



# Land Application of Food Processing By-Products (Residuals & Vegetative Waste)

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November 12<sup>th</sup>, 2024





# Bureau of Ground Water, Residuals, and Permit Administration

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## Residuals Program

Program website: <https://www.nj.gov/dep/dwq/bpr.htm>

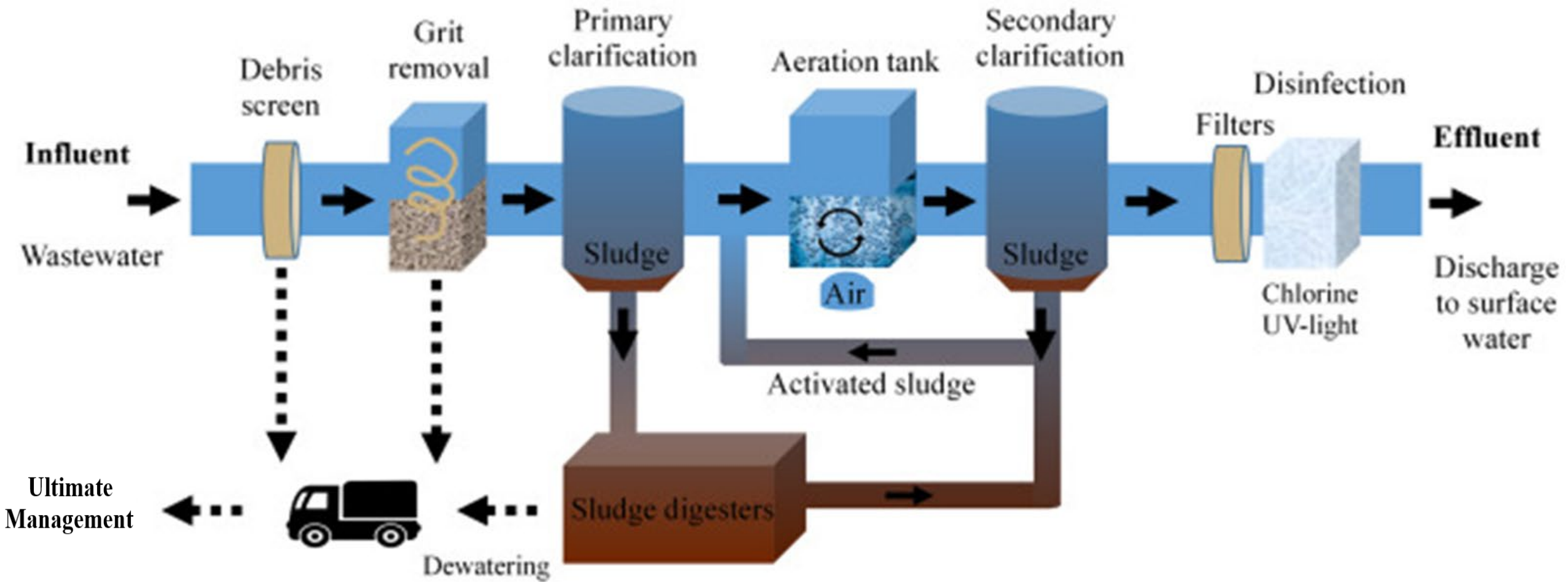
Patrick Brown, Supervisor: [Pat.Brown@dep.nj.gov](mailto:Pat.Brown@dep.nj.gov)

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## The Residuals Team

- Susanne Hoffman
- John Murray
- Michael Hubal
- Dustin Termi
- Karley McIlhatton





# Typical Wastewater Treatment

Residuals/Sludge... solids removed from treatment.



# Residuals

- “Residuals” refers to **solid waste** that consists of the accumulated solids and associated liquids which are by-products of a physical, chemical, biological, or mechanical process or any other process designed to treat wastewater or any other discharges subject to regulation under the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1).
- Residuals include, but are not limited to, marketable residuals product, water treatment residual, industrial sludge, septage, and sewage sludge.
- Residuals exclude **screened vegetative waste**, process wastewater, leachate, and grit and screenings.



# NJPDES Master General Permits and GP Authorizations Issued for SQAR Compliance

- 64 S2G – 2023 Master GP Renewal
- 83 S1G – 2024 Master GP Renewal
- 212 SXG – 2025 Master GP Renewal
- 42 S4G – 2026 Master GP Renewal
- 57 S3G – 2027 Master GP Renewal
- 42 WTRG – 2024 Master GP Renewal
- 62 SQIG GPAs issued to date as the DSW, DGW, and SIU Permits come up for renewal or a new SQIG RFA is submitted, Master GP Renewal 2026



# Land Application NJPDES Individual Permits, Master General Permits/Authorizat ions and Out-of- State Marketable Residuals Product Approvals

- 3 Discharge Category D, Land Application of Biosolids - Class "B"
- 10 Discharge Category E, Land Application of Water Treatment Residuals
- 23 Discharge Category EG GPAs, Land Appl of Food Processing Residuals and Food Processing Vegetative waste, Master GP and GPAs Renewals 2026
- 4 Discharge Category V, Land Application of Biosolids – Class "A"
- 5 Discharge Category V1, Out-of-State Land Application of Biosolids – Class "A" Approvals
- 2 Discharge Category Z, Residuals Transfer Facility (1 includes gasification technology)
- 17 Discharge Category ZG GPAs, Residuals Transfer Facility, Master GP and GPAs Renewals 2025



# Land Application Statistics 2022

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- 11,107,623 gallons of Class “B” biosolids land applied under Cat D permits
- 43,124 yd<sup>3</sup> of Class “A” biosolids products distributed under Cat V permits, 1,724 yd<sup>3</sup> of out of state products under V1 letters of approval
- 37,324 yd<sup>3</sup> of water treatment residuals land applied under Cat E permits
- 38,848 yd<sup>3</sup> of food processing vegetative waste applied under EG GPAs
  - Would fill a space similar to the DEP Courtyard!
- 3,989,600 gallons of food processing residuals applied under EG GPAs
  - Would fill about half the DEP Courtyard!



# Land Application of Food Processing By-Products

## General Permit

### (Category EG)

- Authorizes the distribution and land application of food processing by-products for a class of food processing operations.

#### Types of Operations may include:

- Packing and Repacking operations, cold fruits & veggies
- Food processing generating vegetative waste
- Johana foods manufacturing and processing of Ssips juice box and La Yogurt – Industrial wastewater where resulting sludge is land applied.



## Category-EG Permit Authorizations

NJPDES #	Facility Name	County	Municipality
NJG0107549	B&G FOODS N AMERICA INC VIOLET PACKING	Gloucester	Monroe Twp
NJG0140791	CAPE MAY FOODS DBA LAMONICA FINE FOOD	Cumberland	Millville City
NJG0146013	WHITE WAVE FOODS / CUMBERLAND DAIRY LLC	Cumberland	Bridgeton City
NJG0245011	EASTERN PROPAK LLC	Gloucester	Glassboro Boro
NJG0138011	F&S PRODUCE	Cumberland	Deerfield Twp
NJG0154521	F&S PRODUCE PLANT 2	Cumberland	Deerfield Twp
NJG0275450	F&S PRODUCE CO INC PLANT 3	Cumberland	Vineland City
NJG0107719	GRASSO FOODS	Gloucester	Woolwich Twp
NJG0265519	GREEN CHEF CORP	Gloucester	Logan Twp
NJG0102814	JOHANNA FOODS INC	Hunterdon	Raritan Township
NJG0131997	LASSONDE PAPPAS CO INC	Cumberland	Upper Deerfield Twp
NJG0215449	LUCCA FREEZER AND COLD STORAGE	Cumberland	Vineland City
NJG0131806	NESTLE USA INC	Monmouth	Freehold Boro
NJG0302538	OATLY INC	Cumberland	Millville City
NJG0131849	RICH PRODUCTS	Cumberland	Vineland City
NJG0215422	SAFEWAY FRESH FOODS LLC	Cumberland	Vineland City
NJG0263435	SANTA SWEETS	Cumberland	Lawrence Twp
NJG0134767	SEABROOK BROTHERS & SONS	Cumberland	Upper Deerfield Twp
NJG0257028	TAYLOR FARMS	Gloucester	Logan Twp
NJG0138118	WWF OPERATING CO	Cumberland	Bridgeton City
NJG0330485	MANFREDI COLD STORAGE OF PEDRICKTOWN	Salem	Oldmans Twp
NJG0330752	EMERALD REPACK LLC	Gloucester	Logan Twp
NJG0344117	S & L COLD STORAGE INC.	Gloucester	East Greenwich Twp



# Food Processing By-products

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## Examples

### Vegetative Wastes

- Peels, skins, and seeds which are left over from trimming
- Reject sorting
- Cleaning
- Pressing
- Cooking
- Other similar food processing operations

### Residuals

- Solids removed during wastewater treatment processes







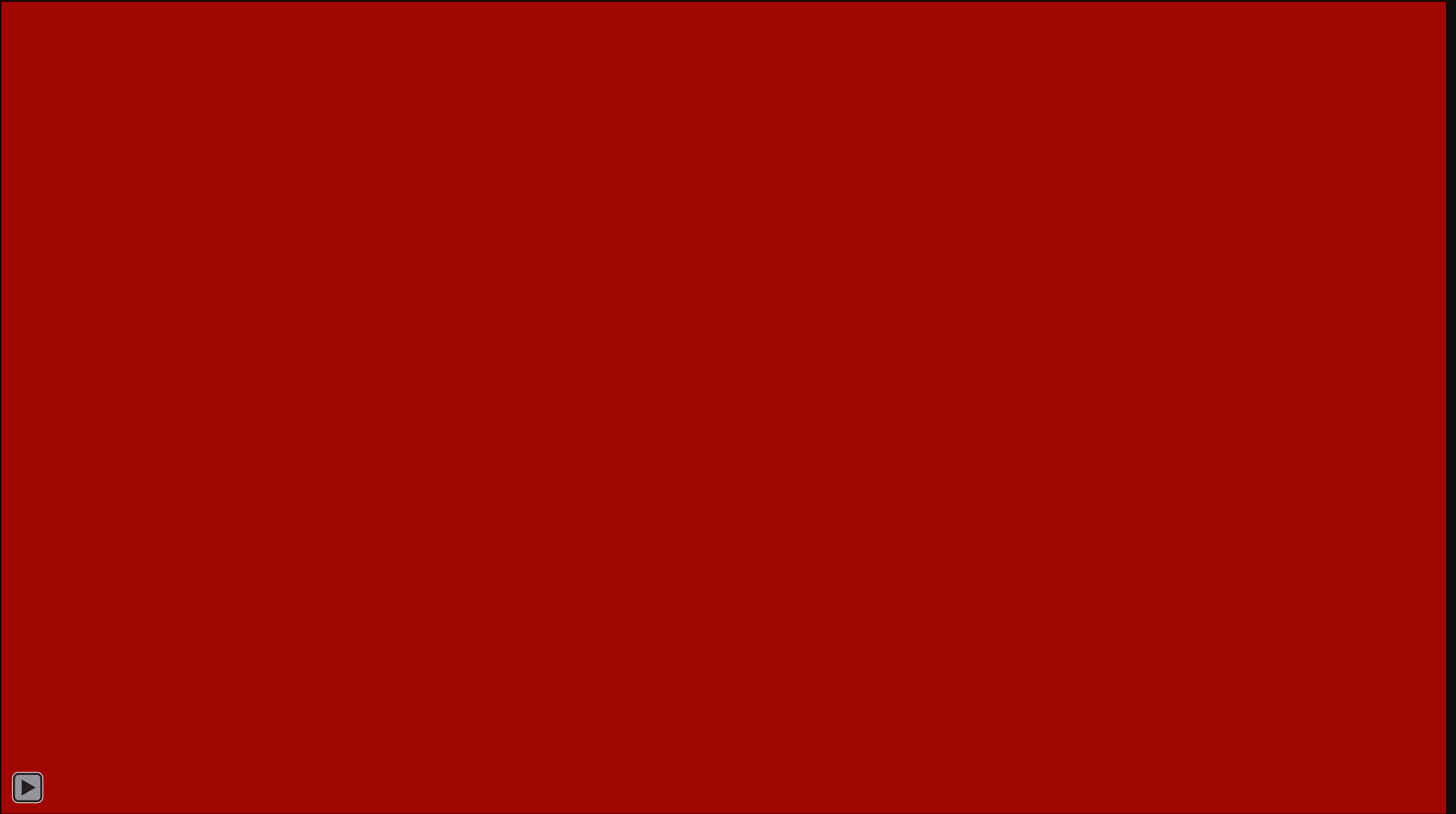




































































# Corn Crop

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Sunnyside Farms  
Deerfield Township  
Cumberland County, NJ





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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Date	Field_Status	Comments	Fields in Batch	Field List																	
2	7/10/2024	Standing Crop	Corn	<a href="#">Sugarman Avenue Farm</a>																		
3	7/31/2024	Standing Crop	Corn																			
4	8/14/2024	Fallow	Fallow on West Side, Seeded, Applying	on East Side - Dumpster with oranges and birds fl																		
5	9/19/2024	Active LA	Don't look to have been sitting long, foreign materials spread on field																			
6					73: Depart Sugarman Avenue Farm																	
7				Enter on Nabb Ave																		
8																						
9					74: Go back on Dewberry Ave																	
10																						
11					75: Turn right on Sugarman Ave																	
12																						
13					76: Turn left on W Main St																	
14																						
15					77: Turn left on Rosen Ave																	
16																						
17					78: Arrive at Millville/The Orchard																	
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# Questions?

