

Odor Abatement Plan  
Barnwell Resources Class 2 Landfill

## 1.0 Introduction

BSC Engineering, Inc (BSCEI) has prepared an odor abatement plan (Plan) for the Barnwell Resources Class 2 Landfill Facility located at 490 Brickyard Point Rd S, Beaufort, South Carolina 29907 (Facility). The Facility has been permitted by the South Carolina Department of Environmental Services (DES) for the receipt and disposal of Class 2 wastes.

The purpose of the Plan is to define the activities currently occurring or planned, to minimize or eliminate potential odors which may generate from the facilities operations. The remainder of this Plan includes a description of the following:

- Erosion Repairs
- Addition of 6-in to 12-in thick layer of cover soils
- Grading
- Relocation of Waste Disposal Area
- Interim cover
- Establishment of Vegetation

The areas where these activities have been performed are presented in the attached Figure 1.

## 2.0 Erosion Repairs

The Facility staff will inspect the upper and lower decks (shown on Figure 1) and slopes of the facility to identify erosion which may expose waste materials. Multiple erosion areas have been identified and repaired in the preceding 2 months (September and October). Erosion repairs are part of continued maintenance and as discovered facility operations will identify the impacted areas and schedule repairs in a timely fashion. As of November 17, 2025, the eastern slope erosion areas have been corrected by regrading or addition of cover soils.

Coastal has implemented a weekly landfill inspection protocol. The inspection entails physical observations of all slopes and decks. Areas with evidence of erosion are marked on a facility map with description of approximate length width and depth to plan and schedule appropriate repairs.

## 3.0 Addition of Cover Soil

To better control odors, it has been determined that additional cover materials are required. The areas of the facility that have already received additional cover materials are described below. The areas of the facility that will receive additional cover materials are also described below.

- Upper deck
  - cover operations were initiated in October 2025;

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- approximately 6-in to 12-in thick layer of additional soil has been added to the area indicated;
- the remaining area will be covered with an additional 6-in to 12- thick layer of soil cover on or before 15 December 2025
- East Slope
  - cover operations were initiated in October 2025
  - approximately 6-in to 12-in thick layer of cover soil have been added to approximately to the slope (area shown)

#### **4.0 Grading**

The waste disposal areas are being graded at a minimum 1% grade to allow for controlled surface water runoff from the waste areas. This grading will prevent ponding on the disposal area. Additional Surface water controls are being assessed for incorporation into the covered areas to ensure proper drainage.

The side slopes are being further evaluated to add down chutes to control runoff from the top decks and prevent erosion of the side slopes. Facility staff are currently working to identify the locations for these downchutes and the materials needed to construct them. Coastal will provide the Department with a final plan before February 1, 2026 to show the cover areas and the drainage features.

Specific areas currently being addressed include:

- Upper Deck – Addition of cover soil to allow a minimum 1 % slope. It is anticipated the work will be completed on or before December 15, 2025
- West Lower Deck – Current waste fill area is graded to incorporate a 1% slope into the areas of waste filling. Anticipated completion on or before December 15, 2025
- Settlement – Isolated areas where waste settlement has been discovered during the weekly inspections are marked for routine maintenance in conjunction with the Erosion Repairs.
- Active Areas – All future waste filling areas are graded to allow for a 1% slope.

#### **5.0 Relocation of Active Waste Area and Interim Cover**

Due to the summer months' inclement weather, the active waste area was relocated to the West Lower Deck. Based on the Odor Assessment Plan it has been determined the active area will be

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relocated back to the Upper Deck to allow final grades to be achieved. The goal is to bring the majority of the upper deck to final elevation for final cover. Upon relocation of the active waste area, a 6-in thick layer of cover soil will be placed on the West Lower Deck. A planned timeline of these activities are as follows:

- Establish Upper Deck active area – December 15, 2025
- Interim Cover of the Lower Deck (minimum 1 foot of cover) – December 31, 2025

## **6.0 Establish Vegetation**

In order to maintain cover soils on all decks and slopes, vegetation will be established. Portions of areas without vegetation currently include the Eastern slope, Upper Deck and West lower Deck. As estimated timeline for seeding and establishing vegetation is as follows:

- Eastern Slope – 30% seeded currently with varying levels of established vegetation. Seeding and establishment of vegetation anticipated on or before March 1, 2026
- Lower Deck – 0% seeded currently due to active filling and covering activities. Seeding and establishment of vegetation anticipated on or before March 1, 2026
- Upper Deck – 0% seeded currently due to covering activities. Seeding to commence upon completion of fill sequence. On going and operationally dependent.

Coastal has indicated that they are confident that these measure will drastically reduce or eliminate the potential for odor impacts on the surrounding community.

