

1.0 INTRODUCTION

1.1 Purpose of this Document

This report (Environmental Assessment Study Report (EASR)) documents the Environmental Assessment (EA) of a new proposed integrated waste management facility, known as the Capital Region Resource Recovery Centre (CRRRC), which is proposed to be located in the east end of Ottawa, Ontario. If approved, the CRRRC would provide facilities and capacity for recovery of resources and diversion of materials from disposal for solid non-hazardous wastes that are generated by the Industrial, Commercial and Institutional (IC&I) and Construction and Demolition (C&D) and soils sectors primarily in Ottawa and secondarily eastern Ontario. It would also provide landfill disposal capacity on the same Site for diversion residuals and materials that are not diverted.

1.2 Identification of the Proponent

Taggart Miller Environmental Services (Taggart Miller), a joint venture of Taggart Investments Inc. and Miller Waste Systems Inc., is the proponent for the proposed CRRRC. The contact for the purposes of this EA is as follows:

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Project Manager/Directeur de projet
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Email: hjbouque@crrrc.ca

1.3 Background

The Taggart group of companies is an Ottawa-based, Canadian family-owned business specializing in civil infrastructure construction with other operating companies providing general contracting/construction management services, housing developments from single family to high rise condominiums and the acquisition, development and management of industrial sites, commercial office and retail space. Taggart Investments Inc. is part of the Taggart group of companies.

Miller Waste Systems Inc. is also a family-owned Canadian company providing waste management services in Ontario, Manitoba and the Maritimes. Miller Waste Systems Inc. designs, builds and operates facilities to provide long term, economically viable waste management solutions (collection, recycling, diversion, transfer) for municipalities and private sector customers. In 2012, Miller Waste Systems Inc. secured collection contracts for a portion of Ottawa's residential waste. It is noted that Ottawa's residential waste is disposed at the City of Ottawa's (City's) Trail Road Waste Facility and would not go to the proposed CRRRC.

The Province of Ontario and the City of Ottawa have clearly stated objectives to significantly increase the diversion of IC&I and C&D waste materials from disposal. These objectives were recently reinforced with the introduction of Bill 91. Current diversion rates in the Capital Region (and the province) are considerably below City and provincial targets. Taggart Miller believes it can assist in achieving City and provincial IC&I/C&D diversion objectives by developing and operating a new integrated waste management facility. The facility would

primarily serve Ottawa and secondarily portions of eastern Ontario for waste materials generated by the IC&I and C&D sectors. Since it is currently not (and may never be) technically or economically possible to divert all materials from disposal, there will be a continuing need for disposal of materials that cannot reasonably be recovered/recycled from the IC&I/C&D waste stream.

1.4 Location of Proposed CRRRC Facility

Taggart Miller identified and secured two potential Sites for development of the proposed CRRRC. The locations of the two alternative Sites are shown on Figure 1.4-1.

One site - the North Russell Road Site - is located in the northwest part of the Township of Russell about three kilometres east of the boundary with the City of Ottawa, about five kilometres south of Provincial Highway 417 between the Boundary Road and Vars exits, and approximately three kilometres north of the Village of Russell boundary, and approximately four kilometres north of the centre of the Village of Russell.

The second site - the Boundary Road Site - is located in the east part of the City of Ottawa just southeast of the Highway 417/Boundary Road interchange. The property is located on the east side of Boundary Road, north of Devine Road and west of Frontier Road, and east of an existing industrial park on Lots 22 to 25, Concession XI, Township of Cumberland.

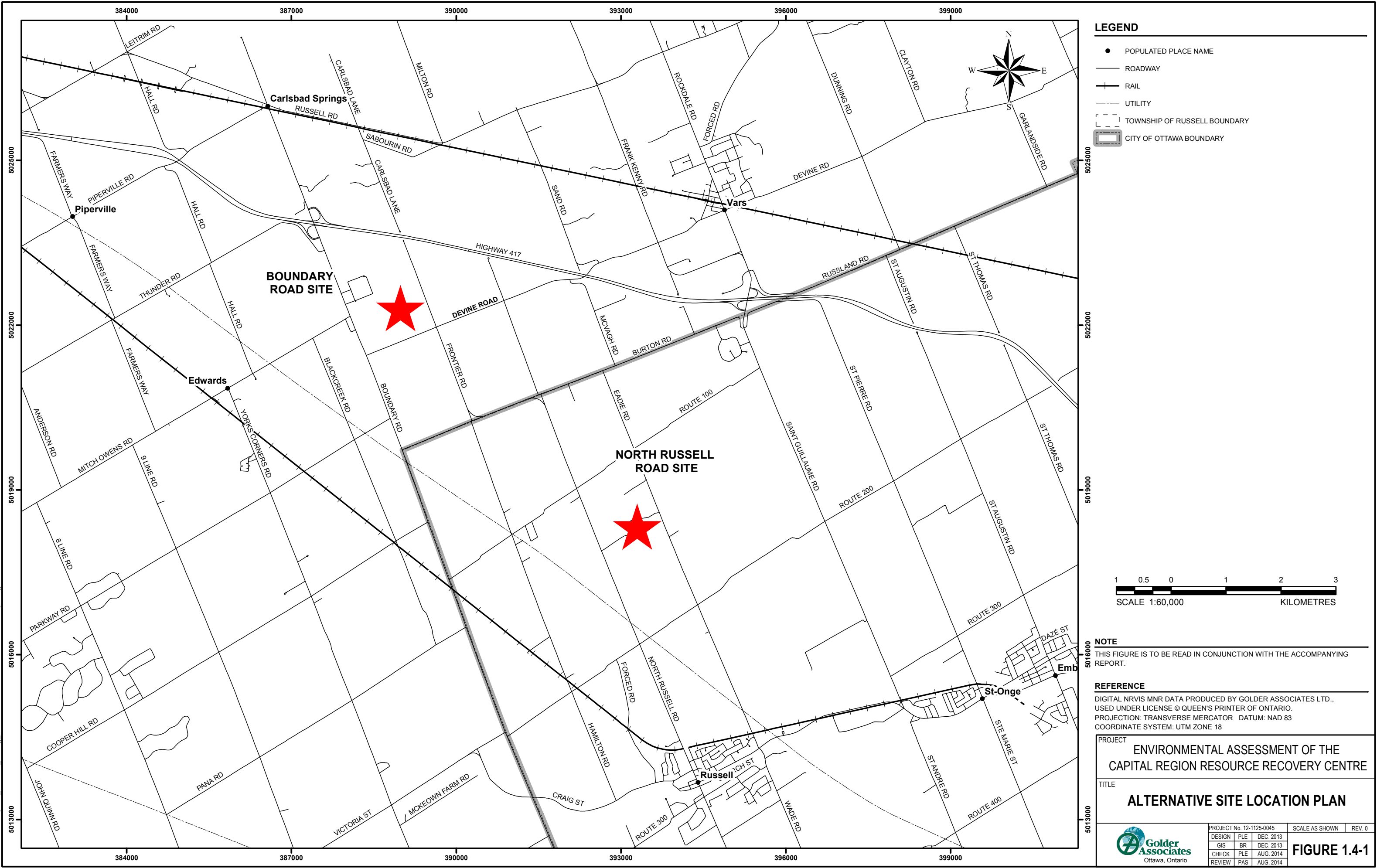
As a result of the comparative evaluation of the two Sites as described in Section 7.0, the Boundary Road Site has been identified as the preferred Site and the North Russell Road Site is no longer under consideration.

1.5 Development of the Terms of Reference

The approved Terms of Reference (TOR) (Appendix A) provided the framework for conducting the EA.

As noted in the TOR, Taggart Miller is proceeding under subsection 6(1) and 6.1(3) of the *Environmental Assessment Act* (EAA). As contemplated by subsection 6(2)(c) of the EAA, the proposed TOR set out in detail the requirements for the preparation of the EA.

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1.6 Purpose of the CRRRC

The purpose of the proposed CRRRC is:

To provide facilities and capacity for recovery of resources and diversion of materials from disposal for solid non-hazardous wastes and soils that are generated by the Industrial, Commercial and Institutional (IC&I) and Construction and Demolition (C&D) sectors in Ottawa and eastern Ontario. It would also provide landfill disposal capacity on the same site for post-diversion residuals and materials that are not diverted.

The proposed service area is shown on Figure 1.6-1 and consists of the City of Ottawa, and the Counties of Prescott-Russell; Stormont, Dundas and Glengarry; Lanark; Leeds & Grenville; Frontenac; Lennox and Addington; and Prince Edward. It is anticipated however that the CRRRC would receive waste and soils primarily from the City of Ottawa.

Since development of the TOR for this EA, provincial goals and policies have been updated in 2013, which further support the rationale for the proposed CRRRC. Data from Statistics Canada released in August 2013 indicate that the Province of Ontario has not improved IC&I/C&D waste diversion rates since 2008 (Statistics Canada, 2013a). This information is further described in Section 4.0 of this EA.

1.7 Scope of Approvals Being Sought

The proposed CRRRC requires approval under the EAA, the *Environmental Protection Act* (EPA) Part V and the *Ontario Water Resources Act* (OWRA) Section 53. Taggart Miller is submitting the documentation to support EA and EPA/OWRA requirements jointly in one submission. The EPA/OWRA applications (Environmental Compliance Approval (ECA)) will however only be submitted once EAA approval is received.

Other approvals that will or may be required for the CRRRC are summarized below.

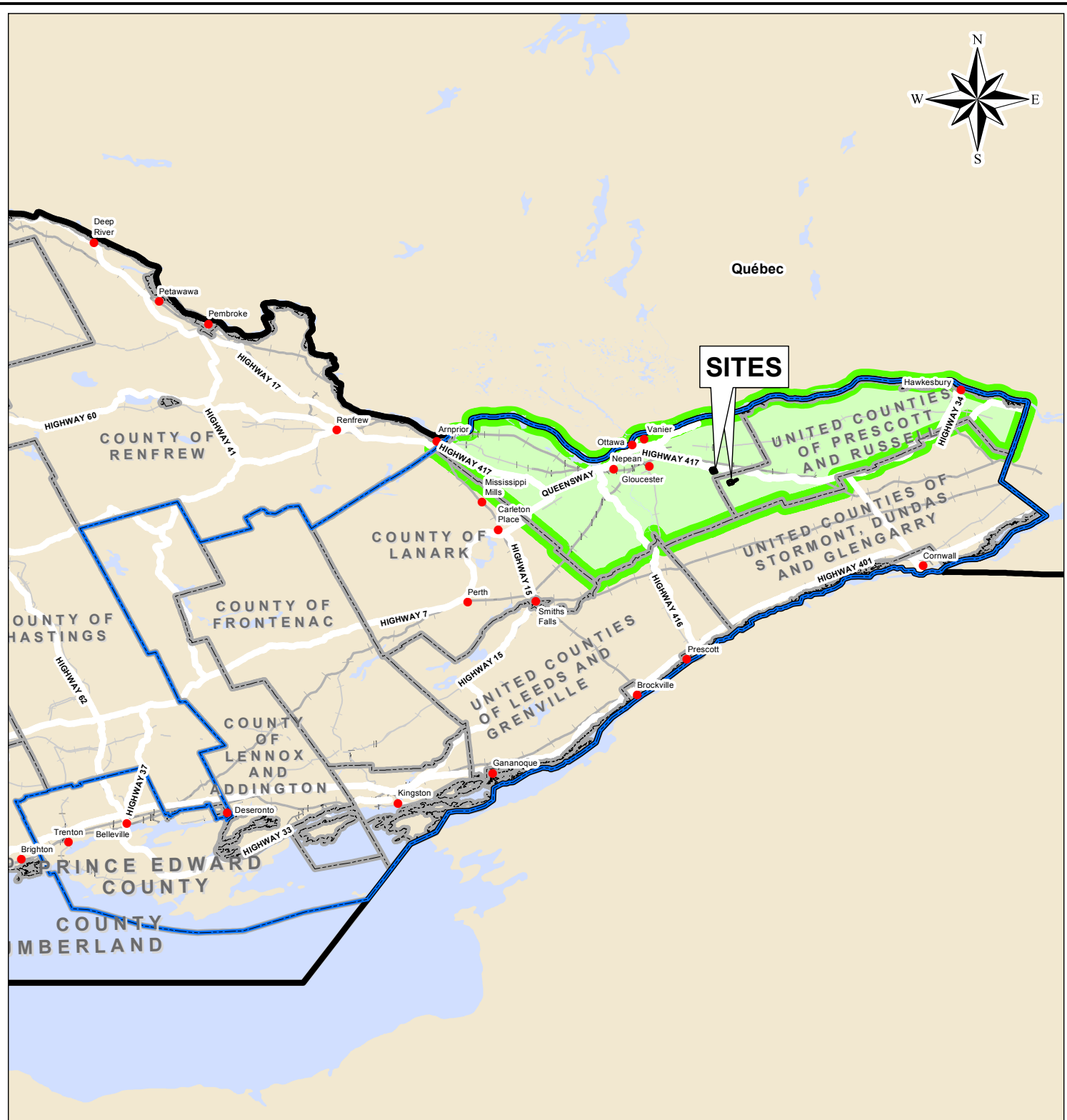
Ontario Heritage Act – The development of the CRRRC will require a letter of concurrence from the Ministry of Culture, Tourism and Sport to demonstrate to the MOECC for the EA and the City of Ottawa for OPA and ZBA's that potential archeological and heritage resources have been appropriately considered and development of the Site is allowable from the perspective of the Ministry of Culture, Tourism and Sport.

Planning Act, Official Plan Amendment (OPA) and Zoning By-Law Amendments (ZBA) – The implementation of the CRRRC will require approvals under the *Planning Act* (OPA and ZBA) since the proposed CRRRC is not recognized in the present Official Plan and parts of the Boundary Road Site are not currently zoned for the activities contemplated by the CRRRC. *Planning Act* approvals would be sought after EA approval is received for the CRRRC.

Conservation Authority Approvals – The South Nation Conservation Authority is responsible for issuing permits for any construction in or alternation of water courses under *The Conservation Authorities Act, Ontario Regulation* (O. Reg.) 170/06 (MNR, 2006). It is anticipated that approval from South Nation Conservation will be required to implement the Site development plan due to the required drainage alterations associated with construction of the development.

Drainage Act – Due to the presence of a municipal drain within the proposed Site development area, approval under the provincial *Drainage Act* will be required. This approval would be sought after EA approval is received for the CRRRC.

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LEGEND

- PLACE NAME
- PROVINCIAL BOUNDARY
- UPPER TIER MUNICIPALITY
- PROPOSED SERVICE AREA
- EXPECTED PRIMARY SERVICE AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING REPORT.

REFERENCE

DIGITAL NRVS MNR DATA PRODUCED BY GOLDER ASSOCIATES LTD.,
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0 10 20 40 60 80
SCALE 1:2,000,000 KILOMETRES

PROJECT

ENVIRONMENTAL ASSESSMENT OF THE
CAPITAL REGION RESOURCE RECOVERY CENTRE

TITLE

PROPOSED SERVICE AREA



PROJECT No. 12-1125-0045			SCALE AS SHOWN	REV. 0
DESIGN	PLE	DEC. 2013	FIGURE 1.6-1	
GIS	BR	DEC. 2013		
CHECK	PLE	AUG. 2014		
REVIEW	PAS	AUG. 2014		

1.8 Concordance of TOR and EASR Documentation

This EASR (Volumes I and II) and accompanying Technical Support Documents (TSD) and Volumes III and IV address the requirements of the TOR.

The EA was carried out in accordance with the framework provided by approved TOR and the requirements of the EA Act and O.Reg. 334 and taking into account applicable MOECC guidance documents, e.g., Codes of Practice for Preparing and Reviewing EAs in Ontario and Consultation in Ontario's EA Process.

Table 1.8-1 provides the concordance between these documents. The requirements listed in the TOR are provided in the left column, while the right column provides the location where the requirement is addressed in the EASR and/or accompanying documents.

Table 1.8-1: Concordance Table

TOR Requirements	Section of the Documentation
A description of the purpose of the undertaking	Section 1.6 of the EASR
A description of and a statement of the rationale for the undertaking	Section 4.0 of the EASR
A description of and a statement of the rationale for the alternative methods of carrying out the undertaking	Sections 7.0, 9.0 and 12.0 of the EASR
A description of and a statement of the rationale for the alternatives to the undertaking	Section 5.0 of the EASR
A description of the environment that will be affected or that might reasonably be expected to be affected, directly or indirectly	Section 8.0 of the EASR; TSD #2 to #9; Volume III
A description of the effects that will be caused or that might reasonably be expected to be caused to the environment	Section 11.0 of the EASR; TSD #2 to #9; Volume III
A description of the actions necessary or that may reasonably be expected to be necessary to prevent, change, mitigate or remedy the effects upon or the effects that might reasonably be expected upon the environment, by the undertaking, the alternative methods of carrying out the undertaking and the alternatives to the undertaking**	Sections 7.0, 9.0, 10.0, 12.0 and Appendix A of the EASR; TSD #2 to #9
An evaluation of the advantages and disadvantages to the environment of the undertaking, the alternative methods of carrying out the undertaking and the alternatives to the undertaking**	Sections 7.0, 9.0 and 12.0 and Appendix A of the EASR; TSD #10
A description of any consultation about the undertaking by the proponent and the results of the consultation	Section 3.0 of the EASR and Volume II

Note: ** The assessment of Alternatives To was completed in the TOR.

1.9 Organization of the EASR Documentation

This EASR is presented in four volumes. Volume I (this volume or the Main EASR report) describes the EA studies, consultation results, assessment of alternatives, identification of a preferred alternative and effects assessment of the preferred alternative. TSDs to Volume I contain additional details for each of the technical assessments. Volume II contains the Consultation Record for the EASR. Volume III contains the Geology, Hydrogeology & Geotechnical Report and Volume IV contains the Design and Operations (D&O) Report.

Volume I of the EASR contains 15 sections as follows:

- Section 1.0 – Provides an introduction to the EA and relevant background information;
- Section 2.0 – Presents the methodology used for the EA;
- Section 3.0 – Presents the consultation methods, activities and events and a summary of each event;
- Section 4.0 – Summarizes the rationale for the proposed CRRRC;
- Section 5.0 – Summarizes the assessment of ‘Alternatives To’ the proposed CRRRC (Supporting Document #1 of the approved TOR);
- Section 6.0 – Presents an initial conceptual description of the proposed CRRRC for the purpose of comparing the alternative Sites, including overviews of the waste stream and the function of each of the major facilities and associated project works for both the diversion facilities and the landfill component;
- Section 7.0 – Summarizes comparative evaluation that resulted in the identification of the Boundary Road Site for the CRRRC facility;
- Section 8.0 – Describes the existing environmental conditions at and in the vicinity of the Boundary Road Site;
- Section 9.0 – Summarizes the identification of the preferred Site development concept;
- Section 10.0 – Presents a detailed description of the proposed CRRRC facility;
- Section 11.0 – Summarizes the predicted net environmental effects of the proposed CRRRC in accordance with the approved evaluation framework;
- Section 12.0 – Presents the evaluation of leachate treatment alternatives and the identification of a preferred alternative;
- Section 13.0 – Describes the predicted cumulative impacts of this proposal and other known or probable projects;
- Section 14.0 – Describes the follow-up monitoring programs to confirm that the CRRRC is performing as expected. It also presents conceptual contingency measures that would be implemented should the proposed CRRRC not perform as expected and remedial measures are required; and
- Section 15.0 – Lists the commitments made during the TOR and EA process.

The following appendix is part of Volume I:

- Appendix A – Proposed TOR for Environmental Assessment of the Proposed Capital Region Resource Recovery Centre (Volume 1 excluding Appendix C work plans for the North Russell Road Site).

The following TSDs are part of Volume I:

- TSD #1 – Comparison of Alternative Sites
- TSD #2 – Atmosphere – Noise
- TSD #3 – Atmosphere – Air
- TSD #4 – Biology
- TSD #5 – Land Use & Socio-Economic
- TSD #6 – Archaeological Assessment
- TSD #7 – Cultural Heritage Evaluation Report
- TSD #8 – Agriculture
- TSD #9 – Traffic Impact Study
- TSD #10 – Leachate Management

Volume II contains the Consultation Record.

Volume III contains the Geology, Hydrogeology & Geotechnical Report.

Volume IV contains the Design and Operations Report.