

# Vault-Ox®

Designed and Manufactured by

## EcoSense International

### Static Stormwater Remediation



Between storm events, metabolic oxidation exceeds  $O_2$  supply in static water in underground treatment and storage structures, and the water rapidly becomes anoxic. This stagnant environment creates sulfides, ammonia, mobile phosphorus, and increased biological oxygen demand (BOD).

Vault-Ox® is a specialized media that is placed inside your Hydrodynamic Separator, OGS, Baffle Box, or other stormwater treatment structure to enhance the performance of the system. This unique media provides an environment where beneficial microbes are able to dominate over harmful microbes and significantly improves the quality of water.

Vault-Ox® is a source of dissolved oxygen, alkalinity, and ion exchange, and provides numerous benefits:

- Buffers pH
- Reduces free hydrogen sulfide
- Prevents septic conditions
- Absorbs ammonia
- Lowers COD/BOD
- Increases phosphorus binding with iron and calcium
- Prevents acidification and release of heavy metals
- Prevents acidification when sulfides are oxidized

*Vault-Ox® also enhances the removal of total phosphorus and heavy metals.*

### Proven Effective

A 2014 independent study for the Florida Department of Environmental Protection found that “The two EcoVault® units... which featured both the media filter and Vault-Ox® components, demonstrated markedly better TP removal (41-57%) than is typically seen in GPS devices.”<sup>1</sup>

### Even Better with an EcoVault®

Vault-Ox® may be added directly to a separator sump, or to any existing stormwater treatment structure by way of a Vault-Ox® Infusion Module. Use Vault-Ox® in an EcoVault® to get results proven to be the best.

1. City of Casselberry, F. (2014). Baffle Box with Media Filtration Installation, Effectiveness Evaluation, and Associated Education for the Lake Jesup Watershed. Casselberry, FL: City of Casselberry.

To learn more about Vault-Ox® and other EcoSense products, visit us at [ecosenseint.com](http://ecosenseint.com)

### Vault-Ox® At a Glance

Specialized media enhances performance of stormwater treatment structures

Increases dissolved oxygen in static water

Granular media can be added to any stormwater treatment structure