

Stage 2 Report: Phase 2

The Bigger Questions

- Site a new landfill?
- Source separate all organics for composting (organics out)?
- Make Glenmore Landfill into a bioreactor landfill (organics in)?



Stage 2 Report: Phase 2

The Bigger Questions

- Investigate siting new landfill
 - Site another RDCO landfill
 - Partner with neighbouring Regional Districts to haul our garbage to one regional landfill



Landfill Percentage Reduction	Cost
0%	\$\$\$\$+

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The Bigger Questions

- Source separate organics for composting (organics out of garbage stream)
 - Organics composted at private facility
 - Industrial and commercial waste collected first
 - Residential organics collected at curb later



Landfill Percentage Reduction	Cost
10%	\$\$\$\$

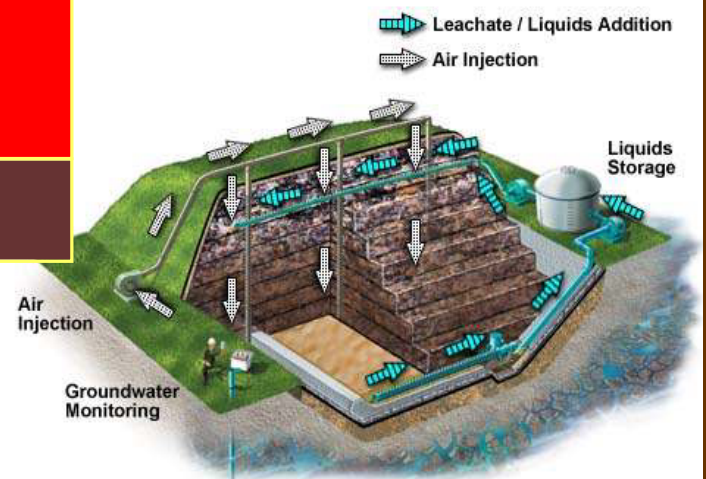
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The Bigger Questions

- **Convert Glenmore Landfill into Bioreactor Landfill**
 - Leave organics in garbage to be used as fuel
 - Leachate and methane is collected
 - Methane used as energy source (electricity and heat)
 - Garbage decomposes faster - makes more space

Note: a bioreactor landfill pilot project is being planned for the Glenmore Landfill

Landfill Percentage Reduction	Cost
0%	\$



Courtesy of Waste Management

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The Bigger Questions

- **How these options compare in 2043 dollars***

Status Quo (do nothing)	\$239 million
Compost Organics (out)	\$316 million
Bioreactor Landfill (organics in)	\$292 million



- **Expected landfill closure**

Status Quo (do nothing)	2043
Compost Organics (out)	2064
Bioreactor Landfill (organics in)	2060

*Net Present Value estimates

Does not include cost of siting a new landfill or building other waste to energy facilities. (Costs of either option will be in the tens to hundreds of millions)

Stage 2 Report: Phase 3

The Bigger Questions

- Examination of waste to energy options
 - Thermal treatment of waste (incineration)
 - New Technologies
 - Gasification
 - Pyrolysis

Landfill Percentage Reduction	Cost
Varies	\$\$\$\$\$\$\$\$+

