



Climate Action Pocket Questions

Title: Consent Item Project #81004 Construction Contract Authorization

Purpose: *The Town Council is asked to consider adopting the resolution authorizing the Town Manager to enter into a construction contract for drainage improvements along Fidelity Street and the addition of a bioretention cell next to Fire Station #1.*

Department: Stormwater Utility / Public Works

1. How will this action impact the Town's or the community's greenhouse gas emissions?

This action will reduce and increase greenhouse gas emissions.

2. Please explain.

- Short-term greenhouse gas emissions will increase due to the use of heavy equipment used during construction.
- Long-term, the hope is that the natural vegetated system offers added benefits of climate change mitigation. Installation of the device works as a proactive deterrent against possible downstream algae blooms and their eventual decomposition.

3. How will this action impact the Town's environment?

This action will impact water quality, flooding, biodiversity, and other environmental impacts.

4. Please explain.

Water Quality – The device's main purpose is to improve water quality by using a combination of plants, engineered soil, and microbes to naturally filter, absorb, and treat stormwater runoff.



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Flooding – As a bioretention cell, the facility detains stormwater. This creates greater community flood capacity, slowing stormwater down as it moves from the built environment onto natural drainage ways.

Biodiversity – Natural plant selection promotes pollinator habitat.

Other – The installation provides an opportunity to showcase community stormwater practices and creates a teachable moment with our residents. Staff have included a bench and plan for interpretive signage at the facility.

5. How is your department planning to mitigate any climate or environmental impacts?

NOTE: This does not reflect a formal commitment by the Town of Carrboro.

As an environmental enhancement project there is no anticipated net negative impact. Staff will work with contractors to minimize the short-term air pollution and emissions related to construction. We anticipate these impacts will be greatly outweighed by the long-term environmental benefits.