Graham Bryant
Hydroworks, LLC
50 S. 21st Street, 2nd floor
Kenilworth, NJ 07033

Re: MTD Laboratory Test Certification for the Hydroguard by Hydroworks, LLC

Effective Date: September 1, 2011
Expiration Date: September 1, 2013
TSS Removal Rate: 50%

Dear Mr. Bryant:

The Stormwater Management Rules at N.J.A.C. 7:8 allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards provided that the pollutant removal rates have been verified by New Jersey Corporation for Advanced Technology, NJCAT, and certified by the New Jersey Department of Environmental Protection (NJDEP).

The certification process was revised through the “Transition for Manufactured Treatment Devices,” dated July 15, 2011. NJDEP has determined that Hydroguard by Hydroworks, LLC is consistent with the criteria under A. Manufactured Treatment Devices with Interim Certifications. Therefore, NJDEP certifies the use of the Hydroguard by Hydroworks, LLC with a 50% TSS removal rate, provided that the project design is consistent with the following conditions:

1. The model selected for the project design must be sized in accordance with Table 1 and based on the peak flow of the New Jersey Water Quality Design Storm as specified in N.J.A.C. 7:8-5.

2. The Hydroguard can only be used off-line. Any flow above the New Jersey Water Quality Design Storm must utilize an external bypass around the system.
3. A hydrodynamic separator, such as the Hydroguard, cannot be used in series with another hydrodynamic separator to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.

4. The maintenance plan for the sites using this device shall incorporate at a minimum, the maintenance requirements for the Hydroguard, attached.

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<th>Oil/Floating Trash Volume (^3) (ft) [gal]</th>
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<td>386</td>
<td>186 [1389]</td>
<td>7191</td>
<td>7.20 [3232]</td>
</tr>
</tbody>
</table>

In addition to the attached, any project with a Stormwater BMP subject to the Stormwater Management Rules, N.J.A.C. 7:8, must include a detailed maintenance plan. The detailed maintenance plan must include all of the items identified in Stormwater Management Rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance of the New Jersey Stormwater Best Management Manual.

NJDEP anticipates proposing further adjustments to this process through the readoption of the Stormwater Management Rules. Additional information regarding the implementation of the Stormwater Management Rules N.J.A.C. 7:8 are available at www.njstormwater.org. If you have any questions regarding the above information, please contact Ms. Sandra Blick of my office at (609) 633-7021.

Sincerely,

[Signature]

Ed Frankel, P.P., Acting Bureau Chief
Bureau of Nonpoint Pollution Control

C: Richard S. Magee, NJCAT
Chron file
Hydroworks Hydroguard

Maintenance Manual

Version 1.3
**Inspection**

**Procedure**

Although all parts of the Hydroguard should be inspected, inspection and maintenance should focus on the inner and middle chambers since this is where the pollutants (floatable and sinking) will accumulate.

**Floatables**

A visual inspection can be conducted for floatables by removing the covers and looking down into the separator. Multiple covers are provided on Hydroworks HG units to access all areas of the separator (The HG 4 may have a single larger (30" or 36") cover due to the lack of space for multiple 24" covers).

**TSS/Sediment**

Inspection for TSS build-up can be conducted using a Sludge Judge®, Core Pro®, AccuSludge® or equivalent sampling device that allows the measurement of the depth of TSS/sediment in the unit. These devices typically have a ball valve at the bottom of the tube that allows water and TSS to flow into the tube when lowering the tube into the unit. Once the unit touches the bottom of the device, it is quickly pulled upward such that the water and TSS in the tube forces the ball valve closed allowing the user to see a full core of water/TSS in the unit. The unit should be inspected for TSS through each of the access covers. Several readings (2 or 3) should be made at each access cover to ensure that an accurate TSS depth measurement is recorded.

**Frequency**

**Construction Period**

The HG separator should be inspected every two weeks and after every large storm (over 0.5" of rain) during the construction period.

**Post-Construction Period**

The Hydroworks HG separator should be inspected once per year for normal stabilized sites (grassed or paved areas). If the unit is subject to oil spills or runoff from unstabilized areas (storage piles, exposed soils) the HG separator should be inspected more frequently (4 times per year). An initial annual inspection will indicate the required future frequency of maintenance if the unit was maintained after the construction period.

**Reporting**

Reports should be prepared as part of each inspection and include the following information:

1. Date of inspection
2. GPS coordinates of Hydroworks unit
3. Time since last rainfall
4. Date of last inspection
5. Installation deficiencies (missing parts, incorrect installation of parts)
6. Structural deficiencies (concrete cracks, broken parts)
7. Operational deficiencies (leaks, blockages)
8. Presence of oil sheen or depth of oil layer
9. Estimate of depth/volume of floatables (trash, leaves) captured
10. Sediment depth measured
11. Recommendations for any repairs and/or maintenance for the unit
12. Estimation of time before maintenance is required if not required at time of inspection

A sample inspection checklist is provided at the end of this manual.

**Maintenance**

**Procedure**

The Hydroworks HG unit is typically maintained using a vactor truck or clam shell bucket. There are numerous companies that can maintain the HG separator. Envirocalm, LLC, an affiliate company of Hydroworks offers inspection and maintenance services and can inspect and maintain the HG separator. (www.envirocalm.com).

Disposal of the contents of the separator depend on local requirements. Maintenance of a Hydroworks HG unit will typically take 1 to 2 hours.

**Frequency**

**Construction Period**

A HG separator can fill with construction sediment quickly during the construction period. The construction sediment will have a much coarser particle size distribution than the suspended solids during the post-development period. Accordingly, scour is not so much of a concern during the construction period compared to the separator filling up with solids. The Hydroguard must be maintained during the construction period when the depth of TSS/sediment reaches 27". This represents 75% of the maximum sediment storage capacity. It must also be maintained during the construction period if there is an appreciable depth of oil in the unit (more than a sheen) or if floatables other than oil cover over 50% of the open water surface on the inlet side of the outlet baffle wall.

The HG separator should be maintained at the end of the construction period, prior to utilization for the post-construction period.

**Post-Construction Period**

The Hydroguard was independently tested by Alden Research Laboratory in 2008. A HG 6 was tested for scour with initial sediment loads of 4.6 ft$^3$ and 9.3 ft$^3$. The results from these tests were almost identical. Therefore, the 9.3 ft$^3$ sediment load was used as 50% of the maximum sediment depth for maintenance in the calculation of the
maintenance interval for the HG 6 separator based on the NJDEP maintenance interval equation.

Maintenance Interval (months) = 3.565 x (Sediment Storage) / (MTFR x TSS Removal)

Maintenance Interval (HG6) = 3.565 x 9.3 / (1.67x 0.55) = 36 months

All values (flow, sediment storage) can be scaled by the surface area making the sediment depths and maintenance intervals equal for all separators.

The separator was loaded with the sediment in the inner chamber and middle chamber with the majority of sediment (80%) located in the inner chamber. The inner chamber area represents approximately 44% of the separator surface area. The inner chamber is 4 ft in diameter in the HG 6. Therefore the 50% sediment depth for the HG6 in the inner chamber would be:

9.3 ft³ x 0.80 / (3.14 x 4 ft²) x 12 in/ft = 7.1 inches

Accordingly the 100% sediment volume would represent 14.2” of sediment depth in the inner chamber.

The HG separator must be maintained if there is an appreciable depth of oil in the unit (more than a sheen) or if floatables other than oil cover over 50% of the open water surface on the inlet side of the outlet baffle wall. It should also be maintained once the accumulated TSS/sediment depths are greater than 7” in the inner chamber. For typical stabilized post-construction sites (parking lots, streets) it is anticipated that maintenance will be required annually or once every two years. More frequent or less frequent maintenance will be required depending on individual site conditions (traffic use, stabilization, storage piles, etc.). The long term maintenance frequency can be established based on the maintenance requirements during the first several years of operation if site conditions do not change.
HYDROGUARD INSPECTION SHEET

Date
Date of Last Inspection

Site
City
State
Owner

GPS Coordinates

Date of last rainfall

Site Characteristics

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil erosion evident</td>
<td>□</td>
</tr>
<tr>
<td>Exposed material storage on site</td>
<td>□</td>
</tr>
<tr>
<td>Large exposure to leaf litter (lots of trees)</td>
<td>□</td>
</tr>
<tr>
<td>High traffic (vehicle) area</td>
<td>□</td>
</tr>
</tbody>
</table>

Hydroguard

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incorrect access orientation</td>
<td>□</td>
</tr>
<tr>
<td>Obstructions in the inlet or outlet</td>
<td>□</td>
</tr>
<tr>
<td>Missing internal components</td>
<td>□</td>
</tr>
<tr>
<td>Improperly installed internal components</td>
<td>□</td>
</tr>
<tr>
<td>Improperly installed inlet or outlet pipes</td>
<td>□</td>
</tr>
<tr>
<td>Internal component damage (cracked, broken, loose pieces)</td>
<td>□</td>
</tr>
<tr>
<td>Floating debris in the separator (oil, leaves, trash)</td>
<td>□</td>
</tr>
<tr>
<td>Large debris visible in the separator</td>
<td>□</td>
</tr>
<tr>
<td>Concrete cracks/deficiencies</td>
<td>□</td>
</tr>
<tr>
<td>Exposed rebar</td>
<td>□</td>
</tr>
<tr>
<td>Water seepage (water level not at outlet pipe invert)</td>
<td>□</td>
</tr>
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</table>

Water level depth below outlet pipe invert

Routine Measurements

<table>
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<tr>
<th>Yes</th>
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<tbody>
<tr>
<td>Floating debris depth</td>
<td>&lt; 0.5” □</td>
</tr>
<tr>
<td>Floating debris coverage</td>
<td>&lt; 25% of separator area □</td>
</tr>
<tr>
<td>Sludge depth</td>
<td>&lt; 7” □</td>
</tr>
</tbody>
</table>

Other Comments:

_____________________________________________________

_____________________________________________________

* Maintenance required
** Repairs required
*** Further investigation is required

Please call Hydroworks at 888-290-7900 or email us at support@hydroworks.com if you have any questions regarding the Inspection Checklist. Please fax a copy of the completed checklist to Hydroworks at 888-783-7271 for our records.
Graham Bryant  
Hydroworks, LLC  
50 S. 21ST St., 2nd floor,  
Kenilworth, NJ 07033

Re: Conditional Interim Certification for the Hydroguard by Hydroworks, LLC

Expiration Date: May 15, 2011  
TSS Removal Rate: 50%

Dear Mr. Bryant:

The Stormwater Management Rules under N.J.A.C. 7:8-5.5(b) and 5.7(c) allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards at N.J.A.C. 7:8-5 if the pollutant removal rates have been verified by the New Jersey Corporation for Advanced Technology (NJCAT) and have been certified by the New Jersey Department of Environmental Protection (NJDEP).

The certification process has been revised. The revised process places MTDs into five categories. The Hydroguard by Hydroworks, LLC has been qualified for Category IV, MTDs within the Testing Portion of the NJCAT Verification Process as of May 15, 2009.

The Hydroguard, shown in figure 1, is a hydrodynamic treatment system comprised of a manhole that establishes multiple flow paths to remove sediments from runoff.

The NJDEP received the submitted data demonstrating the above approved TSS Removal Rate, a maintenance plan required under Category IV, and a signed statement by the NJCAT Executive Director and the manufacturer indicating that the December 2003 Total Suspended Solids Lab Testing Procedure and the June 28, 2006 Particle Size Distribution Requirements have been met. This certification is based solely on the documentation submitted by Hydroworks and the verification of such documentation by NJCAT.
The NJDEP certifies the use of the Hydroguard by Hydroworks, LLC at a TSS removal rate of 50%, subject to the following conditions:

1. The Hydroguard is designed according to the NJ Water Quality Design Storm in N.J.A.C. 7:8-5.5.

2. The various models and associated water quality flow capacities shall be sized for the peak flow of the New Jersey water quality design storm per N.J.A.C. 7:8-5, as shown in Table 1.

Table 1: Hydroworks HG Separator Dimensions* and Flow Rates

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3. The Hydroguard is certified as an off-line system only. Any flow above the New Jersey water quality design storm must be bypassed around the system.

4. A hydrodynamic separator, such as Hydroguard, cannot be used in series with another settling device to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.

5. The maintenance plan for sites using this device shall incorporate, at a minimum, the maintenance requirements for the Hydroguard shown in the attachment entitled "Hydroworks Hydroguard Maintenance Manual, Version 1.3"

In addition to the attached, the detailed maintenance plan must include all of the items identified in Chapter 8: Maintenance of the New Jersey Stormwater Best Management Manual. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional operation and maintenance information associated with this manufactured treatment device is available from the vendor to assist in the development of a complete maintenance plan.

Additional information regarding the implementation of the Stormwater Management rules N.J.A.C. 7:8 are available at www.njstormwater.org. Please contact Ms. Rhea Wienberg Brekke of NJCAT at 609 499 3600 ext. 227 if you have any questions.

Sincerely,

Nancy Wittenberg
Assistant Commissioner

Enclosure

c: Tom Micai, NJDEP
   Mary Beth Brenner, NJDEP
   Rhea Weinberg Brekke, NJCAT
**Inspection**

**Procedure**

Although all parts of the Hydroguard should be inspected, inspection and maintenance should focus on the inner and middle chambers since this is where the pollutants (floatable and sinking) will accumulate.

**Floatables**

A visual inspection can be conducted for floatables by removing the covers and looking down into the separator. Multiple covers are provided on Hydroworks HG units to access all areas of the separator (The HG 4 may have a single larger (30" or 36") cover due to the lack of space for multiple 24" covers).

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**Frequency**

**Construction Period**

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**Post-Construction Period**

The Hydroworks HG separator should be inspected once per year for normal stabilized sites (grassed or paved areas). If the unit is subject to oil spills or runoff from unstabilized areas (storage piles, exposed soils) the HG separator should be inspected more frequently (4 times per year). An initial annual inspection will indicate the required future frequency of maintenance if the unit was maintained after the construction period.

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Reports should be prepared as part of each inspection and include the following information:

1. Date of inspection
2. GPS coordinates of Hydroworks unit
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11. Recommendations for any repairs and/or maintenance for the unit
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Disposal of the contents of the separator depend on local requirements. Maintenance of a Hydroworks HG unit will typically take 1 to 2 hours.

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The HG separator should be maintained at the end of the construction period, prior to utilization for the post-construction period.

**Post-Construction Period**

The Hydroguard was independently tested by A Iden Research Laboratory in 2008. A HG 6 was tested for scour with initial sediment loads of 4.6 ft³ and 9.3 ft³. The results from these tests were almost identical. Therefore, the 9.3 ft³ sediment load was used as 50% of the maximum sediment depth for maintenance in the calculation of the
maintenance interval for the HG 6 separator based on the NJDEP maintenance interval equation.

Maintenance Interval (months) = $3.565 \times (\text{Sediment Storage}) / (\text{MTFR} \times \text{TSS Removal})$

Maintenance Interval (HG6) = $3.565 \times 9.3 / (1.67 \times 0.55) = 36$ months

All values (flow, sediment storage) can be scaled by the surface area making the sediment depths and maintenance intervals equal for all separators.

The separator was loaded with the sediment in the inner chamber and middle chamber with the majority of sediment (80%) located in the inner chamber. The inner chamber area represents approximately 44% of the separator surface area. The inner chamber is 4 ft in diameter in the HG 6. Therefore the 50% sediment depth for the HG6 in the inner chamber would be:

$9.3 \text{ ft}^3 \times 0.80 / (3.14 \times 4 \text{ ft}^2) \times 12 \text{ in/ft} = 7.1 \text{ inches}$

Accordingly the 100% sediment volume would represent 14.2" of sediment depth in the inner chamber.

The HG separator must be maintained if there is an appreciable depth of oil in the unit (more than a sheen) or if floatables other than oil cover over 50% of the open water surface on the inlet side of the outlet baffle wall. It should also be maintained once the accumulated TSS/sediment depths are greater than 7" in the inner chamber. For typical stabilized post-construction sites (parking lots, streets) it is anticipated that maintenance will be required annually or once every two years. More frequent or less frequent maintenance will be required depending on individual site conditions (traffic use, stabilization, storage piles, etc.). The long term maintenance frequency can be established based on the maintenance requirements during the first several years of operation if site conditions do not change.
HYDROGUARD INSPECTION SHEET

Date

Date of Last Inspection

Site

City

State

Owner

GPS Coordinates

Date of last rainfall

Site Characteristics
Soil erosion evident
Exposed material storage on site
Large exposure to leaf litter (lots of trees)
High traffic (vehicle) area

Yes
No

Hydroguard
Incorrect access orientation
Obstructions in the inlet or outlet
Missing internal components
Improperly installed internal components
Improperly installed inlet or outlet pipes
Internal component damage (cracked, broken, loose pieces)
Floating debris in the separator (oil, leaves, trash)
Large debris visible in the separator
Concrete cracks/deficiencies
Exposed rebar
Water seepage (water level not at outlet pipe invert)

Yes
No

Water level depth below outlet pipe invert

Routine Measurements
Floating debris depth < 0.5” [ ] > 0.5” [ ] *
Floating debris coverage < 25% of separator area [ ]
Sludge depth < 7” [ ] > 7” [ ] *

> 25% [ ] *

Other Comments:

________________________________________________________

________________________________________________________

* Maintenance required
** Repairs required
*** Further investigation is required

Please call Hydroworks at 888-290-7900 or email us at support@hydroworks.com if you have any questions regarding the Inspection Checklist. Please fax a copy of the completed checklist to Hydroworks at 888-783-7271 for our records.