



Environmental and Energy Stewardship Subcommittee

200 College Street, Room 310

November 19, 2021

Meeting Minutes

Subcommittee Members Present

Chairman Newman, Commissioner Wells, Commissioner Sloan, Maggie Ullman, Jamie Ager, Lena Hanson, Meg Williams

Staff Members Present

Sybil Tate, Jeremiah LeRoy, Jennifer Harrison, Ashley Featherstone, Rafael Baptisa, Jessica Hughes, Michael Frue, Dane Pedersen

Brownie Newman called the meeting to order at 10:03am.

Approval of Agenda

- Terri Wells made a motion to approve the November 19th, 2021 minutes, seconded by Maggie Ullman, and the motion passed with the vote.

Vice-Chair Nomination

- Terri Wells made a motion to nominate Maggie Ullman as Vice-Chair, seconded by Meg Jamison, and the motion passed on the vote with all in favor.

Approval of Minutes

- Minutes from October 22, 2021 and November 12, 2021
- Terri Wells moved to approve the minutes and Maggie Ullman provided a second, and the motion passed with all in favor.

Public Comment

- There was no public comment.

Solid Waste Overview

- There is a three-year contract with Duke to pull energy from the landfill.
- 6 projects used for debris removal, over 5,000 cubic yards worth of debris, funding through FEMA.
- Greenville, SC placed a greenway where the old landfill was and that is a possibility in Buncombe. The gases are too high to move forward with projects and will need 7 more years of monitoring before it can move forward with a project.
- MSW Landfill
 - Receives approx. 180,000 tons of waste per year
 - 21-29 years of capacity left
 - 38 acres remain; \$1M per acre development costs; TOTAL INVESTMENT = \$38M
- C&D landfill
- Receives approx. 40,000 tons of waste per year
- 15-20 years of capacity left
- 15 acres remain; \$500K per acre development costs; TOTAL INVESTMENT= \$8M
- See presentation for MSW and C&D landfill phase map.
- Where do MSW Landfill GHG Emissions Come From?



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- Organic material, such as food scraps, paper, etc. that breakdown in an environment without oxygen (anaerobic)
- Landfill Gas Collection System reduces GHG emission by turning methane into carbon dioxide: 25% of gas escapes (fugitive emissions) and is 50/50 methane/CO2 and 75% is flared or combusted through the engine and is converted to mostly CO2
- Potential Diversion Programs:
 - Business and restaurant food donation
 - School reuse and recycling programs
 - Commercial recycling collection
 - C&D diversion ordinance
 - LEED/Green building incentives
 - Repair cafes/Fix-it clinics
 - HHW product purchasing education
 - Pay-as-You-Throw programs
 - Recognition and rewards programs
 - Mandatory recycling ordinances and enforcement
 - Bans for landfilling specified materials and enforcement
 - Product reuse/recycling grants
 - Neighborhood re-use exchanges
 - Neighborhood food rescue programs
 - Bulky item collection/donation for reuse and repurposing
 - Difficult to manage materials
- Power Purchase Agreement with Duke for landfill gas – 3 year contract
- Landfill cell VII/Phase VII expansion – \$16M Construction starting March 2022
- Tip fee evaluation – Feb 2022, presented to the BOC in March, FY24 implementation
- Landfill gas beneficial use evaluation – Fall/Winter 2023
- Waste Pro contract evaluation – Fall/Winter 2023
- What is the best way to serve residents? Are convenience centers needed in addition to curbside collection? Should cost for service be collected via the tax bill vs. monthly billing by contractor?
- Emerging Contaminants- PFAS, PFOS regulations

Public meeting housekeeping

- If the members meet outside of regular scheduled meetings there will need to be 3 members or less to comply with open meeting laws.

Adjourn

Documents

- Presentation
- November 12, 2021 Minutes