

**TECHNICAL MEMORANDUM****DATE** June 11, 2018**Project No.** 1787048**TO** Mr. Timothy Chadder  
J. L. Richards & Associates Limited**CC** Paul Smolkin, Golder; Trish Edmond, Golder**FROM** Gwendolyn Weeks**EMAIL** gweeks@golder.com**DESCRIPTION OF PROPOSED VEGETATION SCREEN  
CAPITAL REGION RESOURCE RECOVERY CENTRE (CRRRC), OTTAWA, ONTARIO**

The proposed Capital Region Resource Recovery Centre (CRRRC) is located in the east part of the City of Ottawa, in the former City of Cumberland, southeast of the Highway 417/Boundary Road interchange. The property is on the east side of Boundary Road, east of an existing industrial park, north of Devine Road and west of Frontier Road. The property consists of about 175 hectares (430 acres) of land on Lots 23 to 25, Concession XI, Township of Cumberland.

The project is currently seeking Site Plan approval from the City of Ottawa. This technical memorandum has been prepared as a supporting document, to be included as part of the Site Plan approval application. The purpose of this memo is to describe the screen to be provided by existing vegetation that is proposed to be left in place around portions of the east, south and west boundaries of the Site, mainly in the southern portion of the Site where the landfill component of the CRRRC is to be located.

The attached Figure 10-1, Site Development Plan (taken from the approved Environmental Assessment (EA) study report), shows areas of Existing Vegetation Screening along portions of Frontier Road on the east side of the Site; Devine Road on the south side; Boundary Road on the west side; and between the Site and the adjacent properties on Enterprise Crescent. These areas represent existing vegetation that will be retained post-development to act as a visual screen. These areas represent those which are not proposed for development in accordance with the approved EA and their protection is in accordance with the intent of the City's Tree Conservation Guidelines. Below is a more detailed description of each screen section, based on Ecological Land Classification (ELC) vegetation community descriptions developed as part of the EA.

**Frontier Road Vegetation Screen**

The vegetation screen on Frontier Road begins just south of Pond 4B, and extends south to approximately 450 m north of Devine Road. The retained screen will range from approximately 20 - 40 m in width. At the north end, the first 150 m of the screen consists of planted white spruce (*Picea glauca*) intermixed with occasional trembling aspen (*Populus tremuloides*), which is a former plantation.

Moving south along the screen, the next 180 m section consists of tall shrubs dominated by mature speckled alder (*Alnus incana*), with a dense understory of glossy buckthorn (*Rhamnus frangula*) seedlings and saplings in many areas.

Continuing south, the remainder of the screen consists of immature deciduous trees including balsam poplar (*Populus balsamifera*) and European white birch (*Betula pendula*) with associates such as red maple (*Acer rubrum*) and trembling aspen. The understory in this area is dominated by glossy buckthorn and shining willow (*Salix lucida*).

### **Devine Road Vegetation Screen**

The vegetation screen along Devine Road begins approximately 200 m west of the intersection of Frontier Road and Devine Road, and will be retained as approximately 20 m in width in the eastern 400 m section and 40 m in width along the remainder. The first 400 m of the vegetation screen consists of a semi-open forest community, dominated by immature European white birch, trembling aspen, and red maple. The understory includes saplings and seedlings of the canopy tree species, as well as shrubs such as glossy buckthorn.

Moving west, the next 400 m section of the screen consists of an immature, semi-open treed community dominated by red maple, with associates of balsam poplar and green ash (*Fraxinus pennsylvanica*). The understory includes species such as speckled alder.

As the Site boundary begins to curve away from Devine Road, the vegetation screen consists of a semi-open forest community, dominated by immature red maple and trembling aspen, with associates of European white birch. The understory includes saplings and seedlings of the canopy tree species, as well as shrubs such as glossy buckthorn.

### **Boundary Road Vegetation Screen**

The vegetation screen along Boundary Road extends from Devine Road northward until the start of a proposed constructed berm, approximately 110 m south of Mitch Owens Drive, and approximately 40 m in width will be retained. One small break in the vegetation screen along Boundary Road will occur at the entrance to an existing residence that will be demolished in the future, where a small berm will be constructed post-demolition to block the former entrance.

The southern half of the vegetation screen along Boundary Road consists of a semi-open forest community, dominated by immature red maple and trembling aspen, with associates of European white birch. The understory includes saplings and seedlings of the canopy tree species, as well as shrubs such as glossy buckthorn.

The northern half of the screen consists of an immature, semi-open treed community dominated by red maple, with associates of balsam poplar and green ash. The understory includes species such as speckled alder.

### **Enterprise Crescent Vegetation Screen**

The landfill component of the Site will be screened from the properties on Enterprise Crescent by a 40 m wide vegetation screen, which will extend east from the proposed constructed berm for 360 m where it will terminate at Pond 1. The western 110 m of the screen in this area will consist of scattered trees, and small patches of marsh-like communities. Species dominance varies, but generally includes patches of shrubs such as speckled alder, glossy buckthorn, common buckthorn (*Rhamnus cathartica*), slender willow (*Salix petiolaris*), and meadowsweet (*Spiraea alba*).

Moving east, the next 240 m of the screen consists of a semi-open forest community, dominated by immature red maple and trembling aspen, with associates of European white birch. The understory includes saplings and seedlings of the canopy tree species, as well as shrubs such as glossy buckthorn.

The final 50 m of the screen, extending east to Pond 1, consist of the same community type as the first 110 m section described above.

## Other Proposed Screening Features

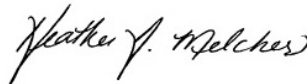
The attached figure also indicates perimeter sections where constructed screening features are proposed. These are proposed along sections of the perimeter where the existing vegetation is insufficient to provide a visual screen and where results of the visual impact assessment completed as part of the approved EA proposed that visual screening should be provided. These constructed features will consist of earth berms with vegetative plantings; the final proposed extent of the proposed berms and typical details for these proposed landscape features are provided separately on the Landscape Drawings that are a part of the Site Plan application package.

We trust this description of the vegetation screen to be left in place surrounding the east, south and west portions of the CRRRC Site meets your current needs. If you have any questions, please reach out to the under-signed.

### Golder Associates Ltd.



Gwendolyn Weeks, H.B.Sc.Env.  
Ecologist

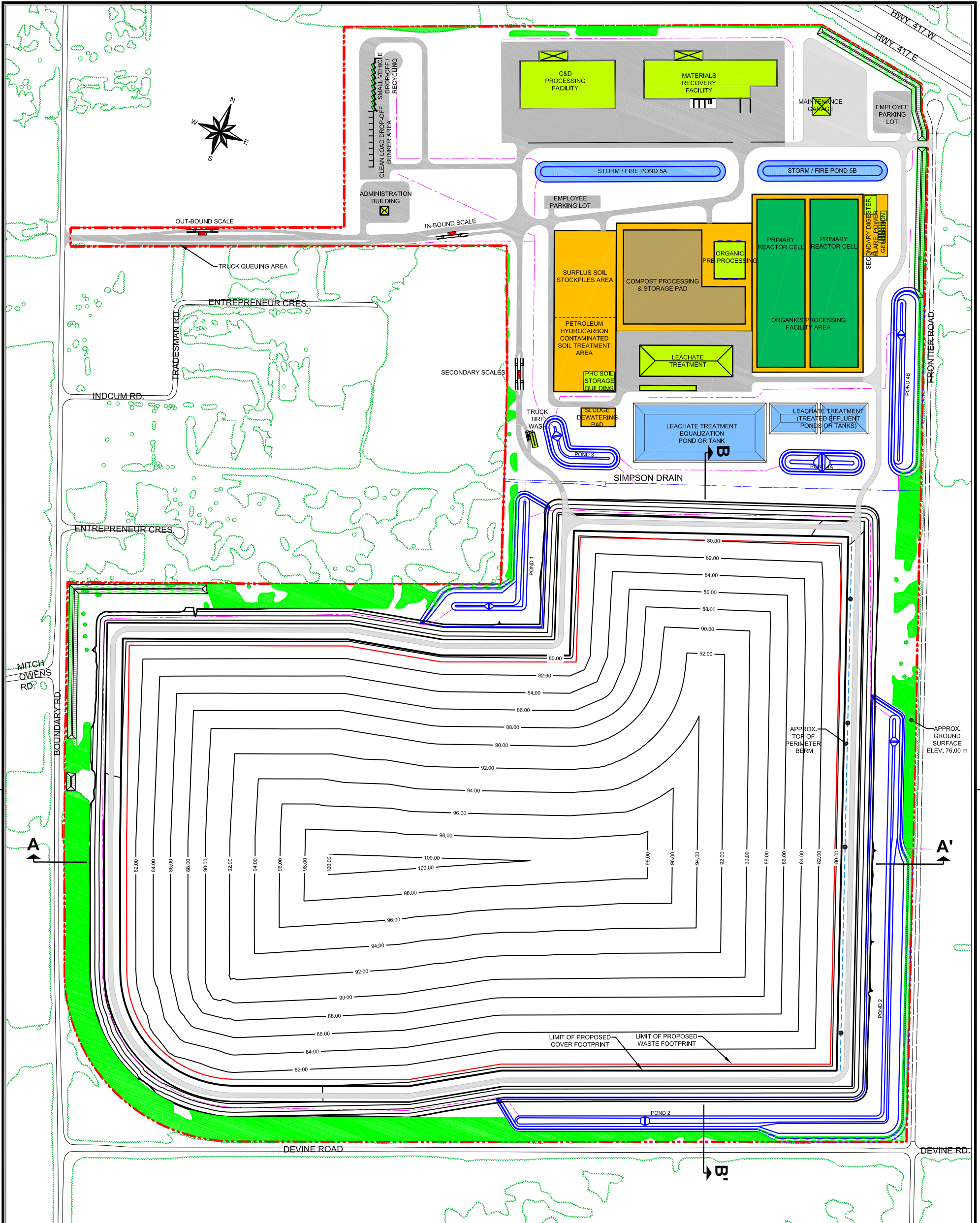


Heather Melcher, M.Sc.  
Senior Ecologist / Associate

GAW/HM/PAS/sg

[https://golderassociates.sharepoint.com/sites/18733g/technical work/phase 400 site plan application/task 4.1 tree conservation report/screening memo june 2018/1787048\\_crrrc\\_vegetation screen\\_11 june 2018\\_final.docx](https://golderassociates.sharepoint.com/sites/18733g/technical%20work/phase%20400%20site%20plan%20application/task%204.1%20tree%20conservation%20report/screening%20memo%20june%202018/1787048_crrrc_vegetation_screen_11%20june%202018_final.docx)

Attachment: Figure 10-1 – Site Development Plan



<b>LEGEND</b>		<b>NOTES:</b>	
	PROPOSED FACILITY BUILDING		EXISTING VEGETATION SCREENING
	OUTDOOR DIVERSION AREA		CONSTRUCTED SCREENING FEATURE
	PAVED ROAD (ASPHALT)		PERIMETER BERM CONTOURS (interval 1 m)
	GRAVEL ROAD		STORMWATER MANAGEMENT PONDS
	PROPERTY BOUNDARY		LANDFILL FINAL CONTOURS (interval 2 m)

SCALE 1:6,000 METRES

<p><b>Golder Associates</b> Ottawa, Ontario, Canada</p>	SCALE	AS SHOWN	<p><b>SITE DEVELOPMENT PLAN</b></p>
	DATE	7 Nov. 2013	
DESIGN	M.L.F.	<p><b>ENVIRONMENTAL ASSESSMENT OF THE CAPITAL REGION RESOURCE RECOVERY CENTRE</b></p>	
CAD	M.L.F.		
FILE No. 1211250045-V1-EAr-10-1.dwg	CHECK	P.L.E.	<p>FIGURE <b>10-1</b></p>
PROJECT No. 12-1125-0045	REV.	P.A.S.	