, is kept on Site at all times and that personnel directly involved in the Facility operation are made fully aware of the terms and conditions which pertain to this Approval.
- o) The Approval Holder will be required to register their project under Part IV of the *Environment Act* should the Facility and associated works including access roads exceed an area of four (4) hectares.
- p) All records required by this Approval are to be kept for a minimum of five years at the facility. These records and related reports shall be made available to the Department immediately upon request

4. **Construction of Facility**

- a) Erosion and sedimentation controls are to be in place prior to construction at this facility. Additional controls shall be implemented if Site runoff exceeds the discharge limits contained herein.
- b) Erosion and sedimentation controls are to be maintained and remain in place until the disturbed areas are stabilized.
- c) The Approval Holder shall ensure that the following discharge limits are met for any water which is discharged from the Site to a watercourse or wetland:

Clear Flows (Normal Background Conditions):

- i) Maximum increase of 25 mg/l from background levels for any short term exposure (24 hours or less)
- ii) Maximum average increase of 5 mg/l from background levels for longer term exposure (inputs lasting between 24 hours and 30 days)

High Flow (Spring Freshets and Storm Events)

- i) Maximum increase of 25 mg/l from background levels at any time when background levels are between 25 mg/l and 250 mg/l
 - ii) Shall not increase more than 10% over background levels when background is > 250 mg/l
- d) Signage including emergency telephone numbers and contacts are to be posted at the entrance to the Facility.
 - e) The use of used oil as a dust suppressant is strictly prohibited. The generation of dust from the Site shall be suppressed as required.

5. **Particulate Emissions (Dust)**

- a) Particulate emissions shall not exceed the following limits at or beyond the Site property boundaries:

Annual Geometric Mean 70 $\mu\text{g}/\text{m}^3$

Daily Average (24 hr.) 120 $\mu\text{g}/\text{m}^3$

- b) The use of used oil as a dust suppressant is strictly prohibited. The generation of dust from the Site shall be suppressed as required.
- c) Monitoring of particulate emissions shall be conducted at the request of the Department. The location of the monitoring station(s) for particulate will be established by a qualified person retained by the Approval Holder and submitted to the Department for approval, this may include point(s) beyond the property boundary of the Site.
- d) When requested, suspended particulate matter shall be measured by the EPA standard; EPA/625/R-96/010a; Sampling of Ambient Air for Total Suspended Particulate Matter (SPM) and PM₁₀. Using High Volume (HV) Sampler.

6. **Sound Levels**

- a) Sound levels measured at the Site property boundaries shall not exceed the following equivalent sound levels (Leq):

Leq 65 dBA 0700-1900 hours (Days)
60 dBA 1900-2300 hours (Evenings)
55 dBA 2300-0700 hours (Nights)
- b) Monitoring of sound levels shall be conducted at the request of the Department. The location of the monitoring station(s) for sound will be established by a qualified person retained by the Approval Holder and submitted to the Department for approval, this may include point(s) beyond the property boundary of the Site.

7. **Surface Water**

- a) The site shall be developed and maintained to prevent siltation of the surface water which is discharged from the property boundaries into the nearest watercourse or beyond the property boundary. Additional controls shall be implemented if site runoff exceeds the discharge limits contained herein.
- b) No authority is granted by this Approval to enable the Approval Holder to discharge surface water beyond the property boundary and onto adjoining lands without the authorization of the affected landowner(s). It is the responsibility of the Approval Holder to ensure that the authorization of said landowner(s) is current and valid. Failure to maintain said authorization will result in this Approval being null and void. The Approval Holder shall provide,

to the Department, proof of the continued authorization of the adjoining landowner(s) when the current agreement has expired.

- c) Erosion and sedimentation control devices shall be installed prior to any excavation of material.
- d) The Approval Holder shall ensure the following liquid effluent levels are met and that the effluent is monitoring at the frequency and locations indicated.

- i) **Total Suspended Solids**

- Clear Flows (Normal Background Conditions):**

- 1) Maximum increase of 25 mg/l from background levels for any short term exposure (24 hour or less)
 - 2) Maximum average increase of 5 mg/l from background levels for longer term exposure (inputs lasting between 24 hours and 30 days)

- High Flow (Spring Freshets and Storm Events):**

- 1) Maximum increase of 25 mg/l from background levels at any time when background levels are between 25 mg/l and 250 mg/l
 - 2) Shall not increase more than 10% over background levels when background is > 250 mg/l

- ii) **pH**

- 1) Maximum 5 to 9 in grab sample
 - 2) Maximum 6 to 9 as a Monthly Arithmetic Mean

- iii) **Monitoring Locations**

- 1) The Approval Holder shall sample at the following locations: Discharge from site or as directed by NSE.

- iv) **Sampling Frequency**

- 1) The Approval Holder shall sample at the following frequency: During discharge events and as requested by NSE

- e) If it becomes necessary to drain the Site, the wastewater shall be treated to meet the suspended solids limits outlined in this Approval.

- f) All wash water systems shall be arranged in closed circuit.
- g) Additional monitoring stations for liquid effluent may be specified as required by the Department.

8. Groundwater

- a) The Approval Holder shall replace at their expense any water supply which has been lost or damaged as a result of extracting aggregate.
- b) The Approval Holder shall secure from the Administrator an approval amendment prior to excavating below the watertable.

9. Separation Distances

- a) The Approval Holder shall not locate the Active Area of the quarry within:
 - i) 30 m of the boundary of a public or common highway.
 - ii) 30 m of the bank of any watercourse or ordinary high water mark.
 - iii) 30 m of the boundary of the quarry property.
- b) The Approval Holder shall not blast within:
 - i) 30 m of the boundary of a public or common highway.
 - ii) 30 m of the bank of any watercourse or ordinary high water mark.
 - iii) 800 m of the foundation or base of a structure located off site.
 - iv) 15 m of the property boundary when a structure on the abutting property is not involved.

10. Blasting

- a) The Approval Holder shall have a technical blast design prepared by a qualified person which ensures the ground vibration and air concussion limits in this Approval can be achieved.
- b) The Approval Holder shall conduct a pre-blast survey including a water quality analysis of all structures within 800 metres of the Facility. The survey shall be conducted in accordance with the Department's 'Procedure For Conducting a

Pre-Blast Survey" and the results of this survey sent to the Department prior to any blasting on the Site. Water quality parameters will be determined by NSE staff.

- c) The Approval Holder shall call the nearest weather office, to assess the climatic conditions prior to conducting any blasting. No blasting will be permitted if a thermal inversion is anticipated at the time of the proposed blast.
- d) No blasting shall occur on Sunday, on a statutory holiday prescribed by the Province, or on any day between 1800 and 0800 hours.
- e) The Approval Holder shall ensure that all blasts are monitored for concussion and ground vibration to ensure that the limits in Table 2 are not exceeded:

Table 2			
Blasting Limits			
Parameters	Maximum	Monitoring Frequency	Monitoring Station
Concussion (Air Blast)	128 dBL	Every Blast	Within 7 m of the nearest structure not located on the Site
Ground Vibration	0.5 in/sec (12.5 mm/s)	Every Blast	Below grade or less than 1 m above grade in any part of the nearest structure not located on the Site

- f) The monitoring station for blasting shall be as indicated in Table 2. Additional monitoring stations for blasting may be specified as required by the Department.

11. Rehabilitation

- a) The Approval Holder shall submit a rehabilitation plan to the Department for review by April 30, 2017. The rehabilitation plan shall be revised and updated every three year thereafter and submitted for review. The rehabilitation plan shall include the estimated total cost for labour, equipment, supplies and services of a third party contractor to undertake the following activities:
 - i) surface contouring
 - ii) establishing proper drainage
 - iii) revegetation work
 - iv) any work necessary to reclaim the quarry

- b) The Approval Holder shall post a final security which shall be calculated using the rehabilitation plan and factors in item a) above. The final security shall be revised every three years in accordance with the revised rehabilitation plan.
- c) The Approval Holder shall rehabilitate the Site within twelve (12) months of abandonment and in accordance with the rehabilitation plan submitted by the Approval Holder in 11 (a) or other terms as specified by the Department,
- d) Nova Scotia Environment shall release the security to the Approval Holder after final rehabilitation of the Site has been completed to the satisfaction of the Minister or Administrator. The Approval Holder shall notify the Department when rehabilitation has been completed.
- e) The Approval Holder shall ensure that any security posted for rehabilitation be kept valid for the term of the Approval.

12. Site Specific Conditions

- a) The boundaries of the Site will be cut out and kept reasonably clear of new growth and the corner boundaries shall be clearly marked with permanent markers no less than four feet high.

13. Emergency Reporting During Operation

- a) The Approval Holder shall notify the Department immediately when activities carried out at the Facility lead to results which do not meet the requirements of this approval.

14. Annual Report

- a) An Annual Report shall be supplied to the Department providing a summary of any monitoring carried out under Sections 4,5,6,7,and 10 of this approval. If no activities are carried out which would result in monitoring being required under any of the sections, then a note indicating this shall be included in the Annual Report.
- b) The Annual Report is due by January 31 following the year of operation.

Profile Report

Entity details

Information as of	08 March 2023
Registry ID	3251748
Business/Organization Name	MUNICIPAL ENTERPRISES LIMITED
Incorporation Date	01 February 2011
Annual Return due Date	29 February 2024
Type	Limited Company
Status	Active
Registered Office	927 ROCKY LAKE DRIVE, NOVA SCOTIA, BEDFORD, B4A 3Z2, CANADA
Mailing Address	927 ROCKY LAKE DRIVE, NOVA SCOTIA, BEDFORD, B4A 3Z2, CANADA

Directors and Officers

Name	Position	Civic Address	Mailing Address
CARL B. POTTER	Director	927 ROCKY LAKE DRIVE BEDFORD NOVA SCOTIA B4A 3Z2 CANADA	
CARL B. POTTER	CHAIRMAN	927 ROCKY LAKE DRIVE BEDFORD NOVA SCOTIA B4A 3Z2 CANADA	
DAVID A. WOOD	VP, CFO & TREASURER	927 ROCKY LAKE DRIVE BEDFORD NOVA SCOTIA B4A 3Z2 CANADA	
DAVID PANGMAN	VICE PRESIDENT, FINANCE	927 ROCKY LAKE DRIVE BEDFORD NOVA SCOTIA B4A 3Z2 CANADA	
HAROLD JOHNSON	Vice-president	927 ROCKY LAKE DRIVE BEDFORD NOVA SCOTIA B4A 3Z2 CANADA	
KEN MACLEAN	VP AND SECRETARY	927 ROCKY LAKE DRIVE BEDFORD NOVA SCOTIA B4A 3Z2 CANADA	

Recognized Agent

Name	Position	Civic Address	Mailing Address
CHRISTINE C. POUND	Recognized Agent	600-1741 LOWER WATER STREET HALIFAX NOVA SCOTIA B3J 0J2 CANADA	PO BOX 997 HALIFAX NOVA SCOTIA B3J 2X2 CANADA

Activity

Activity	Date
Company Annual Renewal Statement	21 February 2023
Company Annual Renewal Statement	16 February 2022
Company Annual Renewal Statement	03 March 2021
Annual Statement Filed	06 March 2020
Annual Renewal	06 March 2020
Change of Directors	17 May 2019
Filed Document	18 March 2019
Filed Document	18 March 2019
Special Resolution	18 March 2019
Annual Renewal	28 February 2019
Annual Statement Filed	28 February 2019
Annual Renewal	16 February 2018
Annual Statement Filed	16 February 2018
Change of Directors	18 October 2017
Annual Renewal	08 February 2017
Annual Statement Filed	08 February 2017
Annual Renewal	08 March 2016
Annual Statement Filed	08 March 2016
Change of Directors	10 July 2015
Filed Document	25 March 2015
Special Resolution	25 March 2015
Annual Renewal	10 March 2015
Annual Statement Filed	10 March 2015
Annual Renewal	03 February 2014
Annual Statement Filed	03 February 2014
Change of Directors	12 September 2013
Change of Directors	18 March 2013



Registry of Joint Stock Companies

Annual Renewal	18 February 2013
Annual Statement Filed	18 February 2013
Change of Directors	22 June 2012
Annual Statement Filed	29 February 2012
Annual Renewal	29 February 2012
Change of Directors	10 November 2011
Change of Directors	20 June 2011
Appoint an Agent	16 June 2011
Special Resolution	10 February 2011
Date of Filing Amalgamation	01 February 2011
Address Change	01 February 2011
Appoint an Agent	01 February 2011
Change of Directors	01 February 2011

Related Registrations

Relationship	Name
Amalgamated From	MUNICIPAL ENTERPRISES LIMITED
Amalgamated From	GIBRALTAR ENVIRONMENTAL INCORPORATED
Amalgamated From	MUNICIPAL PIPELINE CONSTRUCTION INCORPORATED
Amalgamated From	DALSAAN INVESTMENTS LIMITED
Amalgamated From	WARD AGGREGATES LIMITED
Amalgamated From	3102991 NOVA SCOTIA LIMITED
Amalgamated From	3104179 NOVA SCOTIA LIMITED
Amalgamated From	GRAY ROCK CONSTRUCTION LIMITED
Amalgamated From	DEXTER MARITIMES LIMITED
Business Name	ROCKY LAKE QUARRY
Amalgamated From	A.C.L. CONSTRUCTION LIMITED
Business Name	DEXTER ASPHALT PLANT
Is Partner of	SOUTH SHORE DEVELOPMENT PARTNERSHIP
Is Partner of	MEL MILL RENTAL PROPERTIES
Business Name	MUNICIPAL GROUP OF COMPANIES
Business Name	CARL B. POTTER
Amalgamated From	R. B. PAVING COMPANY LIMITED
Business Name	BERNARD L. MAILMAN PROJECTS
Business Name	HIGHLAND ASPHALT
Business Name	GIBRALTAR CONSTRUCTION
Business Name	DEBERT MINING
Business Name	RHODES CORNER QUARRY

December 8, 2022

To whom it may concern,


Re: Letter of Authorization – Environmental Permitting Applications

Please be advised that Gary Rudolph, P. Eng., Director of Aggregates, is hereby authorized by Dexter Construction Company Limited, Municipal Enterprises Limited, and Sovereign Resources Inc. (together referred to as the “Owner”) to sign any “Application for Approval” for environmental approvals, permits and associated documentation related to regulatory approval processes for pits and quarries in the Province of Nova Scotia. This authorization pertains to Environmental Assessments, new applications and the renewal or amendment of existing approvals and is effective as of today’s date until the earlier of the Owner’s withdrawal of this authorization or December 31, 2023.

The undersigned is an officer of Dexter Construction and Municipal Enterprises and a director of and Sovereign Resources and has the power to make the above authorization.

Sincerely,

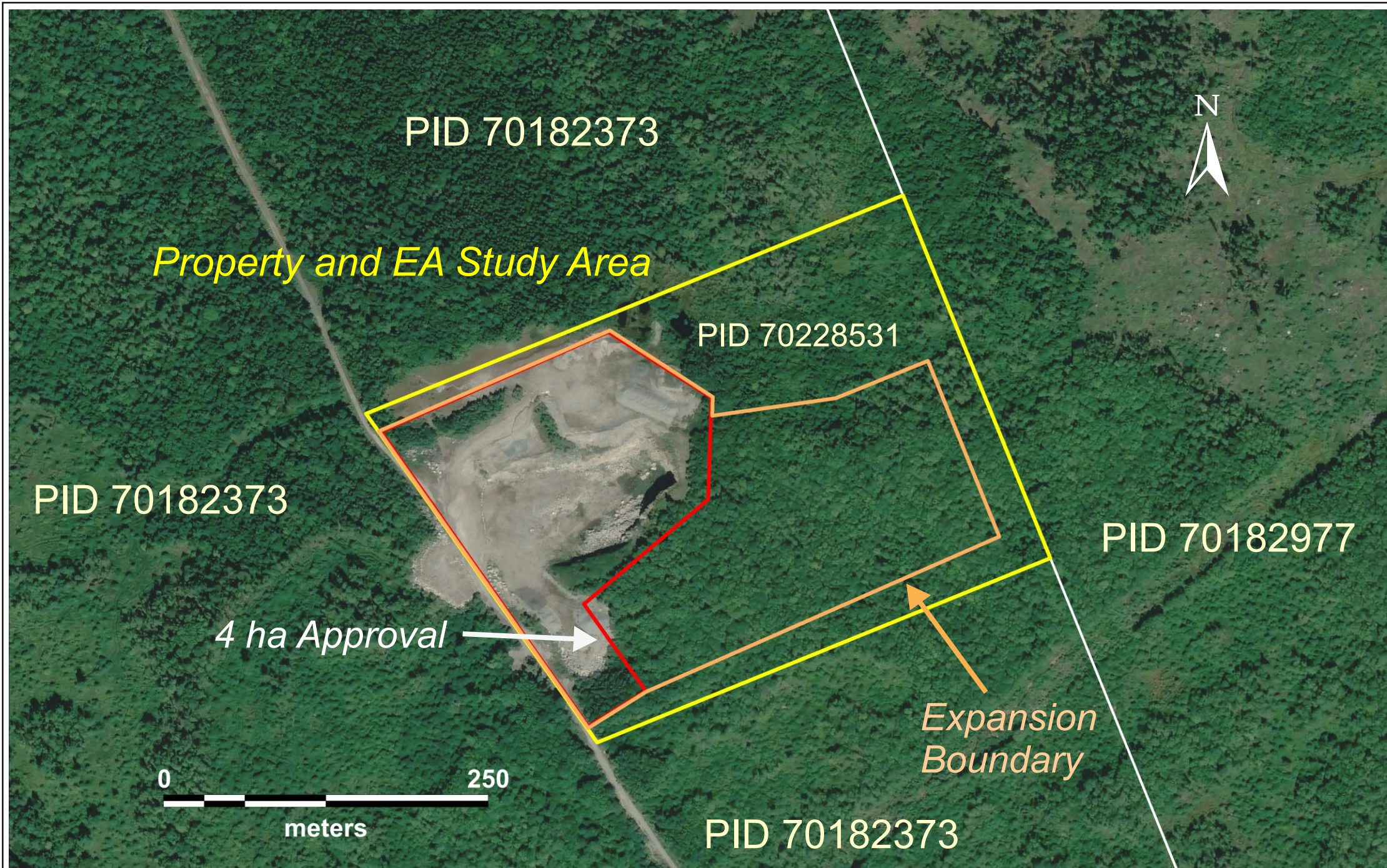
**DEXTER CONSTRUCTION COMPANY LIMITED,
MUNICIPAL ENTERPRISES LIMITED, AND
SOVEREIGN RESOURCES INC.**



David Wood
Chief Financial Officer

APPENDIX B
DRAWINGS

Environmental Assessment Registration Document:
Granite Village Quarry Expansion
East Port L'Hebert, Queens County
Nova Scotia



MUNICIPAL ENTERPRISES LIMITED
 GRANITE VILLAGE QUARRY EXPANSION
 Port Joli,
 Nova Scotia

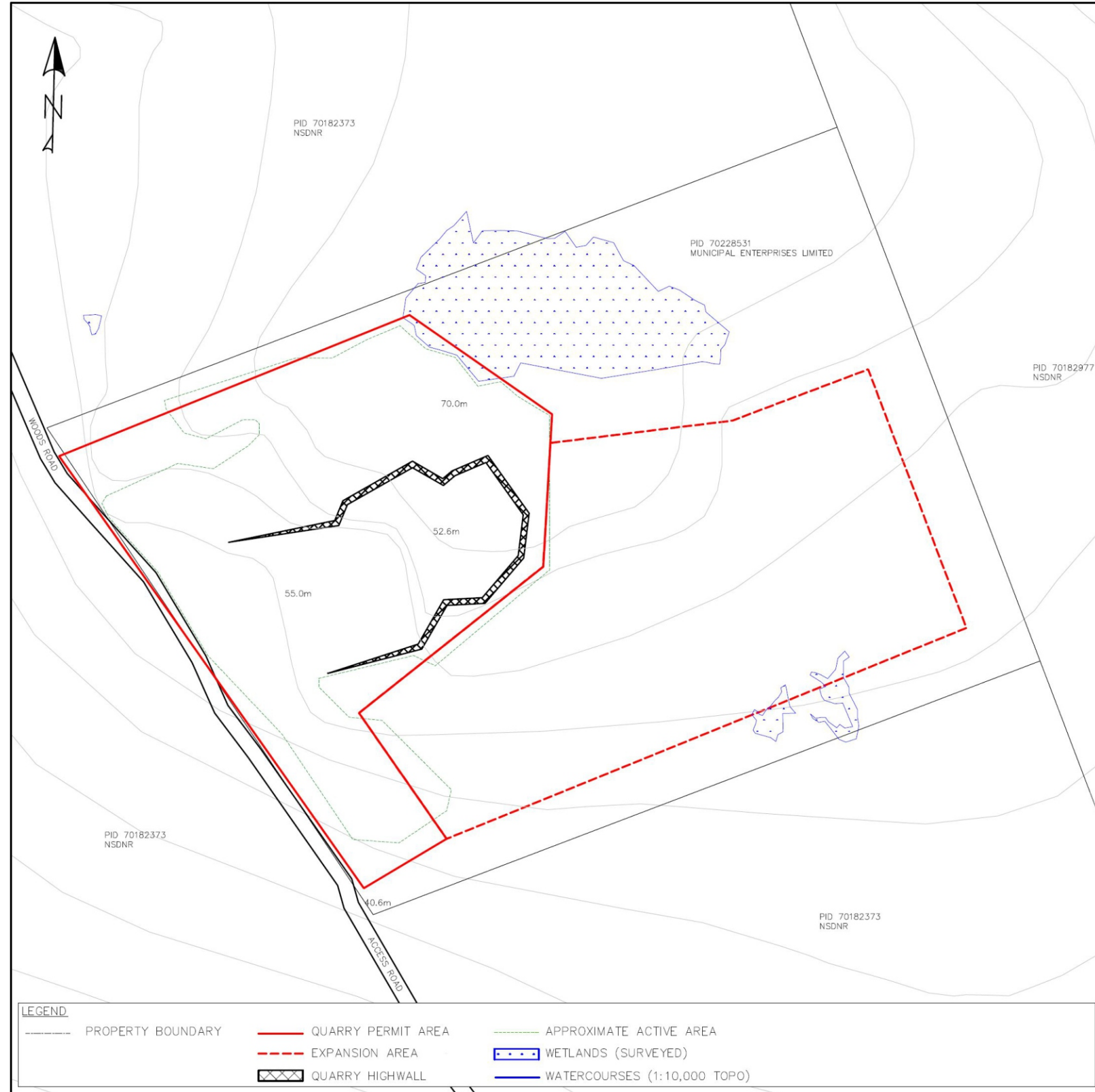
SITE DETAILS & PROPOSED
 EXPANSION AREA

Map by:
 Envirosphere Consultants Limited
 Windsor, Nova Scotia
 February 2023

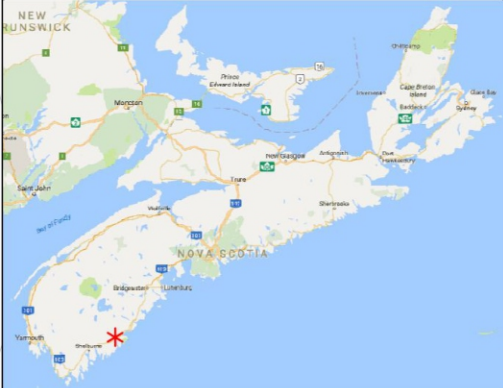
Air Photo: GoogleEarth.



**MUNICIPAL
 ENTERPRISES LTD**

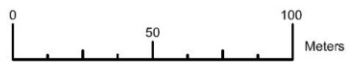


**GRANITE VILLAGE QUARRY
SITE PLAN**
QUEENS COUNTY, NOVA SCOTIA
DATE: FEB. 9, 2023 DRAWN BY: RHETT THOMPSON, P.ENG



NOTES:
TOPOGRAPHIC DATA OBTAINED FROM NS GEOMATICS CENTER 1:10,000 TOPOGRAPHIC MAP. TOPOGRAPHY LINES ARE AT 5 METER INTERVALS
PROPERTY BOUNDARIES SHOWN ARE AN APPROXIMATE GEOGRAPHICAL REPRESENTATION ONLY, OBTAINED FROM NOVA SCOTIA PROPERTY ONLINE, AND ARE SUBJECT TO A LEGAL BOUNDARY SURVEY FOR VERIFICATION.
SURVEY DATA COLLECTED ON NOVEMBER 21, 2021 (NO SITE ACTIVITY SINCE)

NOTE: THIS IS NOT A LEGAL SURVEY



LEGEND		
-----	PROPERTY BOUNDARY	—
-----	QUARRY PERMIT AREA	---
-----	EXPANSION AREA	---
-----	QUARRY HIGHWALL	---
-----	APPROXIMATE ACTIVE AREA	---
-----	WETLANDS (SURVEYED)	---
-----	WATERCOURSES (1:10,000 TOPO)	---

MUNICIPAL ENTERPRISES LIMITED
GRANITE VILLAGE QUARRY EXPANSION
Port Joli,
Nova Scotia

APPROVED QUARRY SITE PLAN



**MUNICIPAL
ENTERPRISES LTD**

Appendix B - Drawing 2

APPENDIX C
ROCK SULPHUR CONTENT ANALYSIS RESULTS

Environmental Assessment Registration Document:
Granite Village Quarry Expansion
East Port L'Hebert, Queens County
Nova Scotia

25-Jan-23

Dexter Construction
927 Rocky Lake Drive
P.O. Box 48100
Bedford, NS
B4A 3Z2
Atten: Chris Mullins

minerals.engineering.dal.ca
Tel: 902.497.3958
Email: mec@dal.ca

Re: Results of analysis on submitted samples.
Acid producing potential based on total sulphur, or sulphide sulphur content if available.

PO#
Job# 22001008-7610

Sample	Wt. %			kg H ₂ SO ₄ /t
	S(Total)	Sulphate	Sulphide	Acid Prod. Potential
Granite Village Quarry (January 18)	0.002			0.05

Certified Ref. Sa.	Wt. %
	S(Total)
KZK-1 (0.80% S)	0.803

Daniel Chevalier, MASc
Manager, Minerals Engineering Laboratory