

- **NOTES:**
- 1. This Site Plan has been prepared for submission to the MNRF under the Aggregate Resources Act for a Class "A" Licence, Category 2, Quarry Below Water. This Site Plan has been completed using information taken from Township of Guelph-Eramosa Zoning By-law, the 1:100,000 scale Provincial Highway Mapping and County Roads mapping, Ontario Base Mapping (1:10,000), topographic base mapping and water elevations - Harden Environmental Services Ltd, field information and recent aerial photography of the local area.
- This site is comprised of plantation, woodlands, a former wayside pit and a small pond/wetland. Zoning for the site is Agricultural and Environmental Protection (See Zoning Schedule). Lands to the south are zoned Rural. The existing entrances to the site are shown on this plan.
- Stockpiles of aggregate are shown on the plan. 6. Wells on the site and adjacent to the property are shown on
- the site. A description of wells is provided in Table 1. Along the southern portion of the site, there is a house and a shed. Residences and other structures within 120 m of the site are shown.
- There are no existing piles of scrap on the site. There are no existing fuel storage areas on the site. 10. The existing surface water drainage is shown on this plan. An
- intermittent watercourse is shown on the Site Plans. Wetlands/ponds on the site and adjacent to the site are illustrated on the Site Plans. The riparian wetland boundary and the PSW boundary were flagged by GWS staff and verified in the field by the GRCA on June 7, 2013.
- 11. The existing ground water table ranges from 348 to 356 (masl). All measurements shown on the Site Plans are in metres. 12. Proposed Licensed Area = 39.4 ha.

REFERENCES:

- Aercoustic Engineering Ltd. November 19, 2012. Noise Impact Study, Project No. 11007, Hidden Quarry, Rockwood, Ontario.
- Aercoustics Engineering Ltd.- August 10, 2015. Proposed Hidden Quarry Noise Impact Study Report Addendum #1.
- Cole Engineering Ltd. April 22, 2016. Revised Traffic Impact Study, Eramosa Quarry, Township of Guelph-Eramosa County of Wellington. 1999. Official Plan.
- Explotech Engineering Ltd. September 5, 2014. Blast Impact Analysis James Dick Hidden Quarry
- Grand River Conservation Authority. 2011. Contour Information and Aerial Photography.
- GWS Ecological and Forestry Services Inc. 2012. Proposed Hidden Quarry Level 2 Natural Environment Technical Report.
- Harden Environmental Services Ltd. 2012. Level 1 and 2 Hydrogeological nvestigation - Hidden Quarry.
- Harden Environmental Services Ltd. December 2014 and July 28, 2016. Hidden Quarry Monitoring Program and Contingency Measures. K. W. Ingram. 1990. Borehole Records - Lot 1, Concession 6, Eramosa Township, County of Wellington.
- RWDI. 2012. Air Quality Assessment Proposed Hidden Quarry Report #
- RWDI. April 29, 2016. Proposed Hidden Quarry Best Management Practices Plan for Dust. Township of Guelph-Eramosa. Comprehensive Zoning By-law.
- York North Archaeological Services., 2012, Stage I-II ,Archaeological Assessment of the Proposed James Dick Ltd. Hidden Quarry

BUILDINGS (TYPE)

EXISTING CONTOURS(METRES ABOVE SEA LEVEL)

DIRECTION OF SURFACE RUN-OFF

TYPICAL SECTION LOCATIONS

MUNICIPAL BOUNDARY

EXISTING ENTRANCE/EXIT

EXISTING AGGREGATE STOCKPILE

WELL/MINI PIEZOMETER

SURFACE WATER MONITOR



PART OF LOT 1, CONCESSION 6 **TOWNSHIP OF GUELPH-ERAMOSA** FORMER TOWNSHIP OF ERAMOSA **COUNTY OF WELLINGTON**

Page 1 of 6 EXISTING FEATURES

KEY MAP GUELPH-ERAMOSA PROPERTY

Farnhar

Hamilton Corner

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MILTON (NASSAGAWEYA) Darbyville 🔪 Mills Brookville Haltonville

NTS

THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 2 - QUARRY BELOW WATER.

THESE SITE PLANS HAVE BEEN PREPARED UNDER THE DIRECTION OF AND CERTIFIED BY A PERSON APPROVED BY THE MINISTER OF NATURAL RESOURCES (AS PER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT).

JAMES DICK **PREPARED FOR:** CONSTRUCTION LTD

DATE: ___

G.K.S.

www.jamesdick.com Box 470 Bolton Ontario L7E 5T4 Bolton:(905)857-3500 Fax:(905)857-4833 Toll Free: 1-888-535-3333

APPROVED: R.P.S. DRAWN: PLOTTED: OCTOBER 21, 2016 FILE: Dct 21,2016-1:34pn G\ERAMDSA\con6\Stovel\Hidden Quarry Site Plans 2016-21-10.d*g

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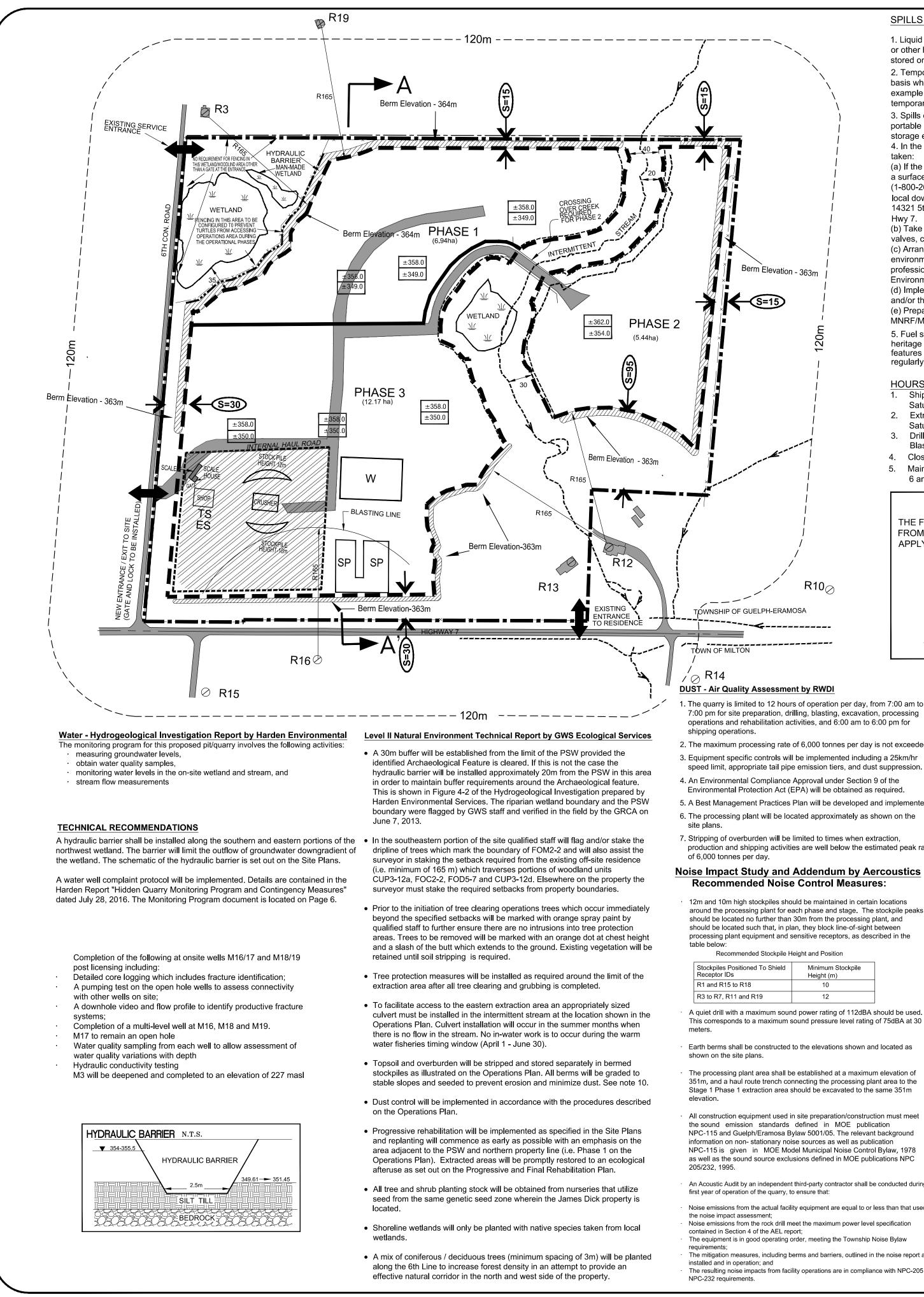
DESCRIPTION AMENDMENTS

STOVEL and Associates Inc.

1.3000

655 ORANGEVILLE ROAD FERGUS, ONTARIO

N1M 1T9 PHONE (519)843-3112



- 1. The quarry is limited to 12 hours of operation per day, from 7:00 am to 7:00 pm for site preparation, drilling, blasting, excavation, processing operations and rehabilitation activities, and 6:00 am to 6:00 pm for
- 2. The maximum processing rate of 6,000 tonnes per day is not exceeded. 3. Equipment specific controls will be implemented including a 25km/hr
- Environmental Protection Act (EPA) will be obtained as required.
- 5. A Best Management Practices Plan will be developed and implemented. 6. The processing plant will be located approximately as shown on the
- 7. Stripping of overburden will be limited to times when extraction, production and shipping activities are well below the estimated peak rate

Noise Impact Study and Addendum by Aercoustics **Recommended Noise Control Measures:**

12m and 10m high stockpiles should be maintained in certain locations around the processing plant for each phase and stage. The stockpile peaks should be located no further than 30m from the processing plant, and should be located such that, in plan, they block line-of-sight between processing plant equipment and sensitive receptors, as described in the

| Recommended Stockpile Height and Position | | | | | |
|---|---------------------------------|--|--|--|--|
| Stockpiles Positioned To Shield Receptor IDs | Minimum Stockpile Height (m) | | | | |
| R1 and R15 to R18 | 10 | | | | |
| R3 to R7, R11 and R19 | 12 | | | | |

A quiet drill with a maximum sound power rating of 112dBA should be used. This corresponds to a maximum sound pressure level rating of 75dBA at 30

- Earth berms shall be constructed to the elevations shown and located as
- The processing plant area shall be established at a maximum elevation of 351m, and a haul route trench connecting the processing plant area to the Stage 1 Phase 1 extraction area should be excavated to the same 351m
- All construction equipment used in site preparation/construction must meet the sound emission standards defined in MOE publication NPC-115 and Guelph/Eramosa Bylaw 5001/05. The relevant background information on non- stationary noise sources as well as publication NPC-115 is given in MOE Model Municipal Noise Control Bylaw, 1978 as well as the sound source exclusions defined in MOE publications NPC
- An Acoustic Audit by an independent third-party contractor shall be conducted during the
- Noise emissions from the actual facility equipment are equal to or less than that used in Noise emissions from the rock drill meet the maximum power level specification The equipment is in good operating order, meeting the Township Noise Bylaw
- The mitigation measures, including berms and barriers, outlined in the noise report are
- The resulting noise impacts from facility operations are in compliance with NPC-205 and

SPILLS CONTINGENCY AND RESPONSE PROGRAM

1. Liquid petroleum products (fuels, oil) in quantities greater than 500 litres or other hazardous liquid chemical associated with the operation will not be stored onsite on a permanent basis.

2. Temporary fuel storage facilities will be inspected for leaks on a regular basis when operations are occurring. If operations are not occurring (for example on weekends or during an extended shutdown period), inspection of temporary fuel storage facilities remaining onsite will occur weekly. 3. Spills containment materials (for example, absorbency materials and portable containers) are to be available on-site as part of the temporary fuel

storage equipment. 4. In the case of an accidental spill of fuel or oil, the following action is to be

(a) If the spill volume is approximately 5 L or more, or the spill occurs directly to a surface water feature, contact the Spills Action Centre established by MOECC (1-800-268-6060), Guelph/Eramosa Township, The Town of Milton and the five local downstream residences: (W10) 8540 Hwy 7, (W16) 5134 Hwy 7, (W17) 14321 5th Line Nassagaweya, (W18) 14297 5th Line Nassagaweya, (W19) 5036 Hwv 7.

(b) Take reasonable measures to stop or control the spill (such as closing valves, collecting leakage in a container, applying the absorbency materials). (c) Arrange for an inspection of the spill site and a general assessment of the environmental impact by a Qualified Person (Qualified Person means a professional engineer or professional geoscientist) and/or the Ministry of the Environment

(d) Implement remedial measures as recommended by the Qualified Person and/or the Ministry of the Environment. (e) Prepare a written report on the incident for review by the Township,

MNRF/MOE. 5. Fuel storage and refueling areas will not be located adjacent to identified natural

heritage or aquatic features. Mitigation measures to prevent transfer of spills to these features will be installed prior to the commencement of operations and inspected regularly by a qualified professional.

HOURS of OPERATION

- Shipping and Loading: 6 am to 6 pm Weekdays and 6 am to 1 pm -Saturdavs
- 2. Extraction and Processing: 7 am to 7 pm Weekdays and 7 am to 1 pm -Saturdavs
- 3. Drilling:7 am to 7 pm Weekdays, 7 am to 1pm Saturdays
- Blasting: 8 am to 5 pm Weekdavs. Closed for Operations on Sundays and Public Holidays.
- Maintenance and Rehabilitation may occur during normal weekday hours, 6 am to 7 pm, and on Saturdays from 7 am to 5 pm.

SITE PLAN OVERRIDE TABLE

THE FOLLOWING CONDITIONS ILLUSTRATED ON THIS PLAN VARY FROM THE REQUIREMENTS OF THE PROVINCIAL STANDARDS THAT APPLY TO LICENSED PITS AND QUARRIES IN ONTARIO. OVERRIDE STANDARD

The fence in the NW corner will not follow the 5.1 licenced boundary but will follow inside the berm between the existing wetland and the berm as shown on the plan Rehabilitation of side slopes may occur at a slope 5.19.2

steeper than 2:1 to promote ecological diversity Selected trees will not be removed within 5m of the extraction face

Blasting - Blasting Impact Assessment by EXPLOTECH

It is recommended that the following conditions be applied for all blasting operations at the proposed James Dick Construction Hidden Quarry:

1. An attenuation study shall be undertaken by an independent blasting consultant during the first 12 months of operation in order to obtain sufficient quarry data for the development of site specific attenuation relations. This study will be used to confirm the applicability of the initial guideline parameters and assist in developing future blast designs.

- 2. All blasts shall be monitored for both ground vibration and overpressure at the closest privately owned sensitive receptors adjacent the site, or closer, with a minimum of two (2) digital seismographs - one installed in front of the blast and one installed behind the blast. Monitoring shall be performed by an independent party engineering firm with specialization in blasting and monitoring.
- 3. Orientation of the aggregate extraction operation will be designed and maintained so that the direction of the overpressure propagation and flyrock from the face will be away from structures as much as possible.
- 4. Blast designs shall be continually reviewed with respect to fragmentation, ground vibration and overpressure. Blast designs shall be modified as required to ensure compliance with applicable guidelines and regulations. Decking, reduced hole diameters and sequential blasting techniques will be used to ensure minimal explosives per delay period initiated.

5. Clear crushed stone will be used for stemming.

- 6. Primary and secondary dust collectors will be employed on the rock drills to keep the level of rock dust to a minimum.
- 7. Blasting procedures such as drilling and loading shall be reviewed on a yearly basis and modified as required to ensure compliance with industry standards.
- 8. Detailed blast records shall be maintained. The MOECC (1985) recommends that the body of blast reports should include the following information:
- Location, date and time of the blast.
- Dimensional sketch including photographs, if necessary, of the location of the blasting operation, and the nearest point of reception.
- · Physical and topographical description of the ground between the source and the receptor location.
- 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, relative humidity, degree of cloud cover and ground moisture content.
- Number of drill holes.
- Pattern and pitch of drill holes.
- Size of holes. Depth of drilling.
- Depth of collar (or stemming)
- Depth of toe-load. Weight of charge per delay.
- Number and time of delays
- 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.
- 9. All blasts shall comply with the requirements of MOE Model Municipal Noise Control By-law (August 1978) section NPC 119 with respect to ground vibration and overpressure.

----WATERCOURSE HYDRAULIC BARRIER SETBACK ENTRANCE/EXI TYPICAL SECTION LOCATIONS UNICIPAL BOUNDAR TREE PROTECTION SILT FENCING CONTROL" PAGE 4 OF 6) NOTES: This plan depicts a schematic operations sequence for this property based are schematic and may vary with demand and variations in the aggregate water table. The lands are to be rehabilitated to an ecological after-use with the incorporation of a lake (s). the Site Plan. The first lift will involve the extraction of the unconsolidated material above the water table. The second lift will involve the extraction of Extraction operations will use loaders, drag-lines and excavators, which will equipment to be used on the site includes: trucks, tractors, portable drill, Existing property limits are fenced. Prior to extraction, a survey of the quarry to the gate. On site permanent fuel storage will not occur in quantities greater than 500 shall proceed as close to the excavation face as possible, during the initial western portion of the site once a sufficient area has been cleared. 8. It is anticipated that the only buildings or structures that will be constructed are the 6th Concession. Scrap will not be stored permanently onsite. Temporary scrap piles will be located in the main processing area as shown on the Site Plan. 10. Onsite overburden quantities are minimal, therefore overburden and topsoil occur separately. 11. Topsoil and overburden stockpiles will be seeded with an appropriate grass page 5) 12. All vegetation planted during the operation of the site will be maintained in a within one growing season. 13. One (looped) internal haul road is shown on the plan. Internal haul roads may different product stockpiles. The internal haul road will be paved from the

LEGEND:

±358.0 ±350.0

SPOT ELEVATION

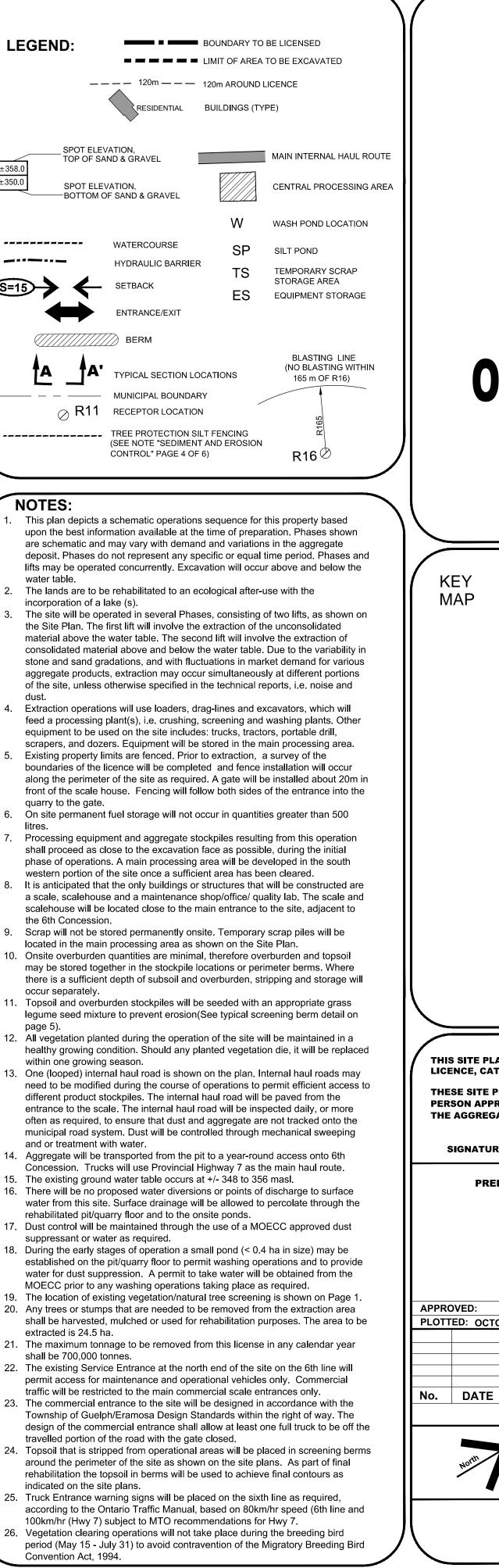
SPOT ELEVATION,

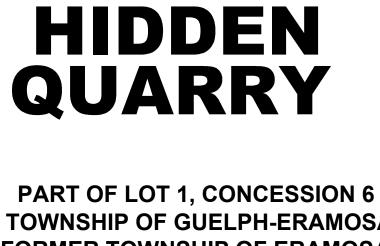
TOP OF SAND & GRAVEL

-BOTTOM OF SAND & GRAVEL

- municipal road system. Dust will be controlled through mechanical sweeping and or treatment with water. 14. Aggregate will be transported from the pit to a year-round access onto 6th Concession. Trucks will use Provincial Highway 7 as the main haul route.
- 15. The existing ground water table occurs at +/- 348 to 356 masl. 16. There will be no proposed water diversions or points of discharge to surface
- rehabilitated pit/quarry floor and to the onsite ponds. 17. Dust control will be maintained through the use of a MOECC approved dust suppressant or water as required.
- 18. During the early stages of operation a small pond (< 0.4 ha in size) may be MOECC prior to any washing operations taking place as required.
- 20. Any trees or stumps that are needed to be removed from the extraction area extracted is 24.5 ha.
- 21. The maximum tonnage to be removed from this license in any calendar year shall be 700,000 tonnes.
- permit access for maintenance and operational vehicles only. Commercial traffic will be restricted to the main commercial scale entrances only.
- 23. The commercial entrance to the site will be designed in accordance with the travelled portion of the road with the gate closed.
- 24. Topsoil that is stripped from operational areas will be placed in screening berms around the perimeter of the site as shown on the site plans. As part of final rehabilitation the topsoil in berms will be used to achieve final contours as indicated on the site plans.
- 25. Truck Entrance warning signs will be placed on the sixth line as required,
- 100km/hr (Hwy 7) subject to MTO recommendations for Hwy 7. 26. Vegetation clearing operations will not take place during the breeding bird Convention Act, 1994.

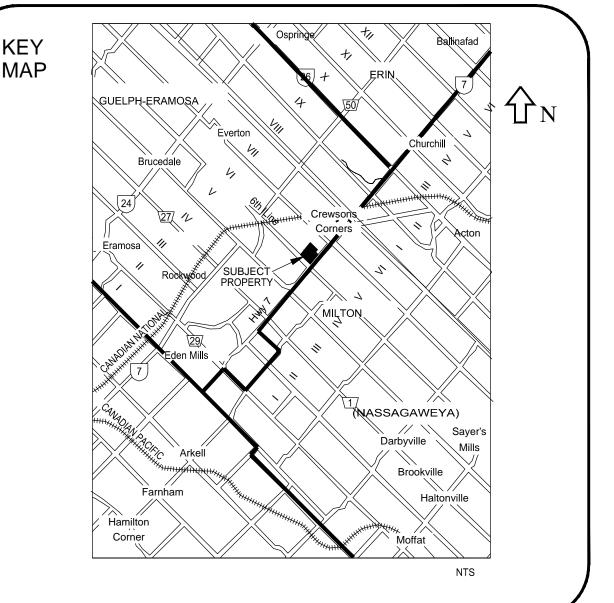
5.5





TOWNSHIP OF GUELPH-ERAMOSA FORMER TOWNSHIP OF ERAMOSA **COUNTY OF WELLINGTON**

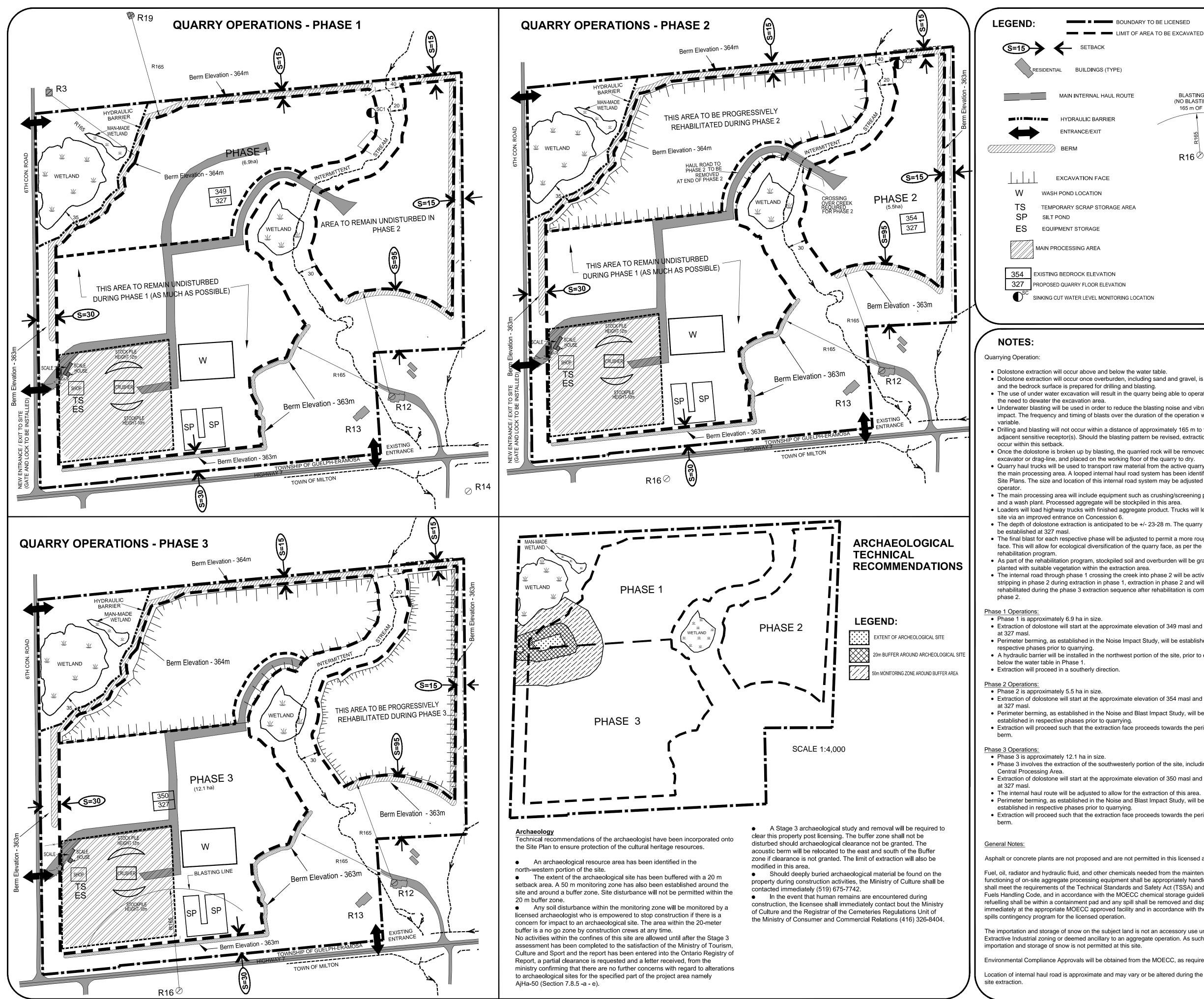
Page 2 of 6 **OPERATIONS PLAN**



THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 2 - QUARRY BELOW WATER.

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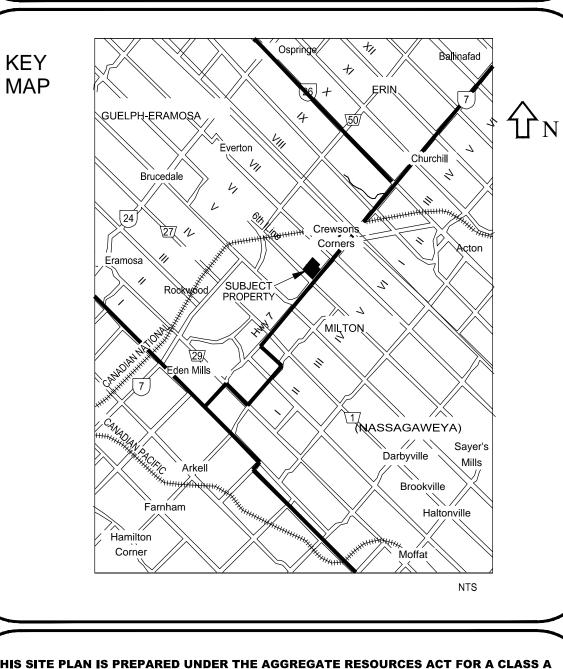


| (TYPE) | |
|---|------------------|
| AUL ROUTE BLASTING LINE (NO BLASTING WITHIN | |
| 165 m OF R16) | |
| R165 | |
| R16 | |
|)E | |
| | |
| DRAGE AREA | |
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| | |
| FION EVATION | |
| DNITORING LOCATION | |
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| | |
| d below the water table. rburden, including sand and gravel, is removed drilling and blasting. | / |
| esult in the quarry being able to operate without r to reduce the blasting noise and vibration | |
| ts over the duration of the operation will be | |
| a distance of approximately 165 m to the e blasting pattern be revised, extraction may | |
| ting, the quarried rock will be removed by an e working floor of the quarry to dry. ort raw material from the active quarry area to | |
| nal haul road system has been identified on the internal road system may be adjusted by the | |
| uipment such as crushing/screening plant(s) will be stockpiled in this area. shed aggregate product. Trucks will leave the ssion 6. cipated to be +/- 23-28 m. The quarry floor will | |
| will be adjusted to permit a more roughened fication of the quarry face, as per the | |
| ckpiled soil and overburden will be graded and e extraction area. ing the creek into phase 2 will be active: for bhase 1, extraction in phase 2 and will be finally on sequence after rehabilitation is complete in | |
| oproximate elevation of 349 masl and terminate | |
| Noise Impact Study, will be established in | $\left \right $ |
| northwest portion of the site, prior to extraction | |
| | / |
| oproximate elevation of 354 masl and terminate Noise and Blast Impact Study, will be | |
| quarrying. action face proceeds towards the perimeter | |
| | |
| uthwesterly portion of the site, including the | |
| oproximate elevation of 350 masl and terminate | |
| Noise and Blast Impact Study, will be quarrying. action face proceeds towards the perimeter | |
| | |
| and are not permitted in this linear t | |
| and are not permitted in this licensed area. | |
| quipment shall be appropriately handled and Standards and Safety Act (TSSA) and Liquid the MOECC chemical storage guidelines. All | |
| and any spill shall be removed and disposed of oved facility and in accordance with the required peration. | |
| ubject land is not an accessory use under the ry to an aggregate operation. As such, the ted at this site. | |
| obtained from the MOECC, as required. | |
| and may vary or be altered during the course of | Л |
| | |

HIDDEN QUARRY

PART OF LOT 1, CONCESSION 6 **TOWNSHIP OF GUELPH-ERAMOSA** FORMER TOWNSHIP OF ERAMOSA **COUNTY OF WELLINGTON**

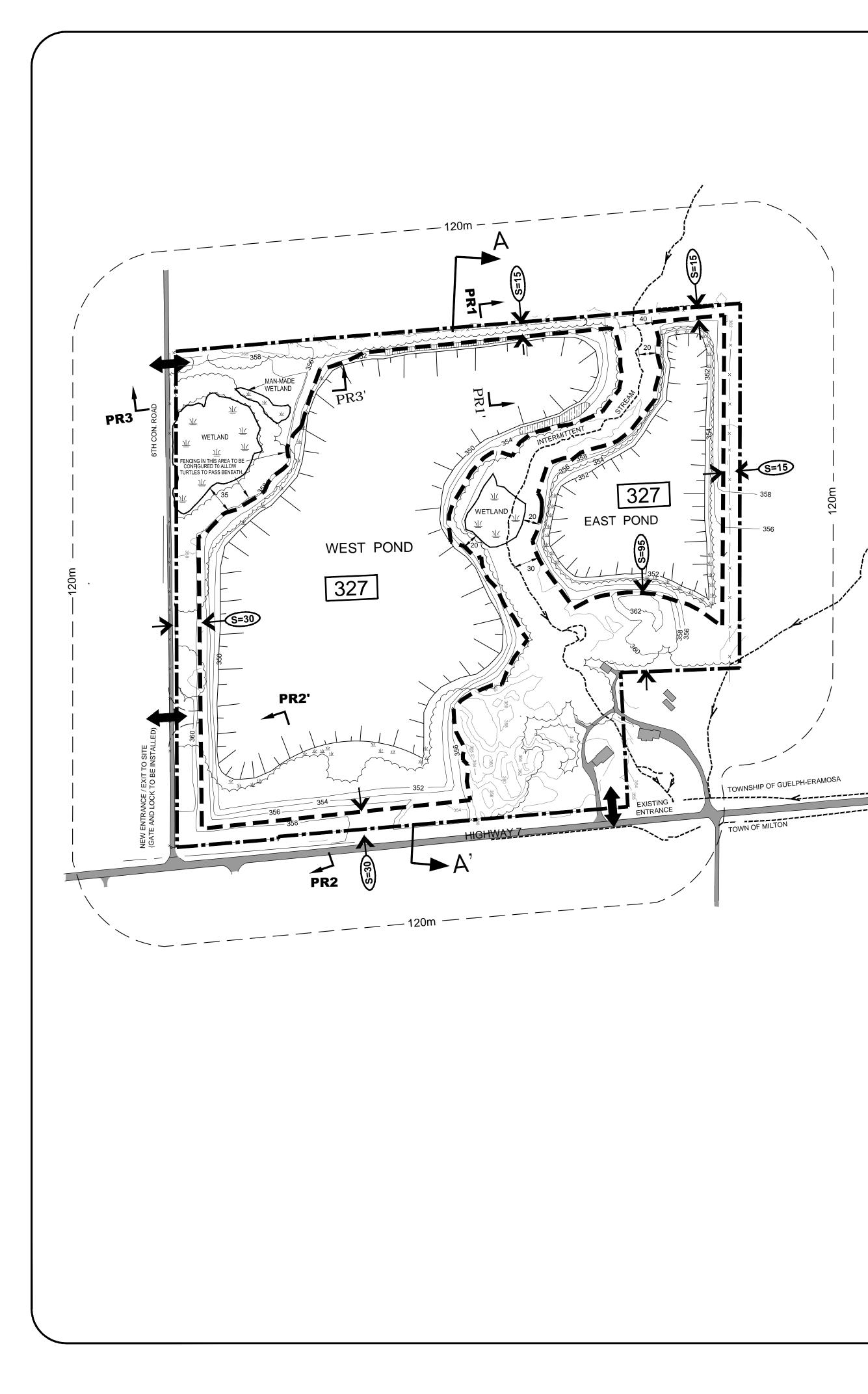
Page 3 of 6 **QUARRY PHASING**



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| SIGNATURE: | | | | DATE | | |
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| | | Bolton:(90 | 70 Bolton 5)857-350 | esdick.com 0 Ontario L7E 51 00 Fax:(905)857 388-535-3333 | | |
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LEGEND:

Ecological Enhancement Strategy:

The goal of the ecological enhancement strategy is to create a growing environment that will provide for the long-term development of a healthy, diverse ecosystem.

- The following features will be incorporated into the rehabilitation plan:
- Quarry lake areas, including the littoral zone, Quarry face,
- Created wetland areas, and
- Reforested tableland areas.

Quarry Lake Areas:

The extracted quarry lake areas will comprise good quality cold/cool water. The following features will be incorporated into the rehabilitation plan:

- Large boulders can be left in the bottom of the quarry
- Stone and screening piles can be left in the bottom of the quarry
- Boulders, stone and screenings piles can be dumped over the bank of the quarry • Along the edge of the quarry, a productive littoral zone can be created by dumping soil over the edge. Stumps and logs can be strategically placed along the shoreline.

The opportunity exists to create a diversified shoreline through the extraction process. In near shore areas, on lands that will not be rehabilitated as wetlands, variable shorelines will also be considered. The area receiving this modified side sloping detail focuses on the first 2 m of the final lake water level. Side sloping and planting details similar to the wetland enhancement program will be employed.

Cliff and Talus Slope Rehabilitation:

Cliffs will be created where steep exposures of bedrock remain after extraction that are more than 3 m high. Sharp to variably broken edges, faces, and rims will be established by rough blasting the final face. Vegetation cover will be established that ranges from patch to < 60 % tree cover, and an average substrate depth of < 15 cm.

Talus are slopes of rock rubble, with coarse rocky debris making up > 50 % of substrate surface and an average substrate depth of < 15 cm, and a vegetation cover that ranges from patch to < 60 % tree cover. Talus slopes will be

created where limestone faces are less than 3m high after extraction. Species to be planted in these areas are Canada Bluegrass, White Cedar, Sugar Maple, and Ironwood.

It is recommended, however, that at least 20 per cent of the quarry face remain barren and untreated.

Created Wetlands

(S=15)

The site plans illustrate areas on the subject property where wetlands will be created. These areas are in immediate proximity to where the perimeter berming is located. The object of this process is to create wetland with a slope of approximately 5:1 to 10:1. Appropriate native vegetation should be planted in this area.

Reforested Tableland Areas:

Once the tableland areas have been graded using overburden to backfill, these areas should be treated with a layer of topsoil, and then planted with appropriate native vegetation. In general, the tableland areas will have a finished slope not to exceed 2:1. The objective is to achieve a soil mass of 50-100 cm in depth with a topsoil layer that is 10-20 cm in depth.

During the rough grading stage of the northwestern and southern portion of the site, the licensee shall consider creating microhabitat features such as, small depressions, mounding of soil in long, linear formations, brush piles, ephemeral pools, and small stone and screening piles. The intent of this grading program is to diversify the landscape and to create habitat opportunities for a variety of wildlife including amphibians. It is also recommended, that in portions of the rehabilitated quarry, the exposed dolostone quarry floor be left in a roughened condition without the treatment of a soil layer or planted with native vegetation.

Native species, such as white pine, white spruce, white cedar, red oak, sugar maple, red maple, white birch and bur oak, shall be used. Seedling stock from an appropriate nursery can be used with a minimun planting density of 1500 seedlings per ha, planted at a 2.4 x 2.4m spacing. Prior to reforestation common buckthorn and other invasive non-native shrubs shall be cut down low to the ground and/or treated with an appropriate herbicide. A minimum of 70% of the trees planted as part of the reforestation program will be coniferous trees. The following shrubs may be included in the replanting program, grey dogwood, red-osier dogwood, staghorn sumac, nannyberry, chokecherry and serviceberry. Forest cover should be approximately 80% of the tableland area.

To reduce undesirable competition and improve the probability of seedling survival and growth, grass and weed competition in planting areas may be scalped or controlled by other methods.

Watering of planted trees, shrubs and ground cover required during droughty periods.

All vegetation planted shall be maintained in a healthy growing condition. Should planted vegetation die, it shall be replaced within one growing season.

MONITORING

covers are sufficiently established to restore the site to the desired woodland and wetland vegetation. Monitoring will be carried out until trees and shrubs are considered free to grow which means their root

Monitoring will be carried out to ensure that the survival and growth of planted trees, shrubs and ground

systems well established and the height of the competing herbaceous vegetation particularly grass and golden rod (i.e. about 1m).

It is estimated that this will take 5 years.

To ensure adequate stocking in reforested areas, there must be at least 80% seedling survival after 5 years or when trees are considered free to grow.

A seedling survival census will be carried out on an annual basis during late summer/early fall to determine the need for refill plantings in failed areas areas the following spring. The same species will be used for refill plantings unless there is good reason for a change. Bareroot transplant stock 20-40 cm in height is recommended for plantings on these difficult sites.

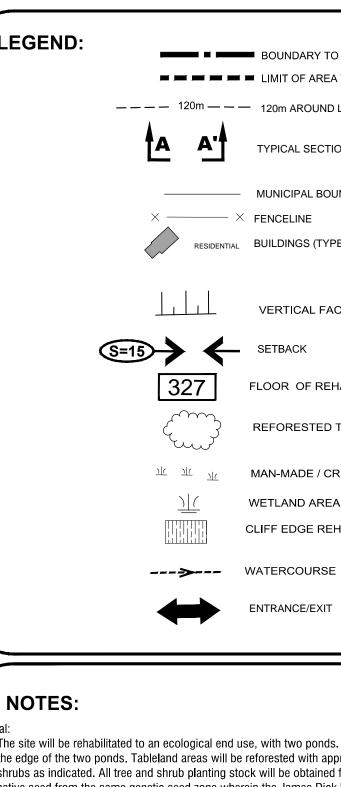
Once Progressive Rehabilitation has commenced:

- Photographic surveys from common vantage points will be taken annually. • Compliance with final ground elevations shown on the rehabilitation plans (subject to minor modification so
- long as rehabilitation objectives are met).
- Quarterly assessment of depth of water (not to exceed 2m) for staff gauges installed within created wetland • Prior to license surrender, a biological survey of wetland vegetation characteristics including species density, distribution and percent cover such that in wetland areas hydrophytic cover will be at least 25% and
- dominated with rushes, grasses and sedges. Biological surveys of target conservation species will be made at the time of license surrender and results of the study will be circulated to the MNRF and the GRCA. Surface water Quality testing will be conducted on a semi annual basis (spring and fall) and will assess nutrient levels (nitrate and phosphorous), pH, dissolved oxygen and alkalinity.

SEDIMENT AND EROSION CONTROL

Due to topographic conditions and the abundance of forest cover on this site, tree protection fencing must be erected at the limit of all setback where ground elevations are equal to or lower than the elevations in the adjacent extraction area. This is particularly required nearby wetlands, in the stream valley and where noise berms are to be constructed. Standard paige wire farm fence or similar fence will be installed in the locations identified on the Operations Plan after tree clearing and grubbing has been completed. Silt screen must also be attached to the paige wire fence where required and have its base covered with soil to ensure it can effectively trap sediment. Along the stream corridor silt fence will be located inside the extraction area and there will be a "no touch zone" within 2 meters of the silt fence.

Exclusion fencing to be removed during final rehabilitation.



- Surface runoff shall be directed toward the onsite ponds. • The access road shall be maintained during the course of progressive rehabilitation efforts. • Fencing shall remain around the perimeter of the quarry licence. • All equipment and machinery within the extraction limits will be removed upon completion of
- extraction. • The area to be rehabilitated is 24.5 ha.

field by the GRCA on June 7, 2013.

- perimeter of the site as shown on the site plans. As part of final rehabilitation, the topsoil in berms will be used to achieve final contours as indicated on the site plans. • If soil becomes significantly compacted, the rehabilitated lands will be ripped prior to the application
- bedrock is variable and micro-habitats are created. • Adequate vegetation will be established and maintained to control erosion of any topsoil or
- overburden replaced on the site for rehabilitation purposes.

Aquatic Rehabilitation

General:

- The onsite ponds are approximately 13.9 ha and 3.5 ha in size. • The predicted final water levels for the lakes are: a) 348.6 masl in the west quarry lake, and b) 348.4 masl, in the east quarry lake.
- The area extracted below the water table will have a variable slope face that will range from 2:1 to vertical slopes.
- aquatic habitat. Habitat enhancement measures for the lakes include the following: boulder features, shoals, and littoral zone development.
- Given the depth of the quarry ponds, it is anticipated to be suitable for walleye and smallmouth bass. • Vertical faces can be modified during the final blast. The quarry face can remain roughened, to create ledges and crevices, thus enhancing micro-habitats.
- Available native, onsite soil and large rock piles or boulders can be dumped over the quarry face to provide a diversity of habitat.

Wetland Creation

- The edges of the quarry ponds will be rehabilitated to create artificial wetlands as indicated. • Wetland communities can be created along the pond edges with a maximum 2 m water
- depth from the final estimated water table, i.e. wetland floor at +/- 346 to 349 m MASL. • In these wetlands, the excavation pattern will be modified to create a slope of approximately 5:1 to 10:1.
- Available overburden and soil can be used to create these slopes as well. • Available soil can be graded to provide a medium for wetland plant communities. • Once the wetland side slope has been graded, a minimum of 100 mm of soil will be
- allowed to naturally regenerate to a wetland habitat.
- broadleaf arrowhead, blueflag, pickerel weed, Bebb's sedge, stipitate sedge, soft rush, bulrush, broad-leaf cattail, white water-lily, water smartweed, sago pondweed, floating pondweed.
- will be randomly planted in small clusters at a 0.5 to 1.0m spacing along the shoreline of the quarry ponds: northern water plantain, broadleaf arrowhead, as well as the species listed in the point above.
- Substrates may vary from bare bedrock to parent mineral material (sand, gravel, cobble) grasses, sedges, and rushes. Water levels within shallow marsh areas will not exceed 2
- Terrestrial Rehabilitation
- The side slopes of the setback areas will be graded to achieve a slope of 2:1. Overburden may be applied to the side slope areas and tableland areas to achieve the necessary grade. A minimum of 100 mm of topsoil will be applied to the graded side slope areas.
- Terrestrial areas will be planted with suitable native shrubs and trees, such as white spruce, white pine and eastern white cedar. Shrubs that may be used include staghorn sumac, red-osier dogwood
- and raspberry. Additional plants are listed on the Site Plan. • The sideslopes and tableland areas of the quarry floor will be covered with available overburden and
- topsoil and seeded with a suitable native upland meadow seed mix. • Should seeding fail, the area shall be re-seeded as soon as possible.
- not to be forested.

SITE PLAN OVERRIDE TABLE

THE FOLLOWING CONDITIONS ILLUSTRATED ON THIS PLAN VARY FROM THE REQUIREMENTS OF THE PROVINCIAL STANDARDS THAT APPLY TO LICENSED PITS IN ONTARIO.

OVERRIDE

VARIANCE OF THE SIDE SLOPES FROM 2:1 IS PERMITTED TO PROMOTE ECOLOGICAL DIVERSIFICATION SELECTED TREES WILL NOT BE REMOVED WITHIN 5M OF THE EXTRACTION FACE. 5.5

BOUNDARY TO BE LICENSED 🖛 🛲 🛲 🛲 🖛 LIMIT OF AREA TO BE EXCAVATED ____ 120m ___ 120m AROUND LICENCE TYPICAL SECTION LOCATIONS — MUNICIPAL BOUNDARY ESIDENTIAL BUILDINGS (TYPE) VERTICAL FACE

FLOOR OF REHABILITATED QUARRY LAKE

REFORESTED TABLELAND AREA MAN-MADE / CREATED WETLANDS

WETLAND AREA CLIFF EDGE REHABILITATION

ENTRANCE/EXIT

• The site will be rehabilitated to an ecological end use, with two ponds. Wetlands will be created along the edge of the two ponds. Tableland areas will be reforested with appropriate native trees and shrubs as indicated. All tree and shrub planting stock will be obtained from nurseries that utilize native seed from the same genetic seed zone wherein the James Dick Property is located.

• Topsoil that is stripped from operational areas will be placed in screening berms around the

of topsoil. The final surface soil layer should be loose with undulations so that soil depth over

• The riparian wetland boundary and the PSW boundary were flagged by GWS staff and verified in the

• The rehabilitated lakes will be approximately 23 m in depth. The lakes will be rehabilitated for fish and

applied to this area to permit the establishment of wetland vegetation. This area will be

 Wetland plants suitable for planting in created wetlands include: Northern water-plantain fowl mana grass, Virginia wild rye, rice cut-grass, woolgrass, dark-green bulrush, softstem

• To help accelerate the natural process of plant succession the following wetland species

to organic substrates. Hydrophytic emergent cover will exceed 25% and be dominated by

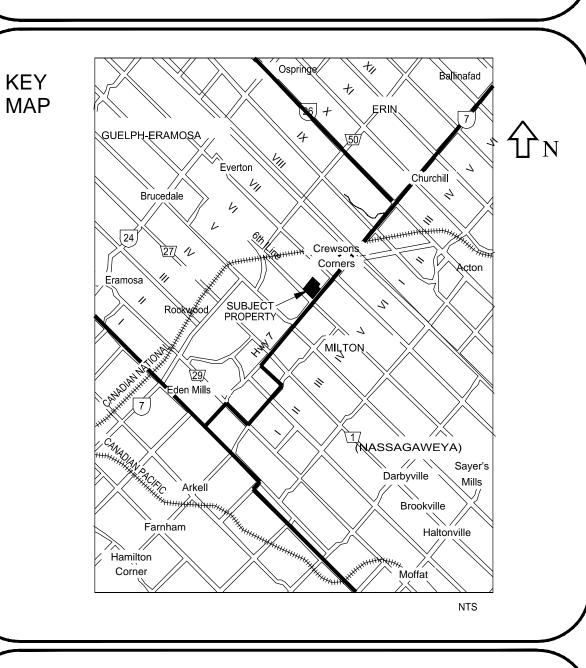
• Minor grading of the setback areas may be required to permit proper final slopes for the site in areas

STANDARD 5.10



PART OF LOT 1, CONCESSION 6 **TOWNSHIP OF GUELPH-ERAMOSA** FORMER TOWNSHIP OF ERAMOSA COUNTY OF WELLINGTON

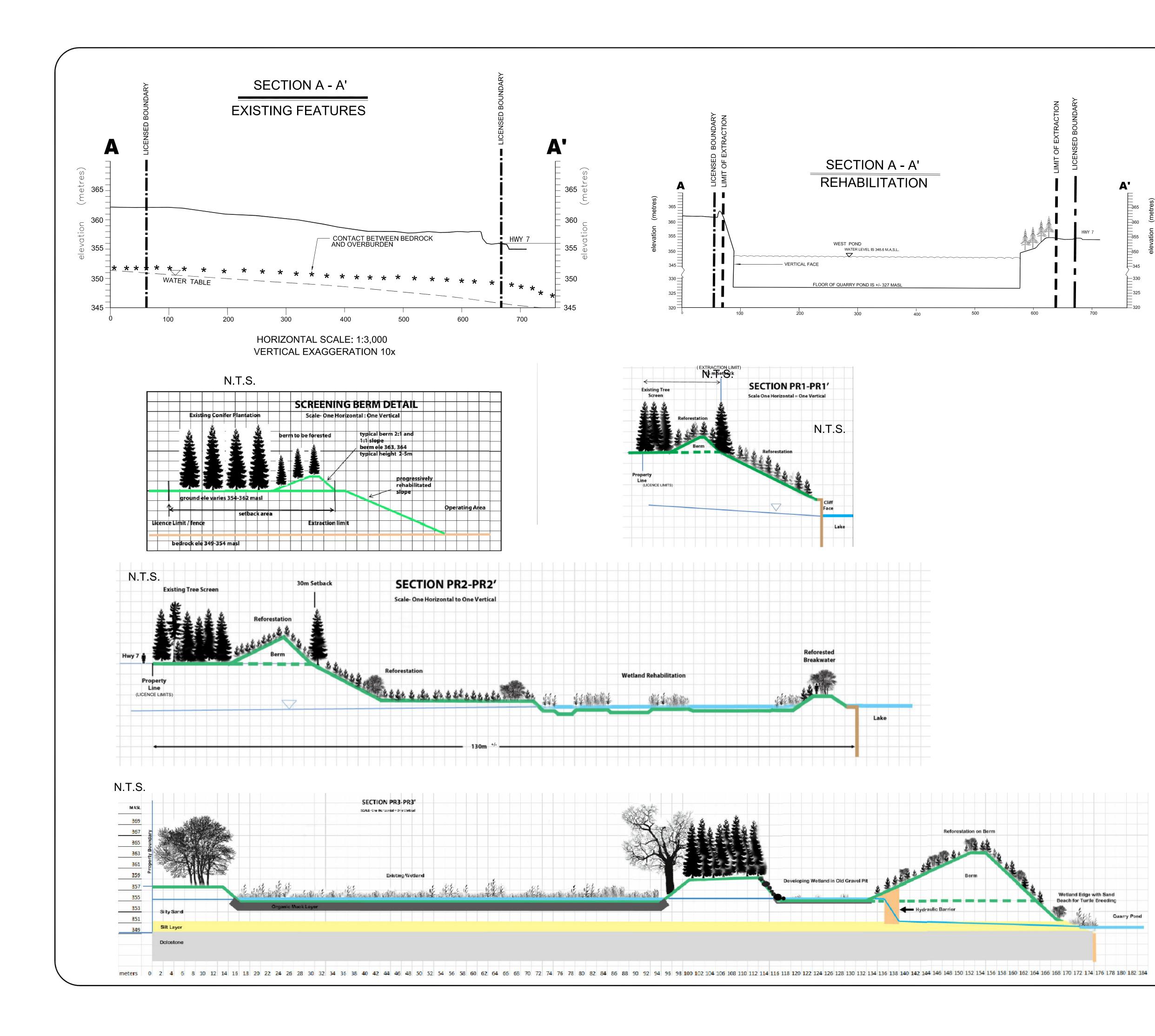
Page 4 of 6 PROGRESSIVE REHABILITATION AND **FINAL** REHABILITATION

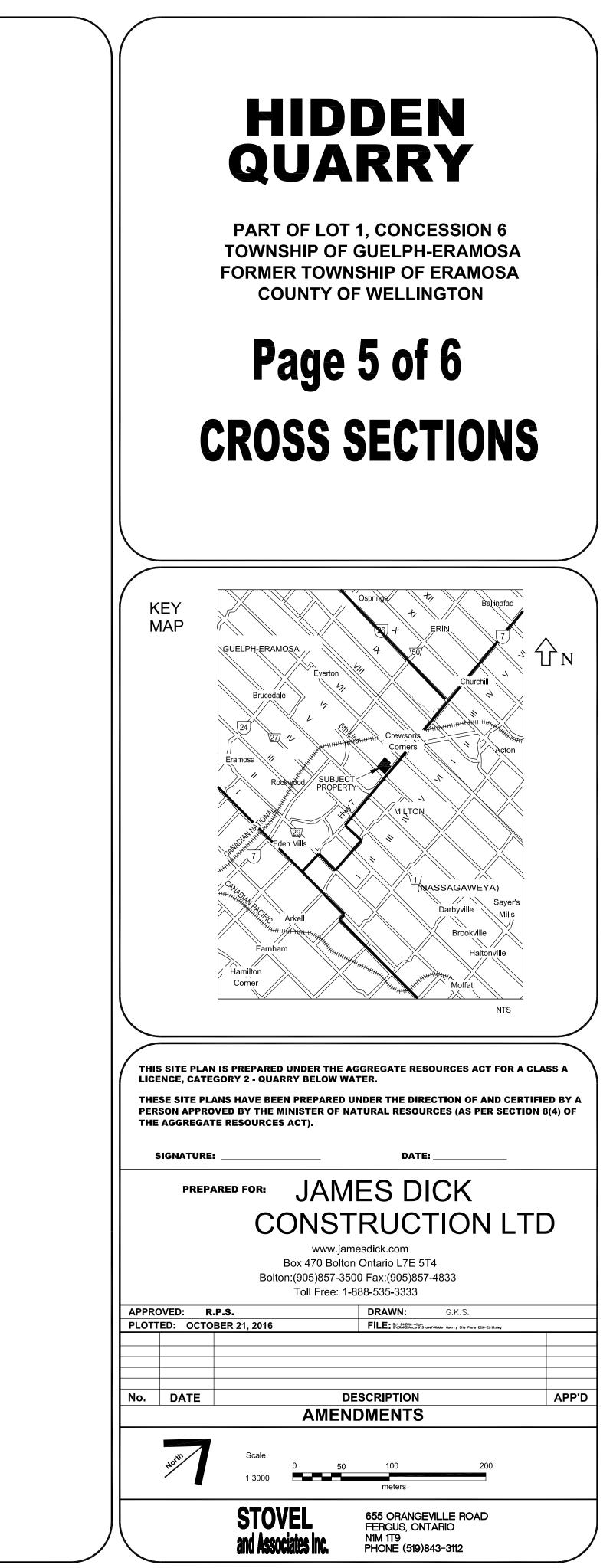


THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS A LICENCE, CATEGORY 2 - QUARRY BELOW WATER. THESE SITE PLANS HAVE BEEN PREPARED UNDER THE DIRECTION OF AND CERTIFIED BY A

PERSON APPROVED BY THE MINISTER OF NATURAL RESOURCES (AS PER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT).

| SIGNATURE: | | | DATE: | | | | |
|---|-------|------------------|--------------------------------------|---------------------------------|--|--------------------|--|
| PREPARED FOR: JAMES DICK CONSTRUCTION LTD | | | | | | | |
| | | | ICNI | | | | |
| | | | • | esdick.com | | | |
| | | | | Ontario L7E 5T4 | | | |
| | | Bolton | 005)857-350 (005): Toll Free: 1-8 | 0 Fax:(905)857-4 88-535-3333 | 4833 | | |
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MONITORING PROGRAM and Contingency Measures

September 22, 2016

1.0 On-Site Monitoring Program

Monitoring has taken place at this site since 1995. An extensive database of background groundwater and surface water elevations and flow measurements has been developed. A detailed monitoring program will continue to ensure that sensitive features and surface water flows are maintained. The monitoring program is designed to identify trends towards unacceptable impacts early on to allow for time to implement contingence measures

The monitoring program for this pit/quarry involves the following activities:

- measuring groundwater levels.
- obtaining water quality samples,
- monitoring water levels in the on-site wetland and stream, and stream flow measurements

We recommend the following monitoring program

| Parameter | Monitoring Locations | Frequency |
|--------------------------------|--|--|
| Groundwater Levels | M1S/D, M2, M3, M4, M6, M13S/D, M14S/D, M15, M16, M17, M18, M19, MPN1, MPN2, MPS1, MPS2, MPE1, MPE2, MPW1, MPW2, TP1, TP8 TP9, MP1, MP2, MP3, MP4 | Manually Monthly Automatic Daily Measurement in M1D, M2 M3, M4, M13D, M15, M16 M18, M19 for year prior to and year following bedrock extraction with re-evaluation of monitoring frequency after 1st year of bedrock extraction. |
| Groundwater Levels | M2, M3, TP1, M13S/D M114S/D, M15, M16, M17 | 5 minute interval during first 12 months of extraction |
| Surface Water Level | Sinking Cut | Between initial blast and establishing safe quarry face daily measurements will be obtained from groundwater monitor M3. Automatic Daily after safe quarry face is established. |
| Surface Water Level | Water Wash Pond | Daily |
| Surface Water Level | DeGrandis Pond | Data Logger |
| Surface Water Level | SW14, SW5, SW7 | Manually Monthly Coincident with groundwater monitoring |
| Surface Water Levels | SW6, SW4, SW8 | Automated Water Level Readings (4 hour interval) |
| Surface Water Flow | SW4, SW8, SW3 | Manually Monthly *coincident with groundwater monitoring |
| Surface Water Flow | Brydson Spring | Daily water levels with associated stream flow rating curve. |
| Groundwater Quality | W1, M2, M3, M4, M15, M16, M17, M18, M19 | Semi-Annually |
| Groundwater Temperature | M4, M16, M18, M19 Brydson Spring | Auto Daily |
| Surface Water Quality | West Pond, East Pond, Northwest Wetland Tributary B (SW4, SW3) | Semi-Annually (Spring and Fall) |
| Climate | On-Site Weather Station at Scale House to include precipitation and temperature | Daily |
| Domestic Wells Water Level | W3, W4, W5, W8, W9, W31 (W7 removed at request of landowner) (see also Section 4.0) | Data Loggers daily |
| Domestic Well Water Quality | W10*, W11, W16*, W17*, W18* W19*, W20, W21, W22, W23, W24 | Quarterly bacteria, nitrate and temperature (*daily temperature data logger) |

Monitoring locations are shown on page 1 of the Site Plans. Offsite residential monitoring is contingent upon permission from the respective property owner. The frequency of offsite monitoring may be revisited in the future based on a review of the data.

Well Identifier Location Addresses for Post Approval Quarterly Sampling

| Well Identifier | Address |
|-----------------|----------------------------|
| W10 | 8540 Hwy 7 |
| W11 | 8554 Hwy 7 |
| W16 | 5134 Hwy 7 |
| W17 | 14321 5th Line Nassagaweya |
| W18 | 14297 5th Line Nassagaweya |
| W19 | 5036 Hwy 7 |
| W20 | 4300 Hwy 7 |
| W21 | 4264 Hwy 7 |
| W22 | 5198 Hwy 7 |
| W23 | 4248 Hwy 7 |
| W24 | 8470 Hwy 7 |

2.0 WARNING AND TRIGGER LEVELS

Groundwater and surface water monitoring will be used at this site to a) verify that actual water level changes in the bedrock aquifer do not exceed those predicted and b) verify that the hydro-period of the northwest wetland does not change. The water level measurements obtained as part of the monitoring program will be used to trigger contingency measures that may be necessary for the mitigation of a low water level in the northwest wetland, a lower than expected water level in the bedrock aquifer or an anomalous low flow level in Tributary B.

The trigger levels are used to initiate contingency and mitigation responses outlined in Section 3. Once water levels recover above the trigger level, normal operations will commence at the site.

2.1 Warning levels

If a warning level is breached, on site manual water levels will increase from monthly to weekly and an analysis will be undertaken to determine the cause. If it is determined that quarry activity is the cause, the activity will be modified to avoid breaching a Trigger Level. Monitoring frequency will return to normal after the level recovers above the warning level.

2.2 Trigger Levels for the Bedrock Aquifer

The greatest water level change in the bedrock aquifer is expected to occur to the north and northwest of the site. Water levels obtained from bedrock monitors M1D, M13D, M14D and M2 will be used to verify that actual water level changes do not exceed the predicted water level change. A warning level of 75% of the predicted change will be used to initiate weekly manual measurements from the groundwater monitors.

Table 1: Trigger Levels for the Bedrock Aquifer

| Monitor | Historical Low | Predicted | Warning | Trigger |
|------------|----------------|-----------|---------|---------|
| | | Change | Level | Level |
| M1D | 350.58 | 0.8 | 349.98 | 349.78 |
| M2 | 349.81 | 2.0 | 348.31 | 347.81 |
| M13D | 352.68 | 1.4 | 351.63 | 351.28 |
| M14D | 353.48 | 1.5 | 351.63 | 351.28 |
| M15 | TBD | | | • |
| M16 | TBD | | | |
| M17 | TBD | | | |
| M4 | TBD | | | |
| M18 | TBD | | | |
| M19 | TBD | | | |
| TBD - to b | e determined | | | |

2.3 Trigger Level for Northwest Wetland and Allen Wetland

Water levels from Station SW6 will be used to trigger contingency measures for the northwest wetland. Historical monitoring has shown that the water level in the wetland is somewhat independent from adjacent groundwater levels and therefore any potential change in the hydro-period is best determined by the surface water level in the wetland.

Trigger levels and warning levels have been determined for three periods as follows:

Winter Trigger Level - lowest water level observed between December 1 and March 1

Spring Trigger Level - lowest water level observed between March 2 and June 15

Summer/Fall Trigger Level - lowest water level observed between June 16 and November 30. A warning level is established 0.15 metres higher than the trigger level.

Table 2: Trigger Levels for the Surface Water Feature

| Table 2: Trigg | Table 2: Trigger Levels for the Surface Water Features | | | | | | | | |
|----------------|--|--|--------------|---------------|-------------|---------|--|--|--|
| Statlon | Winter | Winter | | Spring | | | | | |
| | Warning | Trigger | Warning | Trlgger | Warning | Trigger | | | |
| Northwest | 354.35 | 354.20 | 354.48 | 354.33 | 354.38 | 354.23 | | | |
| Wetland (SW6) | | | | | | | | | |
| Allen Wetland | | The warning level will be a flow rate of less than 25 L/s occurring in May | | | | | | | |
| (SW4) | and the trig | gger level wil | be cessation | of flow prior | to June 22. | | | | |

Manual water level measurements will increase to weekly if the warning level is exceeded

2.4 Trigger Level for Sinking Cut James Dick Construction Ltd. has agreed to a maximum water level change of 2.54 metres in the sinking cut. The nearest groundwater monitor to the sinking cut is M3. The low water level in M3 is 349.37 m AMSL. We propose to use this as the reference elevation resulting in a minimum water elevation in the sinking cut of 349.37 - 2.54 = 346.83 m AMSL. JDCL proposes to hang a buoy from a tether with the buoy floating in the water until the water level falls below an elevation of 346.83 m AMSL. The buoy will be a visual indicator of the minimum allowable water level to the operator. Alternative methods such as a sonic water level reader may be employed. Extraction will cease if the water level falls below 346.83 m AMSL and can only recommence with a water level above 346.83 m AMSL in the sinking cut. James Dick Construction Ltd. will also provide data from an automatic water level

recording device on a weekly basis until data indicates that water levels are remaining consistently above the trigger level.

2.5 Trigger Level for Wash Water Pond Prior to constructing the wash pond, a water monitor MWP (Monitor for Wash Pond) will be established within the footprint of the wash pond. James Dick Construction Ltd has agreed to a maximum water level change along the southern property boundary not to exceed the historical low in M4, M18 and M19. Also, the water level in the wash pond will be monitored and controlled as in the sinking cut with a maximum water level change of 2.54m below the established MWP static water level. Water taking will only occur from the wash pond when water levels are above these limits. Trigger levels will be determined based on lowest historical water levels for M4, M18, and M19 to ensure the water taking from the wash water pond does not have an impact beyond the property boundary.

3.0 Contingency Measures 3.1 Groundwater Levels and Northwest Wetland

- If any trigger level is breached, the following measures will be taken: Confirmation of water level within 24 hours. Increase monitoring to weekly until source of the trigger level exceedence is identified. Data from automatic water level recorders (AWLR) will be downloaded and reviewed on a weekly basis.
- Within seven days complete an evaluation of precipitation, groundwater monitoring data and guarry activities to determine if guarry activities are responsible for the low water level observed. The water level data from the AWLR's will be plotted and the water level trends analyzed so that the time it will take for the water level to recover
- above the trigger level can be predicted. Data from all ALWRs will be provided to the Township of Guelph Eramosa on a bi-weekly basis until the data indicates that water level are remaining consistently above the trigger level.
- If quarry activities are found to be responsible, James Dick Construction Ltd. will undertake one of the following contingency measures and a response will be presented to the MNRF, the GRCA, and the Township of Guelph Eramosa.
- Decrease the rate of or cease below water table extraction
- Increase the length or width of the hydraulic barrier Alter mining configuration or mining extent
- Alter timing of mining activities to coincide with seasonal high water level
- If quarry activity is not found to be the cause or contributor to the trigger level breach,
- then quarry activity will continue and monitoring frequency will return to normal. 3.2 Water Quality
- The water quality program will commence at least one year prior to bedrock extraction. Groundwater Monitors and the East and West Pond

The monitoring parameters that will be included in the semi-annual monitoring will be general chemistry (includes pH, electrical conductivity, TSS, hardness/alkalinity), cryptosporidium. giardia, E. coli, TKN, ammonia, DOC, pH, temperature, anions and metals. In the event the quarry operation causes a parameter to exceed the Ontario Drinking Water Standard, James Dick will commence the following actions:

- Semi-annual testing (commencing immediately) of the water quality of private wells that could potentially be impacted by the quarry. In the event that the quarry operation causes water in a private well to become
- unpotable. JDCL will offer to return the water quality to within ODWQ Standards by providing appropriate treatment in the home, drilling a new well or isolating the water supply to the deeper aquifer.

Northwest Wetland The northwest wetland water will be analyzed for nitrate, dissolved oxygen, temperature, conductivity and pH for a period of three years or upon completion of construction activities (i.e. berms, barriers, access roads) in the surface water catchment area of the northwest wetland whichever is longer. Sampling will occur on a semi-annual basis.

Domestic Wells Private domestic wells W10, W11, W16, W17, W18, W19, W20, W21, W22, W23 and W24 will be sampled four times a year for bacteria, temperature and nitrate. Wells equipped with data loggers will record temperature daily with levels. 3.3 Water Temperature Monitoring

Based on current industry information, the guarry is not expected to cause any unacceptable off site temperature impacts on downstream surface or ground water. In order to ensure this is the case, water temperature monitoring will take place at all on site monitoring wells that have a data logger. This will provide a large data set with a high frequency of data points. In addition, subject to owner permission, water temperature monitoring will take place at the Brydson Spring and at private residential wells that either have data loggers or that take part

in the Domestic Well Water Quality program. Water temperature data will be analyzed for any trends in order to identify if there are any potential effects on site prior to there being any off site. The cause of any trends will be investigated and appropriate measures (consideration of technical solutions - barriers, change in extraction plan, etc.) will be taken to ensure the quarry does not cause any unacceptable impacts to off site water users. The analysis and recommendations will form

part of the annual monitoring report. 4.0 Pre-Bedrock Extraction Water Well Survey

A detailed water well survey shall be completed prior to the commencement of the extraction of bedrock resources. This survey will as a minimum include all wells in the shaded area shown on Figure C8 dated December 2014. The well survey will include the following;

- construction details of the well (drilled, bored, sand point etc..) depth of well and depth of pump
- location of well relative to septic system
- static water level history of water quantity or quality issues

• comprehensive water sample including bacteriological analysis, general chemistry (includes pH, electrical conductivity, TSS, hardness/alkalinity), anions and metals, temperature

one hour flow test

The purpose of the survey is to have a baseline evaluation of both water quality and water quantity in nearby water wells. Should an issue arise with a local water well, the baseline data can be used as a reference against future measurements. If there are domestic wells suitable for water level monitoring identified in the survey, they will

be included in the water level monitoring program and monitored on a semi-annual basis. If the survey indicates that modification(s) to the well are necessary either for continued monitoring or to minimize the potential for impact, the modifications will be made to the well at the expense of James Dick Construction Ltd.

5.0 Annual Monitoring Report and Interpretation An annual report will be prepared and submitted to the Ministry of the Environment and the Ministry of Natural Resources on or before March 31st of the following calendar year. The report will be prepared by a qualified professional, either a professional engineer or a professional geoscientist

The monitoring report will include all historical monitoring data and an interpretation of the results with respect to potential impact to the quality and quantity of bedrock groundwater, hydro-period of the northwest wetland and streamflow loss from Tributary B. 6.0 WATER WELL COMPLAINTS

James Dick Construction Ltd. agrees to inform the Township of Guelph Eramosa, Town of Milton, Region of Halton and the Ministry of the Environment upon the receipt of a water well complaint and the results of any related investigation. A detailed well complaint protocol is attached as Appendix A.

7.0 ONTARIO LOW WATER RESPONSE PROGRAM The quarry operation will comply with any requirements of the Ontario Low Water Response Program.

Appendix A

Water Well Complaint Protocol - Hidden Quarry

James Dick Construction Ltd. has committed to remedving any and all issues arising as a result of quarry activities. The following complaint protocol will be followed

- Complaints about water well issues will be received any time at _____. Text
- messages can be sent to ____ or email to ____@___ James Dick Construction Ltd. has a water well contractor on stand-by to address any water quantity or quality issue that arises.

In the event of a water shortage a supply of bottled water for drinking/cooking will be delivered within 12 hours of the complaint and an alternative water supply will be delivered within 24 hours of the complaint being received. The same commitment is made for agricultural operations and includes sufficient water supply for all farm requirements.

Within 48 hours, JDCL will initiate a hydrogeological investigation conducted by an independent hydrogeologist to determine the cause of the water issue. The investigation will include but not be limited to the following actions;

- Confirmation of water levels in on-site groundwater monitoring wells Review of historical trends in groundwater levels and groundwater quality obtained in on-site groundwater monitoring wells.
- Review of historical measured precipitation rates
- Interview with resident regarding well complaint Investigation of subject well including flow testing, water level
- measurements and water quality testing if necessary
- Written report summarizing the findings. In the event that quarry activities are likely to be the cause of the complaint, James Dick Construction will undertake appropriate mitigative measures such as;
- Lowering the level of the pump within the well
- Extending the cased portion of the well
- Deepening the well
- Well replacement Water Treatment
- Modification of guarry activities.

BEST MANAGEMENT PRACTICES FOR DUST

1 INTRODUCTION

OVERVIEW

This Best Management Practice Plan (BMPP) for dust was prepared for James Dick Construction Limite (JDCL)

- for implementation at their proposed Hidden Quarry. This site has two distinct stages of operations The first stage occurs above water, and involves site preparation, above-water extraction of
- aggregate via front-end loader or excavator, transportation, processing, washing, stockpiling and shipping. • The second stage of operations occurs at and below the water table, and involves underwater drilling, blasting, and extraction of aggregate via dragline, dewatering, transportation,
- processing, washing, stockpiling and shipping.
- This plan includes dust control measures that meet or exceed the current industry standards. Implementation of these measures will ensure that dust is effectively controlled and off-site impacts are minimized.

1.2 COMPONENTS OF A BEST MANAGEMENT PRACTICES PLAN

- A BMPP outlines the fugitive dust sources at a given site and describes the measures that shall be used to control emissions from these sources. The MOECC requires that a BMPP for dust must include the following:
- Details regarding the size and composition of the dust;
- A description of the emission sources from the facility; A summary of control measures that are or will be put in place as part of the BMP
- An implementation schedule for the control measures: An implementation plan for the control measures;
- Details regarding the inspection and maintenance schedule; and,
- A description of the planned monitoring and record keeping activities.
- 1.3 SIZE AND COMPOSITION OF FUGITIVE DUST AT SAND & GRAVEL OPERATIONS
- Typically, the dust at an aggregate operation has the following characteristics
- Primarily composed of calcium carbonate, oxides of iron, magnesium and aluminium and/or Fraction of dust smaller than 10 micrometres (PM). 19-55%1.
- Fraction of dust smaller than 2.5 micrometres (PM2.5), 3-14%1, and, • Crystalline silica content of onsite material, with measured values of less than 8%.

1.4 OVERVIEW OF THE BEST MANAGEMENT PRACTICES PLAN

This document provides a separate section for fugitive dust sources at the facility, including a description of each source, complete with control measures applicable to that source.

- 1 Based on data from the AP-42 Compilation of Air Pollutant Emission Factors, published by the States Environmental Protection Agency
- 2 SITE PREPARATION

2.1 ACTIVITIES INCLUDED

Overburden removal using an excavator and haul trucks. Berm construction using haul trucks and bulldozer.

- 2.2 CONTROLS FOR OVERBURDEN REMOVAL AND BERM CONSTRUCTION Avoid overburden removal and berm construction operations, if possible, during dry months, i.e.
- July, August and September and during peak periods of extraction and processing of aggregates Overburden removal and berm construction operations shall be monitored hourly when the
- following criteria are met:
- Dry weather is anticipated Overburden removal activities are within 165 m of a residence including the mushroom barn; and, Winds are anticipated to be blowing towards the residence.
- If visible dust is observed under these conditions, these operations shall be reduced, or additional mitigation measures shall be undertaken, such that visible dust is prevented from leaving the site
- 3 AGGREGATE EXTRACTION
- 3.1 ACTIVITIES INCLUDED
- Excavation and loading of sand and gravel onto off-road haul trucks at working face by excavators and /or front end loader during above-water sand and gravel extraction operations.
- Sub-aqueous drilling, sub-aqueous blasting, extraction of aggregate via dragline, dewatering and loading of shot rock onto off-road haul trucks at working face by excavators and / or front end loader during below-water quarry operations.

3.2 CONTROLS FOR ABOVE-WATER SAND AND GRAVEL EXTRACTION

- Excavation and loading operations shall be monitored hourly when all of the following criteria are
- Drv weather is anticipated • Excavation and loading activities are within 165 m of a residence including the mushroom barn;
- Winds are anticipated to be blowing towards the residence.
- If visible dust is observed under these conditions, these operations shall be reduced, or additional mitigation measures shall be undertaken, such that visible dust is prevented from leaving the site.

- 3.3 CONTROLS FOR BELOW-WATER QUARRYING OPERATIONS
- Fugitive dust emissions from the sub-aqueous drilling, sub-aqueous blasting, extraction of aggregate via dragline and dewatering activities are expected to be minimal to non-existent. • Loading operations shall be monitored hourly when all of the following criteria are met:

- Drv weather is anticipated. • Excavation and loading activities are within 165 m of a residence; and,
- Winds are anticipated to be blowing towards the residence If visible dust is observed under these conditions, these operations shall be reduced, or
- additional mitigation measures shall be undertaken, such that visible dust is prevented from leaving the site
- 4 AGGREGATE PROCESSING
- 4.1 ACTIVITIES INCLUDED
- Aggregate crushing, screening, washing and stockpiling at the portable processing plant. Aggregate crushing, screening, washing and stockpiling at the permanent processing plant.
- 4.2 CONTROLS FOR PORTABLE PROCESSING PLANT
- The portable processing plant, stockpile area and loading of trucks around the stockpiles shall be at least 300 metres from the nearest residence
- The portable processing plant shall be equipped with a water spray system. Spray bars shall located at various locations as needed to control visible dust emissions such as at the crusher,
- screen, and on the conveyor belt system. Watering rate will be set as needed to suppress visible dust.
- For screenings and other high-fines materials, stackers will be kept as close to the tops of stockpiles as is feasible, to achieve a drop height of approximately 1m or less. The processing rate shall not exceed 400 tonnes/hour.
- When the temperature is below 4°C, the use of water sprays is not feasible. Under these
- conditions, operations shall be reduced, or other mitigation measures implemented. such as enclosures or wind screens, such that visible dust is prevented from leaving the site. 4.3 CONTROLS FOR PERMANENT PROCESSING PLANT
- The permanent processing plant, stockpile area and loading of trucks around the stockpiles shall only be located within the processing plant area shown on the Operational Plan. The permanent processing plant shall be equipped with a water spray system. Spray bars shall be located at various locations as needed to control visible dust emissions such as at the crusher, screen, and on the conveyor belt system.
- Watering rate will be set as needed to suppress visible dust.
- For screenings and other high-fines materials, stackers will be kept as close to the tops of stockpiles as is feasible, to achieve a drop height of approximately 1m or less. The processing rate shall not exceed 500 tonnes/hour
- When the temperature is below 4°C, the use of water sprays is not feasible. Under these conditions, operations shall be reduced, or other mitigation measures implemented, such that visible dust is prevented from leaving the site.
- HAUL ROUTES
- 5.1 ACTIVITIES INCLUDED
- Unpaved haul routes for haul truck traffic from working face to processing plant Unpaved haul routes in and around the processing plant area.
- Paved haul route for shipping traffic from the site entrance to the processing plant loop. 5.2 CONTROLS FOR UNPAVED HAUL ROUTES

- A water truck and sufficient water supply shall be available to provide water to all significant unpaved traffic areas • The watering system shall be able to deliver the water evenly over the haul route surface, and shall have the capacity to deploy water on all active haul routes at a rate of at least 1.5
- L/m2/hour The actual watering rate shall vary, depending on surface moisture conditions and traffic conditions, and shall be triggered by the Operational Watering Forecasting guidance provided
- Section 8 of this BMP Plan • At the start of each day, prior to trucks accessing the haul routes, the travel surfaces will be inspected, and water will be applied if dry conditions are found.
- A speed limit of 20 km/h shall be posted near the site entrance. Haul truck and highway truck operators will be directed to observe the speed limit. When the temperature is below 4°C, watering is not recommended for safety reasons. Under
- these conditions, operations shall be reduced, or other mitigation measures implemented such that visible dust is prevented from leaving the site.
- 5.3 CONTROLS FOR PAVED HAUL ROUTES
- A section of the internal haul route, extending from the site entrance to the processing plant loop, shall be paved
- 6th Line, from the site entrance, south to Highway 7 shall be paved.
- A speed limit of 20 km/h shall be posted near the site entrance. Haul truck and highway truck operators will be directed to observe the speed limit. The facility shall have the capability to flush the on-site paved surface, as well as south along
- 6th Line from the site entrance to Highway 7. In dry weather, the on-site paved surfaces as well as 6th Line, south to Highway 7, shall be inspected at the end of each day's shift and flushed if necessary to provide a clean entrance
- the start of the next day's operations. • The frequency of flushing shall vary, depending on surface moisture conditions and traffic levels, and shall be triggered, as soon as practical, whenever routine inspections indicate that there is visible track- out on the pavement (may need to be flushed once or twice per day, during peak operating periods).
- When the temperature is below 4°C, flushing is not recommended for safety reasons. Under these conditions, other mitigation measures, such as sweeping, shall be implemented.

6 WIND EROSION

metres in total width.

7.1 ACTIVITIES INCLUDED

processing of aggregates.

Drv weather is anticipated.

leaving the site

when the following criteria are met:

hourly

- 6.1 ACTIVITIES INCLUDED
- · Wind erosion may occur at disturbed areas, or at stockpiles that have relatively high silt contents, such as screenings or granular aggregate • Disturbed areas include the working face during above-water sand and gravel extraction,
- that have been stripped but not yet extracted, and areas that have been extracted but not ye rehabilitated.
- Wind erosion of these piles will only occur when winds exceed a threshold wind speed level, which is typically on the order of 5-7 metres per second (18-25 km/h).

- The amount of disturbed area will be kept to the minimum necessary for extraction to proceed

Stockpiles of finer-grained material will be located on the eastern side of the plant area so as

retained around the perimeter of the site as is shown on the ARA site plans. At least 3 rows

of conifers shall be retained where possible, forming a screen of trees approximately 10

adjacent trees shall be retained until such time as the reforestation achieves a height of 2m.

rehabilitation activities involving berm removal, establishing appropriate slopes, final grading,

etc. This work will be done using excavators, front-end loaders, haul trucks and dozers.

 Avoid overburden removal, berm construction and rehabilitation operations, if possible. during dry months, i.e. July, August and September and during peak periods of extraction and

Overburden removal, berm construction and rehabilitation operations shall be monitored

If visible dust is observed under these conditions, these operations shall be reduced, or

additional mitigation measures shall be undertaken, such that visible dust is prevented from

Where berms are constructed, these shall be reforested at the earliest date possible and

• While the final rehabilitation plan for much of the site will be open water, there will be

in an efficient manner. Progressive rehabilitation will be used to reduce erosion from

• The site is surrounded by pine plantation and other forest cover. These trees shall be

extracted areas, in accordance with recommendations in Section 8.

to be sheltered from prevailing winds by other piles

PROGRESSIVE AND FINAL REHABILITATION

7.2 CONTROLS FOR REHABILITATION OPERATIONS

Overburden removal activities are within 165 m of a residence; and,

• Winds are anticipated to be blowing towards the residence.

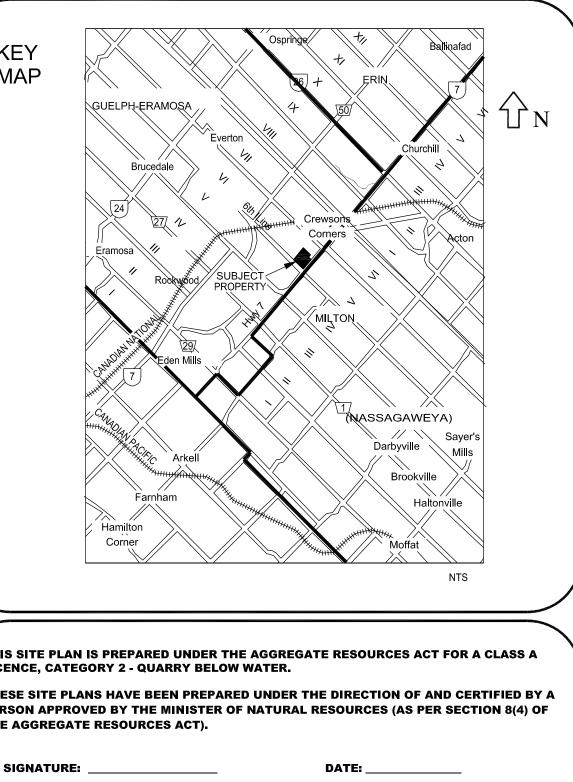
6.2 CONTROLS FOR WIND EROSION

| | to use observations of meteo | prological conditions to en | sure that dust is mitigated. | | | |
|---|--|---|--|--|--|--|
| 8.2 | CONDITIONS UNDER WI | HICH WATERING IS REC | QUIRED | | | |
| | The site operator should monitor local weather conditions using local weather forecasts. The frequency of watering shall be determined approximately using the guidance provided in the table below: | | | | | |
| | Temperature | Relative Humidity | Hours Between Watering @ 1.5 L/m2. | | | |
| | 4-10°C | 75% or less 75-90% | 3 | 7 | | |
| | | 90-100% 75% or less | 15 1.5 | | | |
| | 10-20°C | 75-90% 90-100% | 3 7 1 | | | |
| | Above 20°C | 75% or less 75-90% 90-100% | 1 1.5 3 | | | |
| Rega Vhe hes risib | lowing toward the resident on the temperature is below e conditions, operations sl le dust is prevented from l | e, watering will be implem ces adjacent to the site. v 4°C, watering is not reco nall be reduced, or other n | nented immediately if dust is observed ommended for safety reasons. Unde nitigation measures implemented suc | er | | |
| 1 | ADMINISTRATION | | | | | |
| 9.1 | IMPLEMENTATION SCH | EDULE | | | | |
| | | | efore operations commence. | | | |
| | IMPLEMENTATION PLAN | - | es shall be provided to relevant new a | and | | |
| exist The | ing staff at a minimum of c company's management s | once every 3 years, and in shall communicate the BM | the event of changes to the BMPP. IPP to responsible supervisors, who s | | | |
| ensu The | ire personnel are following Site Manager shall be res | operating procedures de ponsible for ensuring the l | fined in the BMP. 3MPP is followed. | | | |
| | agement shall ensure the BMPP shall be kept or | | ly. with other health and safety inform | nation | | |
| | procedures on site). | | | | | |
| 10 | INSPECTION & MONI | TORING | | | | |
| | | | | | | |
| 0.1 | | | | uro it io | | |
| | water spray system for the | e portable processing pla | nt shall be inspected regularly to ensu | ILE IL IS | | |
| <u> </u> | ood condition; ular inspection and mainte | nance of the water truck | will be performed to ensure the truck a | and | | |
| egi vate Vee | ular inspection and mainte or delivery system are alwa kly inspection of the pave | ays in good condition. | will be performed to ensure the truck a ed out, and maintenance will be perfo | | | |
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PART OF LOT 1, CONCESSION 6 **TOWNSHIP OF GUELPH-ERAMOSA** FORMER TOWNSHIP OF ERAMOSA COUNTY OF WELLINGTON

Page 6 of 6 Monitoring Plan and Contingency Measures



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