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SEQUENCE OF OPERATION AND PROGRESSIVE REHABILITATION

- PRIOR TO ANY ON-SITE OPERATIONS, CONSTRUCT OR UPGRADE THE FENCING ON THE BOUNDARIES OF THE LICENSED AREA TO THE STANDARDS OF THE AGGREGATE RESOURCES ACT (1.2 m HIGH POST AND WIRE FENCE), EXCEPT WHERE SITE PLAN OVERRIDES ARE NOTED. INSTALL A SUITABLE GATE AT THE ENTRANCE TO THE SITE ON THE SOUTH LICENCE BOUNDARY. WHERE FENCING IS NOT ERECTED, LICENCE BOUNDARIES SHALL BE DELINEATED WITH HIGHLY VISIBLE MARKER POSTS. ALL FENCING AND MARKERS SHALL BE MAINTAINED.
- IDENTIFY LIMITS OF EXTRACTION FOR PHASE 1 AND THE SOUTH PORTION OF PHASE 2 BY SURVEY BASED ON THE MINIMUM PIT FLOOR ELEVATIONS SHOWN ON THIS PLAN. LIMITS OF EXTRACTION TO BE MARKED WITH STAKES DRIVEN SECURELY INTO THE GROUND AND PAINTED OR MARKED TO BE HIGHLY VISIBLE. AT A MINIMUM SEPARATION DISTANCE OF 30 m, EXTRACTION LIMITS TO BE IDENTIFIED AND STAKED FOR A MINIMUM OF 100 m IN ADVANCE OF STRIPPING AND EXCAVATING OPERATIONS. STAKES TO BE MAINTAINED UNTIL EXTRACTION IN THAT AREA HAS BEEN COMPLETED AND REHABILITATION HAS BEEN INITIATED.
- STRIPPING AND EXTRACTION TO START AT THE SOUTH END OF PHASE 1 AND PROCEED IN A NORTHERLY DIRECTION. DURING EXTRACTION IN PHASE 1, AGGREGATE WILL BE STOCKPILED IN THE AREA AT THE SOUTH END OF THE SITE AS SHOWN ON THIS PLAN.
- PRIOR TO EXTRACTION, STRIP TOPSOIL AND OVERBURDEN SEPARATELY AND PLACE THE MATERIAL IN STORAGE BERMS AT THE APPROXIMATE LOCATIONS SHOWN.
- A SCALE AND OFFICESCALE HOUSE MUST BE CONSTRUCTED IN THE AREA SHOWN AT THE SOUTH END OF THE SITE, IF AND/OR WHEN NEEDED.
- EXTRACTION AT THE SOUTH END OF PHASE 2 WILL PROCEED IN A NORTHERLY DIRECTION. WITH EXTRACTION LIMITS TO BE IDENTIFIED AND STAKED FOR A MINIMUM OF 100 m IN ADVANCE OF STRIPPING AND EXCAVATING OPERATIONS. PHASE 1 TO BE COMPLETED AND PROGRESSIVELY REHABILITATED BEFORE EXTRACTION IN PHASE 2 IS COMPLETE.
- EXTRACTION AT THE SOUTH END OF PHASE 3 WILL PROCEED IN A NORTHERLY DIRECTION. WITH EXTRACTION LIMITS TO BE IDENTIFIED AND STAKED FOR A MINIMUM OF 100 m IN ADVANCE OF STRIPPING AND EXCAVATING OPERATIONS. PHASE 2 TO BE COMPLETED AND PROGRESSIVELY REHABILITATED BEFORE EXTRACTION IN PHASE 3 IS COMPLETE, WITH THE EXCEPTION OF THE HAUL ROUTE WHICH SHALL BE MAINTAINED UNTIL EXTRACTION AND REHABILITATION IN PHASE 3 IS COMPLETE.

OPERATIONAL NOTES

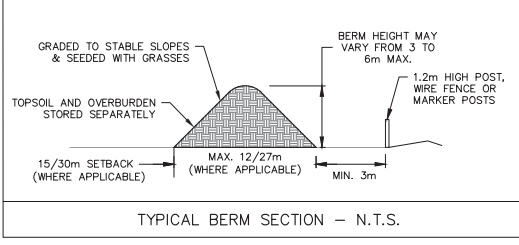
- SEQUENCE AND DIRECTION:** OPERATIONS IN THE PIT WILL GENERALLY PROCEED FROM SOUTH TO NORTH, IN ACCORDANCE WITH THE DIRECTIONAL ARROWS SHOWN ON THIS PLAN. EXTRACTION, STRIPPING AND REHABILITATION AREAS SHOWN ARE SCHEMATIC AND MAY VARY. THE PIT SHALL BE OPERATED IN THREE PHASES. PHASES DO NOT REPRESENT ANY SPECIFIC OR EQUAL TIME PERIOD. REHABILITATION WILL BE PROGRESSIVE AND SHALL PROCEED AS OUTLINED BELOW. AS THE LIMIT OF EXTRACTION IS REACHED IN ANY PARTICULAR AREA, THAT AREA SHALL BE REHABILITATED AS OUTLINED IN THE REHABILITATION PLAN (DRAWING 3). THE PROCESSING AREA MAY BE RELOCATED AS REQUIRED AND WILL GENERALLY FOLLOW EXTRACTION. NOTWITHSTANDING THE OPERATIONAL AND REHABILITATION NOTES, DEMAND FOR CERTAIN PRODUCTS OR BLENDING OF MATERIALS MAY REQUIRE MINOR DEVIATIONS IN THE EXTRACTION AND REHABILITATION SEQUENCE. ANY MAJOR DEVIATIONS SHALL REQUIRE APPROVAL IN WRITING FROM MNRF.
- TOPSOIL, SUBSOIL AND OVERBURDEN STRIPPING AND STOCKPILING:** AREAS WITHIN THE LIMIT OF EXTRACTION WILL BE STRIPPED OF TOPSOIL, SUBSOIL AND/OR OVERBURDEN IN STAGES, IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS. TOPSOIL, SUBSOIL AND OVERBURDEN SHALL BE SEPARATELY STRIPPED AND EITHER USED IMMEDIATELY FOR PROGRESSIVE REHABILITATION OR TEMPORARILY STORED IN BERMS AND/OR STOCKPILES. WHERE THERE ARE DISTINGUISHABLE LAYERS AND SUFFICIENT THICKNESS TO ALLOW IT, TOPSOIL AND SUBSOIL WILL BE STRIPPED AND STORED SEPARATELY AND REPLACED ON THE PIT FLOOR AND END SLOPES DURING SITE REHABILITATION IN A SIMILAR MANNER. NO TOPSOIL SHALL BE REMOVED FROM THE SITE.
- TOPSOIL/OVERBURDEN STORAGE:** ALL TOPSOIL AND OVERBURDEN NOT BEING USED IMMEDIATELY FOR PROGRESSIVE REHABILITATION SHALL BE STORED IN BERMS WHERE SHOWN, OR ON THE PIT FLOOR IN STOCKPILES. STOCKPILES SHALL NOT BE LOCATED WITHIN 30 m OF ANY LICENCE BOUNDARY EXCEPT IN THE FORM OF BERMS. ALL TOPSOIL, SUBSOIL AND OVERBURDEN STOCKPILES SHALL BE A MAXIMUM OF 6 m IN HEIGHT, GRADED TO STABLE SLOPES AND SEEDED WITH A SUITABLE GRASS/LEGUME MIXTURE TO PREVENT EROSION. BERMS SHALL BE CONSTRUCTED AND MAINTAINED AS SHOWN IN THE BERM DETAIL. REFER TO NOTE 15 UNDER TECHNICAL RECOMMENDATIONS FOR REMOVAL OF STOCKPILES FROM AREAS LONGER THAN 90 DAYS.
- LIFTS:** EXTRACTION WILL OCCUR IN ONE (1) LIFT, WITH A MAXIMUM ESTIMATED LIFT HEIGHT OF 11 m, AND SHALL BE CARRIED OUT IN ACCORDANCE WITH MINISTRY OF LABOUR REQUIREMENTS.
- HAUL ROADS:** AN INTERNAL HAUL ROAD SHALL BE ESTABLISHED ON THE PIT FLOOR IN PHASES 2 AND 3 AS SHOWN APPROXIMATELY ON THIS PLAN AND SHALL BE MAINTAINED UNTIL EXTRACTION AT THE NORTH END OF THE PIT IS COMPLETED. THE EXISTING ACCESS TRAIL LOCATED WEST OF THE EXTRACTION AREA SHALL NOT BE USED FOR PIT OPERATIONS IN THE AREA NORTH OF THE FORMER WAYSIDE PIT (PHASE 1).
- ENTRANCE/GATE:** THERE WILL BE ONE ENTRANCE/EXIT TO THE PIT LOCATED ON THE SOUTH LICENCE BOUNDARY. AS SHOWN, USING THE EXISTING ACCESS ROAD FROM SOUTHGATE ROAD 04. A GATE, WITH A MINIMUM HEIGHT OF 1.2 m, SHALL BE INSTALLED AND MAINTAINED AT THE SITE ENTRANCE/EXIT. THE GATE SHALL BE CLOSED WHEN THE PIT IS NOT IN OPERATION.
- AREA OF EXTRACTION:** THE IDENTIFIED AREA TO BE EXCAVATED IS 5.77 HECTARES. THE LICENSED AREA IS 13.38 HA.
- GROUNDWATER TABLE:** THE SEASONAL HIGH WATER TABLE ELEVATION AT THE SITE WAS IDENTIFIED IN THE HYDROGEOLOGICAL ASSESSMENT REPORT PREPARED BY GSS ENGINEERING CONSULTANTS LTD. (DECEMBER 2021) AND VARIED FROM 492.2 TO 491.0 m.
- SURFACE DRAINAGE:** SURFACE DRAINAGE FROM OPERATIONAL AREAS SHALL BE BY INFILTRATION INTO THE PIT FLOOR. NO SURFACE RUNOFF FROM OPERATIONAL AREAS SHALL BE DIRECTED TO, OR ALLOWED TO FLOW TO, THE WETLANDS LOCATED EAST AND WEST OF THE PIT, TO REDUCE THE POTENTIAL FOR SURFACE RUNOFF TO THE ADJACENT WETLANDS FROM AREAS THAT HAVE BEEN STRIPPED. STRIPPING SHALL OCCUR NO MORE THAN 150 m IN ADVANCE OF THE WORKING FACE. SHALLOW SWALES SHALL BE CONSTRUCTED AT THE EAST AND WEST MARGINS OF THE STRIPPED AREA TO DIRECT EXCESS RUNOFF IN A SOUTHERLY DIRECTION TOWARD THE AREA OF EXTRACTION, WHERE IT WILL INFILTRATE INTO THE PIT FLOOR. AS REHABILITATION IS COMPLETED, THE SITE SHALL BE GRADED AS SHOWN ON DRAWING 3. NO OFF-SITE RUNOFF SHALL OCCUR UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN ESTABLISHED.
- FENCING:** POST AND WIRE FENCING (MINIMUM HEIGHT 1.2 m) SHALL BE INSTALLED AND MAINTAINED ALONG THE NORTH, SOUTH, NORTHWEST, AND SOUTHWEST LICENCE BOUNDARIES, AS SHOWN ON THIS PLAN. NO FENCING IS PROPOSED FOR THE EAST AND WEST LICENCE BOUNDARIES ADJACENT TO THE WETLANDS (SEE OVERRIDE 1). ALL UNFENCED LICENCE BOUNDARIES SHALL BE DELINEATED WITH HIGHLY VISIBLE MARKER POSTS (MINIMUM HEIGHT 1.2 m) AT EACH CORNER OR OTHER CHANGE IN ALIGNMENT AND WITH A MINIMUM SPACING OF 60 m ALONG THE UNFENCED BOUNDARIES. REQUIRED FENCING AND MARKERS SHALL BE ERECTED PRIOR TO THE START OF ON-SITE EXTRACTION.
- PROPOSED BUILDINGS AND STRUCTURES:** IF AND/OR WHEN NEEDED, AN OFFICESCALE HOUSE AND SCALE WILL BE ERECTED AT THE SOUTH END OF THE SITE IN THE AREA SHOWN (SEE OVERRIDE 2 FOR PLACEMENT OF SCALE AND/OR OFFICESCALE HOUSE). FROM TIME TO TIME, OFFICE TRAILERS MAY BE BROUGHT ONTO THE SITE FOR THE USE OF WORKERS DURING OPERATIONAL HOURS. THESE PORTABLE STRUCTURES WILL BE LOCATED AS REQUIRED BY SITE OPERATIONS.
- SETBACKS:** EXCAVATION SETBACKS SHALL BE A MINIMUM OF 15 m ALONG ALL LICENCE BOUNDARIES, EXCEPT AS NOTED FOR WETLANDS LOCATED EAST AND WEST OF THE EXTRACTION AREA. MINIMUM SETBACKS FOR AGGREGATE ACTIVITY FROM THE IDENTIFIED WETLAND BOUNDARIES RANGE FROM 15 TO 30 m, DEPENDING ON: A) ADJACENT WETLANDS TO BE MAINTAINED AND B) OPPORTUNITY TO MAXIMIZE SETBACKS. SEE NOTE 15 UNDER TECHNICAL RECOMMENDATIONS (SEE OVERRIDE 1).
- EXTRACTION DEPTH:** TO MAINTAIN A MINIMUM 1.5 m SEPARATION DISTANCE ABOVE THE IDENTIFIED HIGH WATER TABLE, THE MAXIMUM DEPTH OF EXTRACTION SHALL BE TO ELEVATIONS RANGING FROM 495.0 m AT THE SOUTH END OF THE PIT TO 491.5 m AT THE NORTH END, AS SHOWN ON THIS PLAN. EXTRACTION WILL OCCUR IN ONE LIFT.
- SIDESLOPES:** FINAL PERIMETER SIDESLOPES SHALL BE NO STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL). FINAL SLOPES SHALL BE COVERED WITH A MINIMUM OF 0.15 m OF TOPSOIL AND SHALL BE SEEDED WITH A SUITABLE MIXTURE OF NATIVE GRASS AND FORB SPECIES THAT AVOIDS INVASIVE SPECIES.
- VEGETATION:** VEGETATION SHALL BE MAINTAINED ON ALL TOPSOIL BERMS AND STOCKPILES AND REHABILITATED AREAS. ANY VEGETATION THAT DIES OR IS DAMAGED SHALL BE RESEEDED OR REPLANTED.
- AGGREGATE STOCKPILES:** AGGREGATE MATERIAL WILL BE STOCKPILED ON THE PIT FLOOR ADJACENT TO THE PROCESSING AREA. AGGREGATE STOCKPILES SHALL BE A MAXIMUM OF 15 m IN HEIGHT. NO STOCKPILES SHALL BE LOCATED WITHIN 30 m OF THE LICENCE BOUNDARY, EXCEPT UNDER THE FOLLOWING CIRCUMSTANCES: DURING INITIAL EXTRACTION IN PHASE 1 AGGREGATE STOCKPILES MAY BE PLACED TO WITHIN 15 m OF THE WEST AND SOUTHWEST LICENCE BOUNDARIES IN THE AREA SHOWN AT THE SOUTH END OF THE SITE (SEE OVERRIDE 2). REFER TO NOTE 15 UNDER TECHNICAL RECOMMENDATIONS FOR REMOVAL OF STOCKPILES IN PLACE FOR LONGER THAN 90 DAYS.
- RECYCLED MATERIAL:** NO RECYCLABLE MATERIAL SHALL BE STOCKPILED OR STORED ON SITE.
- TEMPORARY SCRAP STORAGE:** ALL SCRAP MATERIAL GENERATED DIRECTLY AS A RESULT OF THE ON-SITE AGGREGATE OPERATION SHALL BE COLLECTED AND TEMPORARILY STORED AT A DESIGNATED LOCATION AT THE SOUTH END OF THE SITE, AS SHOWN ON THIS PLAN. SCRAP MATERIAL SHALL BE REMOVED FROM THE SITE ON AN ONGOING BASIS. NO SCRAP MATERIAL SHALL BE STORED WITHIN 30 m OF THE EAST LICENCE BOUNDARY AND 15 m OF THE SOUTH AND SOUTHWEST LICENCE BOUNDARIES (SEE OVERRIDE 1).
- FUEL STORAGE:** ALL FUEL AND ASSOCIATED PRODUCTS SHALL BE STORED IN ABOVEGROUND TANKS OR CONTAINERS IN COMPLIANCE WITH THE TECHNICAL STANDARDS AND SAFETY ACT (2000), LIQUID FUELS REGULATION OREG 217/01, AND LIQUID FUELS HANDLING CODE (2000), AS APPLICABLE. AT THE LOCATION SHOWN ON THIS PLAN, FUEL TRUCKS MAY BE USED FOR ON-SITE REFUELLING OF EQUIPMENT WITHIN THE PIT. ANY SPILLS OR RELEASES OF FUEL OR ASSOCIATED PRODUCTS SHALL BE MANAGED IN ACCORDANCE WITH THE SPILL CONTINGENCY PLAN DESCRIBED ON THIS PLAN.
- PROCESSING AREAS:** PROCESSING EQUIPMENT SHALL BE LOCATED ON THE PIT FLOOR AND SHALL BE RELOCATED AS NECESSARY BASED ON THE SEQUENCE OF OPERATIONS. NO PROCESSING PLANT OR AREAS SHALL BE LOCATED WITHIN 30 m OF THE LICENCE BOUNDARY. THE LICENSEE ACKNOWLEDGES AND AGREES THAT THERE SHALL BE NO TEMPORARY OR PERMANENT ASPHALT OR READY-MIX CONCRETE PLANTS ON THE SITE.
- EQUIPMENT AND METHOD OF EXTRACTION:** MAIN EQUIPMENT ON SITE MAY INCLUDE, BUT IS NOT LIMITED TO, LOADERS, BULLDOZERS, DUMP TRUCKS, PORTABLE CRUSHING EQUIPMENT, PORTABLE SCREENING EQUIPMENT, EXCAVATORS, CONVEYORS, AND SERVICE VEHICLES FOR GENERAL OPERATIONS AND MAINTENANCE. EXTRACTION WILL BE CARRIED OUT IN ONE LIFT. LICENSEE LOADERS OPERATING FROM THE BASE OF THE PIT, EXTRACTION WILL PROCEED NORTHERLY FROM THE BASE OF THE PIT, STARTING AT EXISTING ELEV. 495.0m. THE BASE OF THE PIT WILL BE MAINTAINED AT THE PIT BOTTOM ELEVATIONS SHOWN ON THIS PLAN, AND THOSE ELEVATIONS WILL DEFINE THE LATERAL LIMITS OF EXTRACTION.
- DUST CONTROL:** DUST CONTROL SHALL BE MAINTAINED THROUGH THE APPLICATION OF WATER OR OTHER MECP-APPROVED DUST SUPPRESSANTS. DUST SHALL BE MITIGATED ON SITE.
- NOISE, DUST OR GROUNDWATER INTERFERENCE PROBLEMS:** SHOULD NOISE, DUST OR GROUNDWATER INTERFERENCE COMPLAINTS BE RECEIVED, THE LICENSEE SHALL TAKE APPROPRIATE MEASURES TO RECTIFY THE PROBLEM.
- DEWATERING/WASHING:** NO DEWATERING OR WASHING OF AGGREGATE SHALL TAKE PLACE ON THIS SITE.
- TONNAGE CONDITION:** THE MAXIMUM AMOUNT OF AGGREGATE TO BE REMOVED FROM THIS SITE IN ANY CALENDAR YEAR IS 100,000 TONNES.
- HOURS OF OPERATION:** OPERATIONS WILL TAKE PLACE BETWEEN 7 A.M. AND 6 P.M. MONDAY TO FRIDAY. THERE SHALL BE NO OPERATIONS ON SATURDAYS OR SUNDAYS, OR PUBLIC HOLIDAYS AS DEFINED IN ACCORDANCE WITH THE EMPLOYMENT STANDARDS ACT. OPERATIONS OUTSIDE THESE HOURS MAY OCCUR IN RESPONSE TO AN EMERGENCY AND WITH NOTIFICATION TO THE TOWNSHIP.
- TREE AND STUMP REMOVAL:** FOR TREES AND STUMPS REMOVED AS PART OF THE OPERATION OF THIS SITE, TIMBER RESOURCES (IF ANY) WILL BE SALVAGED FOR USE AS SAW LOGS, FENCE POSTS, AND/OR FUEL WOOD. WHERE APPROPRIATE, STUMPS AND BRUSH CLEARED DURING SITE PREPARATION SHALL BE PLACED AT AN APPROPRIATE LOCATION ON THE SITE TO DECOMPOSE NATURALLY AND/OR GROUND INTO MULCH FOR USE IN THE PROGRESSIVE REHABILITATION OF THE SITE. EXISTING FIELD TREES PREVIOUSLY PLACED ALONG THE EAST AND WEST MARGINS OF THE SITE MAY BE LEFT TO DECOMPOSE NATURALLY OR MAY BE MOVED OR PROCESSED ELSEWHERE ON SITE, PROVIDED THAT IT IS DONE IN THE WINTER (DECEMBER TO MARCH).
- IMPORTATION OF INERT FILL:** CLEAN INERT FILL CONSISTING OF TOPSOIL FROM LOCAL AGRICULTURAL SITES MAY BE IMPORTED TO FACILITATE PIT REHABILITATION. ONLY SUFFICIENT MATERIAL TO CREATE A FINAL COVER UP TO 0.3 m THICK MAY BE IMPORTED. THE VOLUME OF IMPORTED TOPSOIL SHALL NOT EXCEED 8,700 CUBIC METRES. THE LICENSEE SHALL ENSURE THAT THE MATERIAL IS TESTED AT THE SOURCE IN ACCORDANCE WITH OREG. 466/20 FOR EXCESS SOIL MANAGEMENT BEFORE IT IS DEPOSITED ON THE SITE. THE TESTING MUST CONFIRM THAT THE MATERIAL MEETS THE MECP TABLE 1 STANDARDS AS SET OUT IN THE MECP "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT". TESTING RESULTS FOR IMPORTED MATERIALS SHALL BE RETAINED AND PROVIDED TO THE MECP AND/MNRF UPON REQUEST.

IMPORTATION OF AGGREGATE MATERIAL FOR BLENDING WITH ON-SITE AGGREGATE MATERIAL

FROM TIME TO TIME, THE LICENSEE MAY IMPORT AGGREGATE FROM ANOTHER LICENSED PIT FOR BLENDING WITH ON-SITE AGGREGATE. THIS WOULD TYPICALLY CONSIST OF THE BLENDING OF FINER-GRAINED AGGREGATE FROM ANOTHER SITE WITH COARSER-GRAINED AGGREGATE FROM THIS SITE. ALL IMPORTED AGGREGATE SHALL BE USED SOLELY FOR THE PURPOSE OF BLENDING WITH ON-SITE MATERIAL FOR RESALE. IMPORTED AGGREGATE SHALL BE TEMPORARILY STOCKPILED WITHIN THE OPERATIONS AREA OF THE PIT. A SEPARATE DAILY RECORD SHALL BE MAINTAINED OF THE QUANTITY OF AGGREGATE MATERIAL IMPORTED TO THE SITE FOR BLENDING WITH ON-SITE AGGREGATE. THE QUANTITY OF IMPORTED AGGREGATE REMOVED FROM THE SITE EACH YEAR SHALL COUNT TOWARD THE TOTAL AMOUNT OF AGGREGATE THAT THE LICENSEE IS ENTITLED TO REMOVE FROM THE SITE UNDER THE LICENSE.

SITE PLAN OVERRIDES OF THE CONTROL AND OPERATION STANDARDS IDENTIFIED IN O.REG. 466/20, AMENDING O.REG. 244/97

- SECTION 6.13 (3):** NO FENCING SHALL BE CONSTRUCTED ALONG THE EAST AND WEST LICENCE BOUNDARIES IN THE AREAS ADJACENT TO OR WITHIN EXISTING WETLANDS AS IDENTIFIED IN THE NATURAL ENVIRONMENT TECHNICAL REPORT AND SHOWN ON THIS PLAN. IN THOSE UNFENCED AREAS, THE LICENCE BOUNDARY SHALL BE DEMARCATED WITH HIGHLY VISIBLE MARKER POSTS (MINIMUM HEIGHT 1.2 m) PLACED AT EACH CHANGE IN ALIGNMENT AND WITH A MINIMUM SPACING OF 60 m ALONG THE BOUNDARY.
- SECTION 6.13 (1) RULE 13:** THE SETBACK ADJACENT TO THE SOUTH AND SOUTHWEST LICENCE BOUNDARIES HAS BEEN REDUCED FROM 30 m TO 15 m FOR THE PURPOSE OF STOCKPIILING AGGREGATE AND/OR LOCATING A BUILDING OR STRUCTURE (I.E. A SCALE AND/OR OFFICESCALE HOUSE) IN THE AREA SHOWN AT THE SOUTH END OF THE SITE. THE LICENSEE OWNS THE ADJACENT LANDS TO THE SOUTH AND WEST.
- SECTION 6.13 (1) RULE 10 (ii):** THE SETBACK FROM THE IDENTIFIED WETLAND LOCATED WEST OF THE NORTH END OF THE EXTRACTION AREA HAS BEEN REDUCED FROM 30 m TO 15 m. REFER TO NOTE 16 UNDER TECHNICAL RECOMMENDATIONS.
- SECTION 6.13 (1) RULE 25:** THE SETBACK ADJACENT TO THE SOUTH AND SOUTHWEST LICENCE BOUNDARIES HAS BEEN REDUCED FROM 30 m TO 15 m FOR THE PURPOSE OF TEMPORARY SCRAP STORAGE IN THE AREA SHOWN AT THE SOUTH END OF THE SITE. THE LICENSEE OWNS THE ADJACENT LANDS TO THE SOUTH AND WEST.



TECHNICAL RECOMMENDATIONS

- HYDROGEOLOGY**
SOURCE: HYDROGEOLOGICAL ASSESSMENT REPORT FOR ABOVE-WATER EXTRACTION, PROPOSED HOGS BACK PIT, PART LOT 31, CONCESSION 3 (PROTON), TOWNSHIP OF SOUTHGATE, GREY COUNTY (GSS ENGINEERING CONSULTANTS LTD., DECEMBER 2021)
- RECOMMENDED MONITORING PLAN**
- WATER LEVEL MEASUREMENTS AT THE EXISTING ON-SITE MONITORING WELLS (MW1, MW2, MW3, MW4), STAFF GAUGES (SG1, SG2, SG3), AND PIEZOMETER (PI) SHALL BE CARRIED OUT FOR ONE YEAR FOLLOWING ISSUANCE OF THE HYDROGEOLOGICAL REPORT, WITH A MINIMUM OF THREE EVENTS IN THE SPRING (MARCH, APRIL, MAY) AND ONE EVENT EACH IN THE SUMMER AND FALL.
 - FOLLOWING APPROVAL OF AGGREGATE EXTRACTION AT THE SITE, WATER LEVEL MEASUREMENTS AT THE EXISTING MONITORING WELLS, STAFF GAUGES, AND PIEZOMETER SHALL BE CARRIED OUT AT A MINIMUM FREQUENCY OF THREE TIMES PER YEAR IN THE SPRING, SUMMER, AND FALL FOR THE FIRST THREE YEARS OF EXTRACTION OPERATIONS.
 - AT THE END OF THREE YEARS, THE MONITORING DATA SHALL BE SUMMARIZED IN A REPORT PREPARED BY A QUALIFIED PROFESSIONAL AND SUBMITTED TO THE MNRF, WITH A RECOMMENDATION TO EITHER DISCONTINUE THE MONITORING PROGRAM OR TO CONTINUE THE MONITORING PROGRAM FOR A SPECIFIED MINIMUM NUMBER OF ADDITIONAL YEARS.
 - IF IT IS RECOMMENDED THAT MONITORING BE DISCONTINUED, AND THE MNRF CONCURS WITH THE FINDINGS OF THE REPORT, THEN THE MONITORING WELLS SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE REQUIREMENTS OF O.REG. 903 AND AMENDING REGULATIONS.

NATURAL ENVIRONMENT

- SOURCE: HOGS BACK ABOVE WATER PIT APPLICATION, LOT 31, CONCESSION 3, TOWNSHIP OF SOUTHGATE, COUNTY OF GREY (SAAR ENVIRONMENTAL LIMITED, DECEMBER 2021)
- RECOMMENDED MITIGATION MEASURES**
- USE OF NIGHT LIGHTS SHALL BE RESTRICTED TO PROMOTE NOCTURNAL AND CREpuscular FOREST WILDLIFE CONSERVATION. NIGHT LIGHTS ARE NECESSARY FOR NIGHT-TIME SECURITY OF THE SITE AND/OR EQUIPMENT, THEN DOWNWARD DIRECTED (HOODED) LIGHTS SHALL BE USED.
 - EASTERN WOOD PEWEE (EWPW) ARE PROTECTED UNDER THE MIGRATORY BIRDS CONVENTION ACT. TO CONSERVE THE EWPW AND OTHER FOREST BIRDS, A QUALIFIED BIOLOGIST SHALL INSPECT THE SITE PRIOR TO THE START OF EXTRACTION. NIGHT LIGHTS SHALL BE SCHEDULED TO OCCUR OUTSIDE THE PEAK BIRD-BREEDING PERIOD FROM MAY 15 TO JUNE 30. REFER TO NOTE 26, HOURS OF OPERATION, ON THIS PLAN.
 - TO SUPPORT THE NORTHERN RIBBONSNAKE, OPTIMAL HABITAT FOR FORAGING AND HIBERNACULAE SHALL BE PROTECTED WITH A MINIMUM 15 m SETBACK FROM IDENTIFIED WETLANDS. REFER TO NOTE 12, SETBACKS, ON THIS PLAN.
 - TO CONSERVE POTENTIAL BANK-NESTING WILDLIFE, CREATION OF LONG-TERM STOCKPILES THAT WILL BE IN PLACE FOR MORE THAN 60 DAYS SHALL BE AVOIDED TO REDUCE IMPACTS TO BURROWING WILDLIFE (E.G. BELTED KINGFISHER) WHEN REMOVING THE STOCKPILE. STOCKPILES THAT HAVE BEEN UNDISTURBED FOR MORE THAN 90 DAYS SHALL NOT BE DISTURBED DURING THE PEAK BIRD-BREEDING/NESTING SEASON OF MAY TO AUGUST WITHOUT FIRST BEING INSPECTED BY A QUALIFIED BIOLOGIST. IF A NEST(S) IS IDENTIFIED, THEN THE STOCKPILE SHALL BE CORDONED OFF WITH TEMPORARY FENCING OR SUITABLE ALTERNATIVE AND LEFT UNDISTURBED UNTIL THE NEST HAS BEEN VACATED. REFER TO NOTE 3, TOPSOIL/OVERBURDEN STORAGE, AND NOTE 16, AGGREGATE STOCKPILES, ON THIS PLAN.
 - A MINIMUM SETBACK RANGING FROM 15 TO 30 m SHALL BE MAINTAINED BETWEEN AGGREGATE EXTRACTION ACTIVITIES AND IDENTIFIED WETLANDS, DEPENDING ON: A) THE PRESENCE OF ADJACENT ECOLOGY FEATURES AND FUNCTIONS, AND B) THE OPPORTUNITY TO MAXIMIZE SETBACKS. REFER TO NOTE 12, SETBACKS, ON THIS PLAN AND OVERRIDE 3.
 - REHABILITATION OF THE EXTRACTION AREA SHALL INCLUDE RE-FORESTATION TO CREATE A LINKAGE BETWEEN THE ADJACENT WETLANDS. NATIVE FLORA THAT INCORPORATES SON TRADITIONAL FLORA SHALL BE PLANTED IN THE AREAS TO BE RE-FORESTED. REFER TO NOTES 2 AND 3 ON DRAWING 3, REHABILITATION PLAN.
 - TO CONSERVE OPTIMAL HABITAT FOR MONARCH BUTTERFLY, EXISTING MILKWEED AREAS ON THE SITE SHALL BE ENHANCED BY PLANTING ADDITIONAL MILKWEED AND NECTAR PLANTS ON THE OUTER EDGES OF THE RESTORED AREAS. REFER TO NOTE 4 ON DRAWING 3, REHABILITATION PLAN.
- RECOMMENDED MONITORING PLAN**
- MONITORING SHALL BE CARRIED OUT AT 2-YEAR INTERVALS FOR INDICATOR SPECIES AS FOLLOWS: FOR BIRDS, PRESENCE/ABSENCE OF EASTERN WOOD PEWEE AND VEERY IN THE PROVINCIAL SIGNIFICANT WETLAND; AND FOR PLANTS, DOCUMENTATION OF VEGETATION IN TWO 1-METRE SQUARE QUADRATS 30 m INTO THE PROVINCIAL SIGNIFICANT WETLAND.

ARCHAEOLOGY

- SOURCE: STAGE 1 AND 2 ARCHAEOLOGICAL ASSESSMENT, GRAVEL PIT EXPANSION, 046365 SOUTHGATE ROAD 04, PART LOT 31, CONCESSION 3, FORMER TOWNSHIP OF PROTON, MUNICIPALITY OF SOUTHGATE, GREY COUNTY (SCARLETT JANUAS ARCHAEOLOGY INC., OCTOBER 2019)
- NO FURTHER ARCHAEOLOGICAL ASSESSMENT IS REQUIRED FOR THE STUDY AREA.
 - THE REMAINDER OF THE LOT STILL MAY RETAIN ARCHAEOLOGICAL POTENTIAL AND MUST BE SUBJECT TO A STAGE 2 ARCHAEOLOGICAL ASSESSMENT SHOULD ANY DEVELOPMENT BE PROPOSED FOR THE LOT, EXCEPTING THE STUDY AREA.
 - COMPLIANCE LEGISLATION MUST BE ADHERED TO IN THE EVENT OF DISCOVERY OF DEEPLY BURIED CULTURAL MATERIAL OR FEATURES.

SPILL CONTINGENCY PLAN

- IN THE EVENT OF AN INADVERTENT RELEASE OF PETROLEUM PRODUCTS OR OTHER HAZARDOUS LIQUIDS TO THE NATURAL ENVIRONMENT, THE FOLLOWING CONTINGENCY PLAN SHALL BE FOLLOWED.
- NOTIFY THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MECP) SPILLS ACTION CENTRE (SAC) BY TELEPHONE AT 1-800-268-6060 (MONITORED 24/7).
 - NOTIFY THE TOWNSHIP OF SOUTHGATE PUBLIC WORKS MANAGER AT 519-378-3777.
 - IMMEDIATELY IMPLEMENT MEASURES TO (1) STOP THE SPILL, AND (2) CONTAIN THE SPREAD OF THE SPILL. MEASURES TO CONTAIN THE SPILL MAY INCLUDE: RECOVER THE SPILLED SUBSTANCE INTO SUITABLE CONTAINERS; CONSTRUCT A BERM OR EXCAVATE A SHALLOW DITCH TO MINIMIZE THE SPREAD OF THE SUBSTANCE; EXCAVATE AND CONTAIN CONTAMINATED SOIL IN A LOADER BUCKET OR STORAGE BIN UNTIL PROPER DISPOSAL CAN BE ARRANGED.
 - CONTAMINATED SOIL IN THE AREA AFFECTED BY THE SPILL SHALL BE REMOVED AND TRANSPORTED BY A LICENSED HAULER TO A SUITABLE WASTE DISPOSAL SITE APPROVED BY THE MECP.

LEGEND

- LICENCE BOUNDARY
- - - PROPERTY OWNED BY APPLICANT
- PROPERTY LINE
- LOT/CONCESSION LINE
- 495 EXISTING CONTOURS (m AMSL)
- x-x-x EXISTING FENCE (P&W)
- EXISTING TREE LINE
- TREE
- ACCESS ROAD
- WETLAND LIMITS (FROM NETR, SAAR 2021)
- POND FEATURE
- WATERCOURSE
- STRUCTURE
- SITE ENTRANCE/EXIT
- GRAVEL STOCKPILE
- EXCAVATION FACE
- MONITORING WELL
- SURFACE WATER STAFF GAUGE
- PIEZOMETER
- CROSS-SECTION LOCATION
- LIMIT OF EXTRACTION
- 495.0 PROPOSED PIT BOTTOM ELEVATION
- PROPOSED TOPSOIL/OVERBURDEN BERM
- DIRECTION OF EXTRACTION
- PRODUCT TRANSPORTATION VIA HAUL ROAD
- PROPOSED MARKER POST
- PHASE BOUNDARY AND NUMBER

DD/MM/YY	DESCRIPTION
	AMENDMENT

THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS 'A' LICENSE FOR A PIT ABOVE THE GROUNDWATER TABLE.

THIS PLAN WAS PREPARED UNDER THE DIRECTION OF A QUALIFIED PERSON AS PER SECTION 0.2(3) OF O.REG. 466/20 UNDER THE AGGREGATE RESOURCES ACT.

M.R. Slaughter FEB. 18, 2022
ROSS SLAUGHTER, P.ENG. DATE

Unit 104D 1010 9th Avenue West, Owen Sound, ON, N4K 5R7
Telephone: (519) 372-4828

Title:

OPERATIONAL PLAN
DRAWING 2 OF 3
HOGS BACK PIT
PART OF LOT 31, CONCESSION 3
GEOGRAPHIC TOWNSHIP OF PROTON
TOWNSHIP OF SOUTHGATE
COUNTY OF GREY

Applicant:
H. BYE CONSTRUCTION LTD.
395 CHURCH STREET
MOUNT FOREST, ON, N0G 2L2

RANDY BYE, PRESIDENT DATE

Design:	WBB	Scale:	1:2000
Drawn:	TDL		
Reviewed:	MRS		
Date:	FEB. 2022		

Reference No. 19-047-02