Specifications:

1. Any alternate equal must be independently tested to the 2002 NJDEP Laboratory Separator Protocol. Separator must be sized based on this data.

2. Alternate equal must be NETE Certified, MASTEP Verified, Massachusetts Plumbing Board approved and ConnDOT approved.

3. Any testing performed by the manufacturer and/or field testing is unacceptable to demonstrate an alternate equal.

4. Grab sampling has been deemed inaccurate by multiple independent agencies. Only mass balance testing will be accepted to verify an alternate equal.

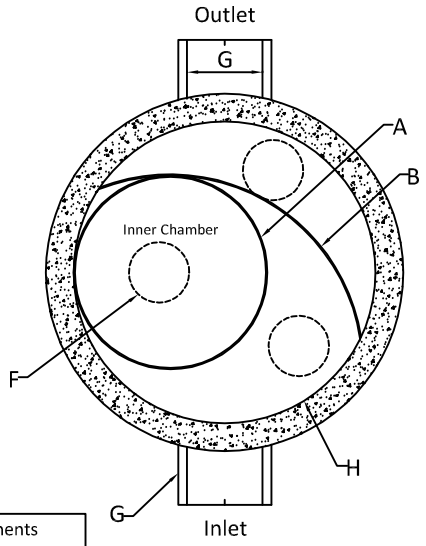
5. The separator must be designed based on the following criteria:

Flow Criteria	
Water Quality FLow Rate cfs (L/s)	
Peak Design Flow Rate cfs (L/s)	

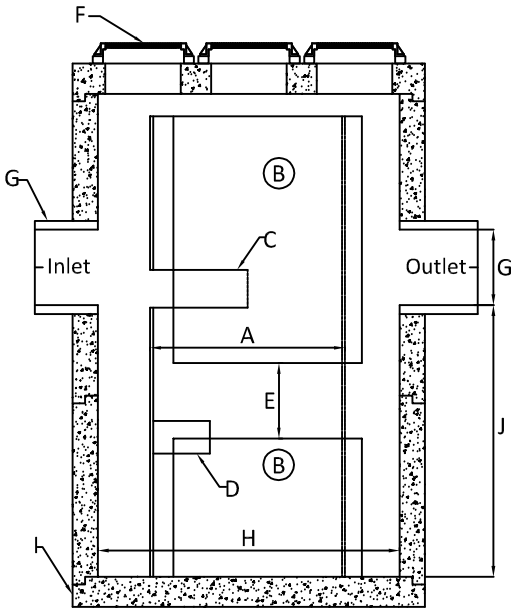
TSS Removal Criteria	
Annual TSS Removal (%)	
NJDEP/ETV Canada TSS	
OK110 Sand	
City of Toronto	
Other	

HydroGuard Components

A. Inner Chamber
B. Outer Baffle Wall
C. Inner Chamber Inlet
D. Inner Chamber Outlet
E. Outer Baffle Opening
F. Frame and Cover (Qty: 1-3)
G. Inlet and Outlet Pipes
H. Structure Diameter
I. Base Extension (HG4 - HG6)
J. Sump Depth



Plan



Profile

Hydroguard by Hydroworks, LLC
U.S. Patent No. 6,951,619
Canadian Patent No. 2,536,300
www.hydroworks.com
888-290-7900

Notes:

1. Headloss K factor of 1.6 for hydraulic gradeline calculations

2. Sump depths shown are typical. Additional depth can be added as required.

3. Drops greater than 4" allowed with custom trough attachment.

4. Inlet invert elevations should be the same or higher than the outlet invert elevation.

5. Solid Cover shown. HydroGuard can be desiged with an inlet grate if required.

6. Oil capacities given are spill capacities.

7. Sediment depths are maximum holding capacities and not recommended capacities for regular maintenance.

8. Capacities are rounded down to nearest 5 gal or ft3 (1L or 0.1 m3 for metric units)

9. Base Extensions are not provided on standard units larger than the HG 6. Extensions can be provided if required due to groundwater/buoyancy concerns at the request of the engineer of record.

10. HG4 model requires one cover. HG5 and HG6 models require two covers. HG7 to HG12 models require three covers.

Hydroguard Dimensions / Capacities

Model	Diameter [H] ft (m)	Sump Depth [J] ft (m)	Inner Chamber [A] Diam. in (m)	Max Pipe [G] Diam. in (mm)	Oil Spill Volume gal (L)	Sediment Volume ft3 (m3)	Total Volume gal (L)
HG 4	4 (1.2)	5 (1.5)	32 (0.8)	21 (535)	65 (246)	35 (0.9)	465 (1779)
HG 5	5 (1.5)	5.5 (1.7)	40 (1.0)	24 (610)	130 (492)	55 (1.5)	805 (3057)
HG 6	6 (1.8)	6 (1.8)	48 (1.2)	30 (760)	200 (757)	85 (2.4)	1265 (4803)
HG 7	7 (2.1)	6.5 (2.0)	56 (1.4)	36 (915)	310 (1173)	115 (3.2)	1870 (7082)
HG 8	8 (2.4)	7 (2.1)	64 (1.6)	42 (1065)	455 (1722)	145 (4.1)	2630 (9962)
HG 10	10 (3.0)	9 (2.7)	80 (2.0)	54 (1370)	855 (3236)	320 (9.0)	5285 (20014)
HG 12	12 (3.6)	10.5 (3.2)	96 (2.4)	60 (1524)	1500 (5678)	480 (13.5)	8880 (33624)

Hydroworks Hydroguard

PROJECT:

LOCATION:

REVISION DATE: 08/05/2020

Hydroworks