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Monitoring Committee Report Annual General Meeting, April 23, 2013

During the past year, the CMEI Monitoring Committee has continued to bring recommendations from ADI's 2005 and 2009 Independent External Reviews of the Crane Mountain Landfill to the attention of the Waste Commission in order to ensure that they are carefully considered and acted upon.

The Action Items targeted by the General Manager of the landfill for consideration in 2012 are top priorities for CMEI: an examination of geochemical evolution of the groundwater flow downgradient of the landfill; the creation of a numerical model of groundwater flow and contaminate transport; and the construction of deeper groundwater monitoring wells to support the above.

In response to this recommendation, the Waste Commission accepted a proposal by Dr. Tom Al and Dr. Kerry MacQuarrie from the departments of Earth Sciences and Civil Engineering at UNB to conduct a hydrogeological investigation of the groundwater flow system at the Crane Mountain Landfill. Conducted by a student under the supervision of Al and MacQuarrie, this investigation will be the first in a number of steps to improve the understanding of the flow system. The major part of the work will take place from May through August of 2013, and a final report is scheduled for December 2013.

In the fall of 2012, CMEI signed another contract with **exp.** (formerly ADI), to continue their independent external review of the domestic well monitoring data. As our Chair Tom Simpson pointed out, the first phase of their work involved developing a geological map of the area downgradient of the landfill and developing trend graphs and plots of leachate indicator parameters located in each geological formation. Samples of their work will be demonstrated here tonight.

In September, 2012, the annual testing of the 69 domestic wells in the area from South Bay through Martinon took place. At that time, only 43 out of the 69 were tested. Therefore CMEI made a request to the Fundy Region Solid Waste Commission at their November meeting for Gemtec to return for another day of testing, preferably on Saturday when people would be home. Early in December, Gemtec staff did return on a Saturday and took samples from 20 more wells.

During the past year, CMEI responded in writing to the Crane Mountain Landfill's "Five-Year Waste Reduction and Diversion Plan—2012" and sent our recommendations to the New Brunswick Department of the Environment. Our focus was environmental protection: we urged more diversion from the Industrial, Commercial and Institutional sector, increased remote collections of Household Hazardous Waste, further diversion of electronic waste, and also spoke to local problems with illegal dumping. The CMEI Monitoring Committee is pleased with the new public drop-off system implemented at the landfill in December of 2012 because it will allow for hazardous waste disposal six days a week during regular landfill hours.

Several years ago, several CMEI Board members detected problems with the 24-hour monitoring system of the cell underdrains at the landfill. Landfill staff are endeavouring to fix these problems, and our Board members are keeping a watchful eye on the system.

CMEI has financed annual aerial photos of the landfill site for a number of years now. These photos show clearly the development of the landfill. A slide show can be accessed on the CMEI website, and an example will be shown here tonight as well.

CMEI Board members are responding to their mandate to provide independent monitoring of the landfill by keeping abreast of the landfill operations and monitoring data, by conferring with the General Manager, the Regional Services Commission, and the Department of the Environment, by engaging independent experts to work on their behalf, and by being open to concerns or suggestions from residents of the area from South Bay through Grand Bay-Westfield.

Respectfully submitted,

Roberta W. Lee, Chair of the Monitoring Committee