

Spills Response Plan

The following Spills Action and Chemical Containment Plan (SACCP) is intended to give direction on the prevention of spills of fuels or chemicals (i.e. hydraulic fluid, etc.) during the daily operations of a Category 2, Class Quarry Below Water located on Part of Lots 51 & 52 Concession WHR, Township of Faraday, County of Hastings.

The SACCP also intends to provide direction on how to proceed if an accidental release occurs.

All fueling activities will be in accordance with the Liquid Fuels Handling Code, Technical Standards and Safety Act, 2000, as amended.

Spill Prevention

1) The Spills Action Plan shall be kept on-site in an easily accessed location:

2) MSDS sheets for any chemicals present at the Site shall be kept in an easily accessible location and that the location of MSDS storage is noted in the Spills Action Plan.

3) Refueling and on-site equipment maintenance shall take place outside the active area (i.e. next to the scale house);

4) Fuels and lubricants shall be properly stored as required, including:

- Fuels: Stored above ground, in tanks designed for storage of fuels with secondary containment and protection from traffic (loadlids);
- Lubricants: Stored in accordance with manufacturers specifications, in a cool, dry location, away from the elements and traffic.

5) Storage tanks shall be regularly inspected for leaks.

6) Any temporary storage tanks will be double walled and fitted with a containment structure designed to contain 110% of the total volume of the container.

7) Refueling and equipment maintenance shall take place in a controlled area by portable tanker to ensure there is no contamination of the groundwater or surface water.

8) Spill response kits shall be maintained for each material in use and activity being performed, for example:

- Sorbent materials for small fueling spills;
- Hydrophobic sorbent booms where surface water is located in the vicinity of chemical or fuel storage;
- A skimming device, appropriate to the type of pollutant and media (soil, surface water, air) present;
- Drain covers/protectors to prevent pollutants from entering drainage networks;
- A diesel operated pump;
- Portable containers in accessible area.

9) Security measures shall be taken when the lubricants and fuels are not in use by staff, including:

- The pit gates shall be locked when the fuel and lubricant storage area is unattended; and
- That the pumps (on the fuel tanks) are locked when the fuel storage area is unattended.

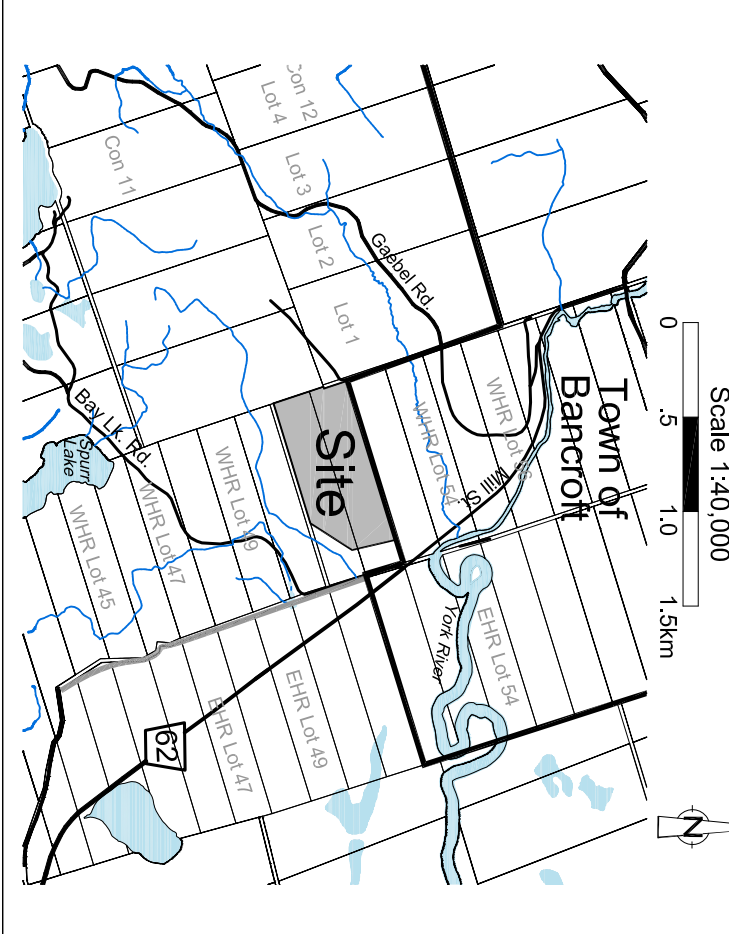
10) Management and staff shall conduct in-house spill response training for all staff that may be present in the event of a spill.

11) Management shall store the contact information of a spill response firm that is qualified to handle the compounds present at the Site for use in the event that the spill response cannot be handled in-house.

It is recommended that the following spills action plan to be implemented in the event of a spill:

- 1) Immediately stop the source of the spill (i.e. close valves, turn off pumps etc.), and contain/recover the material as much as possible. Contact help (co-workers, service providers, emergency services) if necessary to stop and contain the spill.
- 2) Contact the Ministry of the Environment Spills Action Centre (1-800-269-6060) and any other regulatory agencies (township, county, conservation authority) in the event that the spill has caused or is likely to cause an adverse effect to the natural environment.
- 3) Contact supervisors and the pit owner to inform them of the occurrence.
- 4) The pit owner and supervisors shall continue recovery procedures to recover as much of the pollutant as reasonably possible using in-house staff and equipment or by retaining the services of a qualified spill response firm.
- 5) Recovered contaminated soil, water and/or recovered fuel/lubricants shall be suitably stored in containers, bins or on tanks to prevent further loss of contaminants;
- 6) As soon as possible after a spill to the natural environment has occurred, the owner shall retain the services of a qualified Engineer to confirm that impacts to the natural environment have been mitigated and to complete any required environmental monitoring for potential impacts of the spill; and
- 7) The recovered materials (i.e. contaminated soil and water) will be disposed of by qualified personnel to an appropriate licensed facility prescribed by the Ministry of the Environment and Climate Change.

Location Map



Legend

- Boundary of Lands Owned by Applicant
- Proposed Licensed Boundary
- Proposed Extraction Limit
- Cross-Section
- Let Line
- Existing Building
- Existing Elevation
- Elevation of Phase 1 Floor
- Existing Elevation
- Elevation of Phase 2 Floor
- Phase 1 Direction of Extraction
- Phase 2 Direction of Extraction
- Proposed Entrance/Exit
- Proposed Berm - see detail pg 5 of 5
- Grubbing Stockpiles
- 1.2m Page Wire Fence on steel and wood posts
- Existing Road
- Extension of Existing Road
- Swale Grade Elevation
- Interim (Phase 1) Swale
- Permanent (Phase 2) Swale (Refer to dwg 3 for location and details)
- Class A Licence Category 2 Quarry Below Water

Freymond Aggregates

Operational Plan

Quarry, Licensed To:
Freymond Lumar Ltd
RR #1, 2281 Bay Lake Road
Bancroft, Ontario K0L 1C0

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

Applicant Name: _____ Date: _____

Site Plans Approved By: _____ Date: _____

Ministry of Natural Resources
Designed and Prepared By: _____ Date: _____



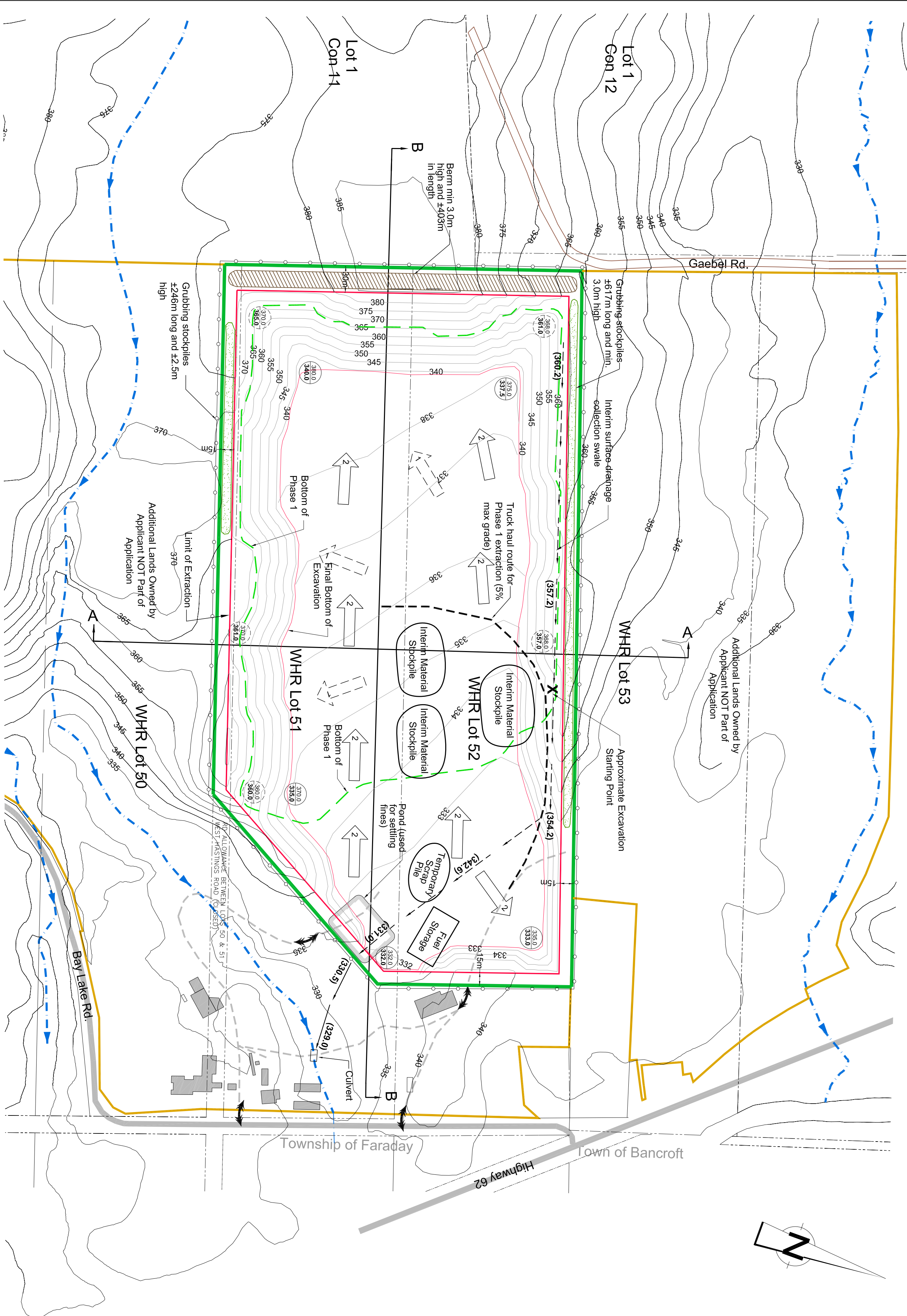
www.ecoviveconsulting.com

In Conjunction With



www.mtses.com
(Surface Drainage and Hydrogeology)

Date: _____



General Operational Notes:

Quarry Development Methodology

The quarry will be excavated in two horizontal lifts of approximately 25 metres in height. The upper lift will begin at existing ground elevation 357.0 metres (AMSL) at a distance of approximately 350 metres east of the northwest corner of the licensed area. An internal road will have to be constructed at a maximum grade of 2.0% for the safe haul of material. Movement of equipment and transport of fuel for the machinery. The haul road will be extended as required from elevation 357.0 metres at the northern side of the excavation southerly to an elevation of 351.0 metres to service the first phase platform.

From the starting point, excavation will proceed westerly and southerly simultaneously, progressing along a 1.0% grade each way to achieve a drainage from the site. The actual route of the excavation, a drainage collection swale will be removed from the site. As excavation takes place along the northern limit of the excavation, a drainage collection swale will be of the licensed area and surface into the scrub creek which will eventually outlet to the York River.

As the floor of the first horizontal lift is established and the limits of the first phase excavation are achieved, benching of the rock masses. The benching will be constructed as the rock face progresses westerly, at a height of 10.0 metres in width and a height of 5.0 metres. Upon completion of the removal of the first horizontal lift, the second horizontal lift will begin at elevation 332.0 metres (AMSL) available material from the east-west side of the licensed area to provide room for stockpiles. Scrap piles and/or final storage. Once this area has achieved its final grades and ensures drainage to the collection swale, attention may be focused on the removal of material in a westerly direction, again using the benchmark elevation of 332.0 metres (AMSL) and progressing westerly and southerly along an approximate grade of 1.0%.

As the limit of the floor excavation is reached, as indicated on the plan, benching will progress similar to the description above for the first phase. The benching will progress until the limits of excavation are achieved and all usable material has been removed from the site. At this point, stockpiles of topsoil, grubbing and unmarketable material may be used to create the final planting and seeding with a wildflower/native grass mixture may proceed to accomplish the final rehabilitation of the site.

Once the rehabilitation of the slopes has been accomplished, the water pools and vegetation nodes depicted for the floor of the work will complete the final rehabilitation of the site.

Groundwater Table - Water Diversion/Discharge
Extraction will take place below the established water table; however, the nature of the rock strata allows the groundwater table to be re-established along the finished elevation of the quarry floor.

Groundwater and surface water shall be collected in a swale to be constructed along the north boundary of each phase at floor south creek and eventually to the York River.

Fencing
There are currently no fences on the site. A 1.22 metre high page wire fence with steel and wood posts shall be constructed along the licensed area. The fence shall be provided at ingress/egress points. The installation of the fence will take place prior to the commencement of any rock excavation.

General Operational Notes: (continued)

Buildings and Structures

No new structures will be constructed on site for the purposes of the quarry operation.

Site Preparation, Grubbing, Stripping and Berms

There are no existing stockpiles of topsoil, overburden, tree debris, aggregate or scrap on the site.

The existing tree cover in the setbacks will provide screening for the operation. Initial operations within Phase 1 require deforestation in advance of the stripping operations in order to establish the required berms. Trees that require removal during the extraction operations will be utilized for saw log or firewood production. Tree stumps and slash will be temporarily stored in the berms to naturally decompose. Tree debris may be used for mulch during the rehabilitation process and/or used for backfilling purposes to rehabilitate the stepped quarry face and create the final Z:1 (H:V) slopes.

Topsoil and subsoil will be stripped separately and stored in berms (minimum 3.0 metres high) progressively around the extraction area limits to outline the area and create a buffer to the surrounding environment. The berms will assist in the rehabilitation of the materials to be used in the rehabilitative process and not for noise attenuation. Noise attenuation shall be accomplished using moveable barriers as described in the "Acoustic Assessment Report" (2013) prepared by Hugh Williamson Associates Inc.

Aggregate Stockpiling

In order to attenuate noise and provide visual screening, crushing and processing of the raw material including stockpiling will be maintained as close to the operating quarry face as possible and in accordance with the recommendations of the Acoustic Assessment Report. The maximum amount of aggregate to be extracted from this site will not exceed 400,000 tonnes annually, however, the actual tonnage will depend upon market conditions which may result in this amount being temporarily exceeded.

Dust Mitigation

Dust will be controlled on site. Water or other provincially approved dust suppressant will be applied to internal haul roads, processing and stockpile areas and equipment as often as required to control dust. Regular inspections of the site will be conducted during dry weather periods to identify potential dust emissions and determine the necessary mitigation measures to be applied.

Scrap

There are no existing scrap areas on the site. Any scrap resulting from the quarry operations will be collected and temporarily stored within the current operating phase in one location, or stored in the designated scrap area, and will be removed from the site on an ongoing basis. No scrap will be located within 30 metres of any licensed boundary.

Fuel Storage

No permanent fuel storage facilities will be located onsite. Temporary fuel storage facilities are located as shown on the site plan. All fueling activities will be in accordance with the Liquid Fuels Handling Code, Technical Standards and Safety Act (2000), as amended. Temporary storage tanks will be double walled or fitted with a containment structure designed to contain 110% of the total volume of the container. Fuel hoses on fuel storage tanks will be locked when unattended. Secondary containment measures will be provided for all fuel storage tanks. The hoses shall maintain a record of fuel deliveries noting the quantity and date of each transfer.

Site Plan Overlay		Site Plan Amendments	
The following conditions illustrated on these plans vary from the requirements of ROS 1990 Chapter 8, as provided for under Section 15, RPO 1990.		No.	Date
Item	Section	Submitter/Amendment	Approved By

Scale 1:3,000

