

# Gullywasher<sup>®</sup>

STORM WATER MANAGEMENT & EROSION CONTROL PRODUCTS



**Storm Drain Catch Basins**

# Gullywasher<sup>®</sup>: It works

## METAL-COMPLIANT CATCH BASIN INSERTS

The environmental authorities throughout the US are starting to focus on the non-tolerance of any metal contaminant going into a Superfund-designated watercourse - whether it be a pond, lake, river, bay or shoreline.

The prior art for metals removal in storm water lacked robustness and removal efficiency. This is primarily due to the lack of expertise and understanding in the field of separations when applying to storm water.



## INTERCHANGABLE WITH OUR LESS-EXPENSIVE SEDIMENT OR SEDIMENT/OIL INSERTS

- **Getting Excellent Results That Matter:** We can achieve up to 92% removal of metals from the storm water. Organics and suspended solids are also removed efficiently with our technology.
- **Basket Technology:** Our patent-pending metals absorbers work best in a compacted interstitial-bridging environment. This provides far superior flow patterns to push the storm water contaminants through the absorber sites, minimizing the ability to channel the storm water flow through the absorber material.
- **Increased Safety:** Our basket technology increases worker safety in multiple ways. While basket is in place, the worker will not fall in past the basket and when the heavy metal basin grate is removed, it will hold everything in place and not let the dirty insert fall into the basin.
- **More Safety:** We have added patent-pending lift straps to our catch basin insert that will allow the operator(s) to lift our entire catch basin insert assembly without straining his/her back.
- **How to Grab an Easy Sample:** Our patent-pending sample pan is located right under the insert and directly catches the filtered storm water prior to overflowing into the catch basin. By lifting our assembly out of the catch basin, the operator can easily take the sample pan out and pour directly into the sample test bottles.
- **Maintaining Healthy Water:** We made sure we did not change the basic nature of the storm water either by making it more aggressive or less healthy. We achieved this design goal by maintaining the same amounts of total dissolved solids (TDS) prior to and after treatment without the use of chemicals.
- **Green Disposal:** Our basket is a ONE time purchase and can be reused again and again. There is nothing to wear out. Our textile inserts are single use ONLY and their replacement costs are very reasonable.
- **Process Life Cycle:** Their process life cycle depends on a wide variety of factors which must be tested for at each site. As general basis for starting, we recommend replacing our catch basin inserts on a quarterly (3-month) basis.

# ks and we can prove it.

## FRAME MOUNTED VS. BASKET MOUNTED INSERTS

	FRAME MOUNTED	BASKET MOUNTED
Self Supporting Without Grate	YES	YES
Easy to Install & Maintain	YES	YES
Ergonomic Life Straps	YES	YES
Sediment Insert	YES	YES
Oil/Sediment Insert	YES	YES
Metals Compliant Insert	—	YES
Treated Water Sample Pan	—	YES

**The Heavy Duty Frame Mounted Insert** allows for the fabric insert to be mounted on a rectangular metal frame with the use of tabs that will catch and hold onto the corners of the frame. The metal frame is sized specifically for placing cleanly on the lip of the catch basin when the grate is removed.

The main design benefit is that the frame will completely self support the insert bag with the grate removed. There is no chance for the entire assembly to fall into the catch basin or worse be sucked downstream into the storm water distribution piping.

Through the use of lifting straps stitched into the fabric insert, the entire assembly can be ergonomically lifted out of the catch basin safely.



**The Heavy Duty Basket Mounted Insert** allows for the fabric insert to be placed into a basket and fixed in place through the use of fabric tabs that will catch and hold onto the corners of the basket's frame. The metal frame is sized specifically for placing cleanly on the lip of the catch basin when the grate is removed.

The main design benefit is that the frame will completely self support the insert bag with the grate removed. There is no chance for the entire assembly to fall into the catch basin or worse be sucked downstream into the storm water distribution piping.

The basket includes a sample pan that is located underneath the basket and will catch a significant portion of the treated storm water before continuously overflowing. Through the use of lifting straps stitched into the fabric insert, the entire assembly can be ergonomically lifted out of the catch basin safely. The sample pan can then be slide out of its holding area with its contents poured directly into laboratory sample bottles.

***Save your back while saving the environment:  
Gulleywashers' Ergonomic Basin Grate Puller***

# Gullywasher® Data for Stormwater Collection

All figures in units of Parts Per Billion (ppb); except for pH & Turbidity (NTU)

	26 September 2011 - Front Parking Lot			26 September 2011 - Back Alley		
Metals	PreFilter Inlet	PostFilter Outlet	% Removal	PreFilter Inlet	PostFilter Outlet	% Removal
Nickel	1.5	1.1	26.7%	3.8	0.86	77.4%
Copper	10	7.5	27.9%	28	10.6	62.1%
Zinc	40	24	40.5%	367	51.9	85.9%
Lead	2.9	3.1	-6.9%	60	12.2	79.6%
<b>TOTAL</b>	<b>54.3</b>	<b>35.2</b>	<b>35.2%</b>	<b>459</b>	<b>75.56</b>	<b>83.5%</b>
Oil & Grease	ND	ND	0.0%	1400	ND	100.0%
TSS	38000	8000	78.9%	90000	4000	95.6%
pH	6	6.4		6	6.4	

  

	14 April 2011 - Concentration Spike			25 April 2011 - Back Alley		
Metals	PreFilter Inlet	PostFilter Outlet	% Removal	PreFilter Inlet	PostFilter Outlet	% Removal
Chromium	881	98	88.9%	14.1	1.4	90.1%
Nickel	815	68.9	91.5%	12.5	1.4	88.8%
Copper	3540	616	82.6%	52	7.57	85.3%
Zinc	39700	2910	92.7%	897	126	86%
Lead	23800	2520	89.4%	202	16	92.1%
Turbidity	-	-	-	41	8.9	78.3%
<b>TOTAL</b>	<b>72668</b>	<b>6543</b>	<b>91%</b>	<b>1272.63</b>	<b>160.23</b>	<b>87.4%</b>

  

	12 January 2011 - Back Alley		
Metals	PreFilter Inlet	PostFilter Outlet	% Removal
Chromium	1.6	1.1	30.7%
Nickel	2.1	0	100%
Copper	10	3	70.1%
Zinc	812	16.9	97.9%
Lead	1.5	1.5	0%
<b>TOTAL</b>	<b>826</b>	<b>21.4</b>	<b>97.4%</b>

## Gullywasher® Product Line

The Gullywasher product line has been re-energized with design innovation and marketing engineering. Our focus is to be the top line product supplier for storm water management and erosion control.

### Stormwater Management

#### Frame Supported Catch Basin Inserts

- Sediment Removal
- Oil/Fuel & Sediment Removal

#### Basket Supported Catch Basin Inserts

- Oil/Fuel & Sediment Removal
- Metals Compliant Removal

#### Ergonomic Catch Basin Grate Puller

#### Spill Prevention

- Engine Diaper
- Transmission Diaper
- Hose End Diaper
- Hose Connection Diaper

#### Spill Cleanup of Soil

- Oil Gator

### Erosion Control

#### Ground Bladders

- 6" through 36" diameter x various lengths
- GeoSock Protective Covers
- GeoStrip Anchors and Hold Down Sleeves
- Sleeve Unions
- One Handed Jaw Clips

#### Culvert Extension Socks

- 18" through 30" diameter x 10' through 100' length

#### Dewatering Filter Bags

- Any Size Desired With Lots of Options

#### Interceptor Check Dam

- Any Size Desired With Lots of Options
- Outlet Hose Connection
- Fish & Debris Screen

### Flood Control & Weather Protection

#### Ground Bladders

- Building Protection
- Shoreline Protection
- Hillside Cover
- Road Savers
- Cofferdams
- Temporary Roof & Wall Cover

#### Boil Buster

- Emergency Dike Management

#### Containment Booms

- Air Inflated Hard Boom
- Absorbent Boom

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**STORM WATER MANAGEMENT &**  
**EROSION CONTROL PRODUCTS**

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