

PHASE A **PHASE A NOTES**

AGRICULTURAL USE.

- 1. ESTABLISH THE ENTRANCE EXIT AND HAUL ROAD INTO THE SITE, ACCORDING TO THE APPROPRIATE MUNICIPAL STANDARDS.
- 2. PRIOR TO ANY ON SITE OPERATIONS, CONSTRUCT OR UPGRADE THE FENCING ON THE LICENCED BOUNDARIES (EXCEPT WHERE OVERRIDES EXIST) TO THE STANDARDS OF THE AGGREGATE RESOURCES ACT (1.2m HIGH POST AND WIRE FENCE). ALL FENCING SHALL BE MAINTAINED.
- 3. PREPARE SITE WITHIN AREA 1 BY REMOVING EXISTING TREES AND SCRUB VEGETATION IN THE AREA TO BE EXTRACTED. SALVAGE LARGER STUMPS AND TREES FOR HABITAT CREATION DURING PROGRESSIVE REHABILITATION
- 4. PRIOR TO ANY ON SITE OPERATIONS, STRIP TOPSOIL AND OVERBURDEN SEPARATELY USE THE MATERIALS TO CONSTRUCT STORAGE BERM ALONG HUNT ROAD
- 5. CONSTRUCT THE HAUL ROAD THROUGH AREA 1, 2 AND 3.
- 6. EXTRACTION OF AREA 1 WILL PROCEED IN DIRECTION SHOWN. 7. UNDISTURBED PORTIONS OF AREAS 2 AND 3 REMAIN IN

OPERATIONS NOTES

- **GENERAL INFORMATION**
- INFORMATION AVAILABLE AT THE TIME OF PREPARATION. PHASES SHOWN ARE SCHEMATIC AND MAY SLIGHTLY VARY WITH MATERIAL QUALITY, SITE HYDROLOGY AND HYDROGEOLOGY OR MARKET DEMAND. PHASES DO NOT REPRESENT ANY SPECIFIC OR EQUAL TIME PERIOD.
- IT SHALL BE CARRIED OUT. NOT WITHSTANDING THE EXTRACTION AND REHABILITATION PROCESS ABOVE, DEMAND FOR CERTAIN PRODUCTS OR BLENDING OF MATERIALS MAY REQUIRE SOME DEVIATION IN THE EXTRACTION AND REHABILITATION PHASING. ANY MAJOR DEVIATIONS FROM THE OPERATIONS SEQUENCE SHOWN WILL REQUIRE APPROVAL FROM MNRF.
- 120 METRE BOUNDARY AND ON SITE.
- 3. SITE PLAN OVERRIDES ARE LISTED IN THE SITE PLAN OVERRIDE TABLE SHOWN ON THIS PAGE.
- **EXTRACTION/PROCESSING/HAULING INFORMATION** 4. TOTAL AREA TO BE EXTRACTED IS 16.3 HECTARES.
- 5. MAXIMUM NUMBER OF TONNES OF AGGREGATE TO BE REMOVED FROM THE SITE IN ANY CALENDAR YEAR IS 500,000 TONNES. EXTRACTION OF SAND AND GRAVEL ABOVE WATER TABLE WILL TAKE PLACE IN TWO OR THREE BENCHES, WITH A MAXIMUM HEIGHT OF ±8 METRES. NO EXTRACTION FACE WILL EXCEED 1.5m ABOVE THE HIGHEST REACH OF THE EQUIPMENT BEING UTILIZED FOR. THE GROUNDWATER TABLE IS ESTIMATED TO BE BETWEEN ±276.5 - 271.5m ASL (SEE REPORT BY LDS DATED NOVEMBER 12, 2020) THERE WILL BE ONE LIFT BELOW THE WATER TABLE TO A MAXIMUM DEPTH OF ±263m ASL TO BE EXTRACTED BY EXCAVATOR, BACKHOE OR DRAG LINE. FRONT END LOADERS WILL BE USED TO EXTRACT MATERIAL AND HAUL TRUCKS OR CONVEYORS WILL CARRY MATERIAL TO THE PLANT FOR FURTHER PROCESSING. REFER TO SECTIONS A-A', B-B', AND C-C' ON DRAWING 4 OF 5 FOR FURTHER DETAILS.
- PORTABLE PROCESSING EQUIPMENT, FOR CRUSHING AND SCREENING WILL BE USED ON SITE AND WILL BE LOCATED ON THE PIT FLOOR AND WILL FOLLOW THE EXTRACTION FACE. STOCKPILES OF PROCESSED AGGREGATE WILL BE PLACED BETWEEN R1 AND THE PROCESSING PLANT AS A NOISE BUFFER. IN ADDITION TO PROCESSING, SITE ACTIVITIES WILL INCLUDE STRIPPING AND REHABILITATION, OPERATIONAL EQUIPMENT MAY INCLUDE TRUCKS, LOADERS, EXCAVATOR, BACKHOES, BULLDOZERS, SCRAPERS, CONVEYORS AND OTHER RELATED EQUIPMENT. PROCESSING EQUIPMENT, STACKERS AND PRODUCT STOCKPILES WILL NOT EXCEED ±15 METRES IN HEIGHT AND WILL BE LOCATED IN THE PROCESSING AREA AND/OR CLOSE TO PIT FACES. MATERIAL FROM OTHER PROPERTIES MAY BE IMPORTED INTO THE SITE FOR BLENDING, CUSTOM PRODUCTS AND/OR RESALE.
- 6. OFFICE/STORAGE BUILDING AND/OR SCALE/SCALEHOUSE MAY BE CONSTRUCTED WHERE SHOWN.

AGGREGATE RECYCLING

- WILL BE STORED IN SEGREGATED STOCKPILES WITHIN THE PROCESSING AREA. RECYCLABLE ASPHALT MATERIALS WILL NOT BE STOCKPILED WITHIN 30m OF ANY WATER BODY OR MAN-MADE POND; OR 2m OF THE SURFACE OF THE ESTABLISHED WATER TABLE. ANY REBAR AND OTHER STRUCTURAL METAL MUST BE REMOVED FROM THE RECYCLED MATERIAL DURING PROCESSING AND PLACED IN A DESIGNATED SCRAP PILE ON SITE WHICH WILL BE REMOVED ON AN ON-GOING BASIS. REMOVAL OF RECYCLED AGGREGATE IS TO BE ONGOING. ONCE THE AGGREGATE ON SITE HAS BEEN DEPLETED THERE WILL BE NO FURTHER IMPORTATION OF RECYCLABLE MATERIALS PERMITTED. ONCE FINAL REHABILITATION HAS BEEN COMPLETED AND APPROVED IN ACCORDANCE WITH THE SITE PLAN, ALL RECYCLING OPERATIONS MUST CEASE.
- 8. EQUIPMENT, SCRAP AND MACHINERY ASSOCIATED WITH THE EXTRACTION OPERATIONS WILL BE REMOVED UPON COMPLETION OF EXTRACTION.
- HYDROGEOLOGICAL INFORMATION
- (A.S.L.), BASED ON THE HYDROGEOLOGICAL REPORT. REFER TO SECTIONS ON SHEET 4 OF 5.
- MATERIALS ON THE PIT FLOOR. NO SURFACE WATER WILL BE DISCHARGED OFF-SITE.
- NOISE MITIGATION INFORMATION 11. HOURS OF OPERATION SITE PREPARATION AND REHABILITATION:
- EXCAVATION AND PROCESSING SHIPPING:
- AIR QUALITY INFORMATION

REQUIRED TO MITIGATE DUST.

SITE MANAGEMENT INFORMATION

- MAINTENANCE/ PROTECTION OF VEGETATION INFORMATION EXISTING VEGETATION WITHIN THE LICENCED AREA SHALL BE MAINTAINED IN A HEALTHY VIGOROUS GROWING CONDITION UNTIL SEQUENTIAL STRIPPING BEGINS OR UNTIL THE REHABILITATION IS COMPLETE. ANY VEGETATION PLANTED AS PART OF SITE IMPROVEMENTS OR PROGRESSIVE AND FINAL REHABILITATION WILL ALSO BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION.
- FENCING INFORMATIO 14. BOUNDARIES OF THE AREA TO BE LICENCED THAT ARE PRESENTLY FENCED ARE SHOWN ON DRAWING 1 OF 5 EXISTING FEATURES. PRIOR TO ANY STRIPPING OR PREPARATION, 1.2m HIGH POST AND WIRE FENCING TO COMPLY WITH THE AGGREGATE RESOURCES ACTF WILL BE INSTALLED ALONG THE EAST LICENCED BOUNDARY. ALL FENCING SHALL BE MAINTAINED.
- TOPSOIL/SUBSOIL/OVERBURDEN STORAGE INFORMATION 15. TOPSOIL AND OVERBURDEN SHALL BE STRIPPED AND STORED SEPARATELY IN BERMS WHERE SHOWN AND STOCKPILES ON

PIT FLOOR CLOSE TO EXTRACTION FACE. BERM INFORMATION

- 16. BERMS SHALL BE A MINIMUM OF ±2.5 METRES ABOVE THE EXISTING GRADE, OR AS SPECIFIED IN THE NOISE ASSESSMENT REPORT DATED DECEMBER 9, 2020 AND SHOWN ON OPS PLAN. BERMS SHALL NOT EXCEED 2:1. REFER TO TYPICAL BERM CROSS SECTION ON DRAWING 4 OF 5 DETAILS AND SECTIONS. ALL BERMS SHALL BE SEEDED (USING GRASS/ LEGUME MIXTURE, SEE REHABILITATION PLAN) IMMEDIATELY UPON COMPLETION TO MINIMIZE NOISE, DUST AND EROSION.
- 17. ON COMPLETION OF THE BERMS, EXCESS ON-SITE OVERBURDEN WILL BE USED TO PROGRESSIVELY BACKFILL AND REHABILITATE THE SITE. TOPSOIL CAN BE TEMPORARILY STOCKPILED ON THE PIT FLOOR.
- SCRAP STORAGE INFORMATION ALL SCRAP, USED MACHINERY AND STUMPS GENERATED THROUGH THE OPERATIONS WITHIN THIS LICENCE WILL BE STORED IN THE PROCESSING AREA, A MINIMUM OF 30m FROM THE BOUNDARY OF THE SITE AND NOT WITHIN 30m OF ANY BODY OF WATER AND SHALL BE DISPOSED OF ON AN ONGOING BASIS. STUMPS/ WOODY MATERIAL MAY BE CHIPPED AND USED FOR SOIL ENHANCEMENT DURING PROGRESSIVE REHABILITATION. TREES WILL BE HARVESTED AND SOLD AS LUMBER OR UTILIZED FOR FIREWOOD AND/ OR THEIR BEST USE. UPON COMPLETION OF EXTRACTION, ALL SCRAP EQUIPMENT AND USED MACHINERY SHALL BE REMOVED.
- PETROLEUM STORAGE INFORMATION 19 FUEL, OIL, RADIATOR AND HYDRAULIC FLUID, AND OTHER CHEMICALS NEEDED FOR THE MAINTENANCE AND FUNCTIONING OF ON-SITE AGGREGATE PROCESSING EQUIPMENT SHALL BE APPROPRIATELY STORED IN ABOVE-GROUND CONTAINERS AND SHALL MEET THE REQUIREMENTS OF THE GASOLINE HANDLING ACT, AS AMENDED, AND THE GASOLINE HANDLING CODE AND REGULATIONS, AS AMENDED BY THE TECHNICAL STANDARDS AND SAFETY ACT (TSSA) AND LIQUID FUELS HANDLING CODE, AND IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT, CONSERVATION, AND PARK'S CHEMICAL STORAGE
- GUIDELINES. ALL REFUELING SHALL BE WITHIN A CONTAINMENT PAD. ALL SPILLS TO THE ENVIRONMENT MUST BE REPORTED TO THE SPILLS ACTION CENTRE OF MECP. ANY SPILL SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE MECP APPROVED FACILITY. IMPORTATION OF FILL INFORMATIO
- 20. IN ORDER TO MAXIMIZE RESOURCE RECOVERY, IMPORTATION OF CLEAN INERT FILL (EG. TOPSOIL AND/OR OVERBURDEN) MAY BE IMPORTED TO FACILITATE 3:1 SIDESLOPE REHABILITATION (ABOVE WATER TABLE SIDESLOPES). ONLY NATIVE ON SITE OVERBURDEN AND/OR OFF-SPEC MATERIALS WILL BE USED FOR BELOW WATER REHABILITATION. ONLY SUFFICIENT MATERIAL TO CREATE FINAL GRADES AS SHOWN MAY BE IMPORTED.
- TABLE "1" OF MECP'S "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT"
- MATERIAL ONTO THE LICENSED SITE BY A QUALIFIED PERSON (QP) UNDER EPA. A QP SHALL ALSO DESIGN FILL MONITORING PROGRAM. RANDOM SAMPLING OF ALL IMPORTED MATERIAL SHALL BE CONDUCTED AT THE REQUEST OF MNRF.
- THE LICENSEE SHALL KEEP DETAILED RECORDS OF THE AMOUNT OF MATERIAL BROUGHT ON SITE FOR REHABILITATION AND THE TESTING RESULTS OF ALL SAMPLES. ALL RECORDS AND TESTING RESULTS SHALL BE AVAILABLE UPON REQUEST BY MNRF OR MECP.
- VASH PLANT INFORMATIO 1. SHOULD A WASH PLANT BE REQUIRED WITH A PREDICTED WATER USAGE OF 50,000L/DAY OR MORE, THE PRODUCER SHALL OBTAIN PERMIT TO TAKE WATER FROM MECP AND HAVE IT READY FOR INSPECTION. THE PERMIT TO TAKE WATER (PTTW) WILL BE ACCOMPANIED BY THE APPROPRIATE SUPPORTING DOCUMENTATION.

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THIS PLAN DEPICTS A SCHEMATIC OPERATIONS AND REHABILITATION SEQUENCE FOR THIS PROPERTY BASED ON THE BEST

EXTRACTION SHALL GENERALLY FOLLOW THE SEQUENCE SHOWN. WHEN PARTIAL REHABILITATION OF A PHASE IS POSSIBLE 2. REFER TO DRAWING 1 OF 5, EXISTING FEATURES, FOR A DESCRIPTION OF EXISTING VEGETATION AND BUILDINGS WITHIN THE

THERE MAY BE RECYCLING OF MATERIAL (ASPHALT AND CONCRETE) ON THIS SITE. MATERIAL IMPORTED FOR RECYCLING

9. THE WATER TABLE ELEVATION VARIES ACROSS THIS LICENCE FROM APPROXIMATELY ±276.5 - ± 271.5m ABOVE SEA LEVEL 10. SURFACE DRAINAGE WILL BE DIRECTED TO THE POND, AND/ OR LOW AREAS FOR WATER TO INFILTRATE INTO THE GRANULAR

> 07:00-19:00 WEEKDAYS; 07:00 - NOON SATURDAYS 07:00-19:00 WEEKDAYS; 07:00 - NOON SATURDAYS 07:00-19:00 WEEKDAYS; 07:00 - NOON SATURDAYS

12. WATER OR CALCIUM CHLORIDE WILL BE APPLIED TO INTERNAL HAUL ROADS AND PROCESSING AREAS AS OFTEN AS

IMPORTED MATERIAL SHALL MEET THE MINISTRY OF THE ENVIRONMENT, CONSERVATION, AND PARK'S PARAMETERS UNDER

SAMPLING AND TESTING OF ALL IMPORTED MATERIAL SHALL BE PERFORMED AT SOURCE PRIOR TO THE IMPORTATION OF

Drawing Status

SUBMITTED TO MNRF

FOR APPROVAL

Checked MH

OPERATION

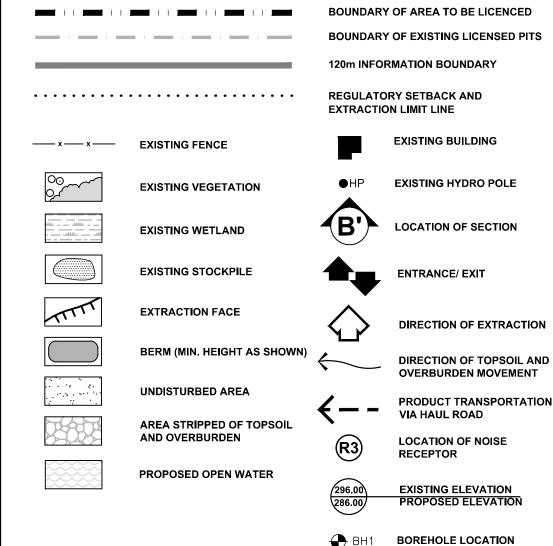
PLANS

PHASE A

Drawn RM/SB

Drawing Title

LEGEND



SITE PLAN OVERRIDE (VARIANCE)

THE FOLLOWING CONDITIONS ILLUSTRATED ON THESE PLANS VARY FROM THE OF THE PROVINCIAL STANDARDS MADE UNDER THE AGGREGATE RESOURCES ACT ITEM SECTION

AND NUMBER DRILLED

AND MONITORING WELL INSTALLED BY

LDS JUNE 10-22, 2019

 SETBACK IS REDUCED TO 0m ALONG SOUTH AND WEST BOUNDARIES. ADJACENT LANDS LICENSED FOR AGGREGATE EXTRACTION. AS PER AGREEMENT WITH ADJACENT LICENSEE/ LANDOWNER. NO FENCE ON NODTH ROUNDARY, ACCESS IN PERTURATION FOR THE TO NATURAL FEATURES. 							5.10.1	
2. NO FENCE ON NORTH BOUNDARY. ACCESS IS RESTRICTED DUE TO NATURAL FEATURES.						5.1		
1	JAN 2021	PER MNRF COMMENTS						
NO.	DATE	REVISIONS	OWNER HM MNR	NO. DATE REVISIO	NS OWNE	кнM	MNR	
Pre Licence Review				Site Plan Amendments				
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