

## NUMBERING SCHEME USED F REFERS TO AGGREGATE RES STANDARDS FOR A CLASS 'A

**1.3.1 Sequence and Direction:** Each phase will be stripped of top Where there is a distinguishable stripped, handled and replaced a possible, topsoil will be moved di All topsoil and subsoil will be use if sufficient topsoil is available exmay be moved between this site 3726 to provide appropriate timin rehabilitation on both sites. The follow the Operational Phasing se on page 2 of 4.

**1.3.2 Topsoil and Overburden:** Topsoil and overburden will be st separately. Topsoil and subsoil s sequence on all pit slopes and th of 0.5m, graded and cultivated in excavation faces shall be sloped slope. This may be accomplished from within the area to be excava unsuitable quality. Where there is rehabilitation, clean fill may be im

**1.3.3 & 1.4.3 Proposed Vegeta** Prior to vegetating the pit floor, co be stripped to alleviate compaction De-compaction will be completed more if sufficient quantities are as seeded with a good hay mixture of clover. This crop will be ploughe a healthy fibre content to the soil production farm should result.

**1.3.4 & 1.4.2 Slope Creation an** Rehabilitation will be progressive excavation are reached, 3:1 slope will be established by cut/fill and/ materials. The final landform sho of extraction and may be reduced encountered.

**1.3.5 Progressive Rehabilitation** Progressive rehabilitation will be extraction progresses. Side slop utilized as part of active operation completed, will be progressively

**1.3.6 & 1.4.1 Importation of Fil** Clean inert fill (e.g. topsoil, overb facilitate pit rehabilitation. Only s grade may be imported.

**1.4.4 Buildings and Structures** No buildings or structures will be on-site.

**1.4.5 Internal Haul Roads:** No internal haul routes will rema

1.4.6 Surface Water Drainage a The anticipated elevation of group m.a.s.l and ±493 m.a.s.l. There w the entire site will be extracted to landscape. Drainage will occur th ground water table. Should addit tile drains will be installed.

Natural Environment: Natural E Report - Birks Natural Heritage C Environment Level 2 Technical R Consultant (February 2021):

The Rehabilitation and Compens following natural heritage recomm

- Identify buffers from the retain be allowed to renaturalized a native species plantings.
- Outline how progressive reha relates to Woodland Habitat
- Increase habitat wherever po setback area could expand h
- Identify any Future Offset pro rehabilitation for Woodland H
- General woodland rehabilitation provided as follows:
- Prior to removal of the floor (containing seed moved into the selected
- A topsoil layer of at leaplaced prior to planting
   Additional tanget about
- Additional topsoil sho all planted trees and s
  Plants should be native
- the site conditions.
   Tree species should b arrangement and not i
- Seedlings should be p
   Plant material should be planting and bi-weekly
- monthly for the rest of
   Tree guards should be reduce impacts from m
- Plant material should l for the first three years there is less than 80%

D FOR OPERATIONAL NOTES RESOURCES ACT PROVINCIAL S 'A' CATEGORY 3 LICENSE	Lege	end				
p <b>n:</b> f topsoil and subsoil in stages. ole layer, the topsoil will be	Boundary of Area to				Public Road	b
d as a separate layer. Wherever d directly to a rehabilitated location. used in rehabilitation of this site and		be Lice		505	Elevation,	Contour
excess topsoil and overburden ite and the adjacent Licence No. ming and effective progressive			Extraction		Proposed C	Contour
he sequence of rehabilitation will g sequence shown and described		Bounda	•		Woodlands	,
<b>en:</b> e stripped, stored and replaced oil shall be replaced in appropriate		(LICENSE NO.	J Licensed Pits		Wetlands	
d the pit floor to a minimum depth d in preparation for seeding. All bed and graded to a minimum 3:1 shed by backfilling with clean fill avated where the deposit is of re is a deficiency of fill for slope e imported.		] Surface	ace Water nage Direction		High Const Woodland	
		_		×	Existing Fe	nce
etation: r, compacted soils or substrates will action without mixing soil layers. eted to a min. depth of 15.0m (or		Structu	g Building / re	<>>	Operationa Entrance	I
e available). The area will be ire of timothy, alfalfa, and red ghed under for two years, producing soil. After this, a good hay			Scale House		Cross-Sect	ions
and Rehabilitated Landform: sive and proceed as limits of lopes will be constructed. Slopes nd/or backfill methods using on-site shown represents the max. extent iced if marketable resources are not		Propose Planting	•			
<b>ation:</b> be ongoing as stripping and lopes and pit floor areas not being ations where extraction has been ely rehabilitated.						
<b>Fill:</b> erburden) may be imported to ly sufficient material to create a 3:1						
<b>res:</b> be on-site and none will remain						
main on-site.						
ge and Discharge: round water ranges from ±507 re will be no off-site drainage as d to a level below the surrounding ur through percolation into the dditional drainage be necessary,						
al Environment Level 1 Technical e Consultant (July 2019); Natural al Report - Birks Natural Heritage		mendments:				
ensation Plan should incorporate the		Date ust 3, 2021		Description rst Submission;		A.S
ommendation: etained woodland edges, which will ed and supplemented with targeted						
rehabilitation will be undertaken as it itat removed. r possible, native plantings within the nd habitat available in the area. proposed in the progressive nd Habitat removed. litation recommendations are	MNRF App	roval Stamp:	Stamp:			
the woodland, soil from the forest eedbank) should be salvaged and ected woodland compensation areas. t least 20 cm deep will need to be	Applicant:	DUI	Innisfil	9th Line, I, Ontario S 3Z6	AGE LTD.	
nting. should be placed around the roots of nd shrubs. ative species that are appropriate for	Project:	ME	LANCTHON F Part of East half of Con. 4 Twp of Mel	of Lots 13 and 14,		
Id be randomly mixed in a variable not in rows to mimic a natural forest. be planted in spring or fall. uld be watered immediately after ekly for the first two months, then t of the growing season. d be placed on seedling stems to m mammal browsing. uld be inspected annually for survival		ense Ref. No.:	Shelburn FION PLAN	ne, Ontario Pre-approval Re I ) 150	eview: 	<b>3 of 4</b>
ears. Plants should be replaced if 30% survival.		PLA tel: 705	NOVATIVE PL NNERS • PROJECT M 647 WELHAM RD., UNIT 9 5 • 812 • 3281 fax: 705 • 812 • 3438	A N A G E R S • L 9A, BARRIE, ONTARIO, e: info@ipsconsultingin	AND DEVELOPER L4N 0B7 c.com www.ipsconsultinginc	RS
	Drawn By: File No.:	A.S. 18-802		Checked By: Date:	D.V. / J.H August 3, 2021	