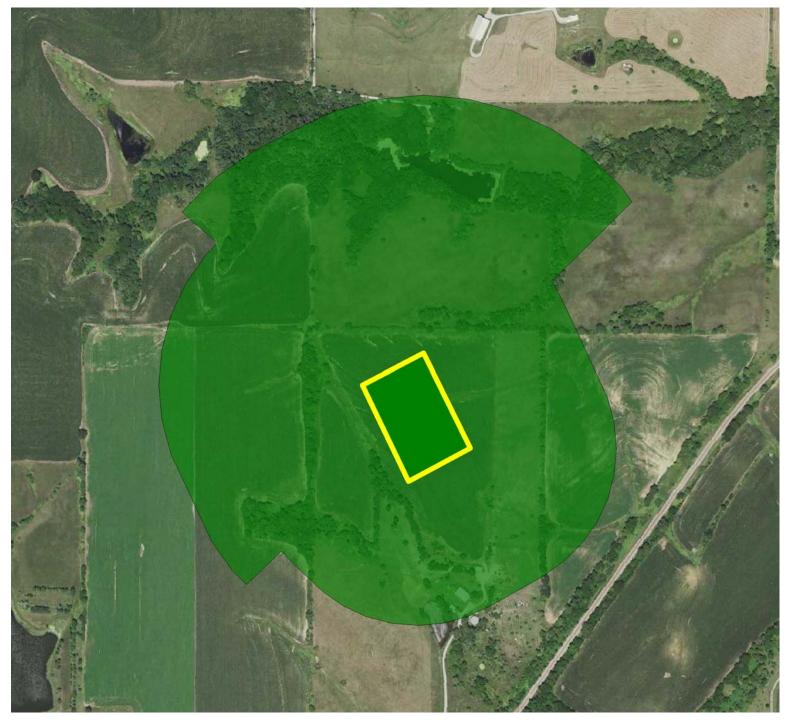
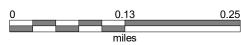
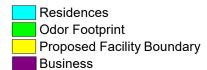
Randy Essink 96% Odor Footprint Setback













NEBRASKA ODOR FOOTPRINT TOOL **Separation Distance Results** IANR Project title: Randy Essink Prepared for: **Lancaster County** Site location: Lancaster County, NE Prepared by: **Nutrient Advisors** Location for weather data: Beatrice, Neb. (Southeast Neb.) Date prepared: June 14, 2018 Source Facility 3 Source Facility 4 Source Facility 1 Source Facility 2 Poultry, Broiler Type of facility: Floor-raised on litter 151,200 Total plan area: (sq. ft.) 190,000 Total number of animals: Base odor control: No supplemental odor control implemented Percentage of total odor: 100% No supplemental odor Alternate odor control: control implemented New Percentage of total odor: 100% Separation Distance (miles) North East South West **BASE PLAN** 90% 0.16 0.06 0.08 0.12 94% 0.21 0.12 0.13 0.18 Odor Annoyance-Free 96% 0.28 0.16 0.16 0.22 98% 0.44 0.30 0.29 0.37 Frequency 99% 0.67 0.57 0.53 0.67 **ALTERNATE PLAN** 90% 0.16 0.06 0.08 0.12 94% 0.21 0.12 0.13 0.18 Odor Annoyance-Free 96% 0.28 0.16 0.16 0.22 Frequency 98% 0.44 0.30 0.29 0.37 99% 0.67 0.57 0.53 0.67 East North South West

Funding provided by: The Nebraska Environmental Trust
Pork Checkoff

Rolling terrain

Rolling terrain

Rolling terrain

Rolling terrain

Terrain: (apply on receptor-by-

receptor basis)

IANR

NEBRASKA ODOR FOOTPRINT TOOL Values Used in the Calculation of Separation Distances

Beatrice, Neb. (Southeast Neb.)

Source Facility 1

Poultry, Broiler

Floor-raised on litter

47,500

600

63

0

No supplemental odor control implemented

151,200

10

1

Nebraska Lincoln

Source Facility 4

0

0

0

0

0

0

Project title: Randy Essink

Site location: Lancaster County, NE

Location for weather data:

Prepared for: Lancaster County Prepared by: Nutrient Advisors

Date prepared: June 14, 2018

* The emission values shown have been scaled upbased upon calibration study results - for use with

Source Facility 3

0

0

0

0

the Odor Footprint Tool.

BASE PLAN

Select odor sources:

Select type of facility:

Number of animals per facility: Facility plan dimensions:

a) Length & Width = (ft) (ft) OR b) Diameter: = (ft)

Number of identical facilities:

Select odor control used in Base Plan:

Total plan area: (sq. ft.)

OFT odor emission number*:
Odor control factor:

Facility odor emission rate*: (10⁶ OU/s)

1.51	

Source Facility 2

0

0

0

0

0

0

0

Total odor emission rate*:

ALTERNATE PLAN

Select odor control option being considered:

Odor control factor:

New total odor emission rate*:

1.51 x 10⁶ OU/s

1.51 x 10⁶ OU/s

Source Facilty 1	Source Facility 2	Source Facility 3	Source Facility 4
No supplemental odor			
control implemented	0	0	0
1			