#### South Wake Landfill

Citizens Committee Meeting March 29, 2023













#### **Overview**

**Communications** 

**Landfill Projects Update** 

**Data and Metrics** 

## Communications

#### **New Solid Waste Communications Consultant**

- Six diverse candidates interviewed by panel, including Solid Waste & Communications team members:
  - John Roberson, Roy Baldwin, Bianca Howard, Sara Davarbakhsh from Solid Waste
  - Stacy Beard from Communications
- Written assignment

#### **New Solid Waste Communications Consultant**

- Michelle Fiscus Starts April 10
- Accomplished senior communications leader
- Executive Director of Communication, Strategic Planning and Engagement, Nash County Schools
- Decade+ of Professional Marketing & Promotions Experience



## Outreach & Awesome Partnerships

# Recycling Partnership with Wake County Libraries



Stop by and ask any and all questions you have about recycling in Wake County with the Wake County Recycling Department.

Middle Creek Community Library

919-890-7400

Monday, Jan. 9, 3-5 p.m.

brary North Regional Library 919-870-4000

Tuesday, Feb. 7, 10:30 a.m.-12:30 p.m.

Southeast Regional Library

919-662-2250

Tuesday, Jan. 10, 10:30 a.m.-12:30 p.m.

East Regional Library 919-217-5300

n. Thursday, Feb. 9, 11 a.m.-1 p.m.

Northeast Regional Library

919-570-7166

Thursday, Jan. 19, 3-5 p.m.

Oberlin Regional Library 919-856-6710

Thursday, Jan. 26, 2:30-4:30 p.m.





Convenience Center Pilot Project





Midtown Farmers Market Composting

**Partnership** 

- Midtown Farmers Market at North Hills
- Food scraps collection carts available Saturdays 8 to noon
- Partner Toward Zero Waste and Kane Realty
- Contract with Compost Now to collect
- April 15 November 4





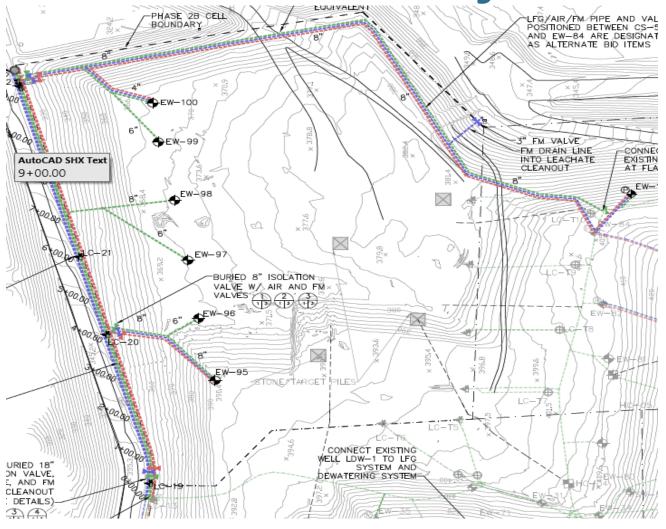
MATERIALES ACEPTADOS		.2.	
☼ = reciclado	Centros de conveniencia	Plan ta de reciclajo de materiales múltiples	sesidues
Electrodomésticos (aire acondicionado, unidades de calefacción, nevera, lavadora, secadora)	-	٥	Ī
Automotor (anticongelante, aceite de motor, filtros de aceite)		0	
Baterías (recargables: electrónica, herramientas, teléfonos, no recargables: alcalinas, litio, 9 voltios, pila de botón, reloj. ácido de plomo: vehículos, embarcaciones, motocicletas). Terminales de cinta de baterías de litio y de iones de litio.			,
Cartón (limpio, aplanado, sin el material de embalaje)	0	0	
Químicos (ácidos, bases, fertilizantes, herbicidas, pesticidas, venenos)			-
Ropa, zapatos y libros	Ð		
Aceite de cocina		0	
Residuos de construcción (madera, paneles de yeso, alfombras, azulejos). SOLO DESECHOS DEL PROPIETARIO. Sin cemento ni adoquines. Solo sitios 1, 2, 4, 7, 10 y 11	1, 2, 4, 7, 10, 11		
Discos y cassettes (cd, bluray, dvd, vhs)		0	
Electrónica (cualquier dispositivo electrónico con cable, teléfonos celulares). Sitios 1, 4 y East Wake solo los fines de semana	- 0 14	٥	
Acabados (lacas, pinturas al aceite, pintura en spray, disolventes, tintes, diluyentes)			
Extintores (químico seco)			-
Inflamables (gas, fuel oil, queroseno, tanques de propano)			-
Bombillas fluorescentes (Lámparas fluorescentes compactas (CFL) traer bombillas en una caja)			,
Restos de comida (carnes cocidas, lácteos, frutas, verduras, huevos, productos homeados, café molido, cajas de pizza, servilletas de papel, toallas de papel). Retire los restos de alimentos del envase. Ubicociones en wake.gov/foodscraps.	۵		
Basura (desechos domésticos, muebles, colchones, artículos voluminosos de menos de 8 pies de largo/ancho)	ŵ		
Termómetros de mercurio			-
Reciclaje mixto (latas de metal para alimentos y bebidas, cartones para alimentos y bebidas, botellas y frascos de vidrio, papel mixto, botellas, bandejas, jarras y frascos de plástico). NO RECICLAR EN BOLSAS. Prohibido el papel triturado. Prohibidas las bolsas de plástico. Prohibida la espuma de poliestireno.	٥	٥	
Conchas de ostras	0		
Pintura de látex (Limite de 10 latas, pintura consolidada). Prohibido latas de pintura oxidadas o secas.			,
Tanques de propano			-
Plástico rigido (baldes, cajas, recipientes de almacenamiento, muebles de plástico). Quitar partes de metal y no plásticas. Más información: wake.gov/SHORTURL Solo sitios de North y South Wake		٥	
Chatarra (bicicletas, accesorios, marcos, escaleras, metales mixtos, tuberías, llantas, fregaderos, parrillas, cortadoras de césped). El combustible y aceite deben ser drenados del equipo eléctrico.	۵	٥	
Neumáticos (llantas extraidas, 5 o más neumáticos requieren el Formulario de certificación de neumáticos de desecho de Carolina del Norte, disponible en wake.gov/tires)		٥	

Los usuarios de camiones con caja, remolques cerrados y remolques de dos ejes deben tener un Pase de Basura para acceder a los Centros de conveniencia. Solicitelo en wake.gov/recycling.

# Handy Facility Guide NOW in Spanish

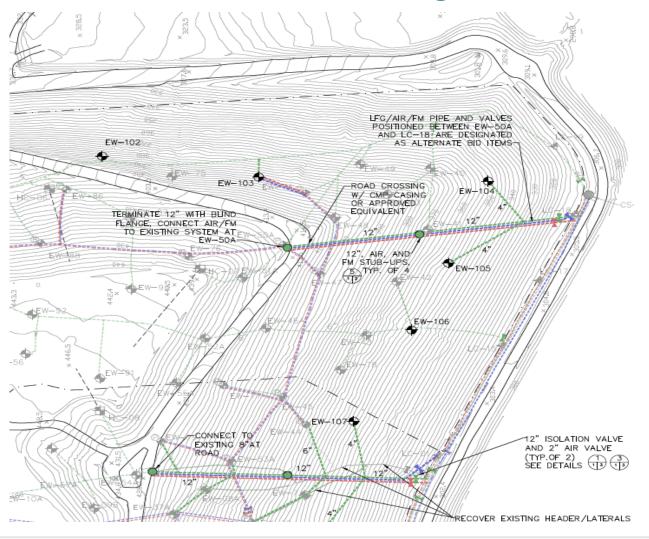
## Landfill Projects Update

#### LFG Collection System Expansion



- \$657K in improvements
- Work started 3/20
- Adds first 10 collection components in Phase 2B (active cell)
  - 3 years ahead of regulatory mandate
  - Enhances odor control
  - Added collection piping for redundancy and resiliency

#### LFG Collection System Expansion

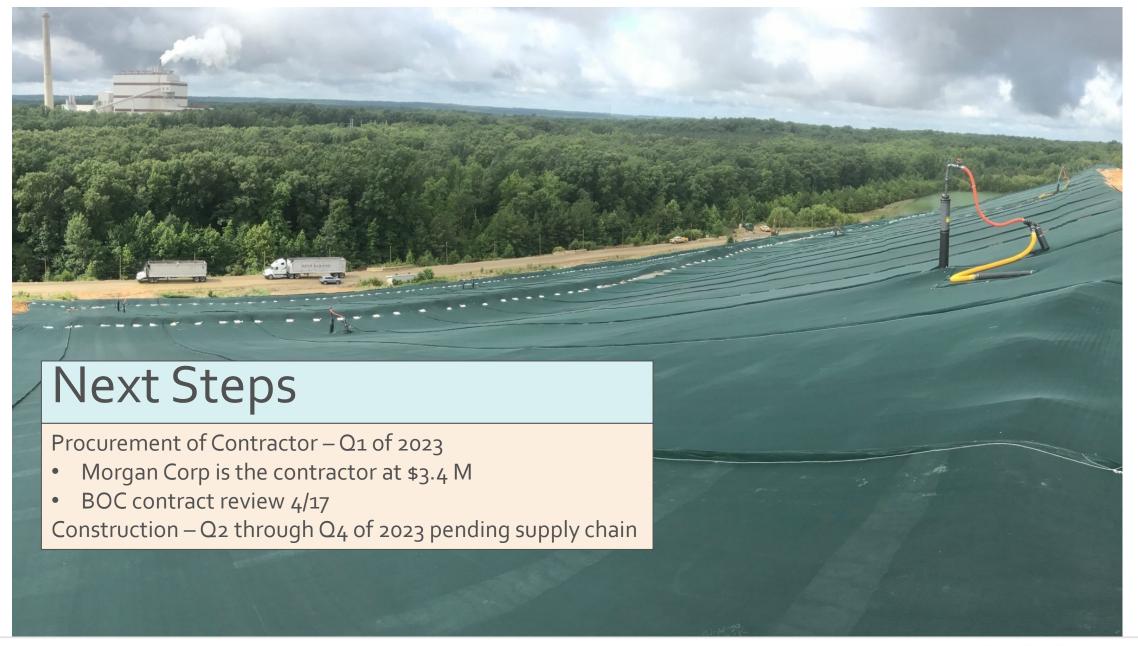


- Addition LFG components in preparation for interim cover
  - 8 shallow vertical wells to capture LFG near the toe of Phase 2A slopes
  - Larger header pipe under interim cover area increases flow capacity
  - 3 forcemain discharge locations for increased dewatering capacity (expected to improve LFG collection)



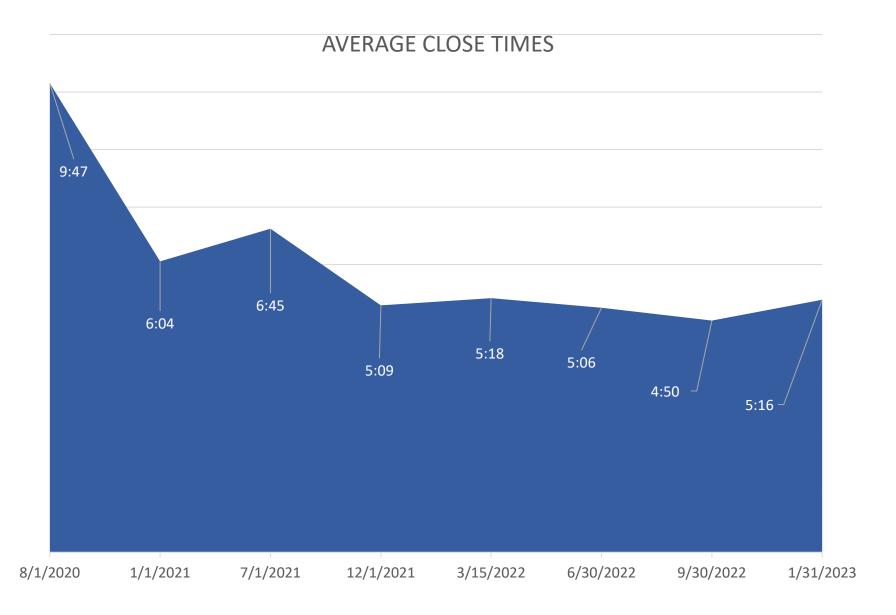
# Landfill Cover Areas

- Purple Area No Cover
  - Limited cover life span
  - Remove after ~1 year in service
- Green Area Cover
  - Current Interim Cover project limits
  - South slope is at final grades
- Red Area Current Covered Area

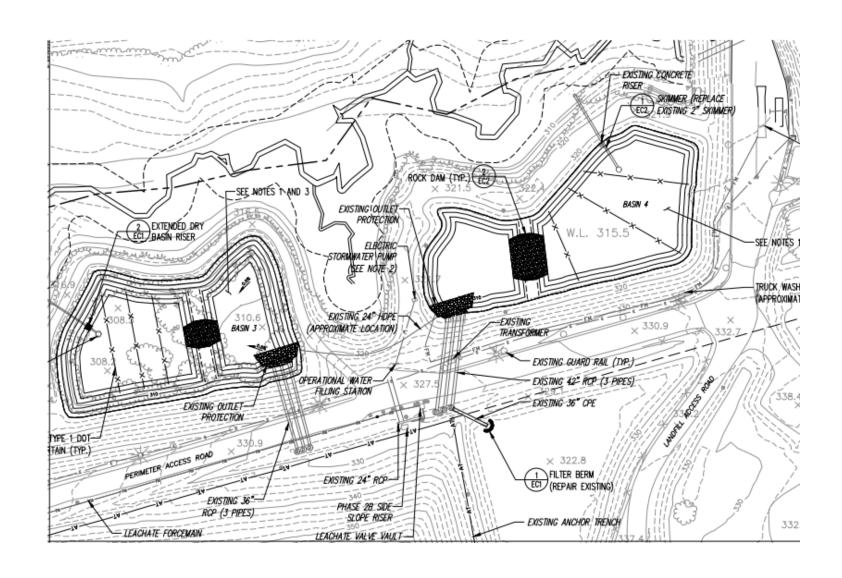


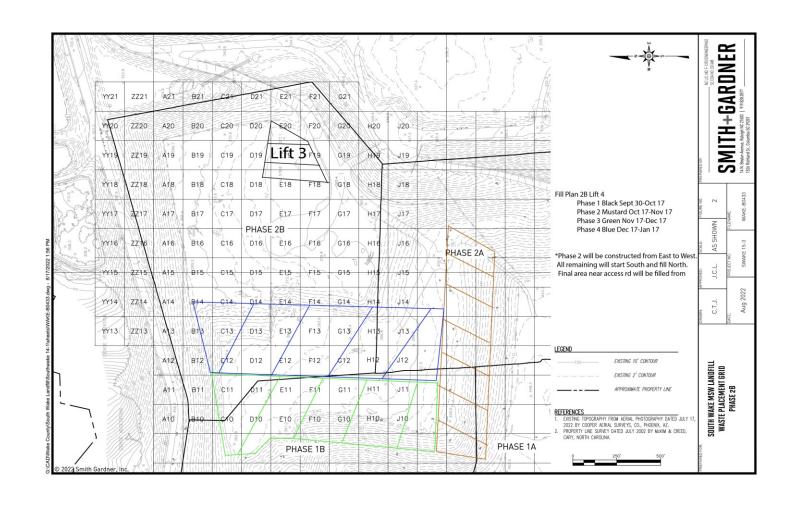
#### Operational Update – GFL

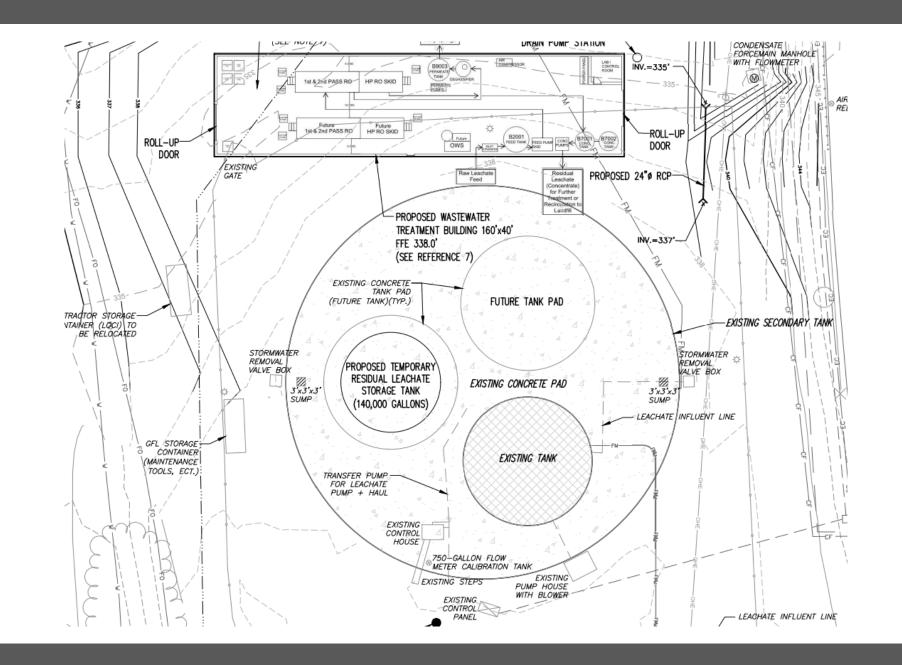
- Consistent Closure Times January average 5:16pm.
- Sedimentation basin improvements.
- Waste Fill Plan Current elevations of waste placement 399 ft. – 419 ft.
- Reverse Osmosis Project.
- Wheel Wash Project.
- Recent Closure Photos Full cover on New Years Eve, Christmas & Thanksgiving

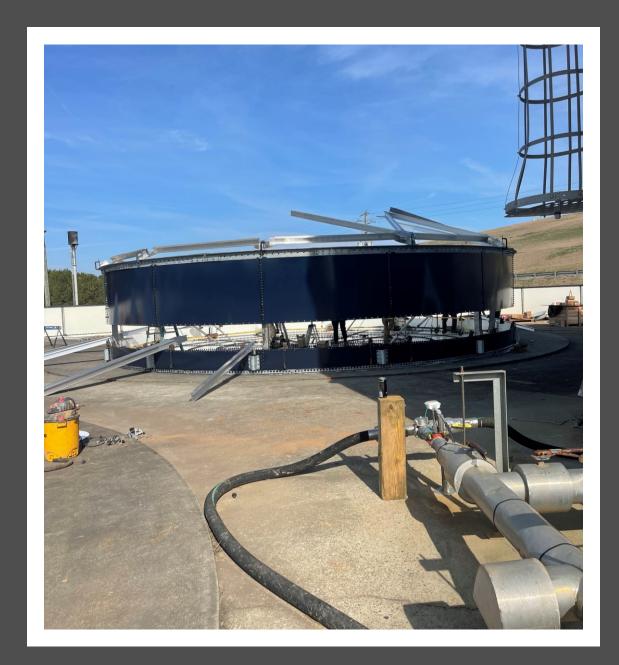


#### Sedimentation Basin Improvements

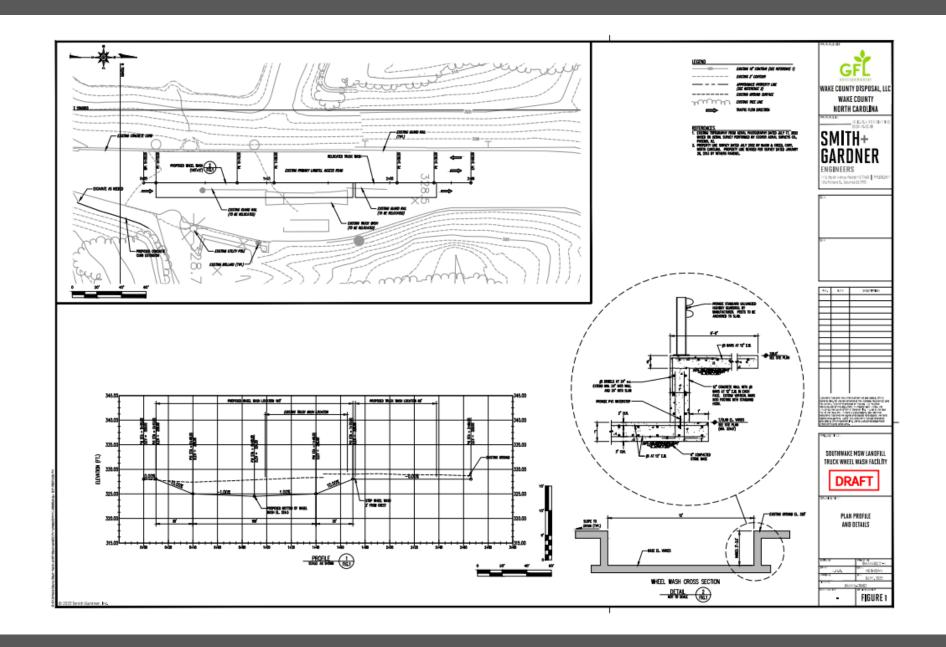


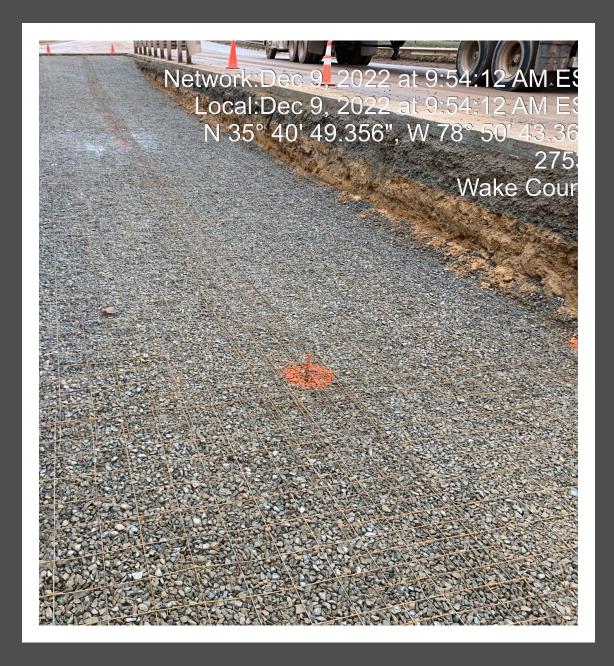


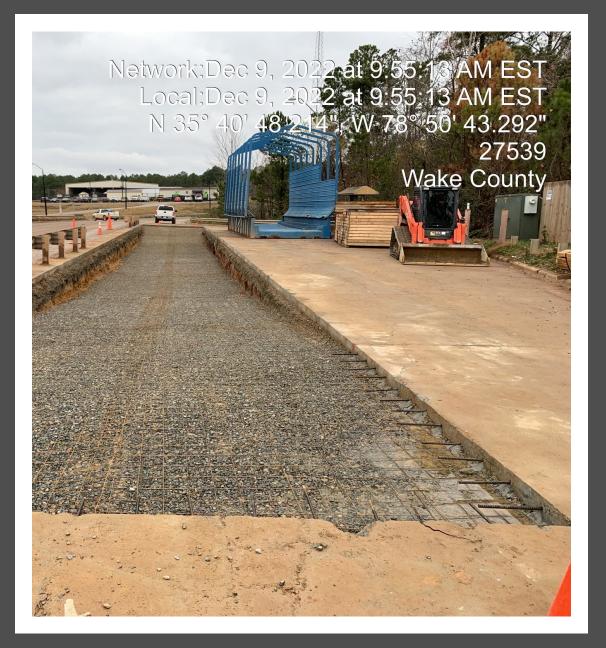






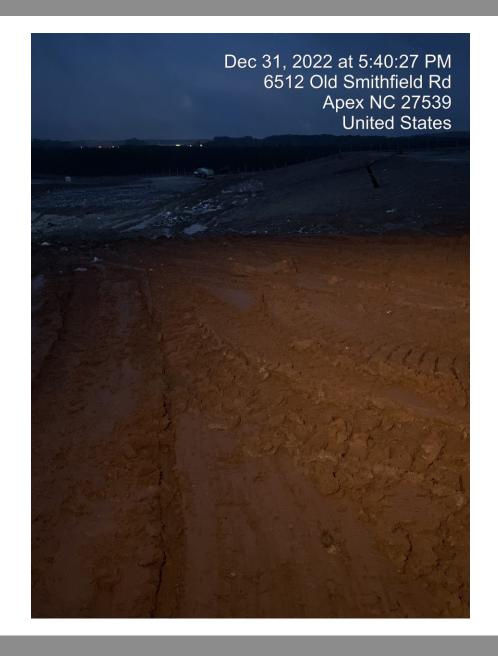






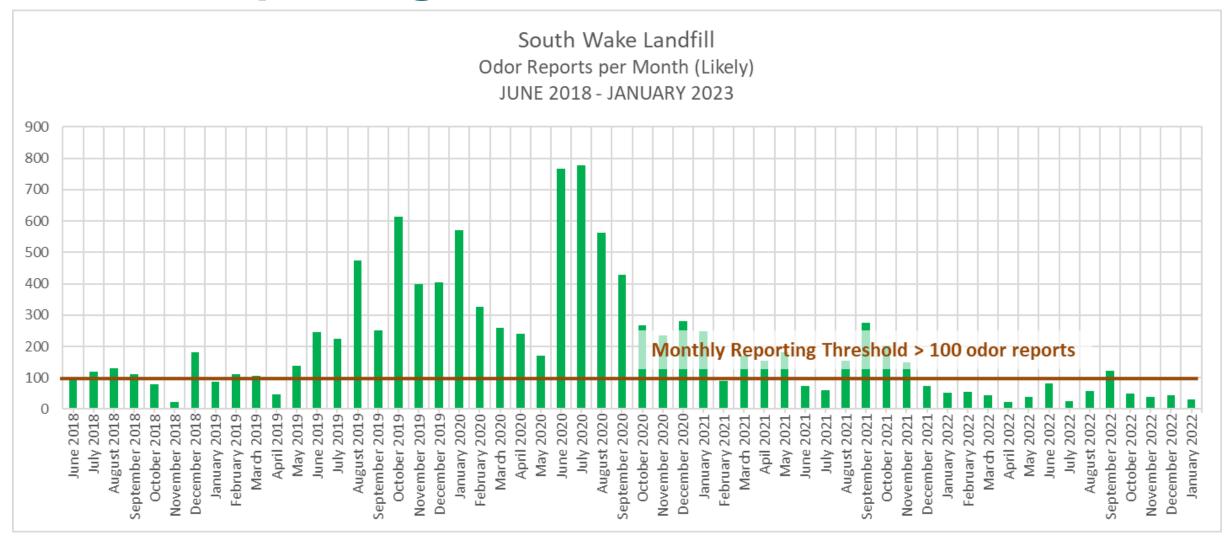






### **Data and Metrics**

#### **Odor Reporting Trends**



# Comparing Odor Reports for the Same Month in Different Years

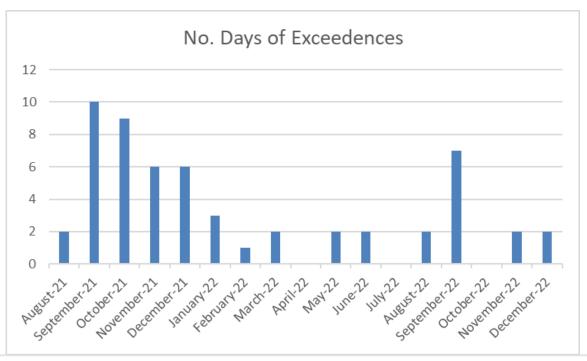
Month to M	onth Odor				
	2018	2019	% change from 2018 to 2019	2020	% change from 2019 to 2020
January	18	88	389%	570	548%
February	15	112	647%	325	190%
March	29	106	266%	259	144%
April	14	48	243%	240	400%
May	14	137	879%	170	24%
June	96	245	155%	766	213%
July	120	224	87%	779	248%
August	130	474	265%	562	19%
September	110	251	128%	427	70%
October	79	613	676%	267	-56%
November	22	400	1718%	235	-41%
December	180	405	125%	280	-31%
Totals	827	3103	275%	4880	57%

# Comparing Odor Reports for the Same Month in Different Years

Month to Month Odor Reports (Likely)											
	2018	2019	% change from 2018 to	2020	% change from 2019 to 2020	2021	% change from 2020 to 2021	2022	% change from 2021 to 2022	2023	% change from 2022 to 2023
January	18	88	389%	570	548%	249	-56%	51	-80%	31	-39%
February	15	112	647%	325	190%	89	-73%	55	-38%		
March	29	106	266%	259	144%	171	-34%	43	-75%		
April	14	48	243%	240	400%	153	-36%	22	-86%		
May	14	137	879%	170	24%	180	6%	40	-78%		
June	96	245	155%	766	213%	74	-90%	82	11%		
July	120	224	87%	779	248%	61	-92%	24	-61%		
August	130	474	265%	562	19%	153	-73%	57	-63%		
September	110	251	128%	427	70%	275	-36%	123	-55%		
October	79	613	676%	267	-56%	203	-24%	50	-75%		
November	22	400	1718%	235	-41%	150	-36%	39	-74%		
December	180	405	125%	280	-31%	74	-74%	43	-42%		
Totals	827	3103	275%	4880	57%	1832	-62%	629	-66%	31	

#### **Town Metrics – Daily Odor Reports**

- Reporting started in August 2021
- Significant decreases in "bad odor days" during 2022



- ≥ 5 odor reports w/in 1 hour
- ≥ 24 odor reports/ day

#### **Town Metrics – Monthly Odor Reports**

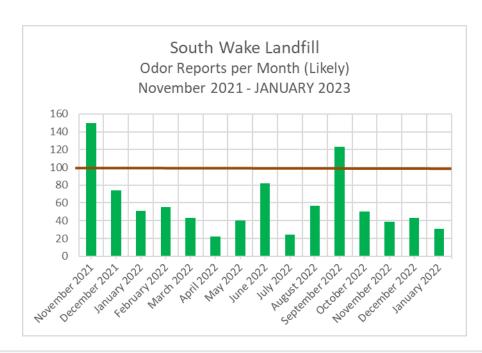
#### **Thresholds**

100 odor reports <u>likely</u> attributable to the landfill **OR** 200 total odor reports in a month

Report generated by consultants

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

Hit the more than 100 in Sept. – first since November of 2021



# **Town Metrics – Distance of Odor Reports** from the Landfill

#### Monthly report includes:

Distance Metric Summary												
		March '22	April '22	May '22	June '22	July '22	Aug '22	Sept '22	Oct '22	Nov '22	Dec '22	Jan '23
	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted	Weighted
Disance	Metric %	%	%	%	%	%	%	%	%	%	%	%
> 0.5 miles	> 70%	78%	83%	94%	81%	87%	91%	88%	92%	93%	93%	47%
0.5 – 1 mile	<20%	21%	16%	5%	16%	12%	8%	11%	7%	6%	7%	49%
1 – 2 miles	<8%	1%	1%	0%	2%	1%	1%	1%	1%	1%	0%	4%
2 – 3 miles	<1%	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%

 We view January's numbers as an anomaly that we will monitor over the next couple of months – likely related to unusual weather.

## Questions?

Thank You!