

# SENTINEL™

## Passive Sampler & Monitoring Tool

The Sentinel passive sampler is a low cost, easy-to-use passive sampling and monitoring device. It continuously monitors and captures volatile or semi-volatile contaminants in the water.

The Sentinel passive sampler provides results after short immersion, yet can be deployed for several weeks. As a monitoring device, it will detect persistent concentrations of contamination, as well as contamination spikes.

Each Sentinel passive sampler contains a special absorbent designed to capture contaminants without the need for bulky deployment devices or cumbersome preparations like filling with deionized water. They are small and can fit in or near any discharge point. The Sentinel passive sampler is unobtrusive and therefore presents a low risk of being tampered or vandalized. It is an ideal device for localizing contamination sources.

### Broad Detection Abilities

VOCs, hydrocarbons, herbicides, pesticides, pharmaceuticals and other organic pollutants - the Sentinel sampler captures a wide range of common water contaminants of concern.

### Long-Term Monitoring

The Sentinel sampler resists biofouling, providing a reliable monitoring method.

Specialty absorbent materials used in the Sentinel sampler are biocompatible and will not harm wildlife.

### Easy Deployment

Small, lightweight, rugged, and compact, the Sentinel sampler is designed for easy field use. It can be quickly deployed in any water, including: monitoring wells, streams, ponds, or lakes.

Analysis is straightforward. The Sentinel passive sampler is 6.5 cm x 1.5 cm and fits into a standard 40 mL vial, where it is rinsed with solvent for analysis.



Actual size.

**A reliable and easy-to-use monitoring tool that provides detailed portraits of persistent water contaminants**

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# Sentinel™ Passive Sampler

## Sentinel Passive Sampler Advantages

- Low cost: Purchase, deployment, and analysis
- Detects a broad range of contaminants
- Optimized for EPA 625 analytes, PCBs, PAHs, and other contaminants of concern
- Resistance to biofouling provides long-term monitoring
- Easy to use without need for holders, preloading or purging
- Small size allows deployment even in tight locations
- Unobtrusive, low risk of tampering or vandalism
- Analytes are protected from biological degradation after adsorption until released in the lab
- Long-term monitoring for persistent and spike contaminations

## Examples of common contaminants found with the Sentinel sampler are:

Hydrocarbons ( <i>petroleum products</i> )
Pharmaceuticals ( <i>e.g. Triclosan</i> )
Herbicides ( <i>e.g. atrazine, 2,4-D</i> )
Pesticides ( <i>e.g. metaldehyde</i> )
Chlorinated Solvents ( <i>e.g. TCE, PCE</i> )
Polychlorinated Biphenyls ( <i>PCBs</i> )
Insecticides ( <i>e.g. allethrin, permethrin</i> )
Hormones ( <i>e.g. Estrogen, ethinyl estradiol</i> )
Surfactants ( <i>e.g. Nonyl phenols</i> )
Munitions ( <i>e.g. TNT, RDX</i> )
Fluorinated Compounds ( <i>Fluoxetine, PFOAs</i> )



## About ABS Materials, Inc.

We provide specialty absorbent solutions for a variety of markets. Our products solve challenging problems with efficient, effective, high-value, eco-friendly methods.

**ABS Materials, Inc.**

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