



Ministry of Northern Development, Mines, Natural  
Resources and Forestry

Township of Puslinch  
7404 Wellington Road 34  
Puslinch, ON N0B 2J0  
[www.puslinch.ca](http://www.puslinch.ca)

ERO Postings:  
No. 019-4363  
No. 019-4365

October 21, 2021

The Township of Puslinch Council, at its meeting held on October 13, 2021, discussed in depth St. Marys Cement Inc. Canada proposed changes to the conditions of their Aggregate Resource Act licences outlined in ERO postings No. 019-4363 and No. 019-4365.

Currently, St. Marys Cement Inc. Canada is not in compliance with their Operational Plan for Aggregate Resources Act (ARA) licence No. 625284 also known as the Neubauer Pit. The Operational Plan requires a conveyor system to be constructed under the municipal road allowance for the haulage of materials to the processing plant across the road to the north. Current operations include materials being hauled across the Township road via rock trucks. The Township has expressed serious concerns relating to health and safety of the travelling public, on-going infrastructure damage, maintenance and housekeeping of the road crossing, and overall non-compliance with the Operational Plan.

The Township of Puslinch is respectfully requesting that the Neubauer Pit operations related to haulage over the municipal road cease immediately until St. Marys Cement Inc. Canada comes into compliance with their Operational Plan.

Puslinch Council respectfully submits the attached comments related to the ERO postings No. 019-4363 and No. 019-4365 for your support and consideration.

CC:

Hon. Ted Arnett, [ted.arnottco@pc.ola.org](mailto:ted.arnottco@pc.ola.org)

Seana Richardson, Aggregates Technical Specialist, Guelph District Office, [Seana.Richardson@ontario.ca](mailto:Seana.Richardson@ontario.ca)

David Hanratty, North American Aggregates - Director of Land & Resources,  
[David.Hanratty@vcimentos.com](mailto:David.Hanratty@vcimentos.com)

Stephen May, CBM Aggregates | Lands Manager - Western Region, [stephen.may@vcimentos.com](mailto:stephen.may@vcimentos.com)



RE: Report ADM-2021-063 St. Marys Cement Inc. Canada – Proposed changes to the conditions of an ARA licence

Please be advised that Township of Puslinch Council, at its meeting held on October 13, 2021 considered the aforementioned topic and subsequent to discussion, the following was resolved:

**Resolution No. 2021-300:** Moved by Councillor Sepulis and  
Seconded by Councillor Bulmer

**THAT Council receives Report ADM-2021-063 regarding St. Marys Cement Inc. (Canada) - Changes to the conditions of a licence to operate a pit or quarry ERO No. 019-4363 and ERO No. 019-4365; and**

**Whereas it is necessary to ensure to the safety of users of Concession 2 which includes school buses; and**

**Whereas St. Mary's Cement Inc. utilizes trucks to transport gravel from a gravel pit on one side of Concession 2 to another gravel pit on the opposite side of the road; and**

**Whereas a nearby gravel pit uses a conveyor system to transport gravel from one side of the road to the other side; and**

**Whereas truck traffic crossing Concession 2 is likely to increase with the tonnage for the Neubauer Pit proposed to be increased to 1,250,000 tonnes, in combination with the adjacent Mast Pit; and**

**Whereas public traffic on the public road very likely has increased since the associated traffic study was undertaken in 2011; and**

**Whereas the Neubauer Pit Operational Plan dated December 2011 Note 13 requires that material be moved via a conveyor system with occasional processing at the face being transported via truck across the road; and**

**Whereas material has exclusively been trucked across the road contrary to Note 13 on the Operational Plan; and**



**Whereas a conveyor system has not been established to date;**

**Therefore be it resolved:**

**That the Township of Puslinch does not support the proposed ERO No. 019-4363 and ERO No. 019-4365 unless St. Mary's Cement Inc. complies with the current Neubauer Pit Operational Plan dated December 2011 including the requirement that material will be moved under the municipal road via a conveyor; and**

**Either St. Mary's Cement Inc. constructs and operates a conveyor system to transport gravel under Concession 2;**

**Or satisfactorily demonstrates to the Province with a technical justification report that it is not technically and safely feasible to construct and operate such conveyor system; and**

**Where a conveyor system is determined not feasible by the technical justification report, that an underpass or overpass be established to truck material across the municipal road;**

**And further, if the current operation must stay in place, that St Marys Cement is then**

- a) obligated to cover all costs associated with the installation of adequate markers, warnings, signage, and flag persons to the satisfaction of the Township for the duration of all extraction work to be in place and operating for all crossings which will take place; and**
- b) St. Marys Cement provide the Township with securities associated with rock trucks crossing the road in the amount of \$100,000 to be maintained and topped up on an annual basis to cover all costs associated with the maintenance and repair of the road crossing; and**
- c) That an updated traffic study be prepared and provided to the Township; and**
- d) That St. Marys Cement pays for a risk assessment and Health and Safety study to be undertaken by a Township consultant to determine the level of safety that must be provided pursuant to the traffic study; and**

**That St Marys Cement solely accept and assume all risk and liability associated with this crossing, including public traffic on the road; and**



**That the above noted justification and traffic reports be provided to the Township; and**

**That this resolution be provided to MPP Ted Arnott for his support in this matter.**

**CARRIED**

As per the above resolution, please accept a copy of this correspondence for your information and consideration.

Sincerely,  
Courtenay Hoytfox  
Municipal Clerk



## **REPORT ADM-2021-063**

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TO: Mayor and Members of Council

FROM: Courtenay Hoytfox, Municipal Clerk

MEETING DATE: October 13, 2021

SUBJECT: St. Marys Cement Inc. (Canada) - Changes to the conditions of a licence to operate a pit or quarry: ERO No. 019-4363 and ERO No. 019-4365

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### **RECOMMENDATION**

**THAT Council receives Report ADM-2021-063 regarding St. Marys Cement Inc. (Canada) - Changes to the conditions of a licence to operate a pit or quarry ERO No. 019-4363 and ERO No. 019-4365; and**

**That Council direct staff as follows \_\_\_\_\_**

### **PURPOSE**

The purpose of this report is to advise Council on the ERO postings No. 019-4363 and ERO No. 019-4365 in order to prepare comments for submission to the Ministry of Northern Development, Mines, Natural Resources and Forestry by the deadline of October 21, 2021.

### **DISCUSSION**

#### **Proposal summary by the Proponent**

St. Mary's Cement Inc. (Canada) seeks to increase the tonnage condition for the Neubauer Pit to 1,250,000 tonnes, in combination with the adjacent Mast Pit operating in the Township of Puslinch.

#### **Site location details**

ERO No. 019-4365

Township of Puslinch, County of Wellington.

North 1/2 Lot 26, Concession 1, Geographic Township of Puslinch.

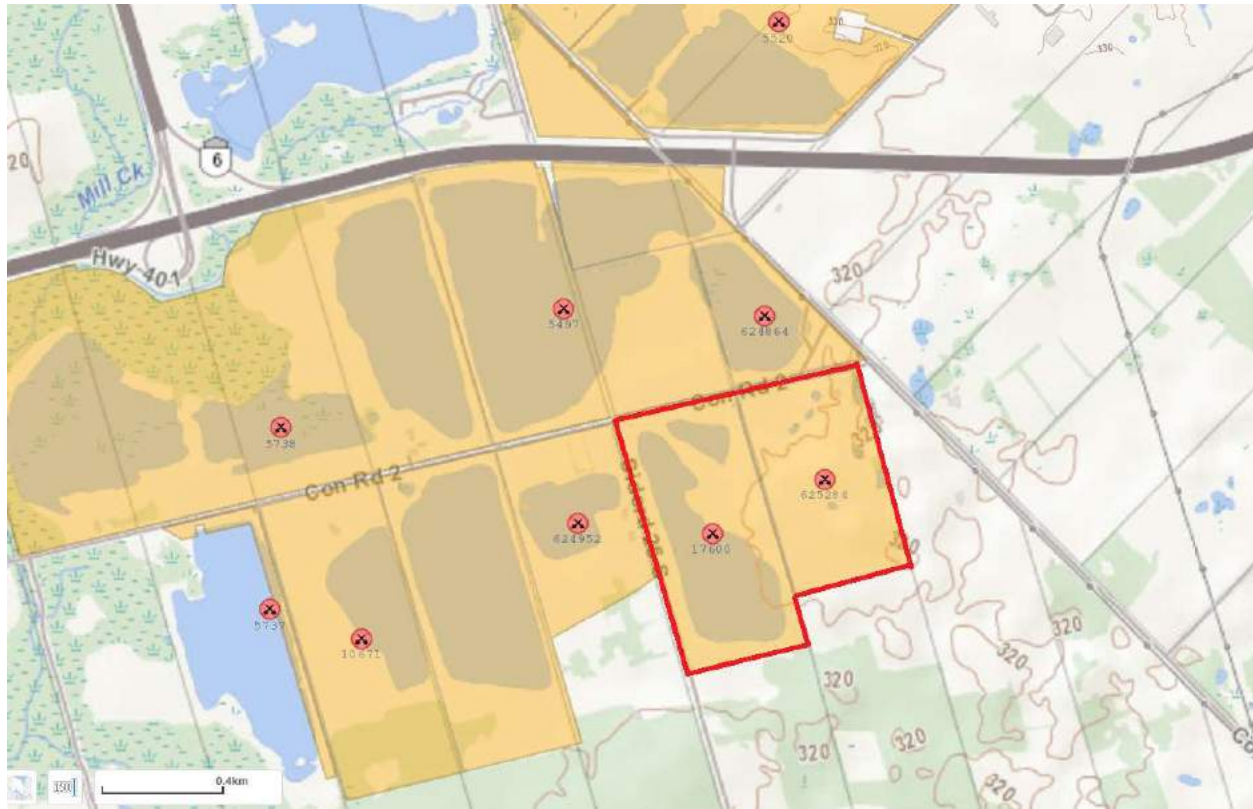
The site is authorized under Aggregate Resources Act (ARA) licence No. 17600. The site of the Mast Pit is 37.1 hectares in size. The site is adjacent to the west boundary of ARA licence No. 625284.

ERO No. 019-4363

Township of Puslinch, County of Wellington.

Part Lot 27, Concession 1, Geographic Township of Puslinch.

The site is authorized under Aggregate Resources Act (ARA) licence No. 625284. The site of the Neubauer Pit is 28.3 hectares in size. The site is adjacent to east boundary of ARA licence No. 17600.



It is staff's understanding that CBM St. Mary's Cement (Canada) is proposing to adjust their tonnage limits that will affect two of their licensed pits, which are known locally as the Neubauer Pit and the PQA (or Mast) Pit. It is understood that the Neubauer Pit has an annual tonnage limit of 750 000 and the PQA (Mast) Pit has an annual tonnage limit of 500 000. The license change for tonnage proposes to combined these two annual amounts (for a total of 1 250 000 annual tonnage) under one license.

Staff met with representatives from CBM on Thursday September 16, 2021 to discuss the proposal noted above. A number of questions and concerns were expressed by Township and County staff as follows:

1. Will the combined tonnage increase the actual amount of material being extracted? And therefore decrease the lifespan of either license?
2. How will the following impacts be addressed by CBM?
  - a. Safety concerns regarding increased heavy truck traffic frequency;
  - b. Safety concerns relating to interactions between public vehicles on a public road (particularly in an 80 km/hr. zone) and construction site vehicles;
  - c. Currently CBM has no warning signs, lights, flag people, etc. to help make the crossing safe – how will this be resolved?
  - d. Concession 2 is a school bus route and yet there is no signage or safety devices in place warning the public traffic of the construction vehicles crossing;
  - e. There is the ongoing concern of the impacts of the operation on municipal infrastructure, in particular the asphalt surface and gravel base which are being severely damaged due to high volumes and high weights associated with rock trucks. This represents a significant financial concern for the municipality;
  - f. Concession Road 2 is a daily commuter route for the Aberfoyle Industrial Park, where car counts can exceed 100 cars in the morning and afternoon daily as well as a school bus route;
  - g. Staff have received numerous weekly complaints about the condition of the road crossing. The complaints include mud, large rocks, and silt that is consistently left on the road each time a heavy hauler passes over the road crossing. This presents a serious safety risk to the travelling public as well as complaints related to maintenance and damage to vehicles;
  - h. The Dufferin Aggregate Pit just west on Concession 2 currently has an underground conveyor system that transports material under the municipal road from their pit on the south side of Concession 2 to the north pit. Why has this type of infrastructure not been installed by CBM to address many of the safety and housekeeping concerns raised?

CBM's response based on discussion from the September 16, 2021 meeting:

- It was discussed during the meeting that the combined tonnage would not extend the life of either pit; however it may decrease the life of either pit.
- The combined tonnage would not affect the existing extraction areas or depth of permitted extraction.
- In response to the concerns expressed at the meeting, CBM would be willing to add clean up and mitigation requirements for the road crossing as a condition of the combined tonnage request.
- CBM is not aware of any safety issues that have resulted between CBM's operations using the existing road crossing and other general road users. There are existing aggregate pits immediately adjacent to the road crossing on all sides. The closest residence is more than 500 m away.
- CBM considered the feasibility of converting the crossing to a conveyor at the time of licensing of Neubauer. At the time both options could potentially be used, however utilizing the trucks ended up being much more feasible given the short distance between the sites and the

processing plant and the upfront capital investment required for a conveyor system and tunnel beneath the road. This is why both options were approved as part of the licence. Now that Neubauer has been in operation for close to 4 years, and PQA has also been in operation for that time, there are insufficient remaining aggregate reserves at both sites to justify incorporating a conveyor system. Further, a conveyor system would require applicable road and occupancy permit(s) with no guarantees that they would be approved. By the time appropriate approvals and agreements are in place and assuming time for installation of the conveyor, there would be even fewer reserves remaining on both sites to justify this change. Lastly, the resource on Neubauer in particular is layered and some of the upper material has a higher silt and clay content in it. This material is extremely difficult to transport for processing via conveyor because of how the fine material sticks to the conveyor belt, especially in rain and colder conditions.

Further to the meeting with CBM, staff reached out to CBM, MNRF, and The Ontario Aggregate Resources Corporation (TOARC) to inquire about the production data for both sites. Staff were hoping to determine if the proposed combined tonnage amount could likely increase the actual production data (while still staying within the maximum tonnage amounts) and therefore intensify the concerns raised by staff. This information was not shared with staff; it was indicated that production data for individual sites is sensitive and cannot be disclosed.

The Zoning Amendment and Official Plan Amendment of the Neubauer Pit was appealed to the Ontario Municipal Board (OMB) and a decision on the appeal was issued on October 13, 2011. The decision makes note of the following:

*There are no new haulage routes necessary or proposed and while there is an entrance from the subject lands directly to Concession 2, it is the Applicant's intention to transport material from the site by truck or conveyor under the municipal road, to either the neighbouring pits to the north or west, for processing.*

A traffic study was completed as part of the OMB appeal. Staff reviewed the Neubauer Pit Operational Plan dated December 2011 (Plotted April 13, 2018) attached as Schedule "A" to this report. Note #13 on the Neubauer Pit Operational Plan makes reference to material haulage from the Neubauer pit going to either the McNally Pit or the Mast Pit via a conveyor under the existing municipal road. A copy of the note is included below:

*13. An Entrance/Exit has been proposed along Concession 2, this entrance will not be used for haulage of aggregate (refer to phase A note #1). At the present time it is intended that material will be moved from the property for processing at either the McNally Pit to the North or the Mast Pit to the West via conveyor under the existing municipal road (occasional processing at the face may occur and will be shipped via trucks using the Mast Pit Entrance/Exit). This will require additional studies and approval by the municipality which will be initiated once the license is issued.*

*A sign shall be placed at the truck Entrance/Exit reminding drivers of the presence of school buses on the road such as :*

*Attention All Drivers*



*Use Extra Caution when driving  
on these roads as they are also  
SCHOOL BUS ROUTES*

*Should at any time the proposed truck Entrance/Exit along Concession 2 be installed this license then a sign will be placed at the truck Entrance/Exit*

It is staff's understanding, that while the OMB decision notes, "transport material from the site by truck or conveyor under the municipal road, to either the neighbouring pit to the north or west, for processing", this was not the intent as stated in the operational plan that was subsequently approved in December 2011.

Staff recommend that the operational plan be adhered to with respect to a conveyor system being the primary method of transporting material, and form part of the comments submitted on behalf of the Township.

Staff have also provided a detailed summary to the Health and Safety Director at CBM with respect to the safety concerns raised above.

Below are photographs of a comparable operation just West on Concession 2 that uses a conveyor system:





Below are photographs of the road crossing at the CBM site on Concession 2 where no conveyor system is used:





**FINANCIAL IMPLICATIONS**

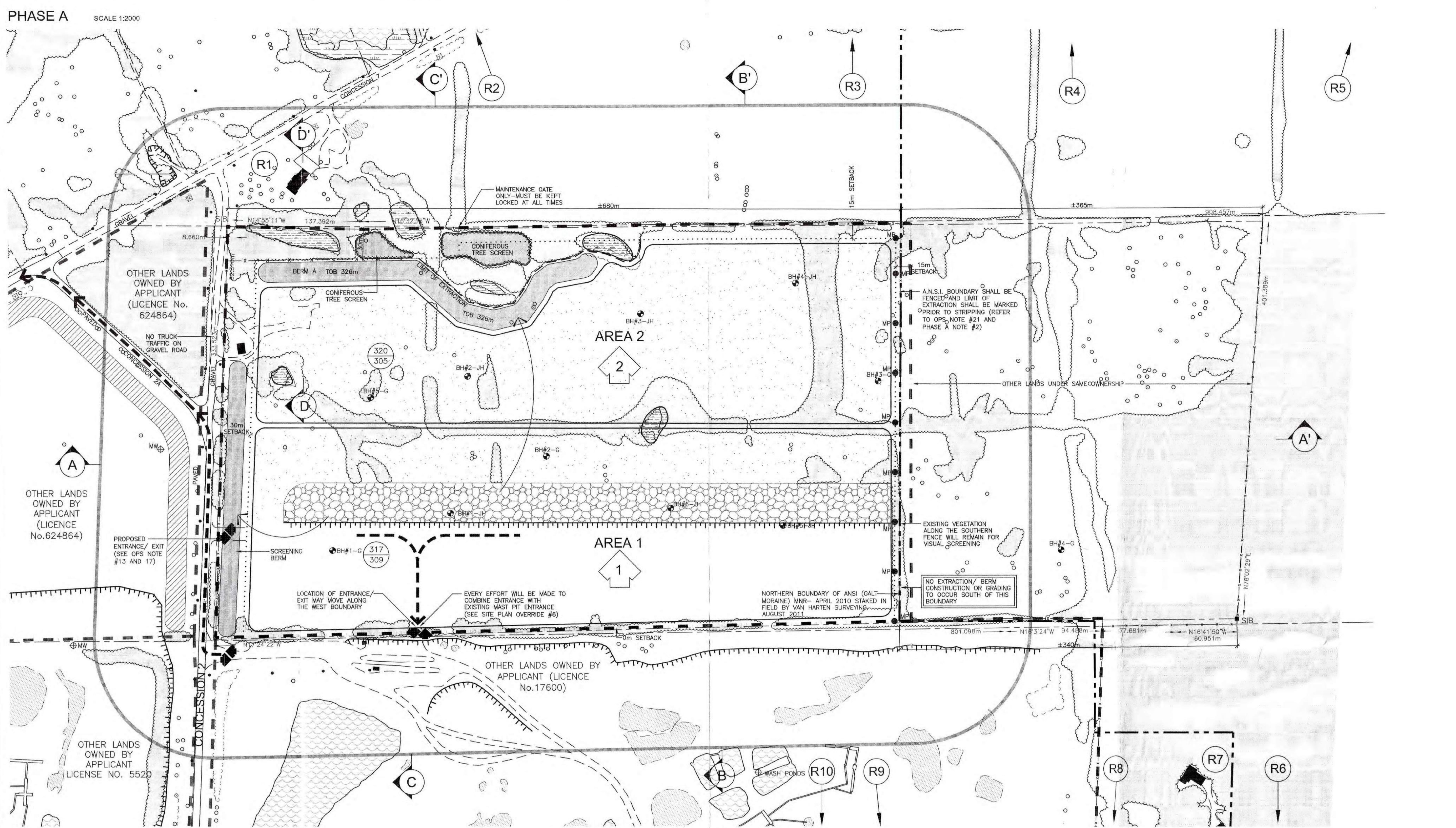
None

**APPLICABLE LEGISLATION AND REQUIREMENTS**

*Aggregate Resources Act*

**ATTACHMENTS**

Appendix "A" – Neubauer Pit Operational Plan



**PHASE A NOTES**

1. PROPOSED ENTRANCE ALONG CONCESSION 2 WILL NOT BE USED FOR HAULAGE OF AGGREGATE. REFER TO OPERATIONAL NOTE #12 (FUTURE APPROVAL WILL BE REQUIRED BY TOWNSHIP FOR PROPOSED ENTRANCE/EXIT ON CONCESSION 2 SHOULD IT BE UTILIZED).
2. PRIOR TO STRIPPING COMMENCING IN AREA 1, CONSTRUCT OR UPGRADE THE FENCING ON THE LICENCE BOUNDARIES TO THE STANDARDS OF THE AGGREGATE RESOURCES ACT. THE SOUTHERN EXTRACTION LIMIT (50m FROM A.N.S.I. BOUNDARY) WILL BE DEMARCATED WITH 1.2m HIGH POSTS AT 50m ON CENTRE. THE PERIMETER FENCING ADJACENT TO THE SOUTHERN LICENCE BOUNDARY WILL BE ERECTED AND MAINTAINED ON THE NORTHERN BOUNDARY OF THE A.N.S.I. THE NORTHEAST FENCE WILL BE OFFSET TO FOLLOW THE EAST SETBACK SOUTH TO THE LIMIT OF EXTRACTION AND THE IN WITH EXISTING BOUNDARY FENCE SOUTH OF THE WETLAND. A CONIFEROUS TREE SCREEN WILL BE PLANTED EAST OF BERM A USING WHITE PINE, EASTERN WHITE CEDAR, WHITE SPRUCE OR OTHER NATIVE SPECIES.
3. PREPARE SITE WITHIN AREA 1 BY REMOVING EXISTING TREES AND SCRUB VEGETATION IN THE AREA TO BE EXTRACTED. EXISTING HEDGEROW ALONG THE EASTERN LIMIT OF AREA 1 WILL REMAIN FOR SCREENING PURPOSES UNTIL EXTRACTION HAS REACHED THIS AREA. STRIP TOPSOIL AND OVERBURDEN SEPARATELY FROM AREA 1 AND USE THE MATERIALS TO CONSTRUCT ACOUSTIC BERM A AS SHOWN (REFER TO NOISE ASSESSMENT TECHNICAL RECOMMENDATIONS).
4. BEGIN DRY EXTRACTION IN AREA 1 MOVING IN AN EASTERLY DIRECTION (AS SHOWN). THE EXISTING SCALERS AND SCALES HOUSE ARE LOCATED IN THE ADJACENT CBM PIT (LIC NO. 17600). A PRIMARY CRUSHER WILL BE LOCATED NEAR THE PIT FACE FEEDING A CONVEYOR WEST TO THE EXISTING MAST PIT.
5. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION.
6. AREA 2 REMAINS IN AGRICULTURAL AND OPEN SPACE.

**TECHNICAL RECOMMENDATIONS**

THE FOLLOWING ARE THE TECHNICAL RECOMMENDATIONS FROM ALL OF THE EXPERTS' REPORTS AS OF OCTOBER 2019. ADDITIONAL RECOMMENDATIONS MAY BE INCLUDED AS A RESULT OF THE PRELIMINARY REVIEW PROCESS.

**NATURAL ENVIRONMENT LEVEL 1 - STATUS:**  
 ACOUSTICAL BERM IN THE AREA CLOSEST TO THE DRAINAGE SWALE IN THE NORTHEAST PART OF THE SITE WILL BE FENCED WITH FILTER CLOTH PRIOR TO CONSTRUCTION. FILTER CLOTH SHALL BE MAINTAINED UNTIL THE BERM IS COMPLETELY VEGETATED.

**ARCHAEOLOGICAL ASSESSMENT (STAGE 4) - ARCHAEOCORP INC:**  
 SHOULD BEYOND ARCHAEOLOGICAL MATERIAL BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE MINISTRY OF CULTURE AND HERITAGE SHOULD BE NOTIFIED IMMEDIATELY. IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, THE PROPRIETOR SHOULD IMMEDIATELY CONTACT BOTH THE MINISTRY OF CULTURE AND HERITAGE AND THE REGISTRY OF COMPULSORY REGISTRATION OF THE REGISTERS REGULATION UNIT OF THE MINISTRY OF CONSUMER AND COMMERCIAL RELATIONS (416) 326-8004.

**NOISE ASSESSMENT - AEROCUSTICS ENGINEERING LIMITED:**  
 DURING SITE PREPARATION FOR THE NEUBAUER PIT, EQUIPMENT WORKING AT OR NEAR THE SURFACE WILL RECEIVE MINIMAL ACQUISITION, INCLUDING A SIMILAR OPERATING SOUNDING REPORT. IN ORDER TO MINIMIZE THE NOISE ASSOCIATED WITH THESE ACTIVITIES, IT IS RECOMMENDED THAT:  
 • ALL EQUIPMENT SHOULD COMPLY WITH THE QUIETEST OPERATING IN PRODUCTION SPECIFICATIONS CONSTRUCTION EQUIPMENT WHICH DEFINE THE MAXIMUM NOISE LEVELS WHICH CONSTRUCTION EQUIPMENT MAY OMIT.  
 • PROPERTY LINE BERM SHOULD BE CONSTRUCTED AS SOON AS POSSIBLE DURING SITE PREPARATION AS TO PRODUCE THE SOUNDING RESISTANCE WITH SOME ACOUSTICAL SHIELDING OF THE REMAINING OVERBURDEN STRIPPING OPERATIONS.  
 THE NOISE CONTROL RECOMMENDATIONS ARE BASED ON THREE POTENTIAL OPERATIONAL SCENARIOS AS DESCRIBED BELOW.  
 SCENARIO 1: MATERIAL IS TRANSPORTED OFF-SITE BY CONVEYOR. A PRIMARY CRUSHER IS LOCATED AT THE CONVEYOR FEED TO CRUSH OVERBURDEN MATERIAL.  
 SCENARIO 2: MATERIAL IS TRANSPORTED OFF-SITE BY HIGHWAY TRUCK (LOAD HAUL OPERATION).  
 SCENARIO 3: AGGREGATE PROCESSED IN THE NEUBAUER PIT WITH PORTABLE CRUSHING/SCREENING EQUIPMENT WITH DIRECT SHIPMENT TO MARKET.

1. IN ADDITION TO THE PROCESSING EQUIPMENT PRIMARY CRUSHER IN SCENARIO 1, PORTABLE CRUSHING/SCREENING EQUIPMENT IN SCENARIO 2 AND EXISTING WHEELS FURTHER PROCESSING ARE OUTLINED BELOW. THE EXTRACTION EQUIPMENT OPERATING IN THE PIT SHALL NOT EXCEED 2 TONNES PER HOUR AND FROM STOCKPILES FOR DIRECT SHIPMENT TO MARKET (SCENARIO 3) SHALL BE RESTRICTED TO 06:00-19:00. PRIOR TO 07:00, ONLY ONE SHIPPING LOADER MAY OPERATE.

2. EXTRACTION AND PROCESSING OPERATIONS IN THE PIT SHALL BE RESTRICTED TO THE DAYTIME HOURS 07:00-19:00. SHIPPING FROM PRODUCT STOCKPILES AND FROM PIT FACE VIA HIGHWAY TRUCK (SCENARIO 2) AND FROM STOCKPILES FOR DIRECT SHIPMENT TO MARKET (SCENARIO 3) SHALL BE RESTRICTED TO 06:00-19:00. PRIOR TO 07:00, ONLY ONE SHIPPING LOADER MAY OPERATE.

3. AN ACOUSTICAL BERM (BERM A) IS REQUIRED ALONG THE EAST PERIMETER OF THE PIT AS INDICATED ON OPERATIONS PLAN. THE MINIMUM TOP OF BERM ELEVATION IS SPECIFIED. BERM A SHALL BE CONSTRUCTED PRIOR TO EXTRACTION PROCESSING OPERATIONS IN THE PIT.

4. THE DIRECTION OF EXTRACTION SHALL BE WEST TO EAST AS INDICATED ON THE OPERATIONS PLAN. THE WORKING FACE SHALL PROGRESS AS A BROAD FRONT WITH EXTRACTION PROGRESSING RELATIVELY UNIFORMLY ACROSS BREADTH OF THE PIT. IN ALL AREAS OF THE PIT, THE DEPOSIT ABOVE THE WATER TABLE SHALL BE EXTRACTED TO A CLOSE APPROXIMATELY 1.5 METRES ABOVE THE WATER TABLE. A BERM SHALL BE KEPT AT THE TRUCK ENTRANCE/EXIT READING ROOMS OF THE PRESENCE OF SCHOOL BUSES ON THE ROADS SUCH AS:

EQUIPMENT	SOUND LEVEL LIMIT (dBA) (ONE HOUR)	dB(A)
PRIMARY CRUSHER (CONVEYOR)	81	81
PORTABLE CRUSHING/SCREENING EQUIPMENT	87	87
LOADER (EACH)	74	74
DRAG LINE (ON EXCAVATOR)	75	75

5. ALL PROCESSING EQUIPMENT PRIMARY CRUSHER IN SCENARIO 1, PORTABLE CRUSHER & SCREENING EQUIPMENT IN SCENARIO 2 AND ALL PRODUCT STOCKPILES SHALL BE LOCATED ON THE ULTIMATE PIT FLOOR (ELEVATION OF 430M A.S.L.).

6. PROCESSING ON SITE OF CUSTOM PRODUCTS USING PORTABLE CRUSHING AND SCREENING EQUIPMENT (SCENARIO 3) SHALL NOT BE CONCURRENT WITH THE USE OF A PRIMARY CRUSHER AT THE FACE (SCENARIO 1).

7. IN SCENARIO 1, THE PRIMARY CRUSHER AT THE CONVEYOR FEED SHALL REMAIN WITHIN 25 METRES OF THE LOWER FACE (MIN. HEIGHT 7 METRES) AND WITHIN 10 METRES OF THE UPPER FACE (MIN. HEIGHT 1.5 METRES). WHILE EXTRACTION IN THE RESTRICTED AREA IN THE VICINITY OF R1, ONLY ONE EXTRACTION LOADER IS PERMITTED.

8. CONCENTRATOR ABOVE AND BELOW WATER EXTRACTION IS PERMITTED EXCEPT WHILE THIS EXTRACTION IS IN THE VICINITY OF RESIDENCES AS INDICATED ON THE OPERATIONS PLAN. THE EXTRACTION EQUIPMENT OPERATING IN THE PIT SHALL NOT EXCEED 2 TONNES PER HOUR AND ONE DRAG LINE OR EXCAVATOR. WHILE EXTRACTION IN THE RESTRICTED AREA IN THE VICINITY OF R1, ONLY ONE EXTRACTION LOADER IS PERMITTED.

9. IN ORDER TO OPERATE THE PRIMARY CRUSHER IN THE SOUTHWEST CORNER OF THE PIT AS INDICATED ON THE OPERATIONS PLAN, A LIMIT OF THE COMMON SETBACK WITH THE PERIMETER FENCING AS DEFINED ON THE OPERATIONS PLAN MUST REMAIN IN PLACE.

10. DURING ON-SITE PROCESSING OF CUSTOM PRODUCTS (SCENARIO 3), ONLY ONE LOADER MAY BE USED FOR SHIPPING PURPOSES. PROCESSING OF CUSTOM PRODUCTS IS PROHIBITED WHILE EXTRACTION IS IN THE VICINITY OF RESIDENCES AS INDICATED ON THE OPERATIONS PLAN.

11. THE PORTABLE PROCESSING EQUIPMENT MUST BE SHELDED FROM THE SURROUNDING RESIDENCES BY A LOCAL BARRIER SPECIFIED IN THE TABLE BELOW. THE BARRIER SHALL CONSIST OF THE DEPOSIT (WORKING FACE) WHERE POSSIBLE. A BERM CONSTRUCTED ON TOP OF THE BARRIER CAN BE USED TO AUGMENT THE BARRIER (FACE) WHERE REQUIRED. THE MAXIMUM BARRIER HEIGHT SHALL BE THE MAXIMUM ALLOWABLE DISTANCE FROM THE EQUIPMENT TO THE TOP OF THE DEPOSIT WHEN MEASURED IN THE DIRECTION OF THE RESIDENCE.

PORTABLE PROCESSING EQUIPMENT - LOCAL BARRIER REQUIREMENTS	EQUIPMENT DISTANCE (METRES)	MINIMUM BARRIER HEIGHT (METRES)	MAXIMUM BARRIER DISTANCE (METRES)
R1	<400m RESIDENCE	12	30
	350-600m RESIDENCE	10	50
	>600m RESIDENCE	10	50
R2	<400m RESIDENCE	10	50
	>400m RESIDENCE	10	50
R5	<200m SOUTH PL.	10	40
	200m SOUTH PL.	-	-
R6/R7	<400m RESIDENCE	-	30
	>400m RESIDENCE	-	30
R8	<400m RESIDENCE	7 (5)	75 (50)
	>400m RESIDENCE	-	-
R8/R9	<150m WEST PL.	7 (5)	75 (50)
	>150m WEST PL.	-	-

12. THE NOISE CONTROL RECOMMENDATIONS DURING EXTRACTION AND SHIPPING OPERATIONS SHALL BE AS ABOVE AS RELATES TO NOISE CONTROL. THE BARRIER SHALL BE EVALUATED BY A QUALIFIED ACOUSTICAL CONSULTANT FOR COMPLIANCE WITH THE RELEVANT NOISE CRITERIA.

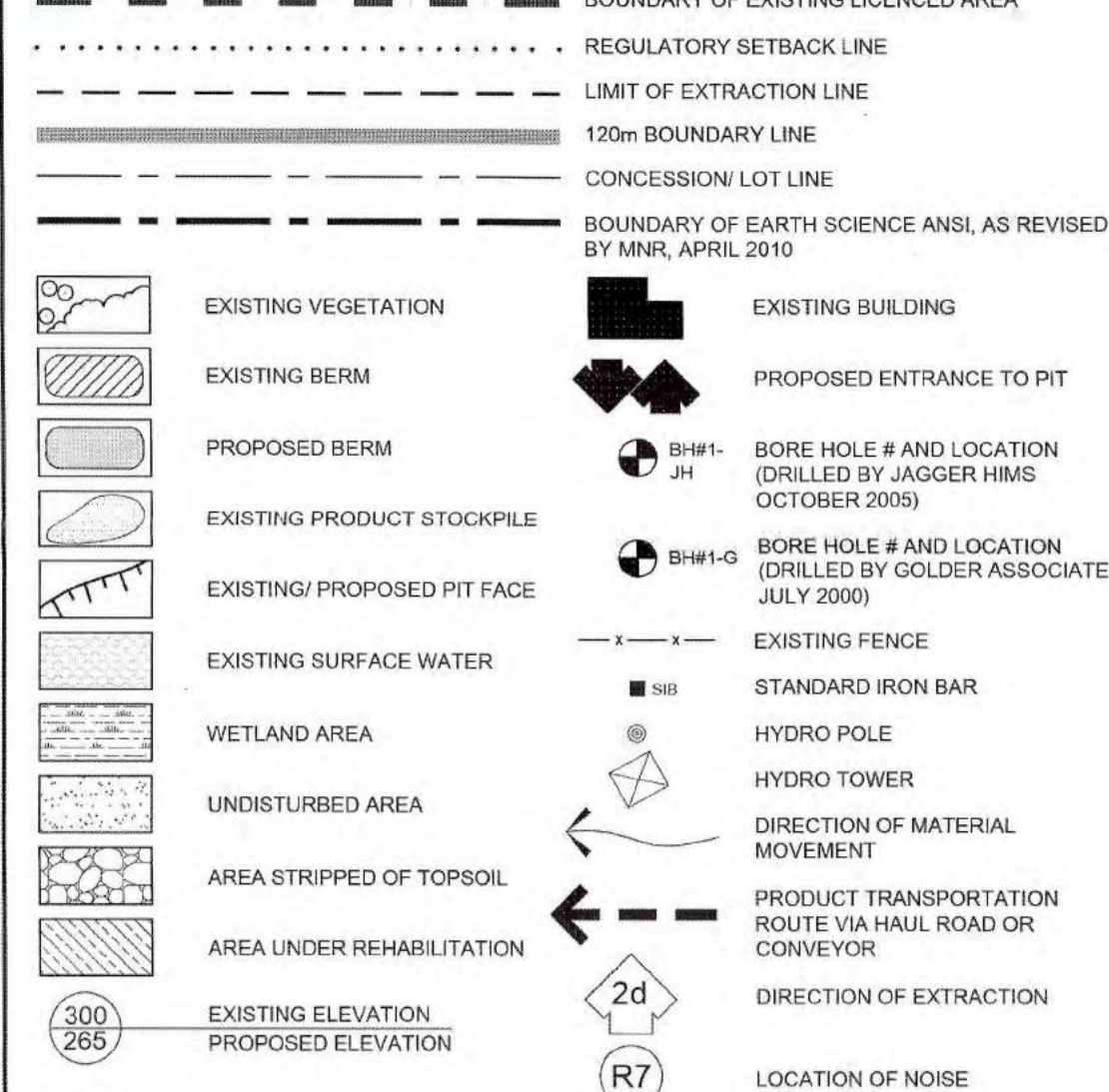
13. ANY PROPOSED CHANGES TO THE ASPECTS OF THE EXTRACTION, PROCESSING AND SHIPPING OPERATIONS DEVIATE WITH ABOVE AS RELATES TO NOISE CONTROL SHALL BE REVIEWED BY A QUALIFIED ACOUSTICAL CONSULTANT FOR COMPLIANCE WITH THE RELEVANT NOISE CRITERIA.

**DUST MANAGEMENT PLAN - GOLDER ASSOCIATES:**  
 A DUST MANAGEMENT PLAN SHALL BE DEVELOPED TO LIMIT THE IMMISSION OF PARTICULATES AT THE PROPOSED NEUBAUER PIT. A STANDARD CONSENTMENT FORMAT SHALL BE DEVELOPED THAT WILL ALLOW THE PIT MANAGERS TO DEMONSTRATE EARLY AND UPON REQUEST OF THE MOC OR OTHER REGULATORY AGENCIES, THAT THE DUST MANAGEMENT PLAN IS IN PLACE AND IS BEING FOLLOWED.

**HYDROGEOLOGICAL ASSESSMENT - SLOPOT HYDROGEOLOGY INC. AND GROUNDWATER SCIENCE COPT.**  
 THE FOLLOWING MONITORING, MITIGATION AND CONTINGENCY PLAN IS DEVELOPED FOR THE SITE:  
 1. NO SUBSTANTIAL ACCUMULATION OF FINE GRAINED MATERIALS (SILT OR CLAY) SHALL OCCUR AT SITE WITHOUT ADDITIONAL HYDROGEOLOGICAL INVESTIGATION, AS OUTLINED IN THE MITIGATION AND CONTINGENCY PLAN.  
 2. PRIOR TO BELOW WATER TABLE EXTRACTION AT THE SITE TWO NEW WATER TABLE MONITORING WELLS SHALL BE INSTALLED, ONE AT THE EAST PERIMETER BOUNDARY AND ONE AT THE SOUTH PERIMETER BOUNDARY.  
 3. THE WATER LEVEL MONITORING PROGRAM SHALL CONSIST OF MONTHLY MEASUREMENTS AT BH1, BH2 (UNITS DESTROYED), BH3 (UNITS DESTROYED), BH4, BH5, THE MCHALL EAST MONITOR EAST 1, THE PULSICH PIT MONITOR PIT, AND THE NEUBAUER POND MONITOR (AFTER INSTALLATION AS ACCESSIBLE). IF ANY OF THE PERMITTER MONITORS ARE DESTROYED OR DAMAGED THEY SHALL BE REPLACED OR REPAIRED.  
 4. DURING THE FIRST YEAR OF BELOW WATER TABLE EXTRACTION WATER LEVELS, MONITORS AT PERMETER WELLS SHALL BE COMPLETED EVERY TWO WEEKS DURING THE EXTRACTION.  
 5. MONTHLY MONITORING PROFILES AT THE PERMETER MONITORING WELLS SHALL OCCUR FOR TWO YEARS PRIOR TO BELOW WATER EXTRACTION WITH MEASUREMENTS TAKEN AT 1 M DEPTH INTERVALS. ONCE BELOW WATER TABLE EXTRACTION HAS BEGUN QUARTER MONITORING CONTINUED. TEMPERATURE PROFILES (TEMPERATURES OBTAINED AT 1 M INTERVALS) IN THE PERMETER MONITORING WELLS SHALL BE COMPLETE.  
 6. THE MONITORING RESULTS AND ANY MITIGATION OR CONTINGENCY PLAN MEASURES UNDERTAKEN DURING EACH OPERATIONAL YEAR, SHALL BE SUBMITTED ON AN ANNUAL REPORT PROVIDED TO THE TOWNSHIP OF PULSICH, GRCA AND MNR.  
 7. TRIGGER LEVELS, CONSIDERING EXISTING CROSS SITE HYDRAULIC GRADIENTS, SHALL BE DEVELOPED TO THE SATISFACTION OF MNR, IN CONSULTATION WITH GRCA AND THE TOWNSHIP OF PULSICH AS NEEDED, PRIOR TO BELOW WATER TABLE EXTRACTION.  
 8. THE FOLLOWING MITIGATION AND CONTINGENCY PLAN SHALL BE ADOPTED:  
 - INITIAL TRIGGER LEVEL EXCEEDED - THE TOWNSHIP, GRCA AND MNR SHALL BE NOTIFIED IMMEDIATELY AND MNR SHALL BE NOTIFIED IMMEDIATELY AND EXTRACTION BELOW THE WATER TABLE SHALL BE STOPPED UNTIL THE NEUBAUER POND SURFACE WATER ELEVATION IS GREATER THAN THE INTERMEDIATE TRIGGER LEVEL FOR SEVEN (7) CONSECUTIVE DAYS.  
 - FINAL TRIGGER LEVEL EXCEEDED - THE TOWNSHIP, GRCA AND MNR SHALL BE NOTIFIED IMMEDIATELY AND EXTRACTION BELOW THE WATER TABLE SHALL CEASE UNTIL THE NEUBAUER POND SURFACE WATER ELEVATION IS GREATER THAN THE INTERMEDIATE TRIGGER LEVEL FOR SEVEN (7) CONSECUTIVE DAYS.  
 ADDITIONAL MITIGATION MEASURES, SUCH AS BELOW WATER TABLE EXTRACTION OF THE GROUNDWATER TABLE (SILT OR CLAY) ALONG THE PERIMETER OF THE POND, WILL BE EVALUATED AS NEEDED IN RESPONSE TO THESE TRIGGER EXCEEDANCES. NO MITIGATION MEASURES BELOW WATER TABLE EXTRACTION SHALL BE UNDERTAKEN PRIOR TO APPROVAL FROM MNR, IN CONSULTATION WITH GRCA AND THE TOWNSHIP OF PULSICH AS NEEDED.

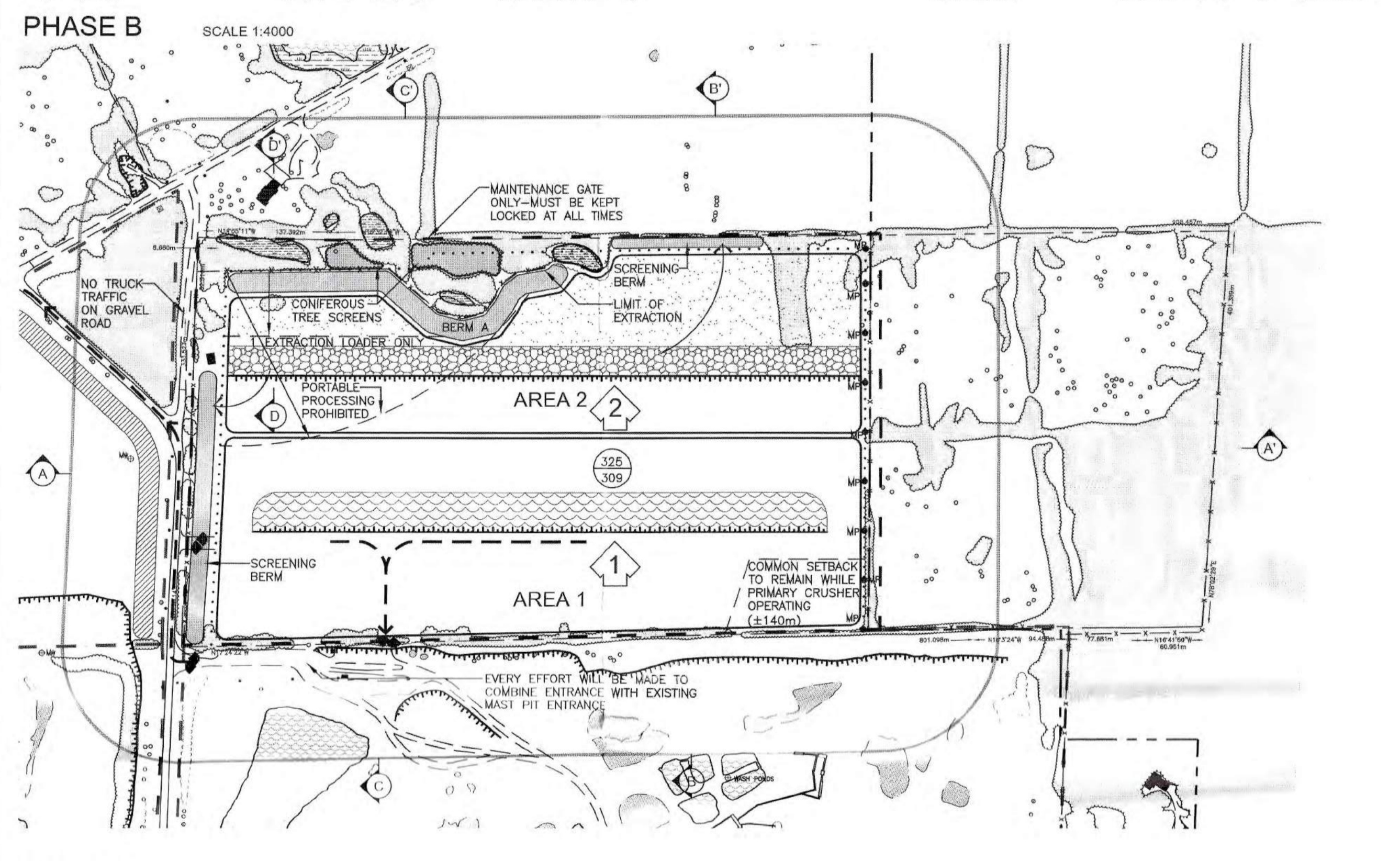
NOTWITHSTANDING THIS CONDITION, WHERE THE IMPROVED MATERIAL IS NOT BEING PLACED WITHIN 1.5 METRES OF THE SURFACE, THE CRITERIA NAMED IN TABLE 1 FOR SODIUM ADSORPTION RATIO AND ELECTRICAL CONDUCTIVITY DO NOT HAVE TO MET.

**LEGEND**



**NOTES**

- GENERAL INFORMATION**
1. THIS PLAN PERSPECTIVE A SCHEMATIC OPERATIONS AND REHABILITATION SEQUENCE FOR THIS PROJECT BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION. PHASES SHOWN ARE OPERATIVE AND NOT NECESSARILY IN SEQUENCE. PHASES DO NOT REPRESENT ANY SPECIFIC OR EQUAL TIME PERIOD. EXTRACTION SHALL GENERALLY FOLLOW THE RESOURCES ACT AND THE OPERATIONS PLAN. REHABILITATION OF AN AREA IS POSSIBLE IF SHALL BE CARRIED OUT, NOT WITHSTANDING THE EXTRACTION AND REHABILITATION PROCESS. ABOVE BOARD OR CERTAIN MATERIALS MAY REQUIRE SOME SEQUENTIAL EXTRACTION AND REHABILITATION PHASING. ANY MAJOR DEVIATIONS FROM THE OPERATIONS SEQUENCE SHOWN WILL REQUIRE APPROVAL FROM MNR.
2. REFER TO DRAWING 1 OF 3, EXISTING FEATURES, FOR A DESCRIPTION OF EXISTING VEGETATION AND BUILDINGS WITHIN THE 50 METRE BOUNDARY AND ON SITE.
3. SITE PLAN OVERRIDE ARE LISTED IN THE SITE PLAN OVERRIDE TABLE ON THIS PAGE.
- RESOURCE INFORMATION**
4. RESOURCE INFORMATION IS INTERPOLATED FROM TEST PITS, COMPLETED DURING MARCH 1998, MARCH 2001 AND BOREHOLE LOGS DATED IN APRIL 2000 AND A GEOTECHNICAL REPORT BY JAGGER HIMS DATED JANUARY 2008.
- EXTRACTION/PROCESSING/HAULING INFORMATION**
5. TOTAL AREA TO BE EXTRACTED IS 34.8 HECTARES.
6. MAXIMUM NUMBER OF TONNES OF AGGREGATE TO BE REMOVED FROM THE SITE IS ANY CALENDAR YEAR IS 75,000 TONNES.
7. PROPERTY LINE BERM SHOULD BE CONSTRUCTED AS SOON AS POSSIBLE DURING SITE PREPARATION AS TO PRODUCE THE SOUNDING RESISTANCE WITH SOME ACOUSTICAL SHIELDING OF THE REMAINING OVERBURDEN STRIPPING OPERATIONS.
8. MATERIAL FROM OTHER LICENCED PROPERTIES (E.G. SAND) MAY BE IMPORTED INTO THE SITE FOR BLENDED AND ON SITE PRODUCTS.
9. MATERIAL FROM RELOCATED BUILDINGS TO BE REMOVED LOCATED WITHIN AREA 2, NON-HIT DEBRIS FROM BLENDED GRANULATION WILL BE REMOVED OFF-SITE TO RECYCLED OR STEEL TO BE TAKEN TO AN APPROVED DISPOSAL SITE. CLEAN HEAVY METALS (INCLUDING THE STANDARD MUD OILS) FOR FULLY SUCH AS PROTECTIVE COATINGS AND WASTES FROM BLENDED GRANULATION WILL REMAIN ON-SITE FOR RECYCLING OR DISPOSAL AT APPROVED WASTE SITES.
10. IF THERE ARE ANY GASKET WASHING BONES OF IMPACT TO SURROUNDING GROUNDWATER USERS THAT IS ATTRIBUTED TO BELOW WATER OPERATIONS THEN REFER TO TECHNICAL RECOMMENDATIONS FOR PROTECTION.
11. THERE MAY BE RECYCLING OF MATERIAL, ASPHALT AND CONCRETE ON THIS SITE. MATERIAL IMPORTED OR RECYCLED WILL BE STORED IN SEGREGATED STOCKPILES WITH THE STOCKPILING AND PROCESSING AREA.
12. ALL BLENDED, EQUIPMENT, SCRAP AND MACHINERY ASSOCIATED WITH THE EXTRACTION OPERATIONS WILL BE REMOVED UPON COMPLETION OF EXTRACTION.
- ENTRANCE/EXIT INFORMATION**
13. EVERY EFFORT SHALL BE MADE TO COMBINE ENTRANCE WITH EXISTING MAST PIT ENTRANCE TO THE WEST.
14. AN ENTRANCE/EXIT HAS BEEN PROPOSED ALONG CONCESSION 2. THE ENTRANCE WILL NOT BE USED FOR HAULAGE OF AGGREGATE. REFER TO OPERATIONAL NOTE #12 (FUTURE APPROVAL WILL BE REQUIRED BY TOWNSHIP FOR PROPOSED ENTRANCE/EXIT ON CONCESSION 2 SHOULD IT BE UTILIZED). MATERIAL WILL BE MOVED FROM THE PROPERTY FOR PROCESSING AT EITHER THE MCHALL PIT TO THE NORTH OR THE MAST PIT TO THE WEST. EXISTING MATERIAL WILL BE MOVED FROM THE MCHALL PIT TO THE NORTH OR THE MAST PIT TO THE WEST. EXISTING MATERIAL WILL BE MOVED FROM THE MCHALL PIT TO THE NORTH OR THE MAST PIT TO THE WEST. EXISTING MATERIAL WILL BE MOVED FROM THE MCHALL PIT TO THE NORTH OR THE MAST PIT TO THE WEST. EXISTING MATERIAL WILL BE MOVED FROM THE MCHALL PIT TO THE NORTH OR THE MAST PIT TO THE WEST.
15. ATTENTION ALL DRIVERS USE EXTRA CAUTION WHEN DRIVING ON THESE ROADS. SCHOOL BUSES ROUTES.
16. SCHEDULE AT ANY TIME THE PROPOSED ENTRANCE/EXIT ALONG CONCESSION 2 BE INSTALLED THE LICENCE AREA 1 BERM WILL BE PLACED AT THE TRUCK ENTRANCE/EXIT.
- HYDROGEOLOGICAL INFORMATION**
17. HYDROGEOLOGICAL INFORMATION INCLUDING GROUNDWATER TABLE ELEVATION WAS OBTAINED FROM A REPORT BY SLOPOT HYDROGEOLOGY INC. AND GROUNDWATER SCIENCE COPT. DATED OCTOBER 2008 AND MCHALL DATED OCTOBER 8, 2010.
18. THE WATER TABLE ELEVATION WITHIN THE PROPERTY RANGES FROM 430M A.S.L. IN THE NORTH TO 425M A.S.L. IN THE SOUTH PART OF THE SITE. REFER TO THE OPERATIONS PLAN FOR FURTHER LISTED INFORMATION.
19. SURFACE DRAINAGE ON THE PIT FLOOR WILL BE DIRECTED TO THE POND AS SHOWN ON THE SITE PLAN. IF REQUIRED, A PERMIT TO TAKE WATER UNDER THE POND WILL BE OBTAINED.
20. EXTRACTION IN THE RESTRICTED AREA IN THE VICINITY OF R1, ONLY ONE EXTRACTION LOADER IS PERMITTED.
21. IN ORDER TO OPERATE THE PRIMARY CRUSHER IN THE SOUTHWEST CORNER OF THE PIT AS INDICATED ON THE OPERATIONS PLAN, A LIMIT OF THE COMMON SETBACK WITH THE PERIMETER FENCING AS DEFINED ON THE OPERATIONS PLAN MUST REMAIN IN PLACE.
22. DURING ON-SITE PROCESSING OF CUSTOM PRODUCTS (SCENARIO 3), ONLY ONE LOADER MAY BE USED FOR SHIPPING PURPOSES. PROCESSING OF CUSTOM PRODUCTS IS PROHIBITED WHILE EXTRACTION IS IN THE VICINITY OF RESIDENCES AS INDICATED ON THE OPERATIONS PLAN.
23. THE PORTABLE PROCESSING EQUIPMENT MUST BE SHELDED FROM THE SURROUNDING RESIDENCES BY A LOCAL BARRIER SPECIFIED IN THE TABLE BELOW. THE BARRIER SHALL CONSIST OF THE DEPOSIT (WORKING FACE) WHERE POSSIBLE. A BERM CONSTRUCTED ON TOP OF THE BARRIER CAN BE USED TO AUGMENT THE BARRIER (FACE) WHERE REQUIRED. THE MAXIMUM BARRIER HEIGHT SHALL BE THE MAXIMUM ALLOWABLE DISTANCE FROM THE EQUIPMENT TO THE TOP OF THE DEPOSIT WHEN MEASURED IN THE DIRECTION OF THE RESIDENCE.
- AIR QUALITY INFORMATION**
24. IF EITHER OR ANOTHER PROFESSIONAL APPROVED DUST SUPPLEMENT WILL BE APPLIED TO INTERIOR HALLS AND PROCESSING AREAS AS OFTEN AS REQUIRED TO MITIGATE DUST.
25. IT IS EXPECTED THAT MOST MATERIAL FROM THE LICENCE WILL BE MOVED FROM THE LICENCE BY CONVEYOR UNDER THE SUPERVISION OF THE PROPRIETOR. PROCESSING AND SHIPPING SHALL BE LIMITED TO THE MCHALL PIT AND 18100 AREA 2 OUTLINE.
26. EXTRACTION AND PROCESSING EQUIPMENT SHALL BE OPERATED WITHIN 200M OF A SENSITIVE RECEPTOR WITHOUT DUST SUPPLEMENT SUCH AS WATER OR WETTING AGENTS.
27. SHOULD AN ON-SITE PROCESSING OCCUR, THE OPERATOR SHALL SUBMIT AN APPLICATION FOR SECTION 9 APPROVAL INCLUDING AN EMISSIONS SUMMARY AND DISPERSION MODELING REPORT PURSUANT TO THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION ACT. CERTIFICATE OF APPROVAL, ARE TO DEMONSTRATE COMPLIANCE WITH ONTARIO REGULATIONS 416/03 OR AMENDED. THE EGM REPORT SHOULD BE SUBMITTED AS REQUIRED TO THE DISTRICT ENGINEER OPERATIONS AND INSPECTION DIVISION WITH APPLICATION.



**PHASE B NOTES**

1. BEGIN SEQUENTIAL STRIPPING OF TOPSOIL AND OVERBURDEN SEPARATELY IN AREA 2. TOPSOIL AND OVERBURDEN STRIPPED FROM AREA 2 WILL BE STORED IN THE SCREENING BERM IN SETBACKS, AS SHOWN.
2. DISMANTLE AND REMOVE BUILDING NO. 3 (WOODEN BARN) IF REQUIRED. STRIP TOPSOIL AND OVERBURDEN SEPARATELY FROM THE REMAINDER OF AREA 1.
3. BEGIN DRY EXTRACTION OF AREA 2, IN AN EASTERLY DIRECTION, AS SHOWN. MATERIAL EXTRACTED WILL BE TRANSPORTED BY CONVEYOR AND/OR TRUCKS TO THE PLANT SITE.
4. BEGIN WET EXTRACTION IN WESTERN PART OF AREA 1, MOVING IN AN EASTERLY DIRECTION, AS SHOWN. AGGREGATE EXTRACTED FROM BELOW WATER WILL BE PLACED IN WINDROWS ON THE PIT FLOOR, TO DRAIN, BEFORE BEING TRANSPORTED TO PLANT SITE.
5. UNDISTURBED PORTION OF AREA 2, REMAIN IN AGRICULTURAL AND OPEN SPACE.
6. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION.

**NOTES (CONTINUED)**

**NOISE MITIGATION INFORMATION**

19. NOISE MITIGATION MEASURES ARE TAKEN FROM A REPORT BY AEROCUSTICS ENGINEERING NOVEMBER 2008 (SEE TECHNICAL RECOMMENDATIONS FOR DETAILS).

20. HOURS OF OPERATION

21. SITE PREPARATION AND REHABILITATION

07:00-19:00 WEEKDAYS	07:00-19:00 WEEKENDS
EXCAVATOR AND OVERBURDEN STRIPPING (ONE LOADER ON V)	EXCAVATOR AND OVERBURDEN STRIPPING (ONE LOADER ON V)

**SITE MANAGEMENT INFORMATION**

22. EXISTING VEGETATION WITHIN THE LICENCED AREA SHALL BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION UNTIL SEPARATE REHABILITATION OR PLANTING IS COMPLETE. ANY VEGETATION PLANTED AS PART OF SITE IMPROVEMENTS OR REHABILITATION AND FINAL REHABILITATION WILL ALSO BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION. IF DURING OPERATIONS, THE VISUAL SCREENING ABILITY OF THE EXISTING VEGETATION WITHIN THE SETBACK IS DEGRADED, WHITE SPRUCE WILL BE PLANTED TO MAINTAIN THE TREE SCREEN WHICH MAY ALSO BE SUPPLEMENTED BY FUNCTIONAL BERM AS SHOWN.

**FENCING AND DEMARCATION INFORMATION**

23. BOUNDARIES OF THE AREA TO BE LICENCED THAT ARE PRESENTLY FENCED ARE SHOWN ON DRAWING 1 OF 3. EXISTING FEATURES, PRIOR TO ANY STRIPPING OR PREPARATION, FENCING ON THE LICENCED BOUNDARIES WILL BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION. IF DURING OPERATIONS, THE VISUAL SCREENING ABILITY OF THE EXISTING VEGETATION WITHIN THE SETBACK IS DEGRADED, WHITE SPRUCE WILL BE PLANTED TO MAINTAIN THE TREE SCREEN WHICH MAY ALSO BE SUPPLEMENTED BY FUNCTIONAL BERM AS SHOWN.

24. AN S.E.I. BOUNDARY HAS BEEN STAKED IN THE FIELD WITH ASSISTANCE FROM OMNR.

**TOPSOIL AND OVERBURDEN STORAGE INFORMATION**

25. TOPSOIL AND OVERBURDEN SHALL BE STRIPPED AND STORED SEPARATELY IN BERMS OR STOCKPILES. BERM AND STOCKPILES OF TOPSOIL SHALL BE GRADED TO STABLE SLOPES AND BEEDED TO PREVENT EROSION AND MINIMIZE DUST.

**BERM INFORMATION**

26. BERM SHALL CREATE AN EFFECTIVE VISUAL BARRIER OR ACOUSTICAL BARRIER TO A MINIMUM OF 1.5M ABOVE THE EXISTING GRADE. AN S.E.I. BOUNDARY SHALL BE MAINTAINED. A NOISE MITIGATION REPORT DATED NOVEMBER 2008. BERM SHALL NOT EXCEED 2.1 METRES. THE TYPICAL BERM CROSS SECTION ON DRAWING 2 OF 3. REHABILITATION PLAN SECTION. ALL BERM SHALL BE BEDED IMMEDIATELY UPON COMPLETION TO MINIMIZE NOISE, DUST AND EROSION. THE OPERATOR WILL PLANT A TREE SCREEN CONSISTING OF VARIOUS SPECIES TO THE EAST OF THE BERM.

**SCRAP STORAGE INFORMATION**

27. ALL SCRAP, USED MACHINERY AND STUMPS GENERATE THROUGH THE OPERATIONS WITHIN THIS LICENCE WILL BE STORED IN THE PROCESSING AREA. A MINIMUM OF 50M FROM THE BOUNDARY OF THE SITE AND BE DEPOSITED ON AN ONGOING BASIS. TREES TO BE REMOVED WITHIN THE EXTRACTION AREA WILL BE UTILIZED FOR FIREWOOD OR THEIR BEST USE. STUMPS, LOGS AND OVERSIZE LOGS MAY REMAIN ON SITE FOR DISPOSAL. UPON COMPLETION OF EXTRACTION, ALL SCRAP EQUIPMENT AND USED MACHINERY SHALL BE REMOVED.

**PETROLEUM STORAGE INFORMATION**

28. FUEL, OIL, RADIATION AND HYDRAULIC FLUID, AND OTHER CHEMICALS NEEDED FOR THE MAINTENANCE AND FUNCTIONING OF ON-SITE EQUIPMENT SHALL BE APPROPRIATELY STORED ABOVE GROUND CONTAINERS AND SHALL MEET THE REQUIREMENTS OF THE CANADIAN HANDLING ACT, AS AMENDED, AND THE GASOLINE HANDLING CODE AND REGULATIONS AS AMENDED BY THE TECHNICAL STANDARDS AND SAFETY ACT (TSSA) AND LIQUID FUELS HANDLING CODE AND REGULATIONS AS AMENDED BY THE ENVIRONMENTAL PROTECTION ACT (EPA) AND OTHER CHEMICALS SHALL BE PROPERLY STORED. ALL REFUELING SHALL BE WITHIN A CONTAINMENT PAD AND ANY SPILL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED FACILITY.

**PESTICIDES/HERBICIDES INFORMATION**

29. PESTICIDES AND HERBICIDES SHALL BE USED ONLY WHEN REQUIRED TO CONTROL INFESTATIONS AND SHALL BE APPLIED BY A LICENCED PROFESSIONAL, WITH PRIOR NOTICE GIVEN TO THE TOWNSHIP OF PULSICH.

**SNOW STORAGE INFORMATION**

30. "SNOW DUMPING" (I.E. THE IMPORTING AND STORAGE OF WASTE SNOW) ON THE SUBJECT LAND IS NOT AN ACCESSORY LAND USE UNDER THE ZONING OR DEWEEDS REGULATORY TO AN AGGREGATE OPERATION, AS SUCH, SNOW DUMPING IS NOT PERMITTED AT THIS LICENCED SITE.

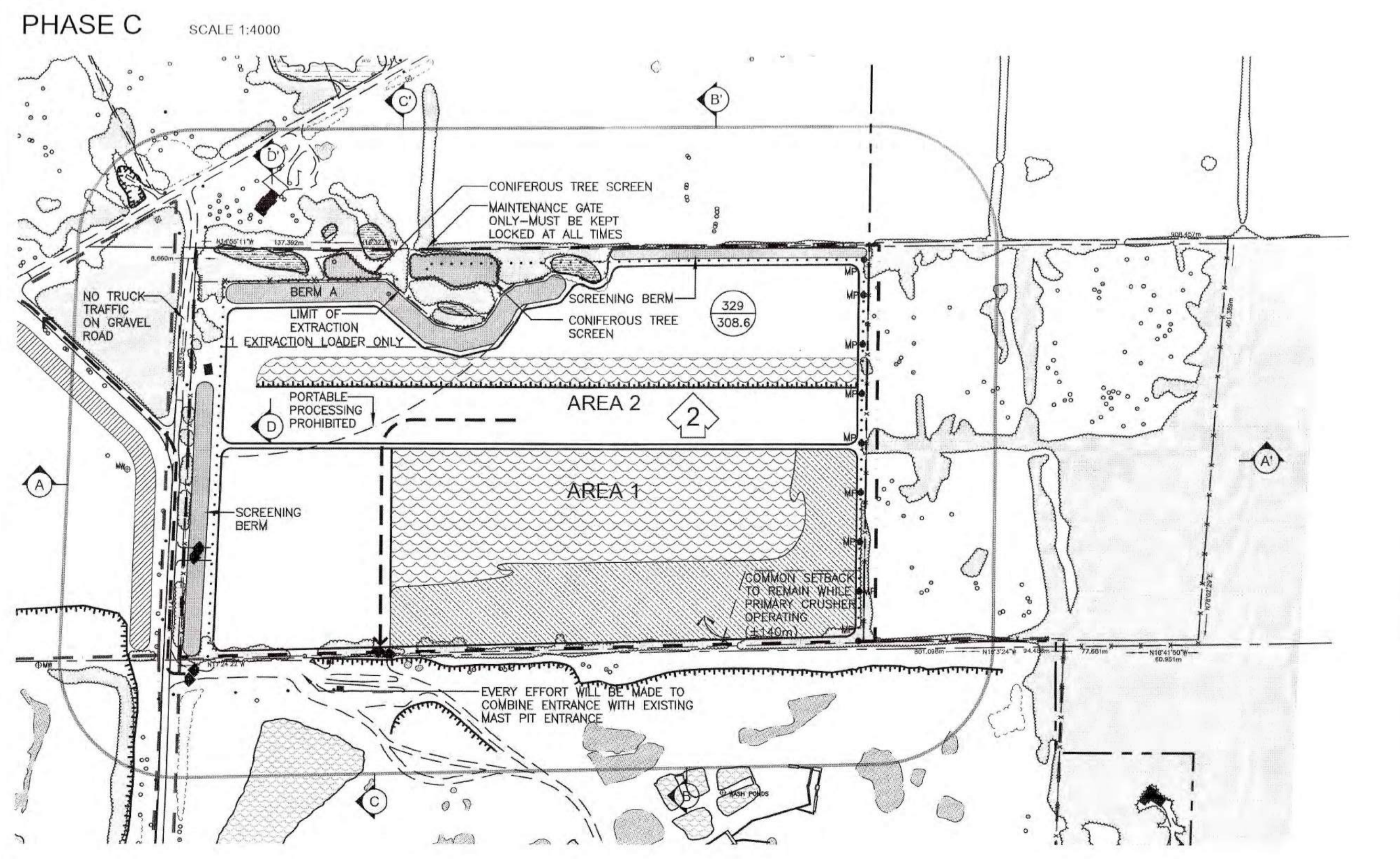
31. ASPHALT OR CONCRETE SLABS

32. THE PRODUCTION OF ASPHALT OR CONCRETE IS NOT PROPOSED FOR THIS LICENCED AREA. ASPHALT PLANTS OR CONCRETE PLANTS ARE NOT PERMITTED UNDER THE APPLICABLE EXTRACTIVE INDUSTRIAL (E.I.) ZONING FOR THE SUBJECT LAND AND THEREFORE THESE USES WOULD REQUIRE SITE-SPECIFIC ZONING BY THE TOWNSHIP OF PULSICH. THIS RESTRICTION DOES NOT PROHIBIT TEMPORARY FACILITIES ESTABLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL POLICY STATEMENT.

**IMPORTATION OF FILL INFORMATION**

33. CLEAN FILL (SILT, TOPSOIL AND/OR OVERBURDEN) MAY BE IMPORTED TO FACILITATE PIT REHABILITATION ONLY. SUFFICIENT MATERIAL TO CREATE ABOVE WATER GRADERS AS SHOWN MAY BE IMPORTED. THE REQUEST OF MNR, THE LICENCE OR THE PERMITTEE WILL CONDUCT RANDOM SAMPLING OF THE IMPORTED MATERIAL TO ENSURE THAT IT MEETS THE MINERAL, FILL AND OTHER CHEMICALS SHALL BE PROPERLY STORED. ALL REFUELING SHALL BE WITHIN A CONTAINMENT PAD AND ANY SPILL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED FACILITY.

NOTWITHSTANDING THIS CONDITION, WHERE THE IMPROVED MATERIAL IS NOT BEING PLACED WITHIN 1.5 METRES OF THE SURFACE, THE CRITERIA NAMED IN TABLE 1 FOR SODIUM ADSORPTION RATIO AND ELECTRICAL CONDUCTIVITY DO NOT HAVE TO MET.



**PHASE C NOTES**

1. COMPLETE WET EXTRACTION IN AREA 1.
2. COMPLETE STRIPPING OF TOPSOIL AND OVERBURDEN IN AREA 2. USE TOPSOIL AND OVERBURDEN TO BEGIN PROGRESSIVE REHABILITATION OF SLOPESIDES IN AREA 1.
3. COMPLETE DRY EXTRACTION IN AREA 2.
4. BEGIN WET EXTRACTION IN AREA 2, IN AN EASTERLY DIRECTION, AS SHOWN. AGGREGATE EXTRACTED FROM BELOW WATER WILL BE PLACED IN WINDROWS ON THE PIT FLOOR BEFORE BEING TRANSPORTED BY CONVEYOR TO THE PLANT SITE.
5. BEGIN THE INITIAL "SEED" PLANTING OF WETLAND SPECIES IN A SMALL SECTION OF REHABILITATED SHORELINE OF AREA 1, TO BEGIN COLONIZATION PROCESS.
6. BEGIN TREE PLANTING IN NORTHWEST CORNER OF THE SITE.

**PHASE D NOTES (NOT SHOWN)**

1. COMPLETE WET EXTRACTION OF AREA 2.
2. UPON COMPLETION OF EXTRACTION REMOVE ALL EQUIPMENT, STOCKPILES, SCRAP AND MACHINERY FROM SITE.
3. COMPLETE THE REHABILITATION OF THE SLOPESIDES IN THE REMAINING AREAS IN AREA 1 AND AREA 2, USING THE STOCKPILED TOPSOIL AND OVERBURDEN IN THE SCREENING BERM IN NORTHERN SETBACK AND ACOUSTIC BERM A (SEE REHABILITATION NOTES SHEET 3 OF 3, REHABILITATION PLAN SECTION).
4. COMPLETE THE REHABILITATION OF THE SHORELINE WETLAND EDGE AND MONITOR COLONIZATION BY WETLAND SPECIES.
5. AREA 1 AND AREA 2 ARE REHABILITATED TO POND WITH WETLAND EDGE.

**SITE PLAN OVERRIDE**

ITEM	SECTION
1. PROPOSED SOUTHERN LICENCE BOUNDARY PERIMETER FENCING WILL BE ERECTED ON A.N.S.I. BOUNDARY, 10M NORTH OF THE LICENCE BOUNDARY. FENCING TO BE OMITTED ALONG THE WEST BOUNDARY ADJACENT TO CBMS EXISTING LICENCE PIT NO. 17600.	5.1
2. THE 15M EXTRACTION SETBACK IS REDUCED TO 0m ALONG THE WESTERN BOUNDARY, ADJACENT TO EXISTING LICENCED PIT NO. 17600 (OWNED BY THE APPLICANT) TO FACILITATE EXTRACTION THROUGH COMMON BOUNDARIES AND REHABILITATION TO A COMMON GRASS.	5.10.1
3. DUE TO THE SAME LICENCE AND OWNER, TOPSOIL, OVERBURDEN AND AGGREGATE STOCKPILES AND PORTABLE PROCESSING PLANT SHALL BE ALLOWED WITHIN 30m OF THE WESTERN BOUNDARY OF THE SITE, ADJACENT TO EXISTING LICENCED PIT NO. 17600.	5.13.1
4. STOCKPILES LOCATED WITHIN 90m OF RESIDENCE ON SITE. HOUSE ON PROPERTY IS OWNED BY THE APPLICANT.	5.13.2.1
5. SURPLUS TOPSOIL AND/OR OVERBURDEN MAY BE TRANSPORTED TO OTHER LICENCED AREAS FOR REHABILITATION PURPOSES OR SOLD.	5.6, 5.16 & 5.17
6. NO GATES REQUIRED AT THE PROPOSED ENTRANCE/EXIT ALONG THE WEST BOUNDARY. LICENCE WILL MAINTAIN GATES AT THE EXISTING ENTRANCE/EXITS OF THE ADJACENT CBM MAST PIT LICENCE NO. 17600.	5.2

**MINISTRY OF NATURAL RESOURCES AND FORESTRY**

**SITE PLAN APPROVED**

DATE: 12/05/2019

DATE	REVISION	DESCRIPTION	APPROVED
7 JUL	REVISED TO SHOW AREA 1 BOUNDARY AND FENCING		
6 FEB	REVISED NOTE #21, 1511		
5 JAN	AGENCY REVIEW, 2111 REVISED NOTE #17		
4 NOV	REVISED NOTE #14 AND 1810 AREA 2 OUTLINE		
3 OCT	REVISED NOTE #14 AND 2011 RECONSIDERATIONS		
2 APR	REVISED NOTE #4 AND 1810 AREA 2 OUTLINE		
1 JUL	REVISED NOTE #17 AND 1810 AREA 2 OUTLINE		
1 MAR	REVISED OPS NOTE #6 1810		

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**CBM ST MARYS NEUBAUER PIT**

PART OF LOT 27, CONCESSION 1  
 TOWNSHIP OF PULSICH, COUNTY OF WELLINGTON

Scale AS SHOWN North Stamp

Issued Status

DRAWN BY: S.J.P. Checked: B.J.G.D.H. Issue Date: DEC 2011

Project Number: 99-11

Drawing Number: 2 OF 3