BIOREM

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Since 1990

Biofiltration for Odour Control

Advantages of Engineered Media Systems

Corporate profile

Headquartered in Guelph, Ontario with over 50 full time employees in both Canada and the United States, Biorem is dedicated solely as a designer and supplier of biological odour control systems. Biorem has been in business since 1991 and became a publicly traded company in 2005.

Head Office:
7496 Wellington Road 34
Guelph, Ontario, Canada

U.S. Office:
100 Rawson Road 34, Suite 230
Victor, New York, USA

China Office:
1503, No. 4 Building, CCP, No 89 Jianguo Road
Chaoyang District, Beijing, China

Website:
www.biorem.biz

Stock Market Listing:
TSXV:BRM

Who is Biorem?

Most Experienced Biofilter Company in the World

- Public company (Jan 2005)
- The longest serving odour control company in the world
- Over 1000 worldwide installations for VOCs & odors
- Over 25 years of biotechnology expertise
- 3 offices, employs engineers, scientists & biotechnologists
- Reputation built on TOTAL ODOUR removal (not just H_2S)
- Wide range of contaminants successfully treated:
  - TRS (H_2S, DMS, DMDS), NH_3, Mercaptans, VOCs

Odour Control

Offerings:

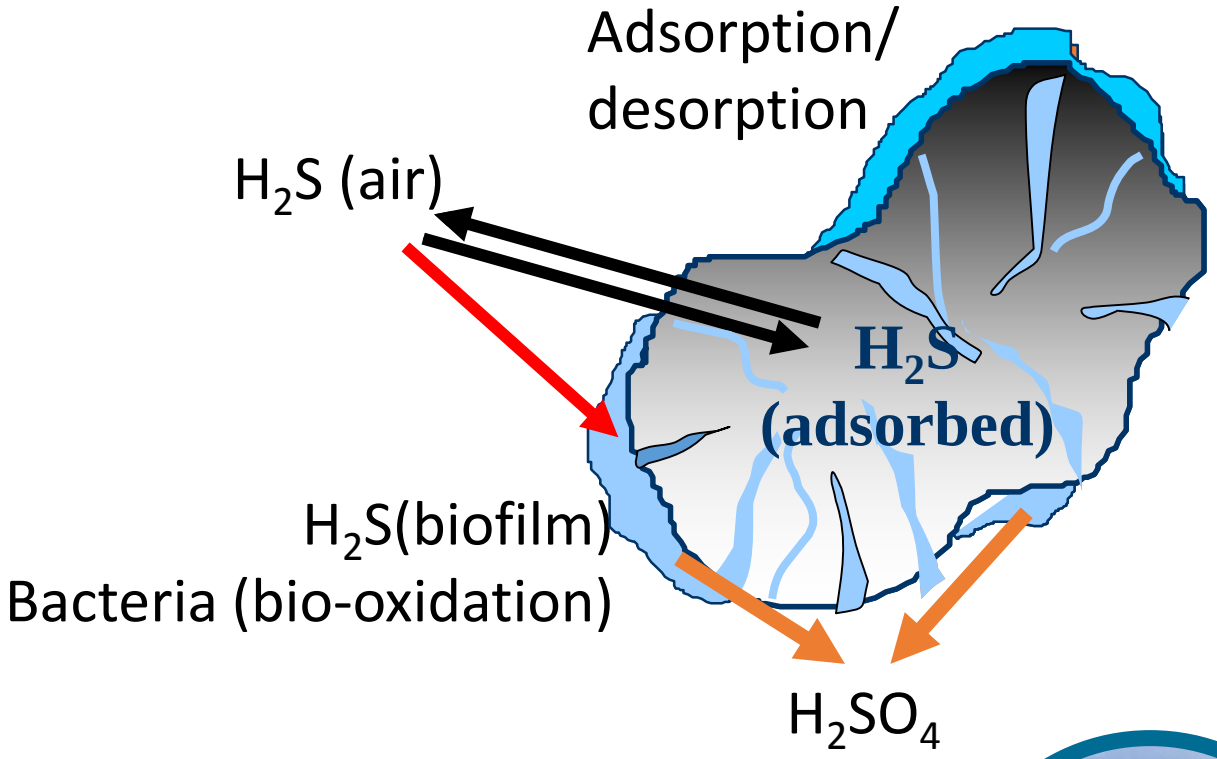
- Full design services
  - Covers, collection systems, odour control systems
  - Air dispersion modeling to ensure compliance beyond the property line
- Selection of appropriate technology for each application
  - Biological H_2S removal
  - Biological VOC removal
  - Energy efficient designs
- Experienced Field Service Team
  - Commissioning, training and after sales service

Biogas Conditioning

Offerings:

- Full gas analysis
  - Detailed siloxanes, VOCs and sulphur compounds
- Selection of appropriate technology for each application
  - Biological H_2S Removal
  - Moisture Removal/Compression
  - Regenerable Siloxane Removal
- Experienced Field Service Team
  - Commissioning, training and after sales service

Biofiltration Illustration



Why Engineered Media?

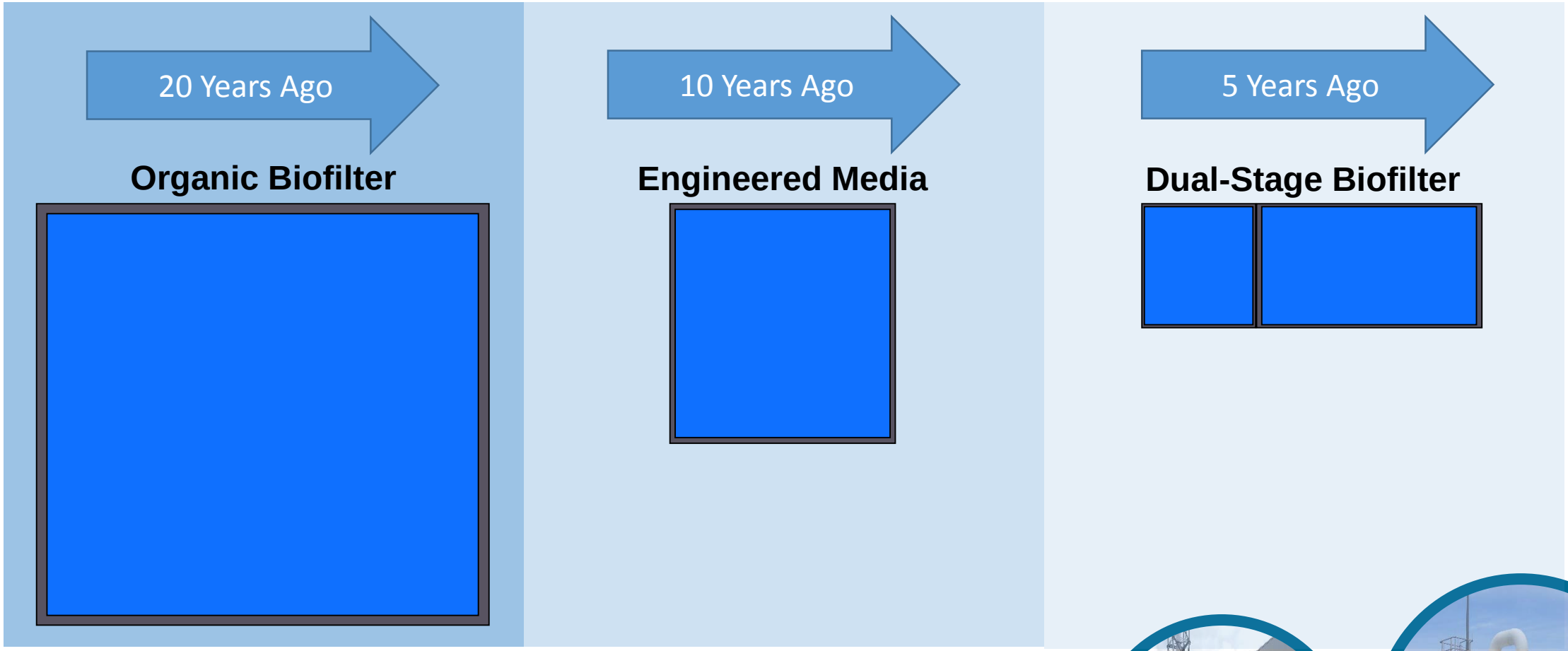
Biorem's engineered medias were developed to deal with the shortcomings of organic media options such as woodchips, leaf waste or compost:

- Large footprints
- Frequent media replacements (every few years)
- Declining performance with age
- Inability to accurately predict performance
- Inability to remove all odiferous compounds
- High background odour

The Benefits of Engineered Media

1. Reduced Footprint. Up to ¾ of the space savings for equivalent performance.
2. Media never needs replacement. Oldest system in operation is 18 years without media change-out.
3. Media properties do not change with time. The media is resistant to microbial and chemical attack, making sure that properties and performance remain consistent over the life of the system.
4. Predictable performance. Organic media varies from batch to batch. Engineered media is manufactured to strict QA/QC standards.
5. Media treats ALL odour compounds. Specific surface properties allow for difficult to remove compounds to be isolated and oxidized.
6. Media has very low background odour. The engineered properties of the media ensure that there is very little residual odour from the system

Evolution of Biofiltration



Permanent Media

Media never needs replacing:

1. Does not compact. Very low frictional resistance to air means very low energy consumption. Only ¼ of the horsepower required as compared with organic media.
2. Maintains perfect moisture balance (organic media tends to change volume depending upon whether it is wet or dry).
3. Acid and alkali resistant. Maintains perfect environment for bacteria.
4. Does not degrade. Consistent performance.

Why Choose Biorem?

- Proven technology
- Already a presence in British Columbia
- Local service and support
- The only proven supplier of engineered media
- Our 10 year guarantee has been proven: no one else can make this claim

Thank You for Attending

www.biorem.biz