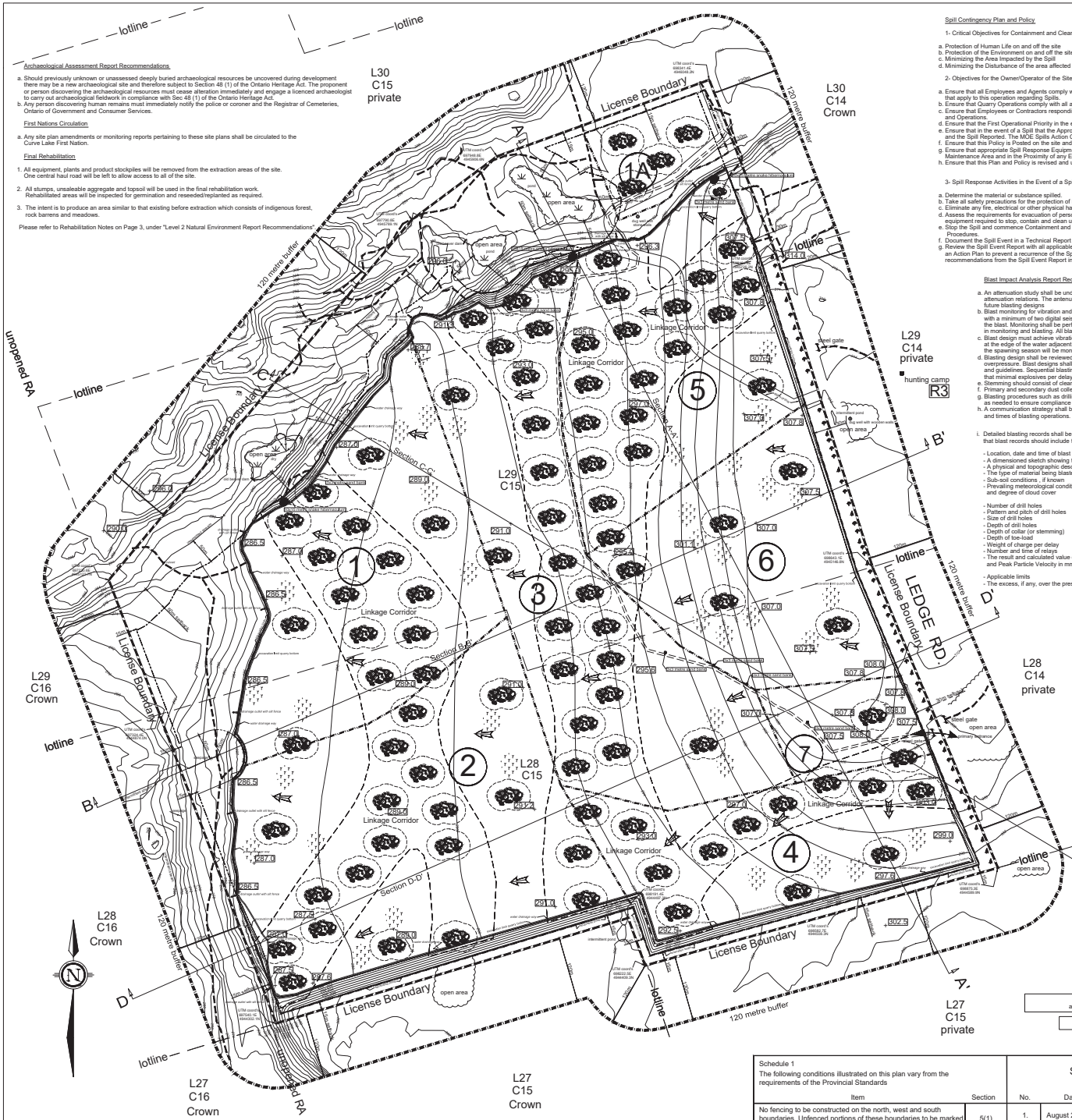


Archaeological Assessment Report Recommendations

a. Should previously unknown or unassessed deeply buried archaeological resources be uncovered during development there may be a new archaeological site and therefore subject to Section 48 (1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration immediately and engage a licenced archaeologist to carry out archaeological fieldwork in compliance with Sec 48 (1) of the Ontario Heritage Act.
b. Any person discovering human remains must immediately notify the police or coroner and the Registrar of Cemeteries, Ontario of Government and Consumer Services.

First Nations Circulation

a. Any site plan amendments or monitoring reports pertaining to these site plans shall be circulated to the Curve Lake First Nation.

Final Rehabilitation

1. All equipment, plants and product stockpiles will be removed from the extraction areas of the site. One central haul road will be left to allow access to all of the site.
2. All stumps, unsaleable aggregate and topsoil will be used in the final rehabilitation work. Rehabilitated areas will be inspected for germination and reseeded/replanted as required.
3. The intent is to produce an area similar to that existing before extraction which consists of indigenous forest, rock barrens and meadows.

Please refer to Rehabilitation Notes on Page 3, under "Level 2 Natural Environment Report Recommendations"

Spill Contingency Plan and Policy

1- Critical Objectives for Containment and Clean Up of Spills

a. Protection of Human Life on and off the site
b. Protection of the Environment on and off the site
c. Minimizing the Area Impacted by the Spill
d. Minimizing the Disturbance of the area affected during the clean up

2- Objectives for the Owner/Operator of the Site

a. Ensure that all Employees and Agents comply with all applicable regulations, permits, requirements and environmental laws that apply to this operation regarding Spills.
b. Ensure that Quarry Operations comply with all applicable laws, environmental regulations and other requirements regarding Spills.
c. Ensure that Employees or Contractors responding to a Spill are trained in Spill Response, Containment, and Clean Up Procedures and Operations.
d. Ensure that the First Operational Priority in the event of a Spill shall be the rapid clean up and restoration of the affected area.
e. Ensure that in the event of a Spill that the Appropriate Regulatory Agencies (MOE, MNR) are immediately contacted and the Spill Reported. The MOE Spills Action Centre is at 1-800-268-6060.
f. Ensure that this Policy is Posted on the site and in effect before Site Operations commence.
g. Ensure that appropriate Spill Response Equipment and Supplies are located on site, at any Fuel Storage Area, any Equipment Maintenance Area and in the Proximity of any Equipment that may require such Spill Response Equipment and Supplies.
h. Ensure that this Plan and Policy is revised and updated as required during ongoing Operations at the site.

3- Spill Response Activities in the Event of a Spill

a. Determine the material or substance spilled.
b. Take all safety precautions for the protection of Human Life at the Spill location.
c. Eliminate any fire, electrical or other physical hazards at the scene.
d. Assess the requirements for evacuation of personal at or around the Spill location if needed, and the requirements for personal and equipment required to stop, contain and clean up the Spill.
e. Stop the Spill and commence Containment and Clean Up Operations under the direction of Qualified Personnel using applicable Procedures.
f. Document the Spill Event in a Technical Report and submit to the appropriate Agencies.
g. Review the Spill Event Report with all applicable Employees and Contractors. Summarize contributing factors and prepare an Action Plan to prevent a recurrence of the Spill Event. Update the Spill Response Plan and Policy and incorporate any recommendations from the Spill Event Report into it.

Blast Impact Analysis Report Recommendations

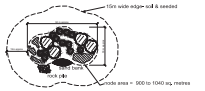
a. An attenuation study shall be undertaken to obtain sufficient quarry data for the development of site specific attenuation relations. The antenuation study will be used to confirm initial parameters and assist in developing future blasting designs
b. Blast monitoring for vibration and overpressure shall occur at or closer than the closest sensitive receptors with a minimum of two digital seismographs, one being located in front of the blast and one located behind the blast. Monitoring shall be performed by an independent third party engineering firm with specialisation in monitoring and blasting. All blasts shall be monitored.
c. Blast design must achieve vibrations less than 13mm/sec during the warm water spawning season at the edge of the water adjacent to the closest active spawning bed, to the blast. Blasts occurring during the spawning season will be monitored for ground vibration at the waters edge adjacent to the spawning bed.
d. Blasting design shall be reviewed on an ongoing basis with respect to fragmentation, ground vibration and overpressure. Blast designs shall be modified as required to ensure compliance with applicable regulations and guidelines. Sequential blasting techniques, decking and reduced hole diameters should be used to ensure that minimal explosives per delay initiated are employed.
e. Stemming should consist of clear crushed stone.
f. Primary and secondary dust collection systems shall be used on rock drills.
g. Blasting procedures such as drilling and loading shall be reviewed on an annual basis and modified as as needed to ensure compliance with industry standards and requirements.
h. A communication strategy shall be adopted to inform the surrounding population of the scheduled dates and times of blasting operations. A complaint procedure would form part of this program.

i. Detailed blasting records shall be maintained. MOE(1985) recommendations that blast records should include the following information:

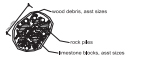
- Location, date and time of blast
- A dimensioned sketch showing the blast location and the nearest point of reception. Photos if needed should be included.
- A physical and topographic description of the ground between source and receptor location
- The type of material being blasted
- Sub-soil conditions , if known
- Prevailing meteorological conditions including wind speed in m/s, wind direction, air temperature in °C, and degree of cloud cover

- Number of drill holes
- Pattern and pitch of drill holes
- Size of drill holes
- Depth of drill holes
- Depth of collar (or stemming)
- Depth of toe-load
- Weight of charge per delay
- Number and time of relays
- The result and calculated value of Peak Pressure Level in dB and Peak Particle Velocity in mm/s

- Applicable limits
- The excess, if any, over the prescribed limit



Rehabilitation Node - Typical
NTS



Snake Hibernaculum - Typical
NTS

Notes describing Hydrogeological, Natural Environment and Acoustic Study conditions are located on Page 3 of 5.

Note: Cross Sections are located on Page 5 of 5.

Dewdney Mountain Farms Quarry

Legend

- License Boundary
- Lot Lines
- Setbacks
- 120 m perimeter line
- Fences
- All Weather Roads
- Main Haul Roads
- Logging roads, trails
- Entrance/Exit
- Gate
- Contour Lines (mASL)
- Contour Lines (mASL) Quarry Floor and Walls
- 307.8 Spot Elevations (mASL)
- Natural Bushlines
- Wetlands, Partially Treed
- Streams
- PR-01 Monitoring Wells
- Other Wells
- R5 Buildings/ Sensitive Receptor ID
- Rehabilitation Nodes (trees, shrubs, sand, rocks)
- Rehabilitation Linkage Corridor Limits
- Rehabilitation (planted grasses)
- Final Drainage Direction

Part Lot 28, 29 & 30, Con 15
Geographic Township of Harvey
in the
Municipality of Trent Lakes
(Formerly the Township of Galway-Cavendish and Harvey)
County of Peterborough

0 50 100 150 200
Metres

0 100 200 300 400 500
Feet

Scale 1:2500

NAD 83 T17

contour interval 2 metres

Final Rehabilitation Plan
Page 4 of 5

Quarry Licensed To:
Dewdney Mountain Farms Ltd.
543 Ledge Road
Trent Lakes, Ontario, K0M 1A0

revised May 1, 2020

Lakeview Engineering Inc.
433 Fire Route 42
North Ennerdale, ON. K0L 2H0
705-772-7910
lakeviewpeng@gmail.com

I acknowledge and shall carry on the operation of this site in accordance with the site plan upon which my license is based.

Paul Ritchie — Date

Site Plans Approved By:

Ministry of Natural Resources — Date

Schedule 1 The following conditions illustrated on this plan vary from the requirements of the Provincial Standards		Submissions/Site Plan Amendments			
Item	Section	No.	Date	Submission/Amendment	Approved by
No fencing to be constructed on the north, west and south boundaries. Unfenced portions of these boundaries to be marked with flagging and signs except within wetlands.	5(1)	1.	August 2009	First Site Plan Submission	
		2.	November 2011	Second Site Plan Submission	
		3.	Feb 25 2013	Peer Review Amendments	
		4.	Aug 19 2014	Revisions as shown at OMB hearing	