



**REPORT**

# Post-Closure Care Plan

## *Increment 1 Landfill*

*Seminole Generating Station  
Palatka, Florida*

Submitted to:

**Seminole Electric Cooperative, Inc.**

16313 North Dale Mabry Highway  
Tampa, FL 33618 USA

Submitted by:

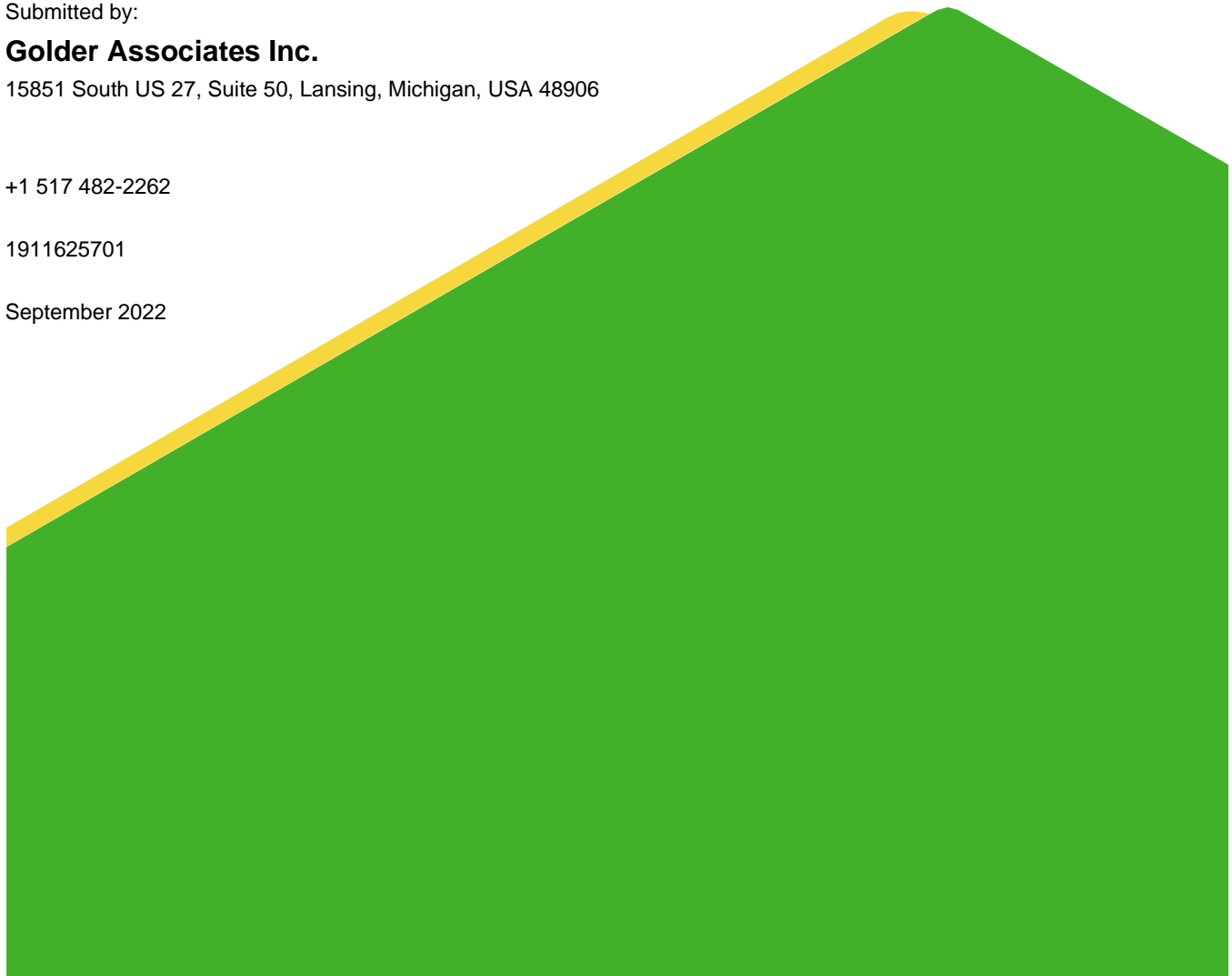
**Golder Associates Inc.**

15851 South US 27, Suite 50, Lansing, Michigan, USA 48906

+1 517 482-2262

1911625701

September 2022



## Professional Engineer Certification

I, Samuel F. Stafford, being a registered Professional Engineer in the state of Florida, do hereby certify to the best of my knowledge, information, and belief, that the information contained in this Post-Closure Care Plan dated September 7, 2022 meets the requirements of 40 CFR §257.104, is true and correct, and has been prepared in accordance with recognized and generally accepted good engineering practices.

Samuel F. Stafford, PE  
Florida Professional Engineer No. 78648  
Authorization No. 35291

# Table of Contents

<b>1.0 INTRODUCTION</b>	<b>3</b>
<b>2.0 MONITORING AND MAINTENANCE ACTIVITIES</b>	<b>3</b>
2.1 Final Cover Integrity	3
2.2 Leachate Collection Integrity	3
2.3 Groundwater Monitoring	4
<b>3.0 POST-CLOSURE PROPERTY USE</b>	<b>4</b>
<b>4.0 SITE CONTACT INFORMATION</b>	<b>4</b>
<b>5.0 POST-CLOSURE CARE COMPLETION</b>	<b>4</b>

## 1.0 INTRODUCTION

This Post-Closure Care Plan was prepared for the Increment One Landfill (Landfill), a 25-acre landfilled at the Seminole Generating Station (SGS), owned and operated by Seminole Electric Cooperative, Inc. (Seminole). This plan was prepared in accordance with Title 40, Part 257, Subpart D of the Federal Regulations. Specifically this plan was prepared to meet the requirements for post-closure care plan for coal combustion residual (CCR) landfills per §257.104(d).

## 2.0 MONITORING AND MAINTENANCE ACTIVITIES

Routine inspections and monitoring of the Landfill and associated facilities are currently conducted weekly as required by §257.84. Upon closure of the Landfill, inspection, monitoring and maintenance activities will be still be required. This section outlines these activities in the post-closure period.

### 2.1 Final Cover Integrity

The following activities will be performed to maintain the integrity of the final cover system:

- Mowing as needed to keep vegetation below 24-inches
- Replacement of vegetation in eroded areas within one week of discovery
- Quarterly inspections of the Landfill area for settlement, subsidence, erosion or other evidence of cover damage
- Implementation of run-on and run-off controls as outlined in Seminole's Increment One Run-on and Run-Off Control Plan.

### 2.2 Leachate Collection Integrity

The Landfill liner system consists of two layers of 60 mil high density polyethylene (HDPE) liner, each with its own leachate collection system. The bottom liner/leachate collection serves as a backup in case of failure of the top liner. Seminole has calculated an action leakage rate for each collection pipe and monitors the flow to ensure this rate is not exceeded. The action leakage rate is calculated by determining the expected flow out of each leachate pipe. An exceedance of this rate suggests a failure in the liner system.

As Increment One began construction prior to the CCR rule coming into effect, the Landfill is not required to meet the standards of §257.70 and therefore no post-closure monitoring of the leachate collection system is required. However, leachate will still be generated from the Landfill for some time after closure and Seminole considers it a best practice to continue monitoring the leachate flow. Therefore, Seminole provides the following post-closure care information for informational purposes only.

Upon closure of the Landfill, a top liner will be installed consisting of a synthetic liner and vegetative cover (for more details see Seminole's Increment One Closure Plan). The installation of this liner is expected to significantly decrease, if not ultimately stop, infiltration of stormwater through the Landfill and therefore the generation of leachate. Once leachate is confirmed as having been eliminated, leachate monitoring activities will cease.

During the post-closure period, Seminole will monitor the flow of leachate using electronic data loggers or by daily visual inspection. If data loggers are implemented, logged data will be downloaded and reviewed during the quarterly inspection to ensure flows remain within expected ranges. If the flow of leachate stops and is not expected to continue, the leachate collection system piping will be removed or capped and the system closed.

## 2.3 Groundwater Monitoring

CCR Rule related groundwater monitoring activities will continue through the 30-year post-closure care period in accordance with §257.90 through §257.98, as applicable. Maintenance of the groundwater monitoring system will be performed on an as-needed basis.

## 3.0 POST-CLOSURE PROPERTY USE

No post-closure use of Increment One is proposed at this time. There are no operations or planned land uses considered at this time that will disturb the final cover of the Landfill. If the post-closure planned use is changed, the post-closure care plan will be revised as necessary.

## 4.0 SITE CONTACT INFORMATION

The contact information for the post-closure period in accordance with §257.104(d)(ii) is provided below:

Seminole Electric Cooperative Inc.  
Attn: Regulatory Environmental Dept.  
16313 North Dale Mabry Highway  
Tampa, Florida 33618  
Telephone: (813) 963- 0994

## 5.0 POST-CLOSURE CARE COMPLETION

Within 60 days following completion of the post-closure care period, a notification verifying that post-closure care has been completed will be prepared in accordance with §257.104(e).



**[golder.com](http://golder.com)**