



# ne future of Ann Street Landfill

## Community Conversations: Building Our Neighborhood Project



## Why We're Here: The Problem

Since 1980, the Cumberland County Solid Waste Department and Ann Street Landfill has served county residents and businesses for disposal of its solid waste.

## The landfill will reach capacity in just seven years!



### Legend

Major Road CSX Railroad ++++++ m Stream and Creek Water Body Ann Street Landfill Fayetteville













### STAGE 1

### **Construct** a transfer station

Waste will ship long distance via truck to landfills in other communities.

The county's goal is to have this transfer station up and running by mid-summer of 2024.

## **Expand the** current landfill

Will expand onto county property adjoining the Ann Street Landfill to the west. Most of this property is a former unlined landfill.

This will add 20 years of capacity, extending the life of the landfill until 2050.



## Where We're Going: The Solution



### STAGE 2

## Use the transfer station during landfill expansion

This will ease the burden on the current landfill while the county permits and constructs the landfill expansion to the west.







### STAGE 3

### STAGE 4

## **Transition to using** the expanded landfill as each section is ready

The county will gradually decrease use of the transfer station while increasing use of the expansion area.







## **Our Commitment:** Environmental Justice

The permitting process for the Ann Street Landfill expansion includes an environmental justice review for the Ann Street site.

This review is designed to avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects on minority populations and low-income populations.

As our valued neighbors, we are inviting you to join us to discuss plans for the future of Ann Street Landfill and share your feedback for how we can be a better neighbor.







## What We Do:

## What is a landfill?

Grassy hills and earth surrounded by a landscape of trees, may not sound like what most people think of as a landfill. Landfills are carefully designed, constructed and operated to fully contain waste in an efficient and safe manner.

## Waste Journey to Landfill and Beyond





### **Ann Street Landfill**

**Curbside collection every** other week (where available)





## What We Do: A Deeper Look

		TURF-REINFO SIDESLOPES
	◄	6" MIN. VEG
	-	18" MIN. PRC
<pre> {XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</pre>		GEOCOMPOS
		40 MIL TEXT
	◄	12" MIN. INTE
		REFUSE
		PROTECTIVE
		GEOCOMPOS 60 MIL HDPE
		24' MIN. CON
	-	COMPACTED







16 collection sites for household garbage, recycling and yard waste



Construction & demolition recycling (clean wood, brick, concrete, asphalt and dirt)



Special events (landfill tours, e-waste events, etc.)

ORCEMENT MATTING (TRM) S ONLY

SETATIVE LAYER

OTECTIVE SOIL LAYER

SITE DRAINAGE NET TURED LLDPE GEOMEMBRANE ERMEDIATE COVER LAYER

E COVER (SAND) LAYER

SITE DRAINAGE NET E TEXTURED LINER

MPACTED CLAY LINER

D SUBGRADE

## Additional Services



Receipt of used oil, electronics, tires, antifreeze, lead acid batteries and other wastes at the collection sites



A household hazardous waste collection center



Mulching of yard waste, pallets, and clean wood



Telephone hotline





Methane Gas collection and processing used by Cargill

## What We Have: Parts of Ann Street Landfill

### **Recycling Center** Where residents and businesses drop off bulky materials for recycling including pallets, clean lumber, shingles, tires, electronics and books.

CSX Railval

### Administration Office

The office location for solid waste staff and also includes the maintenance garage for the county solid waste trucks and equipment.



### **Balefill Area**

The former location for disposal of baled (compacted and tied) waste materials received from the county residents and businesses from 1988 until 1997 and was closed with a final cover system in 1999. The balefill area is the proposed location for the western expansion of the lined MSW Landfill.

Western Expansion

### C&D Landfill

The disposal location for construction and demolition debris from county residents and businesses. The landfill is permitted and operated in accordance with state regulatory requirements and permits

### New Truck Scales

Recently installed. Where haulers delivering waste materials (C&D or MSW) are weighed and any costs are assessed.

### New Container Site

Receives waste and recyclable materials for consolidation prior to disposal in the active landfill or transported off-site to a private material recovery facility for sorting and processing for use by end markets

### Landfill Gas Processing & Control Flare

Flare includes blowers that apply a vacuum on landfill gas collection piping and wells to extract the gas generated by the decomposing waste and processes it for transmission via pipeline to Cargill for beneficial use as a fuel. A flare is also operated to control emissions from the landfill gas not transmitted to Cargill. The collection and control system are operated in accordance with state regulatory requirements and permits.

MSW Landfill The disposal location for the waste from all county residents and some businesses. The landfill is permitted and operated in accordance with state requirements and includes a base lining system for collection of water that has contacted waste (leachate)



Permitted Soil **Borrow Area** The location where the county excavates soil to support landfill operations for cover soils.

Leachate Lagoon A lined storage area for leachate that is removed from the MSW landfill prior to its discharge to the Fayetteville PWC Cross Creek Wastewater Treatment Facility.





## The Future of Ann Street Landfill: Transfer Station

Construct a transfer station at the Ann Street Landfill site to collect trash and then load it onto trucks to ship it long distance to a landfill in another community.

The county's goal is to have this transfer station up and running by mid-summer of 2024.









## The Future of Ann Street Landfill: Landfill Expansion

### West Expansion

- At least 20 years of additional capacity extending the life of the landfill until 2050.
- Remediation of existing unlined area.
- Further analysis is ongoing to determine if it is practical and what costs are for implementation.

### What will it mean?



### Long-Term ervice

Adds at least an additional 20 years of capacity.



### **Environmental** Responsibility

Minimal environmental impacts by utilizing the existing space and infrastructure.

Remediation of former unlined site, removing potential environmental impacts.



### **Odor Control**

Keeping being a good neighbor front of mind. Landfill mining is not anticipated to generate odors off-site.







## Project Schedule







We want to hear from you! Provide feedback in-person at the meeting or on the website.

- Some things we want to hear about: Aesthetic Improvements Connection to Cape Fear
- River Trail
- How to Minimize Impacts Post-Closure Considerations

## The Future of Ann Street Landfill

# Help us be better neighbors



We want to hear from you! Provide feedback at the meeting or on the website.



