

# Blau Road Farm Composting Site 

## Vvivaria

## meet vivaria


vivaria's mission is to re-imagine food systems and how we approach food waste to create a more efficient, equitable, and cleaner future. Recapture waste, revitalize the soil, renew our world.

## Site Location

## Tax Map

The site is zoned for industrial use.


## Industrial Zones




## Food Scrap Recycling Need

State law requires entities that produce over 52 tons of food waste per year separate and recycle their food waste. A detailed analysis identified only those generators located within Warren County and included those that generated 104 tons per year, twice the amount required for them to utilize a facility located within 25 miles of the Applicant's site. This data thus severely underestimates the need for this facility.

| Food Waste Generators in Warren County | Locatio <br> n <br> Count | tons/wk/loc | tons/wk | $\begin{gathered} \text { tons/ } \\ \mathrm{yr} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Restaurants | 1 | 4.0 | 4.0 | 208.0 |
| Grocery Stores | 5 | 6.0 | 30.0 | $\begin{array}{r} 1,560 . \\ 0 \end{array}$ |
| Grocery Stores | 2 | 12.0 | 24.0 | $\begin{array}{r} 1,248 . \\ 0 \end{array}$ |
| Colleges \& Universities | 1 | 10.0 | 10.0 | 400.0 |
|  | 9 | 32.0 | 68.0 | $\begin{array}{r} 3,416 . \\ 0 \end{array}$ |

For College/University, used estimate of only 40 weeks to account for breaks and summer.

## Site Design

## Aerial Site View 1



## Aerial Site View 2



## Sightline \& Example Berm

Features a berm that will include evergreens and native wild flowers.


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Distance from
Residential
Area


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## Traffic Maps

## Truck Route

Trucks will arrive and depart via municipally designated truck routes that service other nearby industrial uses.


Future Levels of Service

## Traffic Study Results

A traffic impact study conducted by Dynamic Traffic shows that facility have no material impact on levels of service.

| Intersection | Direction/ <br> Movement | AM PSH |  | PM PSH |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No Build | Build | No Build | Build |
| Route 57 \& Airport Road | EB | D (43) | D (45) | D (44) | D (45) |
|  |  | B (18) | B (18) | B (18) | B (17) |
|  | $\begin{array}{cc} \hline \text { NB } & \text { LT } \\ \text { SB } & \mathrm{T} \\ & \mathrm{R} \\ \hline \end{array}$ | A (4) | A (4) | A (3) | A (4) |
|  |  | A (3) | A (3) | A (4) | A (4) |
|  |  | A (1) | A (1) | A (1) | A (1) |
|  | Overall | A (5) | A (5) | A (4) | A (6) |
| Rockport Road \& Airport Road | WB L | b (11) | b (12) | b (13) | b (14) |
|  | WB R | a (9) | a (9) | a (10) | a (10) |
|  | SB LT | a (8) | a (8) | a (8) | a (8) |
| Rockport Road \& Hazen Road | WB $\frac{\mathrm{L}}{\mathrm{R}}$ | b (10) | b (11) | b (15) | c (15) |
|  |  | a (9) | a (9) | a (10) | a (10) |
|  | SB LT | a (8) | a (8) | a (8) | a (8) |
| Rockport Road \& Blau Road | WB LR | a (10) | a (10) | b (11) | b (11) |
|  | SB LT | a (8) | a (8) | a (8) | a (8) |
| Blau Road \& Site Driveway | EB LT | - | a (8) |  | a (8) |
|  | SB LR | - | a (9) | - | a (9) |

a (\#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)
A (\#) - Signalized Intersection Level of Service (seconds of delay per vehicle)

## Operations \& Technology

## 1 Sealed Trucks Arrive

Food scraps are screened to ensure compliance with standards then sent to the tipping area, where food scraps are immediately mixed with wood chips.

3 Piles are then Aerated
Aeration (ASP Technology) eliminates the need to turn the piles over, which further reduces the risk of odors. ASP technology allows for a faster composting time.

2 Food Scraps are Moved to Outdoor Bins
Food scraps are mixed covered with a bio-layer (wood chips) that reduce the risk of odor escape.

4 Compost is Distributed for Agricultural and Landscape Use
The compost is shipped off site

## Example of Tipping Area



Odors are adsorbed by the woodchips

> How
> Biolayers Work to Reduce Risk of Odor


- The aeration system distributes air through the biomass to enhance composting conditions. All process air exhausts through a bio-layer (woodchips).
- Optimized process conditions drive faster composting while generating minimal odors and other regulated air emissions.
- Our proposed system will feature dynamically controlled aeration with a wide range of air delivery rates required to keep oxygen and temperature at Best Measurement Practice levels throughout the pile.
- Compost will be kept in outdoor concrete bunkers (example left).





# get in touch 

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