

ERTEC Environmental Systems

Protecting the Integrity of Global Lands and Waterways™

Case Study Curb Inlet Guard™



- > Lower Costs
- > Better Performance



Rapid installation



Post storm—easy to monitor, clean, and remove. The gravel bags serve to slow water velocity, fostering greater sediment removal

Application: Drain Inlet Protection — New Home Subdivision
Product: ERTEC Curb Inlet Guard™ for curb openings
Location: Southern California
Customer: Lennar Homes, San Diego Division
Project dates: During calendar years 2006-2007

Curb Inlet Guard is a low cost, four layer system designed to reduce sedimentation and debris into curbside drain inlets during construction. It is an important part of a comprehensive Best Management Practice approach for site sediment control. The system is designed to optimize the important trade-off between safety (allowing storm water to flow off the street) and removing sediment. The integrated filter has a vertical height of 2 inches to allow water to bypass during high flow conditions. Installation and maintenance is rapid. Modular 74" segments fit 5' openings and neatly overlap for longer curb inlet openings. Variable bracket height allows adjustment for different size openings. The system has a long life, is resistant to traffic, and reusable. The units are made from durable and recyclable HDPE.

The Challenge: Over the course of a home construction project, current systems require high maintenance costs and often need to be completely replaced once or twice.

Alternatives: Current best practices include wattles, sandbags, fitted geotextile fabric, and rock bags. These non-technical approaches can lead to back-ups at the drain inlet, extra debris inside the storm drain, and are often not reusable.

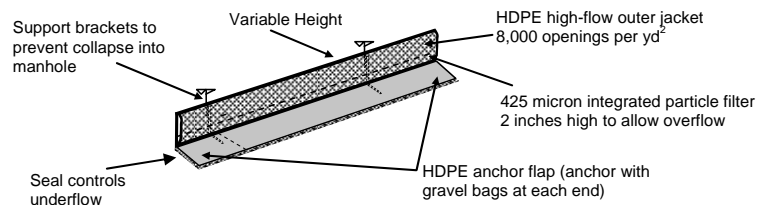
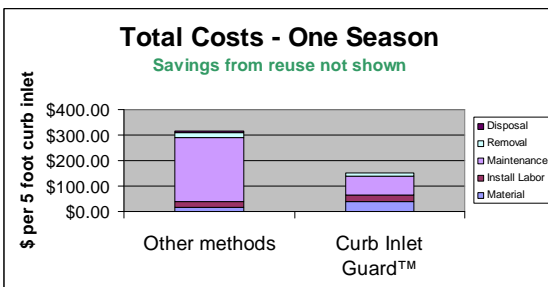
Solution: Curb Inlet Guards are installed with gravel bags on each end and at overlaps. One size fits all. Sections are overlapped for long openings. The gravel bags serve to anchor the system, and slow water before it reaches the filter.

Summary and results:

"Until now, we typically spent hundreds of dollars per season for each inlet for installation and maintenance of Curb Inlet protection BMPs. Curb Inlet Guard, because it is so easy to install and maintain, was able to reduce costs drastically. I've worked on both sides - fifteen years in environmental law enforcement, and now with a developer. This is the first product I've seen on the market that both the cities and the developers feel good about. It works well, is affordable, easy to install and maintain, and looks good," said Don Moore – Division Environmental Manager, Lennar.

Economics: While the first-cost is sometimes higher, Curb Inlet Guards typically have a significantly lower total cost per season than other systems. The savings come from:

- reduced installation costs
- reduced cleaning and maintenance costs and
- eliminate replacements—reusability will provide an even greater savings (not shown).



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