

## Odor Control

### Se Jing Shan District Sewage Station, China

#### Background

On 10th April 2006 odor sampling was conducted on sewage from the Se Jing Shan District Sewage Station in Beijing China by the Chinese National Centre for Environmental Analysis and Measurements. The purpose of the sampling was to assess the effectiveness of *BiOWiSH*<sup>™</sup> Odor in reducing odor emissions from both solids and liquid sewage streams through treatment operations as a potential treatment to address fugitive emissions to surrounding residential areas.



Testing Equipment

#### Testing

The following tests were completed:

	Test			Sampling
	H <sub>2</sub> S	NH <sub>3</sub>	Odor Value	
Liquid Waste	☑	☑	☑	Prior, 10 min, 40 min
Solid Waste	☑	☑	☑	Prior 40 min

#### BiOWiSH<sup>™</sup> Odor Benefits

- Removes odors at source
- Reduces Volatile Organic Compounds (VOC) emissions
- Helps break down organic waste
- Reduces waste volume
- Accelerates composting time
- Improves leachate water quality
- 100% natural and non-toxic

#### Available sizes

- 100g/3.5oz
- 1kg/2.2lb



## BiOWiSH™ Odor Application

### Liquid Stream

BiOWiSH™ Odor was mixed into solution at 17.6oz to 2.6Gal (500gm to 10L) of water. This solution was poured directly into the liquid waste in a tanker vehicle at a final dosage of 10ppm. Samples were taken for measurement of Hydrogen Sulphide, Ammonia and Odor Values directly prior to treatment and at 10 and 40 minutes.

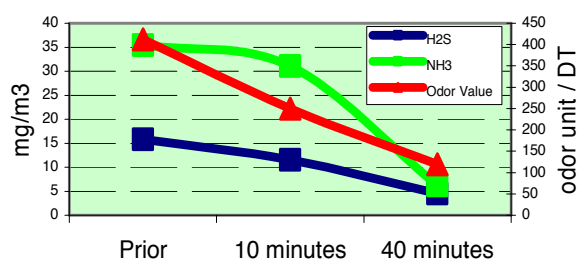
### Solid Stream

BiOWiSH™ Odor was mixed into solution at 3.5oz to 26.4Gal (100gm to 100L) of water, mixed thoroughly and allowed 15 minutes to activate. This solution was sprayed on the surface of the solid samples which were contained in plastic bags. Samples were taken for measurement of Hydrogen Sulphide, Ammonia and Odor Values directly prior to treatment and at 40 minutes.

## Results

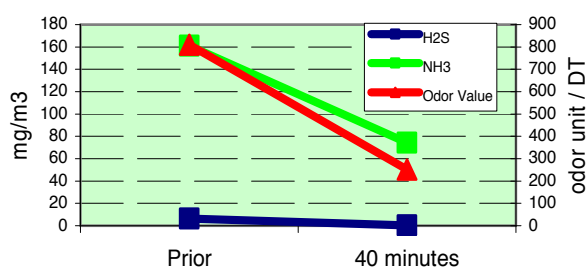
### Liquid Stream

Sample	H <sub>2</sub> S (mg/m <sup>3</sup> )	NH <sub>3</sub> (mg/m <sup>3</sup> )	Odor Value (odor unit / DT)
Prior	15.8	35.4	412
10 minutes	11.5	31.1	250
40 minutes	4.49	6.15	119



### Solid Stream

Sample	H <sub>2</sub> S (mg/m <sup>3</sup> )	NH <sub>3</sub> (mg/m <sup>3</sup> )	Odor Value (odor unit / DT)
Prior	6.32	161	810
40 minutes	0.24	74.4	251



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## About BiOWiSH™-Odor

The result of over 18 years of research and development, BiOWiSH™ is a powerful blend of biocatalysts that breaks down complex organic molecules to help eliminate waste, reduce odors, improve soil fertility and enhance water quality, among other uses. 100% natural and non-toxic, BiOWiSH™ is safe for everyday use in a wide range of consumer and industrial products. It has been proven to solve problems in environmental management (including wastewater, solid waste, soil and water remediation and industrial emissions), as well as agriculture. BiOWiSH™ products are used extensively and available in Asia, Australia, Europe, North America and Latin America.

Developed specially for the Solid Waste industry, *BiOWiSH™-Odor* digests organic compounds that cause noxious odors including ammonia, hydrogen sulphide, amines, mercaptans and a wide range of volatile organic compounds (VOCs). *BiOWiSH™-Odor* also accelerates composting time and improves leachate water quality.

## Contacts

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