



Mr. Richard Cohn, Manager
Waystone Realty LLC
40 Eagle Ridge Way
West Orange, NJ 07052

Re: Benchmark Compost Proposal- 42 Eagle Ridge Way

Dear Richard

I am writing in response to your query that a member of your Zoning Board had regarding possible spontaneous combustion of an Aerated Static Pile System, which we have quoted for your purchase should your application be approved.

O2Compost is an environmental consulting firm located in Washington State. Our aerated compost systems serve a wide variety of organizations including farms, private and public institutions, municipalities, and industries; all of which generate or receive organic by-products. Since our formation in 1996, we have designed over 1,800 aerated compost systems serving clients located throughout the United States, Canada, and 30 other foreign countries.

We have never had a single report of spontaneous combustion of any of the systems that we have designed.

Spontaneous Combustion has been known to occur at large scale composting facilities, where the capacities are geometrically larger than our systems and the conditions required for their operation to be very different from our system. As a result, the large scale facilities, function at significantly higher temperatures making them potentially combustible. However we have never come close to the conditions required with one of our (much) smaller scale Aerated Static Pile Systems. Maximum pile temperatures rarely exceed 160 degrees F in the core of our piles, and therefore the higher temperature abiotic and pyrolytic factors are avoided.

Accordingly, I can say with almost absolute certainty the chance of spontaneous combustion occurring in the benchmark system we have designed for you is nonexistent.

In regards to your other question on how much compost would be generated annually, based on the proposed design system, and assuming 4 horses, 76 cubic yards of compost would be generated in a year. Assuming a land application light rate of 0.25 inches per square foot, 1 cubic foot would cover 48 square feet, the 76 cubic yards will cover 2.2 acres.

I have also included a link to a video of a benchmark system in use on a 5 acre parcel in Oregon [here](#). I trust this response will satisfy the zoning board queries.

Very Truly Yours,

Peter Moon

PETER MOON, P.E. • President / Principal Engineer