

BiOWiSH® Odor

Rapidly Reducing Odor at Sewage Station in Se Jing Shan District, 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® 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 ₂ S	NH ₃	Odor Value	
Liquid Waste	✓	✓	✓	Prior, 10 min, 40 min
Solid Waste	✓	✓	✓	Prior, 40 min

BiOWiSH® Odor



- Removes rather than masks odors
- Fast acting
- Effective on a wide range of volatile organic compounds (VOC)
- Cost effective
- Operative at low dosage rates
- Long residual effective period
- Natural and non-toxic

Available Sizes

- 100g/3.5oz
- 1kg/2.2lbs
- 5kg/11lbs
- 10kg/22lbs

Implementation Program

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.

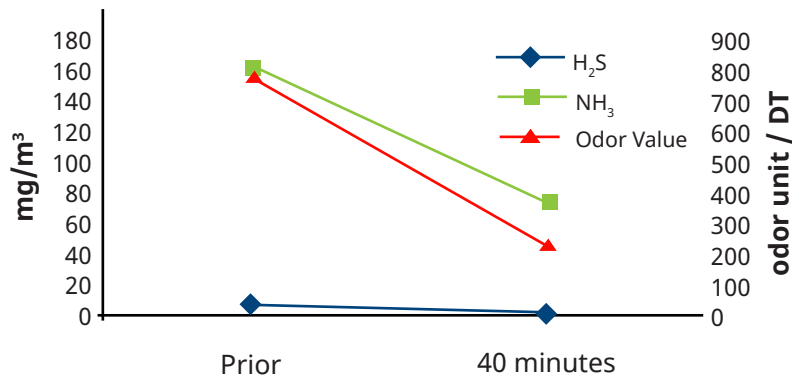
Solid Stream

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

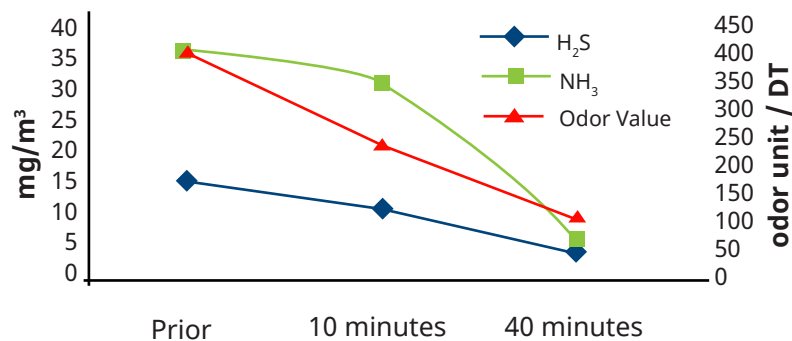
Liquid Stream

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



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