

WHY IS THIS IMPORTANT?

- ▶ Landfill space is expensive
- ▶ Community and environmental protections are important
- ▶ We are at decision points for facilities



WHAT SERVICES DO WE ALREADY HAVE?

- ▶ **Front End Processor/Waste Stabilization Facility** processing at **\$10.6 million per year**
- ▶ **Landfill cell operations and monitoring:** gas and leachate management, daily cover, litter clean-up, falconry program

WHAT HAVE WE LEARNED OVER THE PAST 15 YEARS?

- ▶ WSF processing causes **greenhouse gases** to be released early — this is harder to capture
- ▶ If Otter Lake is going to close, we have to start siting new landfill at a cost of **\$100 million**



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OUR OPTIONS:

OPTION 1: INCREASE CELL HEIGHT (5, 10 OR 15 METRES)

BENEFITS

- ▶ Reduces need to site new cells until 2023 to 2036 depending on option with a cost avoidance of \$36 to \$117 million
- ▶ Use of existing infrastructure including cell liner, gas & leachate management

IMPLICATIONS OR CONSIDERATIONS

- ▶ If you can't see the landfill now, you would not see it with increased height
- ▶ Would extend life of landfill beyond current operating contract

OPTION 2: DISCONTINUE GARBAGE PROCESSING AT FEP/WSF AND REPURPOSE FOR ORGANICS PROCESSING

BENEFITS

- ▶ Reduce early release of greenhouse gases – eliminate need for temporary gas management
- ▶ Cost avoidance of building new compost facility

IMPLICATIONS OR CONSIDERATIONS

- ▶ Public perception of unprocessed material going in to landfill
- ▶ Loss of jobs

OPTION 3: CONSTRUCT CONSOLIDATED WASTE CAMPUS MODEL

BENEFITS

- ▶ If campus is at Otter Lake, continued use of existing infrastructure
- ▶ Convenience for haulers
- ▶ Facilitates co-collection model

IMPLICATIONS OR CONSIDERATIONS

- ▶ Public buy-in for hosting multiple sites

OPTION 4: EXTEND OPERATIONS AT OTTER LAKE

BENEFITS

- ▶ If campus is at Otter Lake, continued use of existing infrastructure
- ▶ Convenience for haulers
- ▶ Facilitates co-collection model

IMPLICATIONS OR CONSIDERATIONS

- ▶ If Otter Lake operations are not extended, siting would have to commence for new site
- ▶ Opportunities exist to transport waste to landfills that are outside of HRM boundaries
- ▶ Upcoming technology for energy from waste could be option in future, reducing need for landfill space



LANDFILL SITE CHANGES



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