



Application to Install Air Curtain Incinerators

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EPC Meeting
August 18, 2022

Environmental Protection Commission (EPC) of Hillsborough County's Authority

- SPECIAL ACT CHAPTER 84-446 LAWS OF FLORIDA
- CHAPTER 1-3 STATIONARY AIR POLLUTION SOURCES
- Section 1-2.051 (b), Rules of the EPC, Projects of Heightened Public Concern



Section 1-2.051(b), Rules of the EPC, Projects of Heightened Public Concern

- Enhanced Public Notice
 - EPC Rule Requires Applicant:
 - Post sign on property
 - Send certified letter to registered neighborhood organizations
 - Notify adjacent property owners by Applicant and EPC
 - EPC staff committed to hosting a public meeting

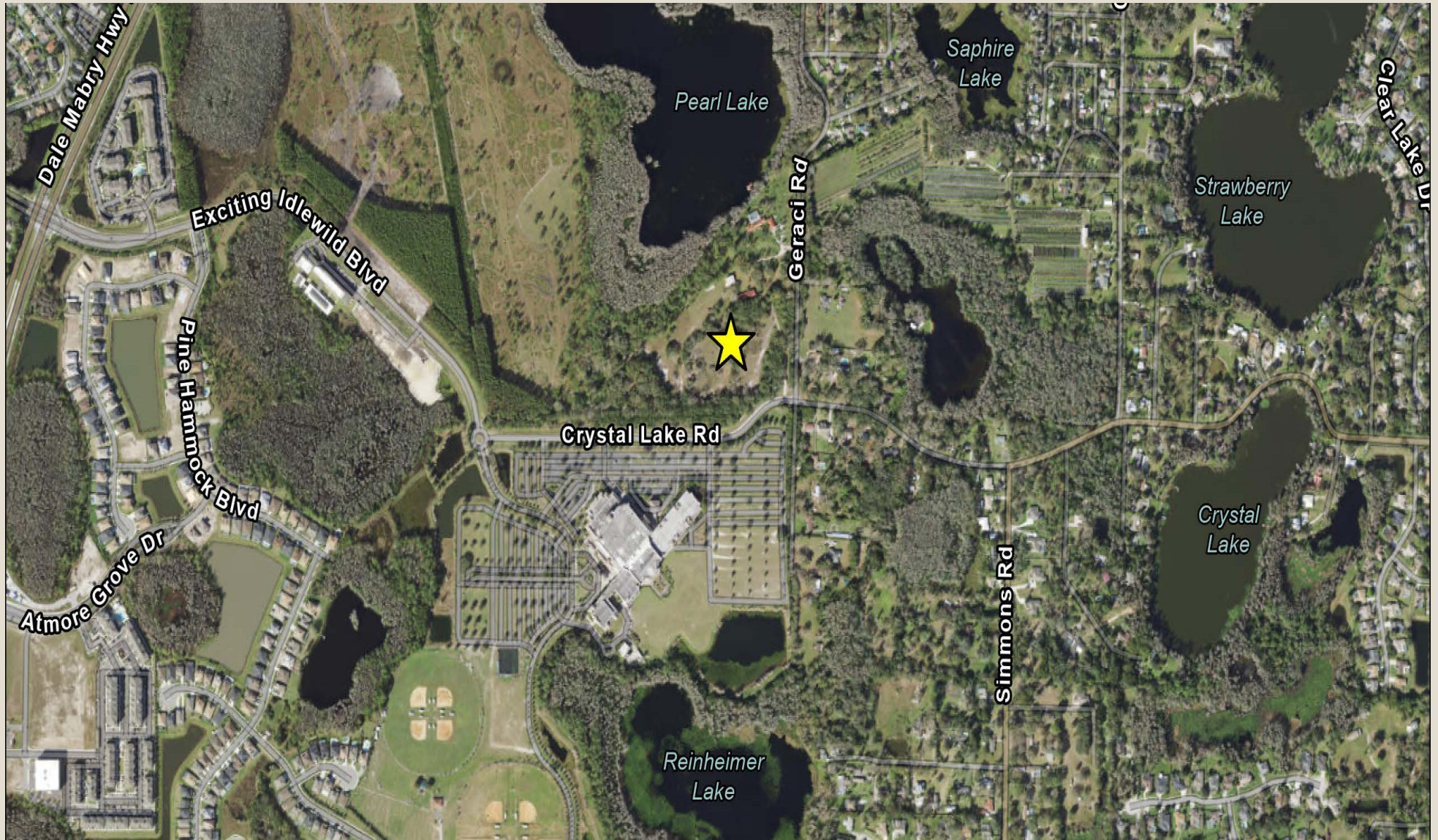


Project Description

- Application No. 0571488-001-AC
- Requests permission to operate a commercial yard waste disposal facility at 1225 Crystal Lake Road
- Vegetative debris would be trucked to the site, stored and burned using two (2) air curtain incinerators
- Limit material burned in the ACIs to 22,000 tons per year.

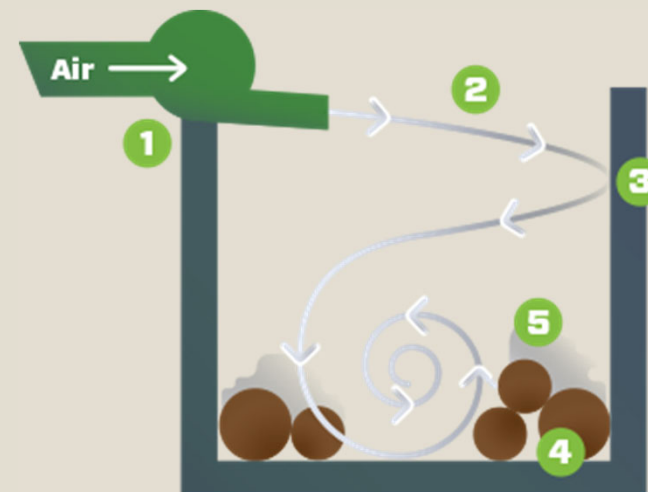


Project Location (1225 Crystal Lake Road, Lutz)



What is an ACI?

- Biomass burner
- Vegetative debris is loaded into the top of the firebox
- When operated properly, a curtain of air blankets the majority of emissions and promotes complete combustion
- Proposed model is designed to burn 11-13 Tons of debris per hour (TPH)



https://airburners.com/wp-content/uploads/2018/09/Air_Burners_FireBox_Loop_121817.gif



Regulated Air Pollutants from Vegetative Combustion

- Particulate Matter (smoke)
- Carbon Dioxide and Carbon Monoxide (CO)
- Nitrogen Oxides (NO_x)
- Volatile Organic Compounds (VOCs)
- Various hydrogen, aromatic and oxygenated compounds (i.e. benzene, toluene and acetone)



State and Federal Regulations

Rule 62-296.401 (7), F.A.C. and 40 CFR 60, Subpart CCCC

Requirements:

- State Air Pollution Permit issued by EPC
- Valid for 5-year increments
- Summary of state and federal regulations
 - Only vegetative debris
 - Debris must be below the air curtain
 - Ash cannot exceed 1/3 height of ACI
 - 10% opacity standard for smoke after start-up
 - Must maintain operating records
 - Must extinguish at least 1-hour before sunset
- Must operate and maintain in proper working order in accordance with manufacturer's specifications



Permit Considerations for this Project

- Limit the amount of yard waste that may be burned
- Limit the operating hours of the ACIs
- Stop charging one hour before sunset
- Allow operations only on weekdays (Monday – Friday)
- Maintain fire suppression system
- Increase minimum distance of ACI to wetlands, structures, or public roadways



Next Steps

- Conduct the Community Meeting on August 23, 2022
- Issue Draft Air Construction Permit
- Resolve comments from the applicant
- Publish Intent To Issue Permit in newspaper
- Open 14-Day Public Comment Period
- Take Final Agency Action



PUBLIC INFORMATIONAL WORKSHOP

- VIRTUAL COMMUNITY MEETING
- AUGUST 23, 2022, at 6:00 PM.
- The meeting will provide an overview of the proposed project and the process for public comment.
- Registration for the Webex TM meeting began on August 16, 2022.
- Information about the VIRTUAL COMMUNITY MEETING, including how to attend, can be found online at the following web address: www.epchc.org/ACI-PROJECT

Questions?

