Appendix A2 Model Soil Management Plan Form

Section 1: Project Information

Site address:	
Lot number:	
Permit type:	Permit number:
Permit holder:	Phone:
Mailing address:	
Contact person:	Phone:
Plan prepared by:	Phone:

Section 2: Required Documentation (Check off all required items that are attached to this plan.)

Soil Management Plan drawing to scale (minimum 11" x 17"), identifying:
 Areas where existing trees, vegetation and soil will be protected from disturbance.
 Planting areas by type and what Best Management Practice option and variant will be applied.
 Areas where stripped site topsoil will be stockpiled and preserved (if applicable)
Copies of laboratory analyses for proposed compost or imported topsoil products.
Copies of laboratory analyses for pre-construction topsoil quality over the site (OPTIONAL. Required if proposing custom compost amendment rates).

Section 3: Pre-construction Soil Conditions

Testing not required if information is already available from geotechnical investigations (Section 4.2 of the Soil Management Best Practices Guide).

Pre-construction topsoil depth					
Record depth of topsoil (soil horizon A) at a mi	nimum of five (5	5) location	s evenly di	stributed over the site (det	ermined from
soil core samples or dug test holes to 30 centil	metres depth or	a depth s	lightly grea	ter than the full extent of the	he topsoil
layer) with one (1) additional location for every	4,000 m ² of site	area. Ca	lculate the	mean depth of topsoil over	er the site.
Location 1 topsoil depth (cm):		Location	6 topsoil de	epth (cm):	
Location 2 topsoil depth (cm):		Location	7 topsoil de	epth (cm):	
Location 3 topsoil depth (cm):		Location	8 topsoil de	epth (cm):	
Location 4 topsoil depth (cm):		Location	9 topsoil de	epth (cm):	
Location 5 topsoil depth (cm):		Location	10 topsoil o	depth (cm):	
Mean topsoil depth (cm):					
Pre-construction topsoil quality (OPTIONAL.	Required if pro	posing cu	istom comp	oost amendment rates.)	
Collect and combine a minimum of five (5) san	nples from soil c	cores or d	ug test hole	es evenly distributed over	the site with
one (1) additional sample for every 4,000 m ² of	f site area. Mix th	horoughly	and subsa	mple to produce a 600 gra	am
composite sample and submit for laboratory te	sting. Attach a	copy of t	he laborat	ory test results.	
Parameter	Result				
Particle size distribution	% sar	nd	% silt	% clay	
Soil texture classification					
Organic matter content (by dry weight) (%)					
Soil pH					
Soil bulk density (g/cm ³)					
Pre-construction subsoil quality (OPTIONAL	. Recommended	d if soil co	mpaction t	esting following completion	on of grading
and construction activities to confirm or refine	prescribed treat	ments is	proposed)		
Parameter	Result				
Particle size distribution	% sar	nd	% silt	% clay	
Soil texture classification				2. 1 20	

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(Sum the required quantities for all planting areas. Refer to Section 6.)

Product type (compost, imported topsoil, mulch)	Product name	Total volume required (m ³)	Total mass required (kg)	Product quality meets OMOE, municipal or CA requirements?*	Product quality meets Soil Mgmt. Best Practices Guide recommended standards?**
				Yes / No	Yes / No
				Yes / No	Yes / No
				Yes / No	Yes / No
				Yes / No	Yes / No
				Yes / No	Yes / No

Comments:

* Applies to compost and imported topsoil products only. For compost quality requirements refer to the most recent OMOE guideline document. For imported topsoil quality requirements contact the relevant municipality or Conservation Authority. Attach copies of all laboratory test results.

** Applies to imported topsoil products only. Turf areas: 5 to 10% organic matter content and pH 6.0 to 8.0; Planting beds and Tree Pits: 10 to 15% organic matter content and pH 6.0 to 8.0. Attach copies of all laboratory test results.

Section 5: Approval

Date	SMP Approved (Y / N)	Name of Inspector	Signature of Inspector
Comments / Revisions Re	quired		

Section 6: Soil Management Plan Details

(Complete a separate table for each BMP area. Copy and attach additional pages as needed.)

General information				
Area number or identification code (Corresponding to the	number/code on the So	oil Management Plan	drawing):
Best Management Practice (BMP) to			2 – Stockpile, prese	rve and replace
		eserve, replace and am		ive and replace
Option 3 - Amend site subsoil	Option 4 - Impo			
Planting type:				
Undisturbed existing vegetation	🗌 Turf area	Planting bed	🗌 Tree pit	
Size of area (m ²):				
Protection measures (Complete this s	ection for areas of ur	disturbed existing vege	tation only)	
Are protection measures required?		No		
Describe protection measures to be				
implemented (e.g. erosion and				
sediment control practices,				
construction fencing).				
Subsoil decompaction				
Recommended total uncompacted soil Turf area: 30 cm	depths for each type Planting bed: 30 cm		follows: ee pit: 90 cm	
Will a decompaction treatment likely be needed?	🗌 Yes 🛛	No		
Depth of decompaction treatment				
(cm) required (refer to Section 5.2 of				
the Soil Mgmt. Best Practices Guide				
for depths specific to the BMP and				
planting area type)				
Proposed decompaction treatment:	Tilling with a rot			
		a chisel plow or backho	e	
	Ripping with a s			
		replacement with unco	mpacted soil	
	Other:			
Proposed materials				
Туре	Product name	Application depth (cm)*	Volume required (m ³)**	Mass required (kg)***
Stockpiled site topsoil	Not applicable			
Compost				
Imported topsoil				
Mulch				
Topsoil depth				
Refer to Section 5.2 of the Soil Mgmt. B		for detailed guidance or	n options for achievin	g the
recommended topsoil depth standards.				
Recommended topsoil depths for each				
	g beds: 20 cm	Tree pits:	60 cm	
Compost amendment incorporation de	pth (cm):			
Method of compost incorporation (i.e. t				
mixing and replacement; mechanical m		ite		
topsoil and compost on-site and placer				
*For default compost amendment rates for	each planting type, refe	er to Section 5.2 of the Sol	il Mgmt. Best Practices	Guide. Custom

compost amendment rates can be calculated using the calculation worksheet in Appendix A3 of the Soil Mgmt. Best Practices Guide or the spreadsheet calculator available at www.sustainabletechnologies.ca.

**Volume of material required $(m^3) = [Application rate (cm)/100] \times Size of planting area (m²)$

***Mass of material required (kg) = [Volume of material (m³) x 1x10⁶ x Bulk density of material (g/cm³)]/1000

Section 7: Soil Compaction Testing

Cone penetrometer tests (OPTIONAL. Recommended prior to implementation of prescribed treatments to confirm or refine where soil decompaction is needed)

Perform at least five (5) tests per planting area with an additional test for every 400 m² of planting area. If 50% or more of the tests exceed maximum acceptable penetrometer readings for the soil texture (see below), decompaction is needed.

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Penetrometer test results		Measured penetrometer reading	Result exceeded maximum acceptable reading?	Soil is uncompacted to the recommended depth?		
		Test 1:	Yes / No	Yes / No		
		Test 2:	Yes / No	Yes / No Yes / No Yes / No Yes / No		
		Test 3:	Yes / No			
		Test 4:	Yes / No			
		Test 5:	Yes / No			
		Test 6:	Yes / No Yes / No		Yes / No	
		Test 7: Yes / No Test 8: Yes / No			Yes / No	
				Yes / No		
		Test 9:	Yes / No	Yes / No		
		Test 10:	Yes / No		Yes / No	
Acceptable co	one penetrome	eter readings				
Dominant	All Textures	Sandy (includes loamy	/ Silty (includes loar	n, silty Clay	yey (includes clay	
Soil Texture	of Sand	sand, sandy loam, sand	dy loam, silty clay loar	n, and 🛛 loan	7)	
(Refer to		clay loam and sandy cl	lay) silty clay			
Section 3):			9294 G. (1992) 32			
Surface	≤ 110 PSI	≤ 260 PSI	≤ 260 PSI	≤ 225 PSI		
Resistance:	\leq 7.7 kg/cm ²	\leq 18.3 kg/cm ²	\leq 18.3 kg/cm ²	≤ 1	5.8 kg/cm²	
	≤ 758 kPa	≤ 1793 kPa	≤ 1793 kPa	≤ 1	≤ 1551 kPa	

Notes:

- 4. PSI = Pounds per square inch (lb/in²)
- 5. $kg/cm^2 = kilogram per square centimetre$
- 6. kPa = kilopascal