

## Odor Control

### McDonald's Home Office Composting Pilot

#### Background

One of the most recognized brands in the world, McDonald's strives to embed sustainability in its operations, and ultimately into its brand. As part of its global sustainability program, McDonald's Corporation is committed to reducing its environmental impact by effectively managing solid waste and demonstrating environmental stewardship in the workplace. The leading foodservice retailer recently implemented a composting program to reduce landfill waste at its corporate headquarters in Oak Brook, Illinois. Building Services of America (BSA), in partnership with Jones Lang LaSalle, supports the composting program by collecting food waste, plant waste, and compostable packaging materials from the beverage stations, test kitchens, and on-site restaurant. BSA staff consolidate the waste daily into a 23-yard compactor located on site.



Prior to launching the program, McDonald's and Jones Lang LaSalle expressed concern about odor emanating from the compactor, which can be a nuisance, particularly on hot days. In the past, BSA tried spraying oil-based masking agents on other dumpsters located on-site but the products only made the odor worse. The implementation team agreed that resolving the odor issue was crucial to the success of the composting program.

#### BiOWiSH™ Odor

- Fast acting
- Effective on a wide range of volatile organic compounds (VOC)
- Removes rather than masks odors
- Cost effective
- Long residual period
- 100% natural and non-toxic
- Safe for people

#### Available sizes

- 3.5oz/100g
- 2.2lb/1kg
- 11lb/5kg
- packet of 8 filter bags



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## Objectives

To ensure the success of the composting program, the implementation team needed to minimize odors from the composting site and prevent complaints from building occupants. The team also wanted a solution that was effective, safe, and easy for BSA staff to use.

## Solution

After talking to environmental consultant Solid Waste Solutions, BSA identified BiOWiSH™-Odor as a potential solution to the odor problem. Developed by Chicago-based BiOWiSH Technologies, BiOWiSH™-Odor uses a composite biocatalyst that combines microorganisms, enzymes, and co-factors to break down odor causing molecules and remove odors at their source. BiOWiSH™-Odor is also 100% natural and safe to use.

## Implementation

Once a day, a BSA employee mixes a packet of BiOWiSH™-Odor with 2.5 gallons (10L) of water and lets it stand for 45 minutes to 1 hour. The employee then uses a sprayer to apply the solution directly on to the compostable waste. BSA estimates it takes no more than 15 minutes each day to apply BiOWiSH™-Odor.

## Results

Soon after applying BiOWiSH™-Odor, the maintenance staff noticed a significant reduction in odor within the composting area. With daily spraying of BiOWiSH™-Odor, BSA was able to keep the potential odors at bay and there have been zero complaints from BSA employees and building occupants. As a result of the product's effectiveness in reducing odor, the expected frequency of hauling the waste compactor to a composting facility has also been reduced, resulting in significant cost savings for McDonald's. More importantly, the composting program has been viewed as a success.

## Conclusion

BiOWiSH™ technology is novel composite biocatalyst that combines microorganisms, enzymes, and cofactors to break down odor causing molecules as well as enhance natural biological processes (such as composting) so that odors are not generated in the first place. This unique technology has been the core difference between BiOWiSH™-Odor and other products that simply mask or perfume odors instead of removing them at their source. BiOWiSH™-Odor provides a cost effective, safe, and easy to use solution to remove biologically generated odors and volatile organic compounds such as ammonia, hydrogen sulfide, and mercaptans.

## Contacts

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