

QUARTERLY PROGRESS REPORT
January 1, 2017 - March 31, 2017

PROJECT TITLE: Characterization of Florida Landfills with Elevated Temperatures

PRINCIPAL INVESTIGATOR: Debra R. Reinhart, PhD, PE, BCEE

AFFILIATION: University of Central Florida

COMPLETION DATE: December 31, 2017

PHONE NUMBER: 407-823-2315

PROJECT WEB SITE: <http://www.cece.ucf.edu/people/reinhart/research/Elevated-Temperature/index.html>

Work accomplished during this reporting period:

Task 1: Historical Gas Temperature Data Analysis

- A list of Florida landfills using landfill gas collection methods has been created; ~ 80 landfills will be characterized if the temperature data are available on OCULUS.

Task 2: Characterization of Florida Landfills with Elevated Temperatures

- One of the landfill in the State of Florida experiencing elevated temperature has been studied for temperature and gas data.

Work to be completed next quarter

- Complete historical gas temperature data collection using OCULUS for remaining Florida landfills.
- Examine progression of elevated temperatures through landfills over time using available site maps.
- Characterize Florida landfills using contributing factors such as site geometry, cover soil type, liquids management, gas control system design and operation, and special wastes accepted.

Metrics:

1. List graduate or postdoctoral researchers who were funded by this Hinkley Center project.

Name	Rank	Department	Professor	Institution
Amir Motlagh	Post Doc	Civil, Environmental, and Construction Engineering	Debra Reinhart	University of Central Florida

2. List undergraduate students who worked on this Hinkley Center project.

Name	Rank	Department	Professor	Institution
Ryan Joslyn	Senior	Civil, Environmental, and Construction Engineering	Debra Reinhart	University of Central Florida

3. List research publications resulting from this Hinkley Center project.
N/A
4. List research presentations resulting from this Hinkley Center project.
 - Geotechnical Frontiers Conference, Orlando, FL. March 13, 2017.
 - Technical Advisory Group (TAG) Meeting, Orlando, FL. March 31, 2017.
 - Solid Waste Directors' Information Exchange Meeting, Orlando, FL, February 17, 2017.
5. List who has referenced or cited your publications from this project?
N/A
6. How have the research results from this Hinkley Center project been leveraged to secure additional research funding?
N/A
7. What new collaborations were initiated based on this Hinkley Center project?
N/A
8. How have the results from this Hinkley Center funded project been used (not will be used) by the FDEP or other stakeholders?
 - None to date