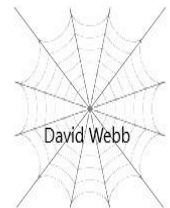


# Future Waste Disposal

City of Kawartha Lakes

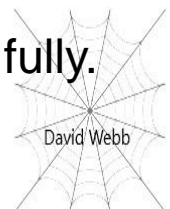
Dillon Consulting Future Waste Disposal Report  
and Recommendations

Prepared by: David Webb



# Background

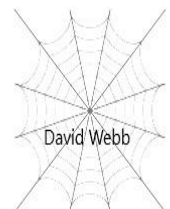
- This deputation speaks to the report on Future Waste Disposal Options report by Dillon Consulting which is being presented at COW.
- The report and its recommendations are the Pre-Environmental Assessment that will guide the terms of reference of a full Environmental Assessment (EA).
- The report is recommending initiating an expanded landfill and starting an EA almost immediately even though the city has 15-24 years within which to work.
- I am here to recommend:
  - The city adopt a more progressive position on Waste Management and spend some of the 15-24 years remaining looking at modern solutions not just the old standby solution of landfill.
  - Publication of full Dillon report data,
  - Public consultations of the Pre-EA and during the EA and
  - Deferring the EA 8+ years to explore potentially better options more fully.



# Timing

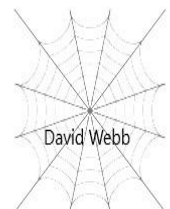
## **CKL has up to 24 years to develop the next waste management solution.**

- CKL waste that is not diverted enters landfill sites on track to be full by 2037.
- CKL landfills life could be extended to 24 years with more diversion and vertical expansion (see Appendix)
- A full Environmental Assessment (EA) and build of the landfill takes 6-9 years.
- York-Durham Energy From Waste took about 10 years from start of EA to online.
- The Dillon report recommends starting the EA this year with landfill as the preferred option – not sure why so soon.



# Dillon Report

- The Dillon report recommends expanding the CKL Landfill as the preferred option.
- The report envisions public consultations on the report AFTER council endorses it.
- The report only goes into depth on “Considerations” for the preferred option not any other option.
- This report will influence the full EA so needs to take care not to predetermine the outcome or focus of the EA. It don't will bias the EA towards that option.
- Other options were not recommended due to their costs, public perception, environmental impact and the effort required.
  - No data has been published on how the options were evaluated, so it is unclear the relative values for each evaluated option.



# Other Option Considerations

- The Mass Burn (Energy From Waste) option was found to be costly and not supported by the public, both which might be countered by Durham's experience.
- With 8+ years before the EA needs to begin the city has a great opportunity to investigate more progressive options – EFW, carbon capture, etc...
- Before setting the direction for and starting the EA city council should:
  - Hear from the public
  - Hear from the 5 Counties Project on Energy From Waste and understand the state of support from peer municipalities (Actually 7 counties - Peterborough, CKL, Northumberland, Hastings, Prince Edward, Belleville and Quinte West).
  - Hear the experience of York and Durham Regions with Energy from Waste.
  - Hear from staff about contemporary carbon capture technology extracting high value carbon/other elements to provide a revenue stream to help offset costs (CKL is currently exploring proof of concept for one such technology).



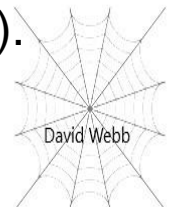
# What We Can Do

- We can be progressive and explore new technologies that will last generations, be environmentally friendly and be cost neutral

OR

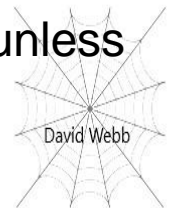
- Take the easy route and expand landfill again – likely the last time allowed by law.

- Nothing is cast in stone yet - we have the perfect opportunity now to really make a difference in how CKL manages waste in the future.
- We have the time to explore with up to 24 years available (with effort).
- We know of local progressive technologies that work (ie Durham-York EFW).
- We have potential partners to share the cost and effort (7 Counties EFW).



# Recommended Next Steps

- Publish the full report (with backing data) for public review before consultations.
- Ensure public consultations BEFORE council endorses the Dillon study.
- Direct staff to engage with/report back on the 5 Counties EFW project and include the findings in the final report (as input to terms of reference for the final EA).
- Defer starting the EA for 8 years instead putting time and energy into formally exploring EFW with the 5 Counties Project
  - If viable then proceed to new option (York-Durham took 10 years)
  - If not viable, start the landfill expansion EA with the remaining 8+ years
- Evaluate new carbon capture technologies with potential positive revenue stream
  - Ie UR One technology which was presented to CKL Waste Management Committee and is working with the city on a proof of concept.
- Ensure the EA terms of reference are not focused on a preferred option unless fully supported by public consultations.



# Appendix - Landfill Extension to 24 years

- Financially incentivize Construction and Demolition waste to be diverted
  - Reduce cost to tip for sorted loads
  - Increase cost for mixed/undiverted loads
  - Could increase diversion by 70% and **extend about 2.4 years**
- Incentivize Ind/Inst/Comm recycling/diversion - at 25% reduction **extend by 1.1 years**
- Charge users for curbside collection – at 10% reduction **extend about 1.25 years**
- With a full Green Bin program - at 30% reduction **extend by 1.5 years**
- A small vertical expansion of the Lindsay Landfill extends another **4 years** (would need an EA).
- **The landfill could be extended something like 9 years with this effort**

