# Fabco Industries'

# Pollution Solutions

This document was put together with the objective of condensing product performance and capabilities into a single location. Words/phrases throughout the document contain hyperlinks to our website, as well as to available test results & reports. Additionally, we've included information regarding available sampling devices/recommended test methods for each product when possible.

Rob Williamson

Sales & Engineering Manager

fabco® Industries Inc

Evolved Stormwater Solutions

## Contents

## ScreenBox GISB

### Overview

Our ScreenBox GISB utilizes fine & medium layers of stainless-steel screens to remove solids from stormwater.

### Additional Features

Includes Oil Boom to address any existing hydrocarbon issues.

### Performance

Medium Screen AOS: 0.075in x 0.075in
Medium Screen % Open Area: 56.25%
Fine Screen AOS: 0.045in x 0.060in
Fine Screen % Open Area: 67.9%

### Sampling

No sampling equipment available.

### Relevant Reports

TSS: 3rd party test performed by Tri Environmental

## StormSack

### Overview

Utilizes woven polypropylene geotextile to remove solids from stormwater.

### Additional Features

PLUS version incorporates Oil Boom to address hydrocarbons and Protected Bypass to prevent resuspension of floating debris

### Performance

AOS: 40 US Sieve (0.425mm)
Flow: 145 gpm/sq.ft.

### Sampling

No sampling equipment available.

### Relevant Reports

TSS: ACF's 3rd party test performed by Tri Environmental

## Oil Boom Add-on

### Overview

Sock containing oil-only sorbents, used to remove oils from stormwater.

### Performance

Capacity: Absorbs 0.82 liters of oil per foot (0.217 gal/ft)
Effective against: Oils

### Sampling

No sampling equipment available.

### Relevant Reports

No reports available

# Standard Cartridge

## Overview

Contains a series of grills, foams, "FabSorb" fabric, & screens designed to remove solids from stormwater.

## Performance

Flow: 115 GPM (0.26 CFS) per cartridge

## Sampling

Cartridge Sample Collection Kit
Cartridge Sampling Table

## Relevant Reports

TSS: 3rd party test performed by LIAL
TSS: 3rd party test performed by Alden Research Laboratory

# Hydrocarbons Cartridge

## Overview

Contains a series of grills, "FabMax" (Mycelx-treated foam), "FabSorb" fabric, & screens designed to target hydrocarbons in stormwater.

## Performance

Flow: 115 GPM (0.26 CFS) per cartridge
Effective against:

**Materials Captured by FabMax**

| Aromatic Hydrocarbons (BTEX) | Aliphatic Hydrocarbons & Solvents | Crude Oil & Fuel/Sheen |
| Cycloalkanes | Chlorinated Organics | Pesticides & Persistent Organic Pollutants (PCBs, Dioxin, Furan, DDT, Aldrin, Chlordane, Dieldrin, Endrin, Heptachlor, Hexachlorobenzene, Mirex, Toxaphene) |
| Organic Polymers | Vegetable Oils & Animal Fats | Colloidal Heavy Metals | Silicone Oil |

## Sampling

Cartridge Sample Collection Kit
Cartridge Sampling Table

## Relevant Reports

Oils & Grease: Fabco in-house Test Quantified by EcoTest Labs

# Heavy Metals Cartridge

## Overview

Contains a series of grills, foams, "FabLite" (zeolite mix), & screens designed to target heavy metals in stormwater.

## Performance

Flow: 60 GPM (0.13 CFS) per cartridge
Effective against:

| | | | | |
|---|---|---|---|---|
| Rubidium | Lithium | Potassium | Cesium | Ammonium (+4) |
| Sodium | Silver | Cadmium (+2) | Lead (+2) | Zinc (+2) |
| Barium (+2) | Strontium (+2) | Copper (+2) | Calcium (+2) | Mercury (+2) |
| Magnesium (+2) | Iron (+6) | Cobalt (+6) | Aluminum (+6) | Chrome (+6) |

Note 1: Actual exchange results can be significantly affected by other constituents in a liquid matrix, which compete for the exchange sites. Fabco Industries recommends testing on an actual sample of the liquid waste before making any recommendations on the unit or the treatment process.

### Sampling

Cartridge Sample Collection Kit
Cartridge Sampling Table

### Relevant Reports

Heavy Metals: Fabco field test program quantified by EcoTest Labs

## Nutrients Cartridge

### Overview

Contains a series of grills, foams, & proprietary "FabPhos" media to target hydrocarbons in stormwater.

### Performance

Flow: 100 GPM (0.22 CFS) per cartridge
Effective against:

**Targeted by FabPhos**

| Total Kjeldahl Nitrogen | Nitrate as N | Nitrogen as N |
| Total Phosphate as P | Ortho Phosphate as P |

### Sampling

Cartridge Sample Collection Kit
Cartridge Sampling Table

### Relevant Reports

P&N: Fabco field test program quantified by EcoTest Labs

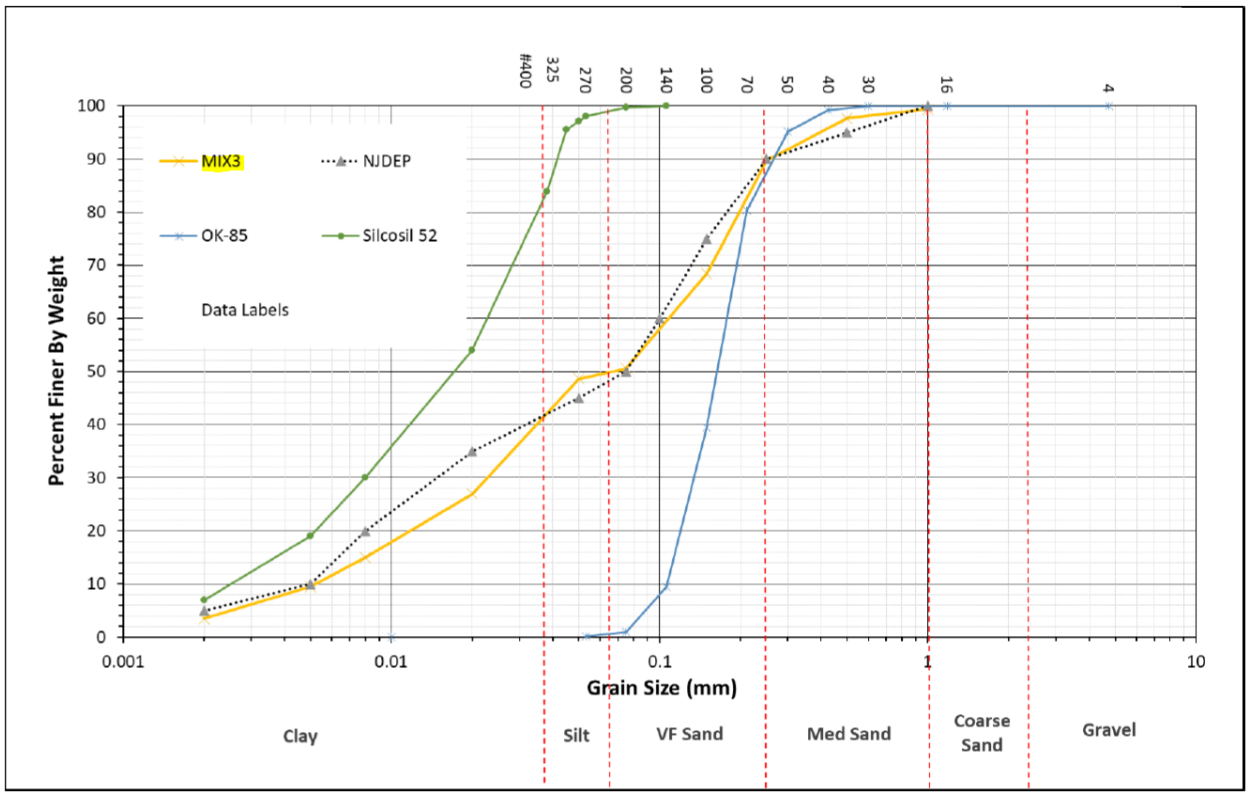
## High Efficiency Sediment Control Cartridge

### Overview

Designed specifically to target the particle size distribution standardized by NJDEP. Contains a series of grills, foams, "FabSorb" fabric, and screens. Capable of retaining very fine solids, covering a significant range of microplastics.

### Performance

Flow: 50 GPM (0.11 CFS) per cartridge
Effective against: (See MIX3 distribution below)




### Sampling

Cartridge Sample Collection Kit
Cartridge Sampling Table

### Relevant Reports

NJDEP PSD: 3rd party test conducted by Tri Environmental

## Pathogens Cartridge

### Overview

Contains a series of grills & "FabGuard" (Aegis Antimicrobial-treated foam) to target pathogens in stormwater.

### Performance

Flow: 115 GPM (0.26 CFS)
Effective against:

| ***Microorganism*** |
|---|
| *Escherichia coli (-R)* |
| *Pseudomonas fluorescens (-R)* |
| *Proteus mirabilis (-R)* |
| *Staphylococcus aureus (+C)* |
| *Enterococcus (+C)* |

### Sampling

Sampling not recommended – See "Testing FabGuard"

### Relevant Reports

E.Coli: NY Product Testing & Services results

## Helix Filter

### Overview

Vault/Pipe-in-Pipe Retrofit housing helical filter segments containing "FabGuard" (Aegis Antimicrobial-treated foam) to target pathogens in stormwater.

### Performance

Flow: Varies by diameter & system size

Effective against:

| ***Microorganism*** |
|---|
| *Escherichia coli (-R)* |
| *Pseudomonas fluorescens (-R)* |
| *Proteus mirabilis (-R)* |
| *Staphylococcus aureus (+C)* |
| *Enterococcus (+C)* |

### Sampling

Sampling not recommended – See "Testing FabGuard"

### Relevant Reports

E.Coli & Enterococci: EPA Helix Efficacy Review, E. Coli Report, Enterococci Report

E.Coli & Enterococci: LIAL Column Test