



August 23, 2010

■
Suite 101
1321 SE 25th Loop
Ocala, Florida
34471

Mr. Brad Cornelius, AICP
Sumter County Planning Manager
910 North Main Street, Suite 301
Bushnell, Florida 33513

**Re: *Compost USA Site – Minor Land Development Traffic Analysis;
Sumter County, Florida
KHA Project No. 142235000***

Dear Mr. Cornelius:

Kimley- Horn and Associates, Inc. is pleased to submit this Minor Land Development Traffic Assessment (LDTA) associated with the above referenced project as part of a conditional use permit. Based on the Sumter County Traffic Guidelines for Traffic Impact Analysis (TIA), a project that generates greater than 50 but less than 1,000 daily project trips is required to perform a Minor LDTA.

Accordingly, we have prepared this exemption letter for your review. We have attached tables and figures that will provide you with the trip generation, trip distribution, and area of influence for the project. Following is a discussion of our analysis.

Background Information

The project is a proposed compost processing facility located on C-48, east of CR 558, in Sumter County, Florida (see **Figure 1**). Access to the site is expected to be provided by one full access driveway onto C-48.

Trip Generation

Trip generation for the site was based on discussions with representatives from Compost USA. The site is expected to include 10 employees, and will generate on average 20 trucks a day. The daily trip generation is expected to be 60 entering/exiting vehicles. The trip generation during the PM peak hour is expected to include 3 truck trips and 10 employee trips, resulting in 16 PM peak hour trips (3 entering, 13 exiting).



Study Area

Based on the Sumter County's *Guidelines for Traffic Impact Analysis (TIA)*, a site that is expected to generate more than 50 but less than 1,000 daily trips is required to perform a Minor Land Development Traffic Assessment (LDTA). The study area for a Minor LDTA is defined as segments within ½ mile of the project site and segments outside ½ mile of the project site where the project consumes greater than 3 percent of the generalized peak hour two-way maximum service volume. The proposed development is not expected to have greater than a 3 percent impact on any roadway segments; therefore the study area included roadways within ½ of the site. **Figure 2** provides the ½ mile study area radius.

Trip Distribution/ Assignment

Typically, the Central Florida Regional Planning Model (CFRPM) version 4.5 is used to determine the project trip generation. However, for this type of use, the model would not provide an accurate assessment of the project's trip distribution. A manual trip distribution was used in the analysis assuming 60% of the traffic would enter/exit the site from the east (Wildwood, Florida's Turnpike) and 40% from the west (Center Hill).

Roadway Segment and Intersection Analysis

Table 2 shows an analysis of classified roadway segments within the area of influence. The traffic volume information provided in the table is based on Sumter County's Concurrency Management System (CMS) Segment Report dated 12/04/2009. As illustrated in **Table 1**, all roadway segments within ½ mile of the project are expected to operate an acceptable volume-to-capacity ratio at the build-out of the project. No mitigation should be required from the proposed development.

Based on the requirements of a Minor LDTA, all signalized intersections with the ½ mile study area radius should be analyzed. Based on the location of the proposed development, there are no signalized intersections within the ½ mile study area radius.

Conclusion

Based on the preceding analysis, the study area roadway segments are expected to operate at an acceptable level of service at the build-out of the project. The project is expected to generate a total of +/- 16 net new PM peak hour trips. **Table 1** shows that all roadway segments within the study impact area are expected to operate acceptably at the build-out of the project.



Please review the attached tables and figures provided and offer written approval or comment to the Minor LDTA at your earliest convenience. If necessary, we would be happy to attend a meeting to discuss the letter. If you have any questions or comments, please give me a call.

Sincerely,

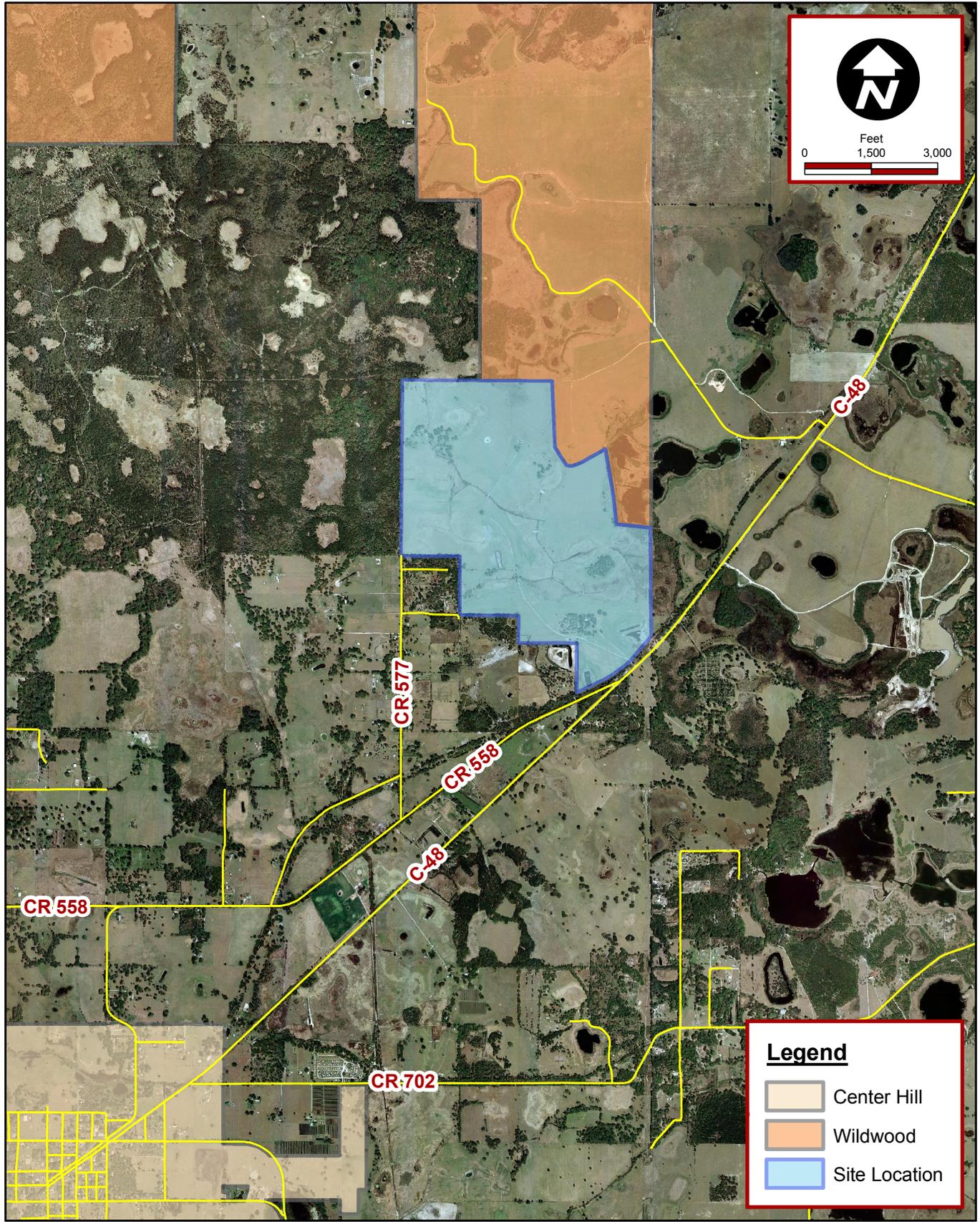
KIMLEY-HORN AND ASSOCIATES, INC.

A handwritten signature in blue ink that reads "Douglas M. Arnold".

Douglas M. Arnold, PE
Transportation Engineer

Attachments: Figure 1- Site Location Map
Figure 2- Project Study Area
Table 1- Roadway Segment Analysis
Conceptual Site Plan

Cc: S. M. Hasan – Planning and Engineering Resources
Glen Stewart – Compost USA
File



SCALE: AS NOTED
 DESIGNED BY: DMA
 DRAWN BY: DMA
 CHECKED BY: GBL

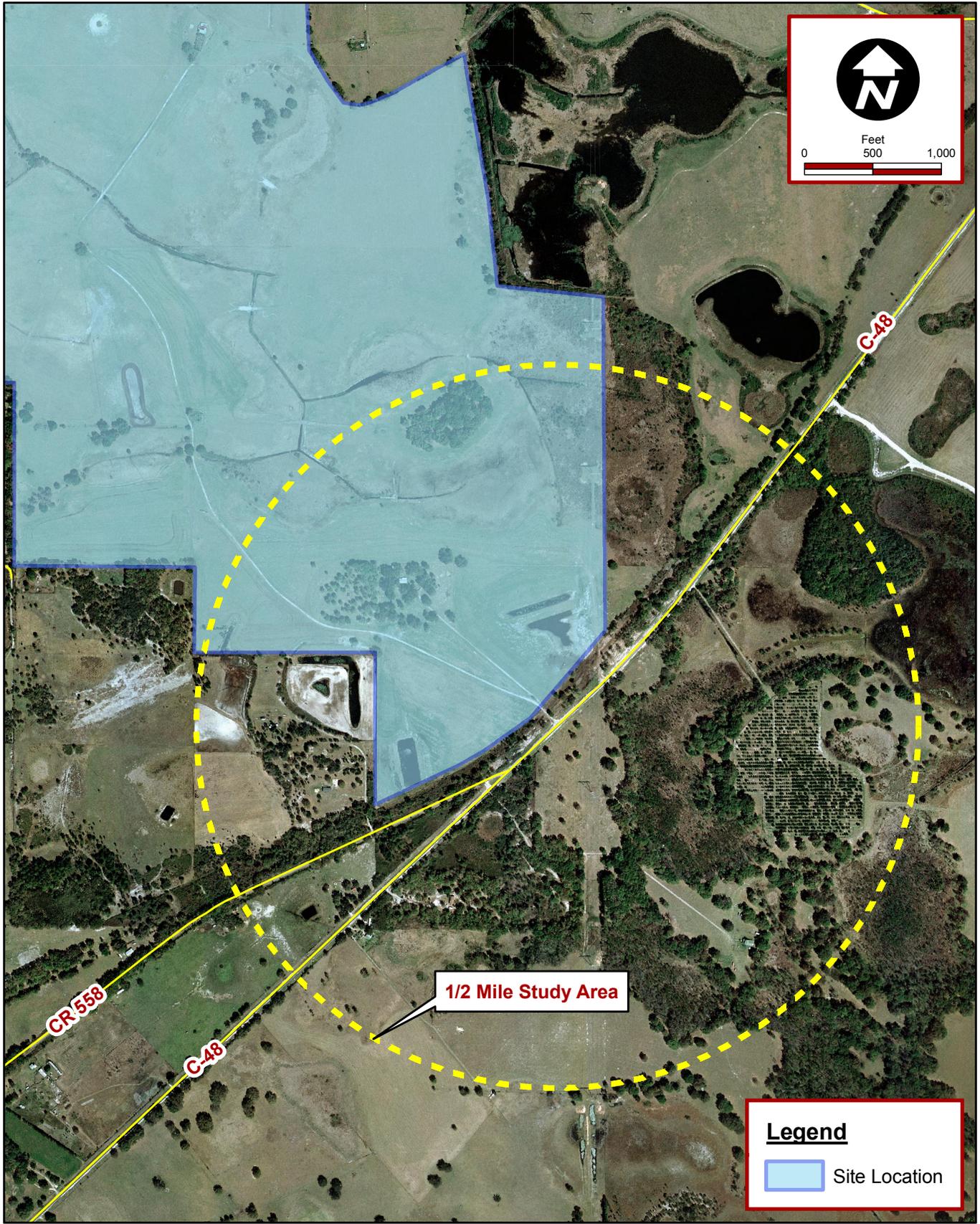
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DATE:
08-20-10

PROJECT NO:
142235000

**SITE LOCATION MAP
COMPOST USA
SUMTER COUNTY, FLORIDA**

FIGURE 1



SCALE: AS NOTED
 DESIGNED BY: DMA
 DRAWN BY: DMA
 CHECKED BY: GBL

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**PROJECT STUDY AREA
 COMPOST USA
 SUMTER COUNTY, FLORIDA**

FIGURE 2

TABLE 1
COMPOST USA
ROADWAY SEGMENT ANALYSIS
PM PEAK HOUR, TWO-WAY

Roadway From	To	LOS Standard	2009 Existing AADT ¹	Number of Lanes ¹	Service Volume ¹	2010 Peak Hour Two-Way Traffic ¹	Annual Growth Rate ¹	2015 Peak Hour Two-Way Traffic	Percent Project Traffic	PM Peak Hour Two-Way Project Traffic	2015 Build-Out Total Traffic ²	Build-Out v/c Ratio
C-48 C-469 CR 558	CR 558 Lake County Boundary	D	2,646	2	2,030	248	2.0%	274	40%	6	280	0.14
		D	2,372	2	2,030	235	2.0%	259	60%	10	269	0.13

k:\oca_tpo\142235000-compost_usa_site\xls\analysis tables.xls\table 2

Note 1: Information is based on the Sumter County CMS spreadsheet.

Note 2: The build-out total traffic is the summation of 2015 peak hour two-way traffic and the peak hour two-way project traffic.



Kimley-Horn
and Associates, Inc.

