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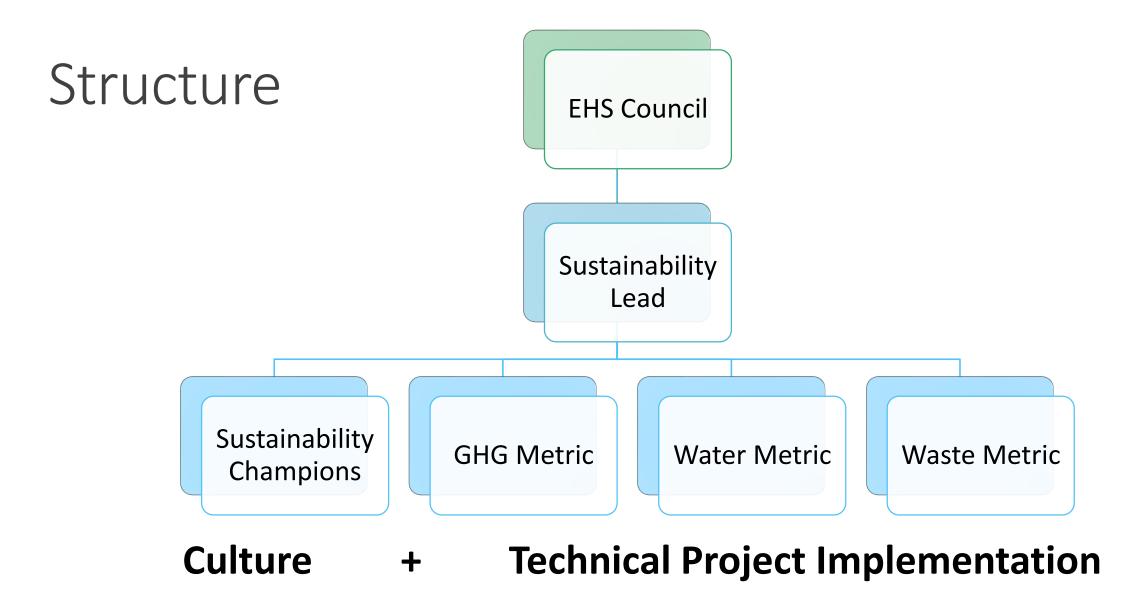


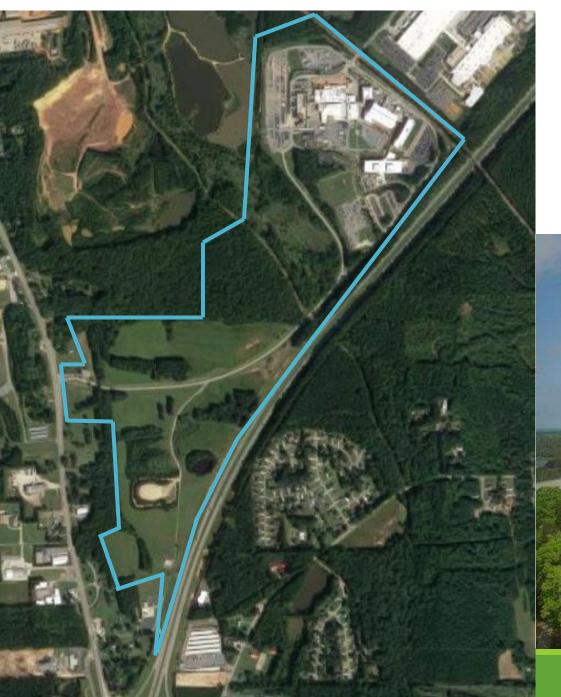
Chuck Powell

EHS Manager

CHMM

REM





Sanford, North Carolina Geographical Location – Central NC Land Area ~ 240 acres



What do we do?

Vaccine Manufacturing

- -Commercial Drug Substances & Intermediates
- -Clinical Trial Materials & Commercial Launch
- -Cell Banks



-Manufacture of cutting-edge gene therapy products from seed vial to finished dose







Sanford's Green Journey



= Sustainability Project

Please use
the chat
function to
send any
questions to
our panelists
during the
session

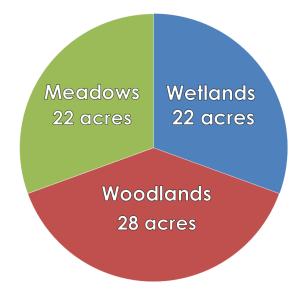






Wildlife & Industry Together (W.A.I.T)

- 72 acres of land dedicated to preservation
- Increases biodiversity as it is critical to the expansion of molecular diversity
- Continual learning opportunity for colleagues

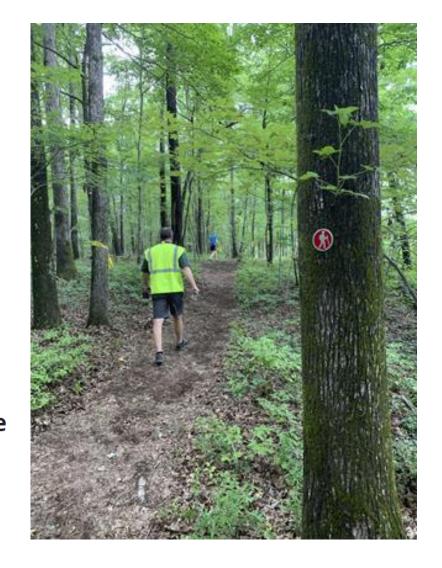






Hiking Trails

- · Cleared and maintained by the Wildlife Committee
- · Promotes Joy, physical and mental health through exercise and nature
- Connect colleagues with the importance of our environmental compliance obligations









Biomass Boiler

- · Uses woodchips from local logging operations as fuel
- Supplies up to 70% of the site's plant steam demand
- Carbon neutral fuel source that generates renewable energy credits (RECs)



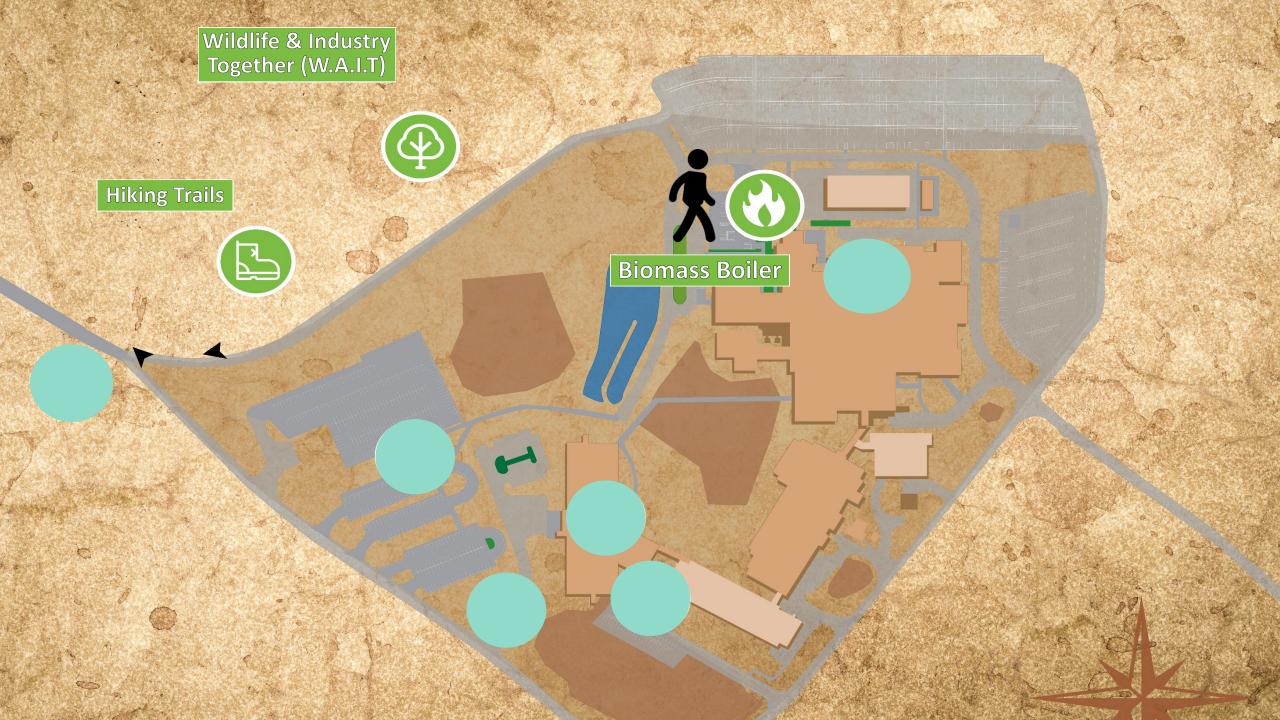


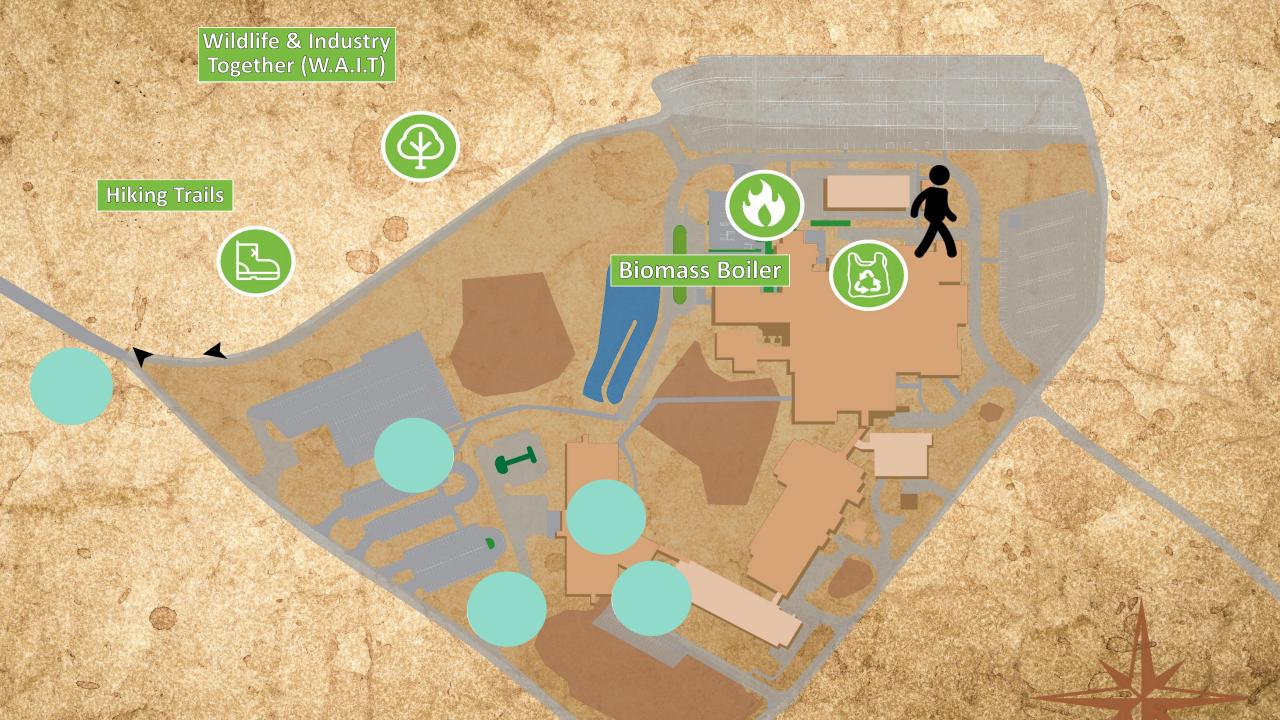


Which activity on site uses the most energy?

- a. Steam & Hot Water Generation
- b. WFI Generation
- c. HVAC Heating & Cooling





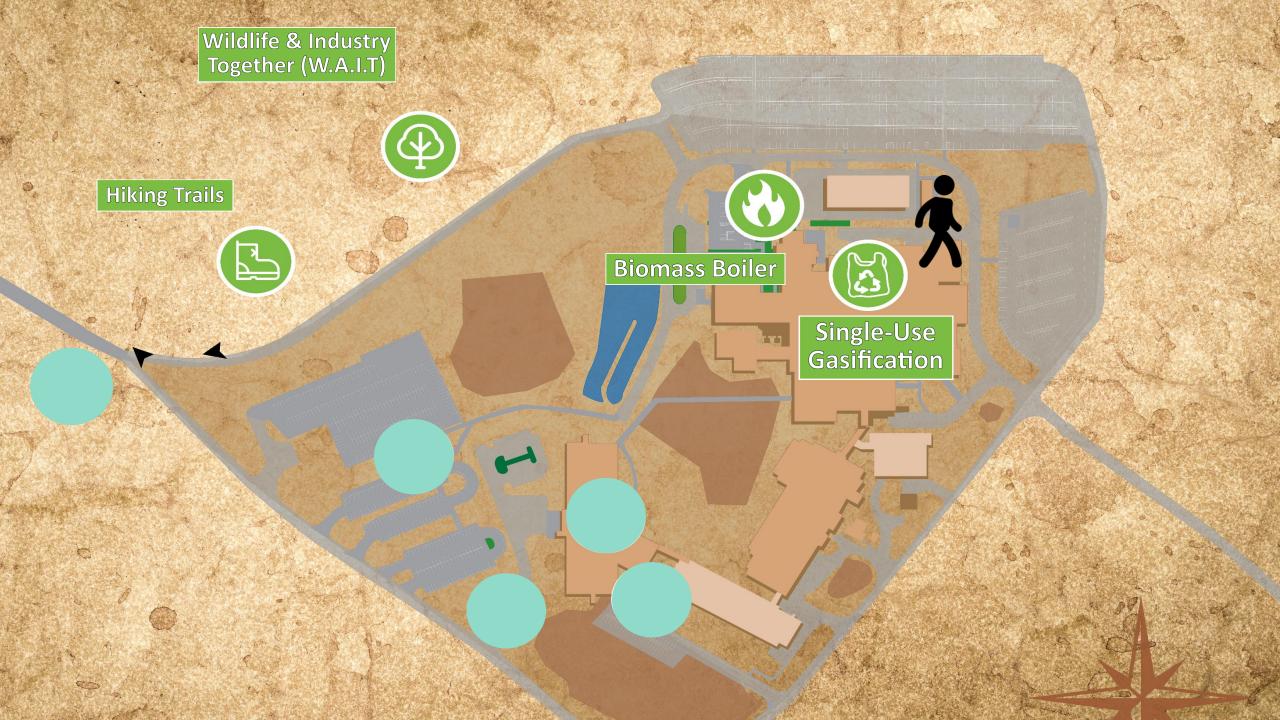


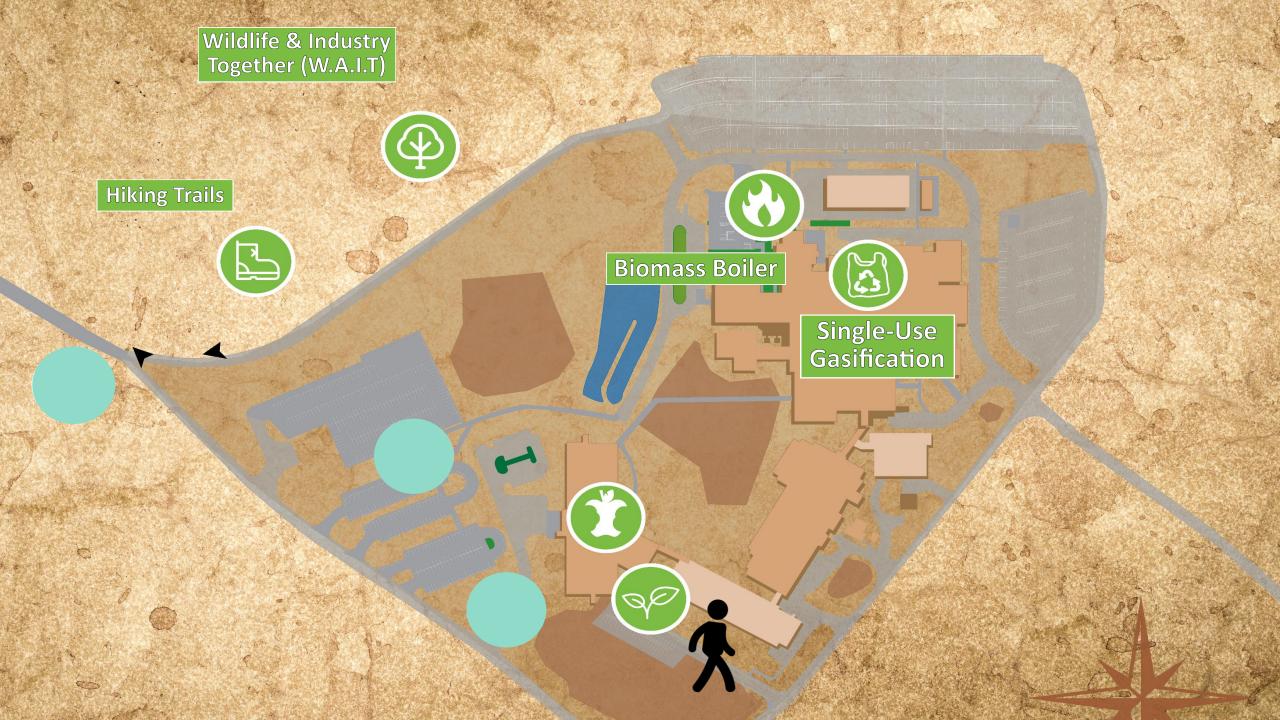


Single-Use Gasification



- · First-in-industry approach to treatment of single use waste
- · Heats plastics to high temperatures creating a fuel rich syngas
- Began in GTx Manufacturing and is being phased in across the site







Composting

- Alternative treatment method for food scraps
- · Creates a valuable soil amendment used in local farming
- · Reduces methane emissions associated with landfills





On average, in the Unites States, 52% of all waste goes to the landfill. In 2019 Sanford only sent what percent of it's waste to landfill?





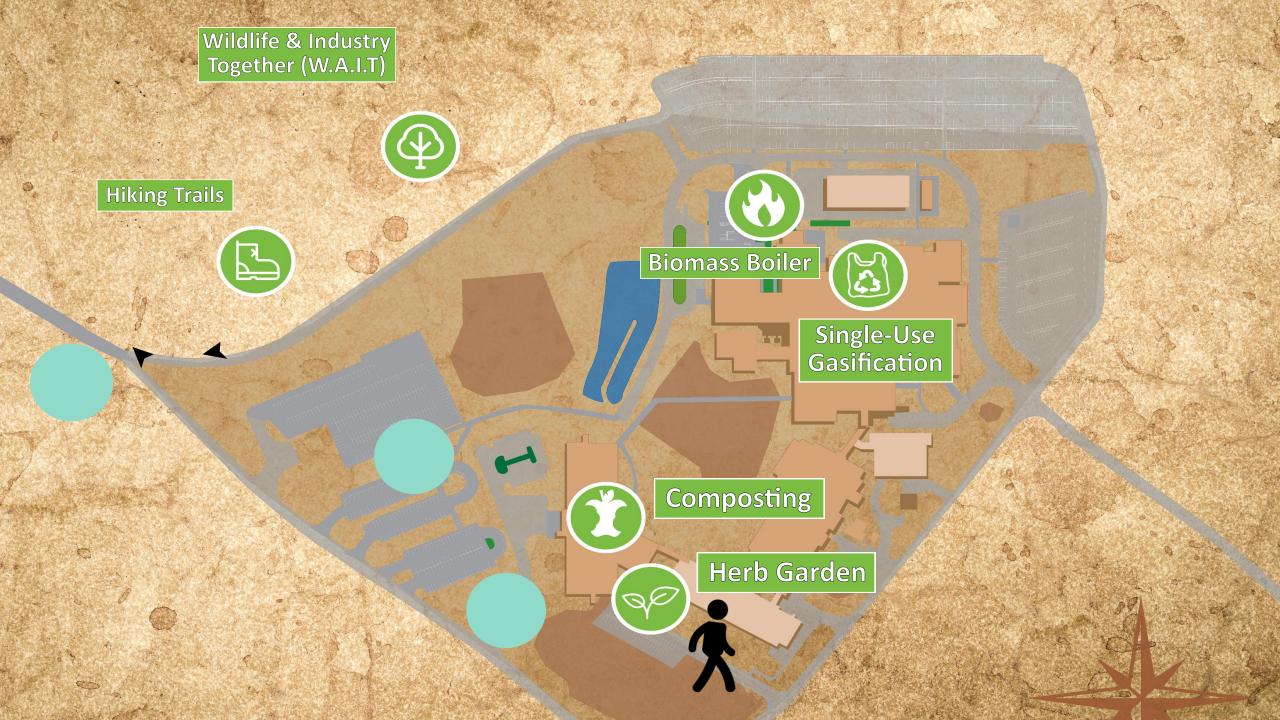
- c. 25%
- d. 32%



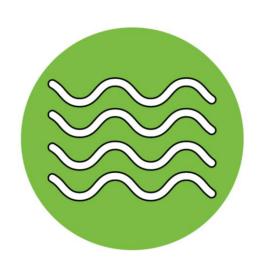
Herb Garden

- · Self-sustaining source of flavors for the café
- · Supports our site's diverse ecosystem as food for pollinators
- · Utilizes compost from our own facility completing a full circle









Cooling Tower-Moss Treatment

- Provides cool water for AC, chilled water, and other utility systems
- Utilizes a natural biological treatment vs chemical treatment
- · Greatly improves water quality translating to water savings











Van Pool

- · Up to 14 colleagues can ride together
- · Reduces GHG emissions
- Provides valuable time back to colleagues and reduces car maintenance









Beehives

- Increase biodiversity of the site's ecosystems
- · Support a pollinator species that has been in rapid decline
- · Increased colleague engagement in maintaining hives

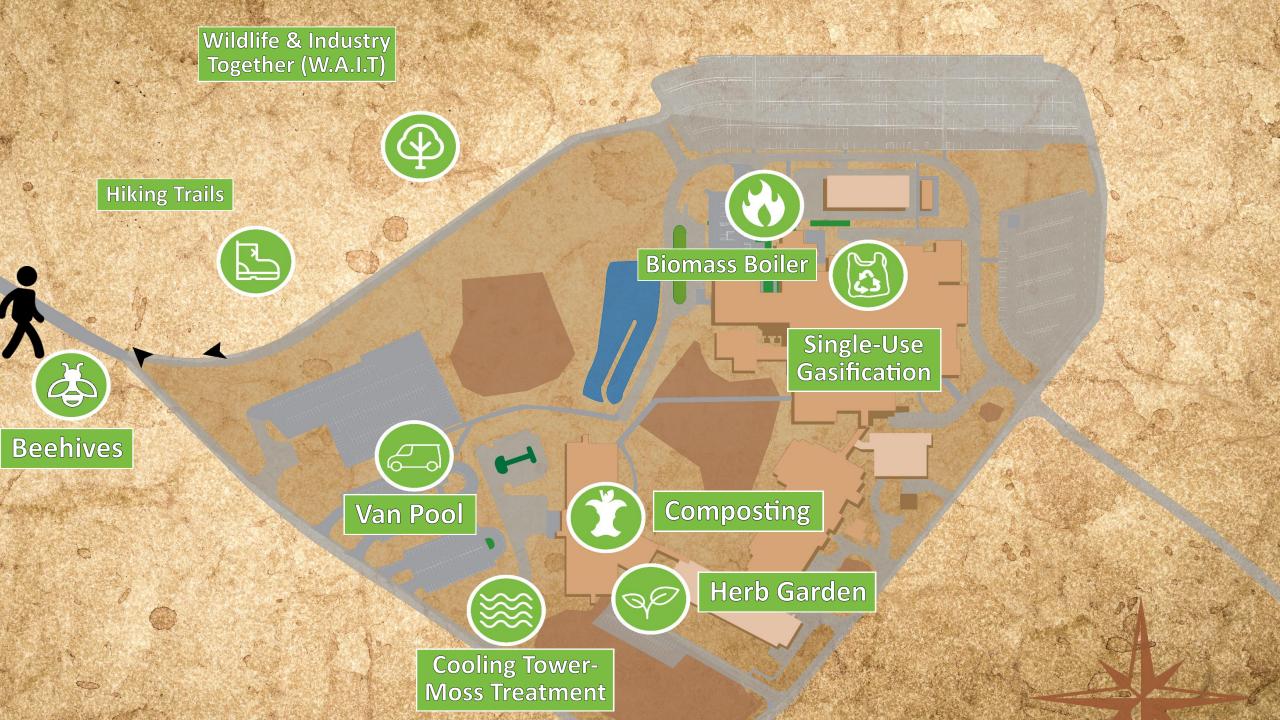


?

About how many bees are in a colony?

- a. 500
- b. 1,000
- c. 10,000
- d. 50,000





Recognition & Awards

2019 Environmental Steward



2019 Safety & Sustainability Star Winner



Sanford Sustainability Structuring for Success



Our Steward Culture

We treat sustainability as an extension of our *Actively Caring* culture

Our sustainability program has been successful because of the inclusive culture we have created

Every site is capable!

Discussion & Questions

Contact Information

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