

**REPORT TO INTEGRATED RESOURCE MANAGEMENT ADVISORY COMMITTEE  
MEETING OF WEDNESDAY, JUNE 28, 2017**

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**SUBJECT**      **Advanced Integrated Resource Management – Next Steps**

**ISSUE**

To present the next steps in the development of the Advanced Integrated Resource Management (IRM) Project.

**BACKGROUND**

The recent Advanced Integrated Resource Management (IRM) Project – Request for Expressions of Interest (RFEOI) gathered information to better inform the CRD of IRM market capabilities and considerations prior to embarking on an IRM procurement process. The outcome of the RFEOI process was not intended to qualify technologies or respondents, nor was it intended to validate partners.

The CRD received ten RFEOI submissions that propose a variety of IRM technologies, feedstocks and end uses. An initial high-level assessment of the responses was presented to this advisory committee in April 2017. Additional clarification was sought from all respondents to better inform the detailed analysis.

Key findings from the detailed analysis point to a number of next steps to advance the initiative. The primary next step in the IRM process is to draft an IRM Project Plan outline, together with the following short-term deliverables:

- a gap analysis to complete the evaluation of the broader array of technologies and feedstock combinations (as required in the provincial approval of the Core Area Liquid Waste Management Plan, Amendment No. 11)
- a proposed IRM facilities tour plan to address identified information gaps; and
- a summary of potential policy/project implications resulting from the CRD's lack of flow control over much of the waste feedstock.

The gap analysis bulleted above will be informed by a jurisdictional review of how similar-sized and larger municipalities within BC, North America and further abroad successfully and beneficially reuse biosolids. This review was also directed by the Minister of Environment as a condition of approval for Amendment No. 11 of the Core Area Liquid Waste Management Plan, and will be presented to the Advisory Committee in September.

The IRM Project Plan, which builds on the IRM work plan that was submitted to the Province at the end of May (Appendix A), will serve as a road map and will be built over time as the process evolves and further deliverables are identified.

## **ALTERNATIVES**

### *Alternative 1*

That the Integrated Resource Management Advisory Committee recommend to the Environmental Services Committee:

That staff be directed to prepare the following deliverables for the September 2017 IRM Advisory Committee meeting:

- a draft Integrated Resource Management Project Plan outline
- a gap analysis to complete the evaluation of the broader array of technologies and feedstock combinations (as required in the provincial approval of the Core Area Liquid Waste Management Plan, Amendment No. 11)
- a proposed IRM facilities tour plan to address identified information gaps; and
- a summary of potential policy/project implications resulting from the CRD's lack of flow control over much of the waste feedstock.

### *Alternative 2*

That staff revise the next steps in the IRM process as directed by the IRM Advisory Committee.

## **POLICY IMPLICATIONS**

IRM has the potential to impact every aspect of the overall waste management system. IRM in the Capital Region is predominantly driven by the solid waste streams, as biosolids comprise a relatively small proportion of the total combined liquid and solid waste streams. The CRD does not have flow control over the vast majority of its solid waste streams, which presents a significant risk to the IRM project, as identified by the RFEOI respondents.

If thermal treatment technology (mass burn, gasification, pyrolysis) is used to produce energy from Municipal Solid Waste, the Province expects local governments to have a minimum target of 70% reduction of solid waste from reduce, reuse and recycle initiatives before moving to a thermal treatment technology for residuals management. Furthermore, an amendment to the CRD Solid Waste Management Plan would be necessary to move in this direction. Supporting such a plan amendment and the fundamental shift in waste management will necessitate ongoing and meaningful public and First Nations consultation and deep community support.

## **CONCLUSION**

The CRD has initiated the Advanced Integrated Resource Management Project process by issuing a Request for Expressions of Interest and has obtained valuable information. The next step in the process is to prepare the initial deliverables in the development of a draft IRM Project Plan for review by committee in September 2017.

**RECOMMENDATION**

That the Integrated Resource Management Advisory Committee recommend to the Environmental Services Committee:

That staff be directed to prepare the following deliverables for the September 2017 Integrated Resource Management Advisory Committee meeting:

- a draft Integrated Resource Management Project Plan outline
- a gap analysis to complete the evaluation of the broader array of technologies and feedstock combinations (as required in the provincial approval of the Core Area Liquid Waste Management Plan, Amendment No. 11)
- a proposed IRM facilities tour plan to address identified information gaps; and
- a summary of potential policy/project implications resulting from the CRD's lack of flow control over much of the waste feedstock.

Submitted by:	Russ Smith, Senior Manager, Environmental Resource Management
Concurrence:	Larisa Hutcheson, P.Eng., General Manager, Parks & Environmental Services
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

RS:cl

Attachment: Appendix A – Proposed Integrated Resource Management Work Plan