

# Hydroguard



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Hydroguard offers an ideal solution for urban runoff stormwater pollution.

The Hydroguard stormwater treatment structure efficiently removes suspended solids (and associated metals, nutrients and bacteria), oil, and trash from stormwater runoff fulfilling the requirements of most NPDES permits and Clean Water Act requirements.

It is the only stormwater treatment structure on the market that addresses

the need to treat low flows differently from high flows since the types of pollutants vary with flow rate.

Hydroguard's unique design treats both low and high flows, and contains them in separate treatment areas. The dual treatment area configuration allows Hydroguard to minimize scour and re-suspension of previously captured fines in the low flow treatment area during high flow conditions.

Hydroguard is available in five sizes ranging from 4 to 12 feet in diameter and 5 to 8.5 feet in depth.

Designed for the ultra-urban environment, Hydroguard offers many benefits to urban planners and civil engineers:

- Lower capital cost compared to other competitive structural stormwater quality measures
- Treats low and high flows
- Separate low flow path
- Minimizes scour at high flows
- Removes trash
- Captures oil spills

- Removes fine suspended solids
- Supports Smart Growth principles since Hydroguard is installed underground maximizing the development density potential
- Small footprint minimizes conflicts with other utilities
- Engineered for traffic loading and anti-buoyancy
- Minimal elevation difference between inlet and outlet pipe
- Can be used as a bend structure
- Sized based on local hydrology and continuous simulation
- Technical support to assist with design and approval
- Sales support to ensure timely and hassle-free ordering and delivery
- Minimal (annual) maintenance for typical applications
- Multiple access points for inspection and maintenance



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