



Scott Walker, Governor
Dave Ross, Secretary

August 06, 2015

CUST ID No. 1324713

JIM LUEDEKE
COUNTY MATERIALS CO
W140 N5856 LILLY RD
MENOMONEE FALLS WI 53051

PLAN APPROVAL EXPIRES: 08/31/2020

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: HYDROWORKS, LLC
Product Name: HYDROGUARD HG 4 (trans id 2578157)
Model Number(s): HG4
[HYDRODYNAMIC, VORTEX SW TREATMENT SEPARATOR]
Product File No: 20150188

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of August 2020.**

This approval supersedes the approval issued on 10/04/2010 under product file number 20100377.

This approval is contingent upon compliance with the following stipulation(s):

- Any wastewater or waste materials (e.g., sludge, or scum) withdrawn from these systems must be disposed of in accordance with ch. NR 113.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. SPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by department staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1.
- Written approval for the plumbing plans shall be obtained from the department for each installation of this system. If the project is located within the city of Milwaukee, plans may be submitted to either the department or to the city of Milwaukee.

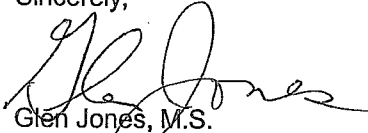
Identification Numbers
Transaction ID No. 2578157
Site ID No.
Please refer to both identification numbers, above, in all correspondence with the agency.

- This product must be installed in a department-approved tank that meets the design criteria for this product, as specified by Hydroworks.
- Labeling: The Hydroworks, Hydroguard series is permanently labeled as follows (as listed in HG Series Labeling Details, ver. 1.0):
 - 1) The Hydroworks logo and coding numbers are painted on the mono-base (each manhole riser); the coding indicates the project, structure ID/location and stacking sequence for installation purposes. Labels generally are painted twice on the product at 180 degrees apart.
 - 2) The model number is not painted on either product, but the model series corresponds to the diameter of the mono-base; for example, the Hydroguard HG-4 has a 4-ft. diameter.
- Inspection and maintenance of each installation of this product shall be conducted when the TSS/sediment reaches 30 inches or when floatables or oils cover > 50% surface. Anticipated maintenance intervals are 1 to 2 years.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Note: Information on how to access SLAMM and P8 and the average annual rainfall files for five locations in the state, as published periodically by the department, is available at:
<http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- Pollutant loading models such as DETPOND, SLAMM, P8 or equivalent methodology may be used to evaluate the efficiency of the design in reducing total suspended solids. Information on how to access these models is available at: <http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1. Each site-specific installation shall be submitted for review and include acceptable methods, modeling, or analysis to predict efficiency for TSS and oil & grease removal.
- This manhole riser/catch basin must be designed to withstand the loads to which it will be subjected. All manhole covers terminating above grade must have effective locking devices.
- Installation-- The installation of this product shall maintain a working emergency overflow or outlet pipe. Each installation shall conform to Hydroguard Installation Instructions (ver. 1.2).
- Maintenance: The Hydroworks, Hydroguard series maintenance is as follows (as listed in Hydroworks Hydroguard Technical Manual, ver. 2.2):
 - 1) In addition to a 12-month maintenance interval for stabilized sites, inspection is provided via an access cover where TSS depth measurements maybe made after each large storm event.
 - 2) Visual inspection of floatables may be made via the access cover.
 - 3) For parking lots and stabilized sites, a 24-month interval is recommended for grease and oil removal.
 - 4) TSS and trash removal may be made using a vactor truck.
- These devices must be installed, maintained and serviced as directed by the manufacturer to perform as advertised.
- Description-- The HYDROGUARD HG-SERIES are hydrodynamic, vortex separator devices designed as vertically-oriented cylinders with dual flow paths. The model number corresponds to the structure's inside diameter in feet.

- Maximum storage capacity: total sediment storage—38 cu ft; oil storage—76 gallons.
Maximum flow rates: design flow—0.8 cfs.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,



Glen Jones, M.S.
POWTS Product Reviewer
phone: (608) 267-5265
fax: (608) 267-9723
email: glen.jones@wi.gov

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August 06, 2015

Identification Numbers
Transaction ID No. 2578168
Site ID No.
Please refer to both identification numbers, above, in all correspondence with the agency.

CUST ID No. 1324713

JIM LUEDEKE
COUNTY MATERIALS CO
W140 N5856 LILLY RD
MENOMONEE FALLS WI 53051

PLAN APPROVAL EXPIRES: 08/31/2020

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: HYDROWORKS, LLC
Product Name: HYDROGUARD HG 6 (trans id 2578168)
Model Number(s): HG 6
[HYDRODYNAMIC, VORTEX SW TREATMENT SEPARATOR]
Product File No: 20150189

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of August 2020.**

This approval supersedes the approval issued on 10/07/2010 under product file number 20100378.

This approval is contingent upon compliance with the following stipulation(s):

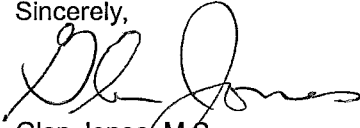
- Any wastewater or waste materials (e.g., sludge, or scum) withdrawn from these systems must be disposed of in accordance with ch. NR 113.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. SPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by department staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1.
- Written approval for the plumbing plans shall be obtained from the department for each installation of this system. If the project is located within the city of Milwaukee, plans may be submitted to either the department or to the city of Milwaukee.

- This product must be installed in a department-approved tank that meets the design criteria for this product, as specified by Hydroworks.
- Labeling: The Hydroworks, Hydroguard series is permanently labeled as follows (as listed in HG Series Labeling Details, ver. 1.0):
 - 1) The Hydroworks logo and coding numbers are painted on the mono-base (each manhole riser); the coding indicates the project, structure ID/location and stacking sequence for installation purposes. Labels generally are painted twice on the product at 180 degrees apart.
 - 2) The model number is not painted on either product, but the model series corresponds to the diameter of the mono-base; for example, the Hydroguard HG-4 has a 4-ft. diameter.
- Inspection and maintenance of each installation of this product shall be conducted when the TSS/sediment reaches 30 inches or when floatables or oils cover > 50% surface. Anticipated maintenance intervals are 1 to 2 years.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Note: Information on how to access SLAMM and P8 and the average annual rainfall files for five locations in the state, as published periodically by the department, is available at:
<http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- Pollutant loading models such as DETPOND, SLAMM, P8 or equivalent methodology may be used to evaluate the efficiency of the design in reducing total suspended solids. Information on how to access these models is available at: <http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1. Each site-specific installation shall be submitted for review and include acceptable methods, modeling, or analysis to predict efficiency for TSS and oil & grease removal.
- This manhole riser/catch basin must be designed to withstand the loads to which it will be subjected. All manhole covers terminating above grade must have effective locking devices.
- Installation-- The installation of this product shall maintain a working emergency overflow or outlet pipe. Each installation shall conform to Hydroguard Installation Instructions (ver. 1.2).
- Maintenance: The Hydroworks, Hydroguard series maintenance is as follows (as listed in Hydroworks Hydroguard Technical Manual, ver. 2.2):
 - 1) In addition to a 12-month maintenance interval for stabilized sites, inspection is provided via an access cover where TSS depth measurements maybe made after each large storm event.
 - 2) Visual inspection of floatables may be made via the access cover.
 - 3) For parking lots and stabilized sites, a 24-month interval is recommended for grease and oil removal.
 - 4) TSS and trash removal may be made using an evactor truck.
- These devices must be installed, maintained and serviced as directed by the manufacturer to perform as advertised.
- Description-- The HYDROGUARD HG-SERIES are hydrodynamic, vortex separator devices designed as vertically-oriented cylinders with dual flow paths. The model number corresponds to the structure's inside diameter in feet.

- Maximum storage capacity: total sediment storage—92 cu ft; oil storage—203 gallons.
Maximum flow rates: design flow—1.8 cfs.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,



Glen Jones, M.S.
POWTS Product Reviewer
phone: (608) 267-5265
fax: (608) 267-9723
email: glen.jones@wi.gov

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Scott Walker, Governor
Dave Ross, Secretary

August 06, 2015

Identification Numbers
Transaction ID No. 2578172
Site ID No.
Please refer to both identification numbers, above, in all correspondence with the agency.

CUST ID No. 1324713

JIM LUEDEKE
COUNTY MATERIALS CO
W140 N5856 LILLY RD
MENOMONEE FALLS WI 53051

PLAN APPROVAL EXPIRES: 08/06/2017

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: HYDROWORKS, LLC
Product Name: HYDROGUARD HG 8 (trans id 2578172)
Model Number(s): HG 8
[HYDRODYNAMIC, VORTEX SW TREATMENT SEPARATOR]
Product File No: 20150190

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of August 2020.**

This approval supersedes the approval issued on 10/07/2010 under product file number 20100379.

This approval is contingent upon compliance with the following stipulation(s):

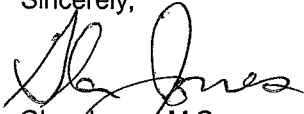
- Any wastewater or waste materials (e.g., sludge, or scum) withdrawn from these systems must be disposed of in accordance with ch. NR 113.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. SPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by department staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1.
- Written approval for the plumbing plans shall be obtained from the department for each installation of this system. If the project is located within the city of Milwaukee, plans may be submitted to either the department or to the city of Milwaukee.
- This product must be installed in a department-approved tank that meets the design criteria for this product, as specified by Hydroworks.

- Labeling: The Hydroworks, Hydroguard series is permanently labeled as follows (as listed in HG Series Labeling Details, ver. 1.0):
 - 1) The Hydroworks logo and coding numbers are painted on the mono-base (each manhole riser); the coding indicates the project, structure ID/location and stacking sequence for installation purposes. Labels generally are painted twice on the product at 180 degrees apart.
 - 2) The model number is not painted on either product, but the model series corresponds to the diameter of the mono-base; for example, the Hydroguard HG-4 has a 4-ft. diameter.
- Inspection and maintenance of each installation of this product shall be conducted when the TSS/sediment reaches 30 inches or when floatables or oils cover > 50% surface. Anticipated maintenance intervals are 1 to 2 years.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Note: Information on how to access SLAMM and P8 and the average annual rainfall files for five locations in the state, as published periodically by the department, is available at:
<http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- Pollutant loading models such as DETPOND, SLAMM, P8 or equivalent methodology may be used to evaluate the efficiency of the design in reducing total suspended solids. Information on how to access these models is available at: <http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1. Each site-specific installation shall be submitted for review and include acceptable methods, modeling, or analysis to predict efficiency for TSS and oil & grease removal.
- This manhole riser/catch basin must be designed to withstand the loads to which it will be subjected. All manhole covers terminating above grade must have effective locking devices.
- Installation-- The installation of this product shall maintain a working emergency overflow or outlet pipe. Each installation shall conform to Hydroguard Installation Instructions (ver. 1.2).
- Maintenance: The Hydroworks, Hydroguard series maintenance is as follows (as listed in Hydroworks Hydroguard Technical Manual, ver. 2.2):
 - 1) In addition to a 12-month maintenance interval for stabilized sites, inspection is provided via an access cover where TSS depth measurements maybe made after each large storm event.
 - 2) Visual inspection of floatables may be made via the access cover.
 - 3) For parking lots and stabilized sites, a 24-month interval is recommended for grease and oil removal.
 - 4) TSS and trash removal may be made using an evactor truck.
- These devices must be installed, maintained and serviced as directed by the manufacturer to perform as advertised.
- Description-- The HYDROGUARD HG-SERIES are hydrodynamic, vortex separator devices designed as vertically-oriented cylinders with dual flow paths. The model number corresponds to the structure's inside diameter in feet.

- Maximum storage capacity: total sediment storage—163 cu ft; oil storage—457 gallons.
Maximum flow rates: design flow—3.2 cfs.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,



Glen Jones, M.S.
POWTS Product Reviewer
phone: (608) 267-5265
fax: (608) 267-9723
email: glen.jones@wi.gov

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Scott Walker, Governor
Dave Ross, Secretary

August 06, 2015

Identification Numbers
Transaction ID No. 2578176
Site ID No.
Please refer to both identification numbers, above, in all correspondence with the agency.

CUST ID No. 1324713

JIM LUEDEKE
COUNTY MATERIALS CO
W140 N5856 LILLY RD
MENOMONEE FALLS WI 53051

PLAN APPROVAL EXPIRES: 08/31/2020

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: HYDROWORKS, LLC
Product Name: HYDROGUARD HG 10 (trans id 2578176)
Model Number(s): HG 10
[HYDRODYNAMIC, VORTEX SW TREATMENT SEPARATOR]
Product File No: 20150191

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of August 2020.**

This approval supersedes the approval issued on 10/07/2010 under product file number 20100380.

This approval is contingent upon compliance with the following stipulation(s):

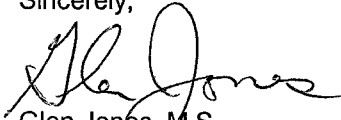
- Any wastewater or waste materials (e.g., sludge, or scum) withdrawn from these systems must be disposed of in accordance with ch. NR 113.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. SPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by department staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSDS 382.70-1.
- Written approval for the plumbing plans shall be obtained from the department for each installation of this system. If the project is located within the city of Milwaukee, plans may be submitted to either the department or to the city of Milwaukee.
- This product must be installed in a department-approved tank that meets the design criteria for this product, as specified by Hydroworks.

- Labeling: The Hydroworks, Hydroguard series is permanently labeled as follows (as listed in HG Series Labeling Details, ver. 1.0):
 - 1) The Hydroworks logo and coding numbers are painted on the mono-base (each manhole riser); the coding indicates the project, structure ID/location and stacking sequence for installation purposes. Labels generally are painted twice on the product at 180 degrees apart.
 - 2) The model number is not painted on either product, but the model series corresponds to the diameter of the mono-base; for example, the Hydroguard HG-4 has a 4-ft. diameter.
- Inspection and maintenance of each installation of this product shall be conducted when the TSS/sediment reaches 30 inches or when floatables or oils cover > 50% surface. Anticipated maintenance intervals are 1 to 2 years.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Note: Information on how to access SLAMM and P8 and the average annual rainfall files for five locations in the state, as published periodically by the department, is available at:
<http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- Pollutant loading models such as DETPOND, SLAMM, P8 or equivalent methodology may be used to evaluate the efficiency of the design in reducing total suspended solids. Information on how to access these models is available at: <http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1. Each site-specific installation shall be submitted for review and include acceptable methods, modeling, or analysis to predict efficiency for TSS and oil & grease removal.
- This manhole riser/catch basin must be designed to withstand the loads to which it will be subjected. All manhole covers terminating above grade must have effective locking devices.
- Installation-- The installation of this product shall maintain a working emergency overflow or outlet pipe. Each installation shall conform to Hydroguard Installation Instructions (ver. 1.2).
- Maintenance: The Hydroworks, Hydroguard series maintenance is as follows (as listed in Hydroworks Hydroguard Technical Manual, ver. 2.2):
 - 1) In addition to a 12-month maintenance interval for stabilized sites, inspection is provided via an access cover where TSS depth measurements maybe made after each large storm event.
 - 2) Visual inspection of floatables may be made via the access cover.
 - 3) For parking lots and stabilized sites, a 24-month interval is recommended for grease and oil removal.
 - 4) TSS and trash removal may be made using an evactor truck.
- These devices must be installed, maintained and serviced as directed by the manufacturer to perform as advertised.
- Description-- The HYDROGUARD HG-SERIES are hydrodynamic, vortex separator devices designed as vertically-oriented cylinders with dual flow paths. The model number corresponds to the structure's inside diameter in feet.

- Maximum storage capacity: total sediment storage—268 cu ft; oil storage—893 gallons.
Maximum flow rates: design flow—5.0 cfs.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,



Glen Jones, M.S.
POWTS Product Reviewer
phone: (608) 267-5265
fax: (608) 267-9723
email: glen.jones@wi.gov

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Scott Walker, Governor
Dave Ross, Secretary

August 06, 2015

Identification Numbers
Transaction ID No. 2578178
Site ID No.
Please refer to both identification numbers, above, in all correspondence with the agency.

CUST ID No. 1324713

JIM LUEDEKE
COUNTY MATERIALS CO
W140 N5856 LILLY RD
MENOMONEE FALLS WI 53051

PLAN APPROVAL EXPIRES: 08/30/2020

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: HYDROWORKS, LLC
Product Name: HYDROGUARD HG 12 (trans id 2578178)
Model Number(s): HG 12
[HYDRODYNAMIC, VORTEX SW TREATMENT SEPARATOR]
Product File No: 20150192

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of August 2020.**

This approval supersedes the approval issued on 10/07/2010 under product file number 20100381.

This approval is contingent upon compliance with the following stipulation(s):

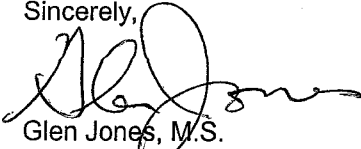
- Any wastewater or waste materials (e.g., sludge, or scum) withdrawn from these systems must be disposed of in accordance with ch. NR 113.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. SPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by department staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPS 382.70-1.
- Written approval for the plumbing plans shall be obtained from the department for each installation of this system. If the project is located within the city of Milwaukee, plans may be submitted to either the department or to the city of Milwaukee.
- This product must be installed in a department-approved tank that meets the design criteria for this product, as specified by Hydroworks.

- Labeling: The Hydroworks, Hydroguard series is permanently labeled as follows (as listed in HG Series Labeling Details, ver. 1.0):
 - 1) The Hydroworks logo and coding numbers are painted on the mono-base (each manhole riser); the coding indicates the project, structure ID/location and stacking sequence for installation purposes. Labels generally are painted twice on the product at 180 degrees apart.
 - 2) The model number is not painted on either product, but the model series corresponds to the diameter of the mono-base; for example, the Hydroguard HG-4 has a 4-ft. diameter.
- Inspection and maintenance of each installation of this product shall be conducted when the TSS/sediment reaches 30 inches or when floatables or oils cover > 50% surface. Anticipated maintenance intervals are 1 to 2 years.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Note: Information on how to access SLAMM and P8 and the average annual rainfall files for five locations in the state, as published periodically by the department, is available at:
<http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- Pollutant loading models such as DETPOND, SLAMM, P8 or equivalent methodology may be used to evaluate the efficiency of the design in reducing total suspended solids. Information on how to access these models is available at: <http://dnr.wi.gov/runoff/models/index.htm>
or by contacting the WDNR storm water management program at (608) 267-7694.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table DSPTS 382.70-1. Each site-specific installation shall be submitted for review and include acceptable methods, modeling, or analysis to predict efficiency for TSS and oil & grease removal.
- This manhole riser/catch basin must be designed to withstand the loads to which it will be subjected. All manhole covers terminating above grade must have effective locking devices.
- Installation-- The installation of this product shall maintain a working emergency overflow or outlet pipe. Each installation shall conform to Hydroguard Installation Instructions (ver. 1.2).
- Maintenance: The Hydroworks, Hydroguard series maintenance is as follows (as listed in Hydroworks Hydroguard Technical Manual, ver. 2.2):
 - 1) In addition to a 12-month maintenance interval for stabilized sites, inspection is provided via an access cover where TSS depth measurements maybe made after each large storm event.
 - 2) Visual inspection of floatables may be made via the access cover.
 - 3) For parking lots and stabilized sites, a 24-month interval is recommended for grease and oil removal.
 - 4) TSS and trash removal may be made using an evactor truck.
- These devices must be installed, maintained and serviced as directed by the manufacturer to perform as advertised.
- Description-- The HYDROGUARD HG-SERIES are hydrodynamic, vortex separator devices designed as vertically-oriented cylinders with dual flow paths. The model number corresponds to the structure's inside diameter in feet.

- Maximum storage capacity: total sediment storage—386 cu ft; oil storage—1389 gallons.
Maximum flow rates: design flow—7.2 cfs.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,



Glen Jones, M.S.
POWTS Product Reviewer
phone: (608) 267-5265
fax: (608) 267-9723
email: glen.jones@wi.gov

The DSPS is committed to service excellence. Visit our survey at:

www.surveymonkey.com/s/dpsiscustomersatisfaction