



Presented by Hillside Solutions & Soil Dynamics

On Farm Organics Management in Nebraska



Who are we and why are we here today?

Hillside Solutions-Gretna Sanitation-Soil



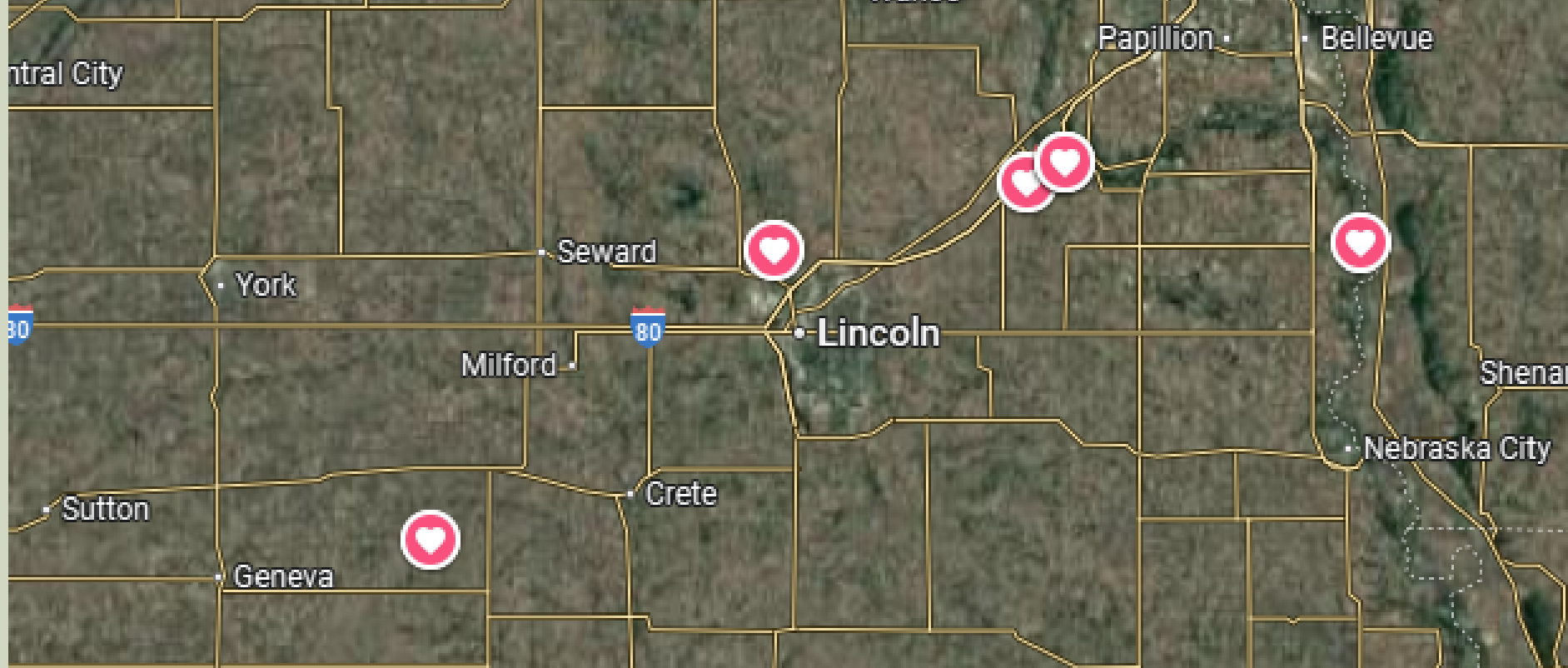
Overview of the Waste Business

Where does all the trash go?



So what did we do?

Got back into farming!



Farm Locations

We're doing this!

REPORT NUMBER
20-316-1158
COMPLETED DATE
Nov 16, 2020
RECEIVED DATE
Nov 10, 2020

ACCOUNT
27403



PAGE 1/2
TODAY'S DATE
Nov 16, 2020

SOIL DYNAMICS

PO BOX 810
GRETTA NE 68028

IDENTIFICATION
FRIEND NE FARM

SOIL ANALYSIS REPORT

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER LOI, % percent MATS	PHOSPHORUS				NITROGEN (N) (FIA)				POTASSIUM				MAGNESIUM				CALCIUM				SODIUM				pH		CATION EXCHANGE CAPACITY, C.E.C.		PERCENT BASE SATURATION (COMPUTED)						
			P, MEAN, ppm	P, MAX, ppm	P, MIN, ppm	P, SURFACE, ppm	N, SURFACE, ppm	N, SUBS. 1, ppm	N, SUBS. 2, ppm	N, TOTAL, ppm	K, ppm	K, MATS	Mg, ppm	Mg, MATS	Ca, ppm	Ca, MATS	Na, ppm	Na, MATS	SO4, ppm	SO4, MATS	CL, ppm	CL, MATS	CO3, ppm	CO3, MATS	BI, ppm	BI, MATS	PH	INDEX	MEQ/100g	% K	% Mg	% Ca	% H	% Na			
			ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	
370																																					
75765	1	1.9 L	6 VL	15 L					211 H		382 VH		1871 L		13		5.2		6.2		20.0		2.7	15.9	46.8	34.3	0.3										

LAB NUMBER	NITRATE-N (FIA)										SULFUR		ZINC		MANGANESE		IRON		COPPER		BORON		SOLUBLE SALTS	
	SURFACE			SUBS. 1			SUBS. 2			Total	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS	ppm	MATS
370	ppm	SO4	Depth, in.	ppm	SO4	Depth, in.	ppm	SO4	Depth, in.															
75765	7	13	0-6							13		4 VL		0.4 VL		14 H		43 VH		0.8 L		0.1 VL		0.1 L

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.
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Ag Testing - Consulting

Account No. : 96647

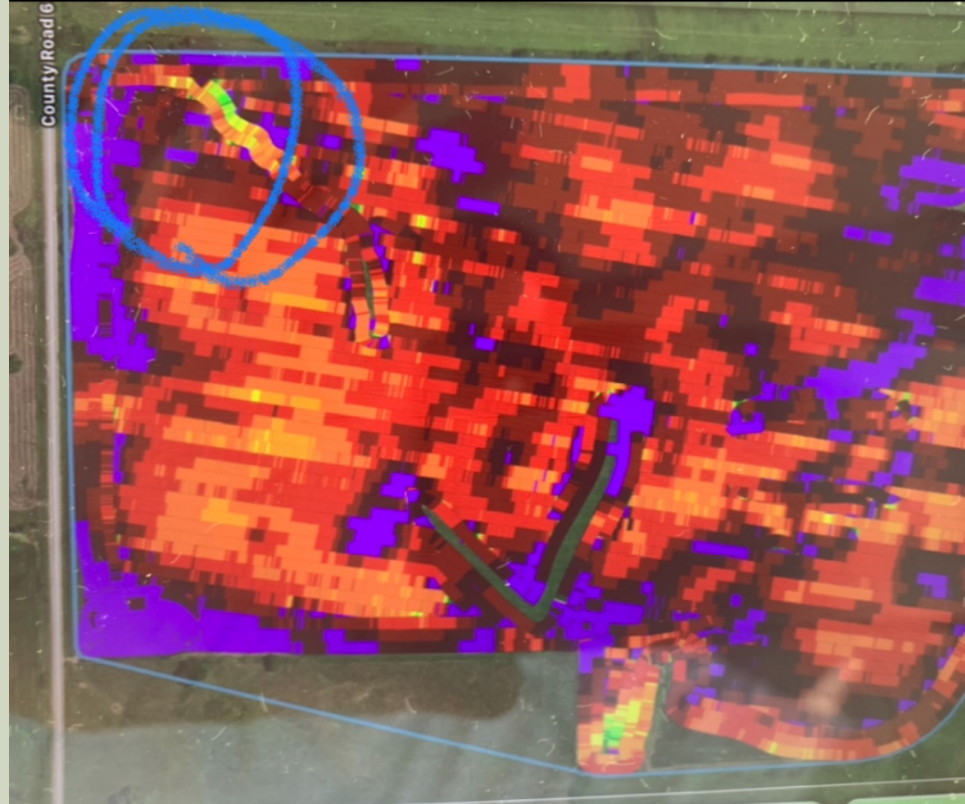
HARPENAU, ANDY
19580 W H 31
SPRINGFIELD

NE 68059

Results For : ANDY HARPENAU
Location : FRIEND FARM

Lab No. :	292752	Depth :	0 - 8
ID :	FRIEND-SOUTH		
Organic Matter LOI, %	3.7		
Organic Carbon, % C	1.827		
Ace Protein, g/Kg	3.29		
POX-C, ppm C	322		
Aggregate Stability 1-2mm, %	56		

OMG look at that OM! 2024 on the right.



2021 Yield Map



WHY??



No soil moving



Mr Rooster better be quick!



Bringing it all together, together.

What we've heard from the community:

- “ I feel like adding more composting stations would help a lot, and raising awareness would be beneficial.
- “ Encourage businesses to reduce the generation of plastic waste in packaging.
- “ I would love to see more city-wide composting!

80%

of survey respondents see implementing composting programs for residential, commercial, and industrial uses as a moderate, high, or top priority.

Feedback from the Omaha Climate Action Plan.

Goals of the Omaha Action Climate Plan by 2035

Sector Goals

by 2035:



55.4%

drop in GHG
emissions from 2014



10%

less solid waste
generated



5.3x

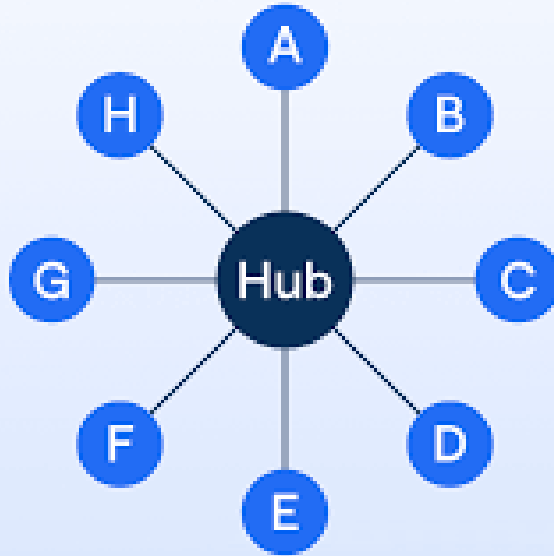
increase in
organics diversion



48%

decrease in total
landfilled waste

Hub And Spoke



Hub and Spoke-How does this work?



Win-Win for everyone!

- Reduces reliance on synthetic fertilizers → less groundwater pollution.
- Diverts organics from landfills → lowers methane emissions.
- Supports regenerative/organic agriculture.
- Improves soil health-water retention
 - → less need for irrigation
 - → reduces flooding risks.
- Increases farm profitability → Farmers start managing input costs
- Aligns with Governor Pillen's water quality/quantity agenda
- Creates no taxpayer cost, extends landfill life.

Economic Benefits to Farmer (3,000 yds Incoming Organics)

Revenue & Value

- \$5/yd incoming material → **\$15,000**
- Replaces \$125/ac anhydrous (200 bu corn @ 220 lbs) → **\$20,000**
 - No credit for beans/cover crops; excludes other nutrients
- **Gross: \$35,000 (160 ac = \$218.75/ac)**
 - Based on \$0 off-farm nutrient cost

Labor & Trucking (20 mi haul, 3,000 yds/yr)

- Compost: 2% N = 20 lbs/yd (½ available Yr 1; 1,600 yds remain)
- Delivery & row building: 43 loads @ \$4/mi + loader \$100/hr → **\$4,440**
 - Includes double-ground mulch for odor control
- Screening: \$450/hr (includes haul-away) → **\$6,750**
- Spreading: 10 yds/ac → \$8/yd (if done during screening) → **\$12,800**
- **Total cost: \$23,990**

Net Income: \$11,010 total or \$68.81/ac

Pad prep-1 time cost \$10-15k

A man with glasses and a mustache, wearing a blue button-down shirt, is shown in a workshop or garage setting. He has a wide-eyed, shouting expression on his face. In the background, there is a wooden workbench with various tools and a yellow oil can. The text "SERENITY NOW!" is overlaid in large, white, bold, sans-serif capital letters with a black outline.

SERENITY NOW!

The Challenges

- Odors
- Regulatory-NDWEE
- Contamination
- BMPs and NMPs
- Rented ground
- No silver bullet
- Not for everyone



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Two little weeds that keep growing.

Questions?