

# South Wake Landfill Update

South Wake Citizens Committee  
March 26, 2025



@wakegov    

wake.gov

# Overview



**Improvements & Investments  
by GFL and Wake County**

**Odor Reporting Trends**

**Town Metrics**

**Communications**



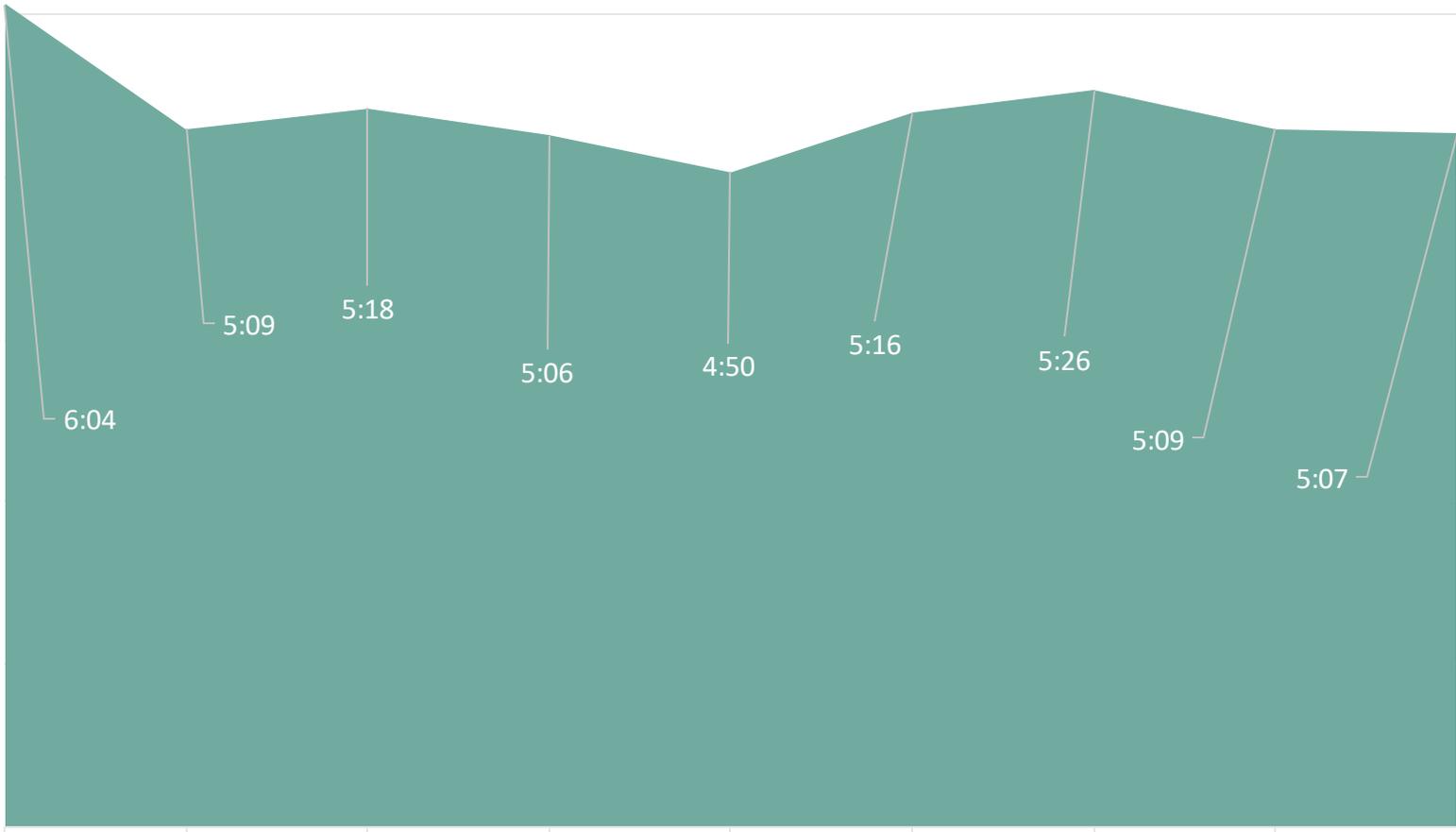
# GFL

## Improvements & Investments

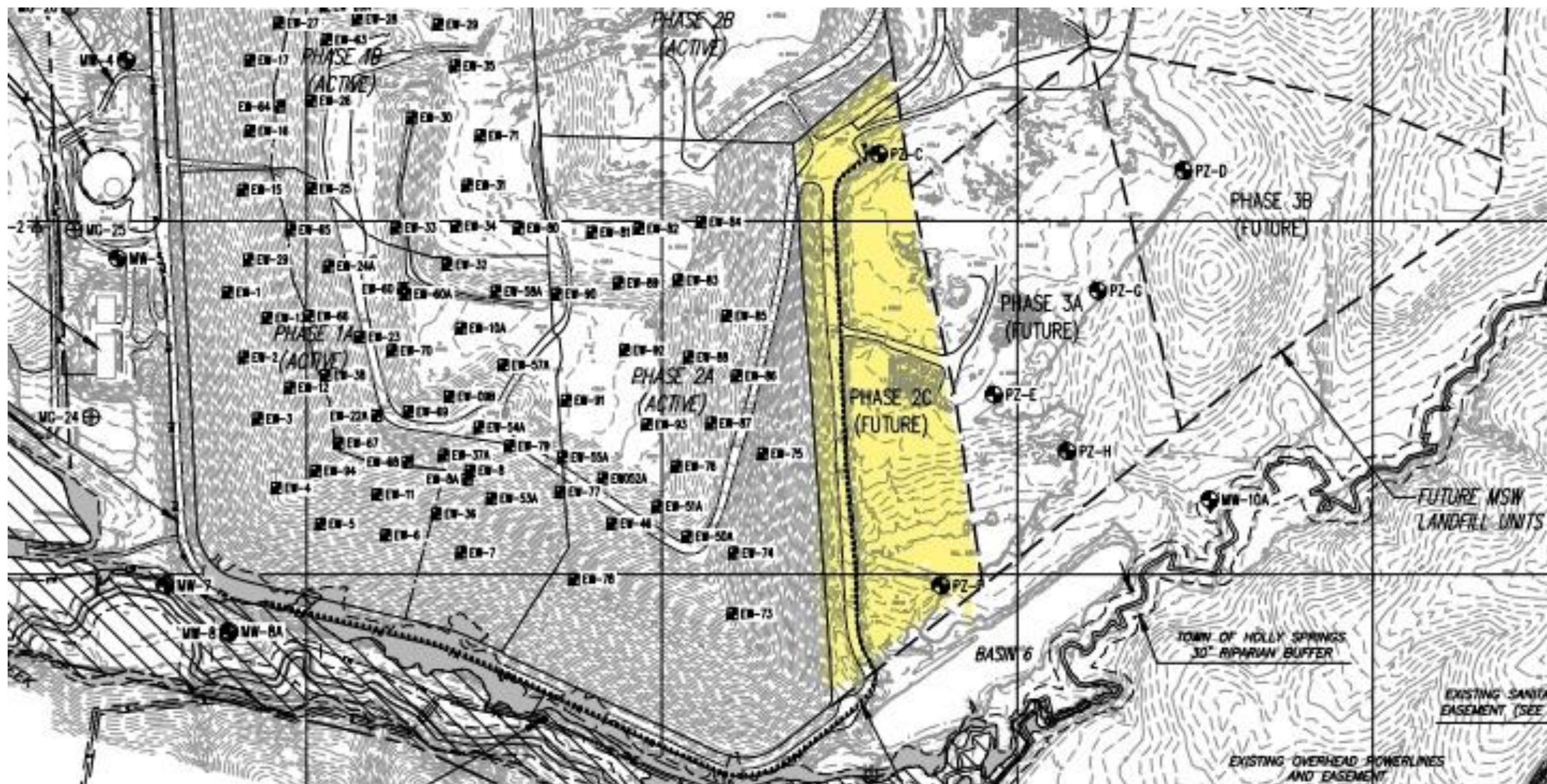
# Operational Update – GFL

- Consistent closure times. March Average 5:07pm.
- Waste fill plan – current elevations of waste placement lift 8 (490 ft).
- Cell 2C construction completed
- Daily cover
- Holiday full cover

AVERAGE CLOSE TIMES



1/1/2021 12/1/2021 3/15/2022 6/30/2022 9/30/2022 1/31/2023 8/30/2023 8/31/2024 3/24/2025





WAKE COUNTY



WAKE COUNTY



Mar 17, 2025 at 5:09:37 PM  
Apex, NC 27539



Mar 17, 2025 at 5:11:38 PM  
Apex, NC 27539





# Wake County Improvements & Investments

# New Mobile Vapor Odor Machine

- GFL/County purchased a new mobile odor machine
- Arrived on-site 3/20/25





Horizontal Collectors



Collection Pipe



Vertical Wells

## LFG Wellfield Expansion

- New Project out for Bid
- Construction during May/June before predominant wind direction changes

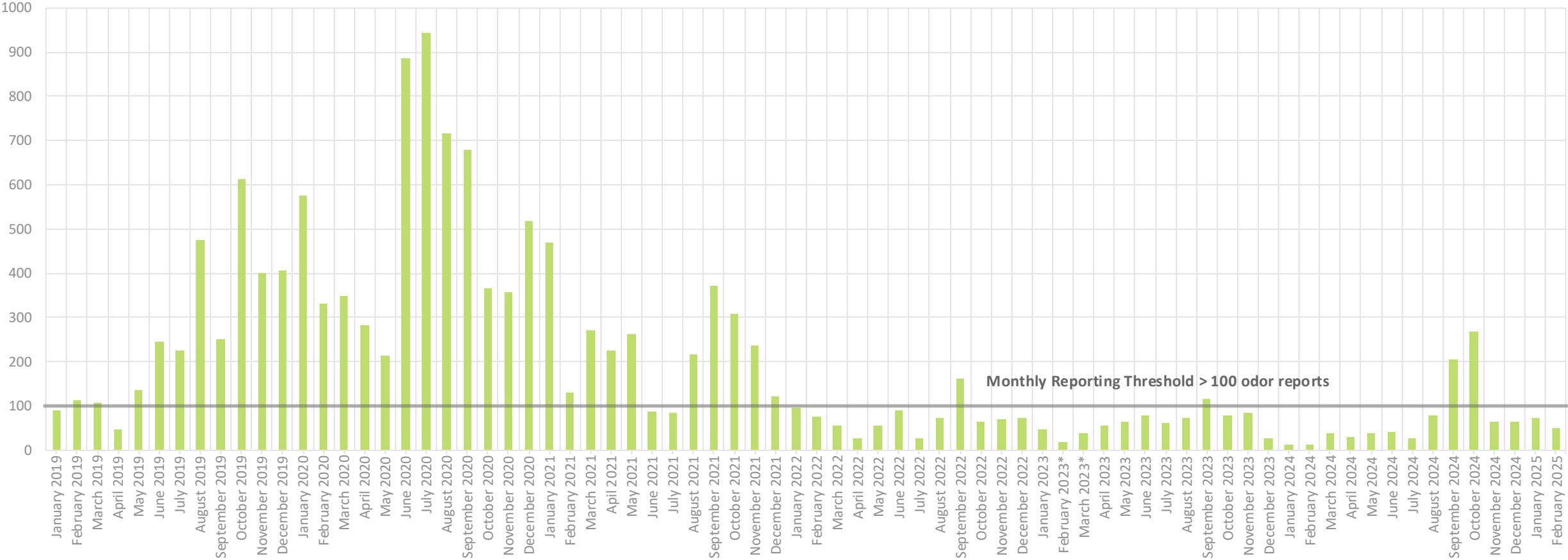


# Odor Reporting Trends

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South Wake Landfill  
 Odor Reports per Month (Likely)  
 January 2019 - February 2025

\* Odor Reporting system down 2/15/23-3/9/23



# March 2025 Update

- Odor reporting under thresholds again after exceedances in Sept/Oct of last year
- Next LFG project is being constructed May/June (before the wind direction changes)
- Other items include a new air compressor station (will help keep LFG system running) and new mobile odor system (can be moved as working face moves)



# Town Metrics

# Town Metrics

Working with the Holly Springs Town Council and staff, we established three metrics:

1. Daily odor reports
2. Monthly odor reports
3. Distance of reports from the landfill

# Town Metrics – Daily Odor Reports

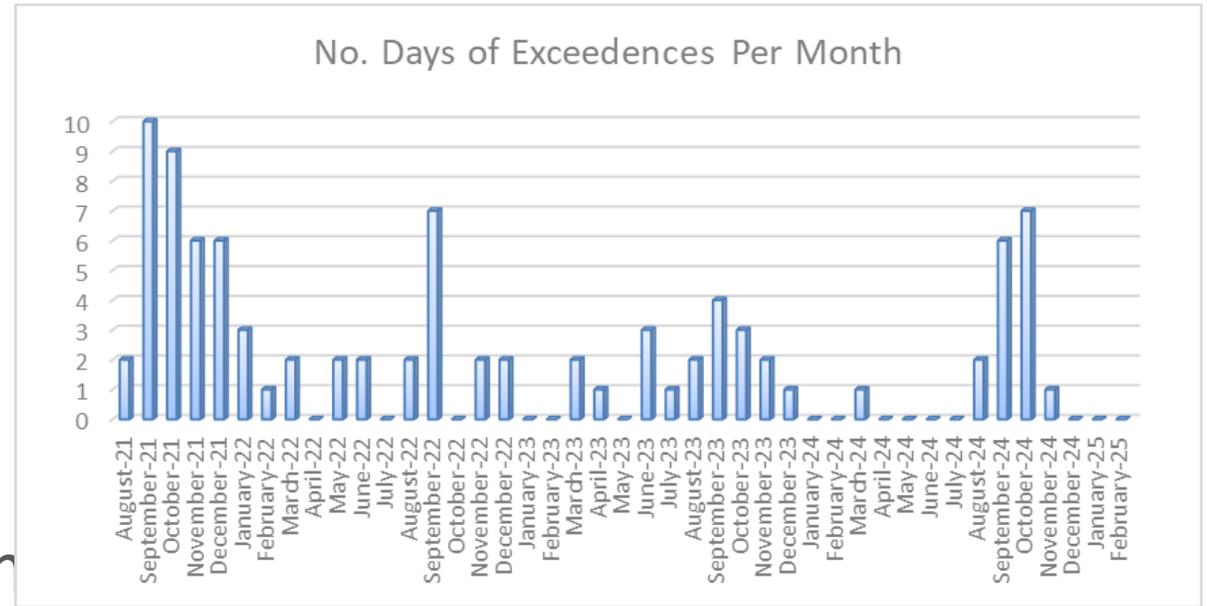
## Thresholds

24 odor reports in a day

**OR** 5 in an hour

Site Odor Evaluation form completed and provided to Town for days meeting above criteria

We use the data to guide our efforts to minimize odor



# Town Metrics – Monthly Odor Reports

## Thresholds

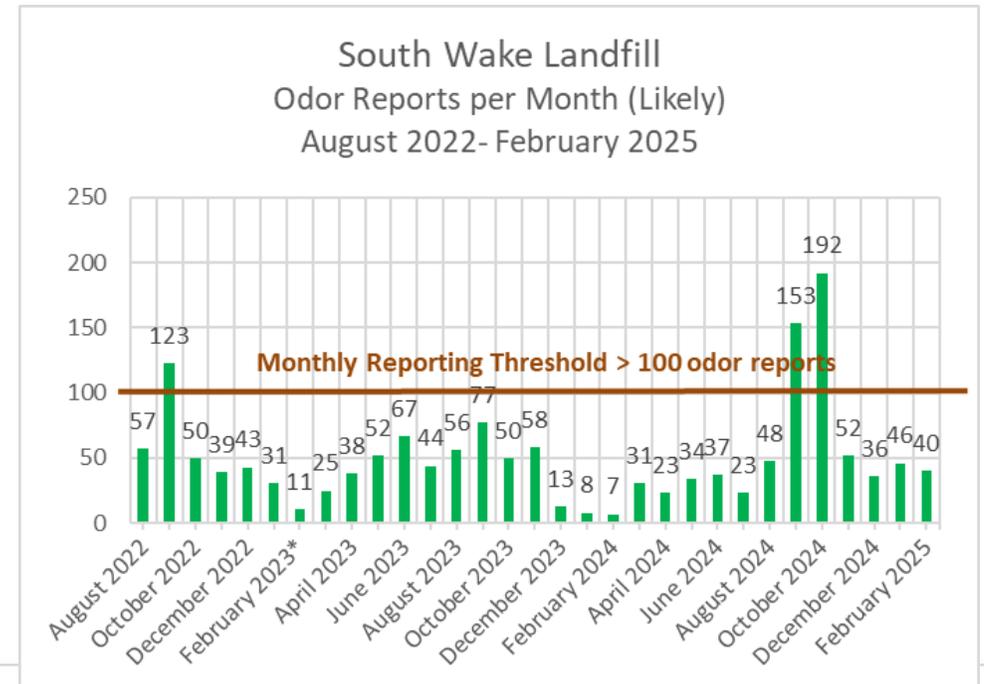
100 odor reports likely attributable to the landfill

**OR** 200 total odor reports in a month 5 in an hour

Report generated by consultants

County and GFL use info to consider how we can prevent future issues

Returned to under threshold...



# Town Metrics – Distance of Odor Reports from the Landfill

Monthly report includes:

Distance Metric Summary		Jan '24	Feb '24	Mar '24	Apr '24	May '24	June '24	July '24	Aug '24	Sept '24	Oct '24	Nov '24	Dec '24
Disance	Weighted Metric %												
> 0.5 miles	> 70%	90%	93%	90%	85%	85%	82%	91%	89%	93%	93%	92%	83%
0.5 – 1 mile	<20%	9%	7%	9%	14%	14%	17%	8%	10%	7%	7%	8%	15%
1 – 2 miles	<8%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
2 – 3 miles	<1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3+ miles	<1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%



# Outreach & Communications

# Diverting Landfill Waste through Better Recycling

- 20% of landfill waste could have been recycled
- Staff hosts free, 1-hour tours at Sonoco Recycling
- Floor tours for adults only
- Search “recycling center tours” at [wake.gov](http://wake.gov)

*Chelsea Arey leads classroom tours for all ages.*



# Feed Soil, Not Landfills!



- Compost bin sale May 1 - 31
- Sign up at [wake.gov/compost](https://wake.gov/compost)
- Food Scraps Composting has 5 sites
- New partners welcome
- Find sites and hours at [wake.gov/foodscraps](https://wake.gov/foodscraps)

*In 2024, 112 people received free kitchen waste pails at Western Wake Farmers Market in Morrisville.*

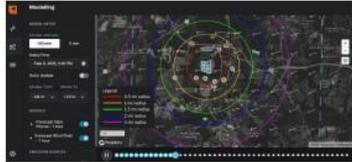
# Winter Newsletter – Sent March 17



## Public access available for odor monitoring tool

Envirosuite application offers ability to check odor potential

Funky odors can surprise attack your nose anywhere, but what if you could predict where and when they may occur? Now, with the [Envirosuite application](#), residents can see the likelihood of odors in areas surrounding the landfill before they encounter them.



With this app, you can create a "model" to forecast the potential for odors for a period of up to 48 hours or "monitor" the current conditions. To learn more about how to use the app, please check out the [online manual here](#). **Please note:** The odor plumes displayed in the app only show the [potential](#) for odors based on [weather conditions](#), not landfill operations.

Subscribers to this newsletter will be the first members of the general public to use the app, so we encourage any feedback! Please submit your thoughts or ask questions by contacting Richard Claro, Envirosuite technical customer success manager, at [richard.claro@envirosuite.com](mailto:richard.claro@envirosuite.com), or Solid Waste and Recycling Director John Roberson at [john.roberson@wake.gov](mailto:john.roberson@wake.gov).

Check out the app

See the Manual

## Bird survey finds nearly 40 species roosting at landfill

Bird watching doesn't come to mind for everyone when we think of a landfill, but it's worth considering!

## Highlights include:

- Envirosuite tool public access
- Roadside litter
- Composting classes at the libraries
- Installation of vapor-based mobile odor equipment

# Solid Waste Communications Seeks...



- Partnerships
- Stories from the community
- Feedback

# Our Work to Control Odors Never Ends

Our goal is to **minimize the frequency and duration of odor issues** around the landfill

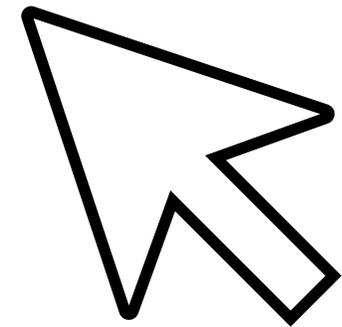
We're committed to **investing in the latest technology** and **implementing the best operational practices**



# Easy Web Address



wake.gov/**landfill**





**Thank You**