

**CHARLEMONT BOARD OF HEALTH**  
**DISPOSAL SYSTEM CONSTRUCTION CHECKLIST**

For use during Final System Inspection --Revised - 07/30/10

Street No. \_\_\_\_\_ Street Name \_\_\_\_\_ Today's Date \_\_\_\_\_

Owner name \_\_\_\_\_

Owner address \_\_\_\_\_

Identification of all buildings to be served by the system \_\_\_\_\_

**TYPE OF FACILITY:**

Single family dwelling

No. of bedrooms \_\_\_\_\_ Approved Design Flow \_\_\_\_\_

Approved Plan Date \_\_\_\_\_ If Revised, Revised Date Provided \_\_\_\_\_

P.E. or R.S. responsible for design of the system \_\_\_\_\_

If variances or Local Upgrade Approvals were given, list and check them:

\_\_\_\_\_

Installer's name and contact \_\_\_\_\_

Type of system: Gravity vs pumped \_\_\_\_\_ Pictures taken during inspection \_\_\_\_\_

**Specifications of the system:**

Temporary Bench Mark within 50 feet of system \_\_\_\_\_

All setbacks met \_\_\_\_\_

Dimensions of all system components, including reserve area \_\_\_\_\_

Location of all system components with setbacks \_\_\_\_\_

Location of all manholes and cleanouts \_\_\_\_\_

Building Sewer connected \_\_\_\_\_ Flush test conducted \_\_\_\_\_

Source of water supply - public system or private well \_\_\_\_\_

Location of water supply line \_\_\_\_\_

Location and setbacks of system components to:

Property lines (includes street lines) \_\_\_\_\_

Drain Pipes \_\_\_\_\_ Drain easements \_\_\_\_\_

Cellar wall \_\_\_\_\_ Slab foundation \_\_\_\_\_ Swimming pool \_\_\_\_\_

Public Wells or surface water supplies within 400 feet \_\_\_\_\_

Private wells within 200 feet \_\_\_\_\_

Bordering vegetated wetlands within 150 feet of project \_\_\_\_\_

Inland banks within 150 feet of project \_\_\_\_\_ Surface waters within 150 feet of project \_\_\_\_\_

Wetlands bordering surface water supply or tributaries \_\_\_\_\_

Streams subject to the River's Protection Act within 200 feet \_\_\_\_\_

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Detention/Retention Ponds within 100 feet \_\_\_\_\_  
Surface drains \_\_\_\_\_ Foundations drains \_\_\_\_\_  
Open, Surface or Subsurface drains which intercept high ground water \_\_\_\_\_  
Vernal Pool within 100 feet (Note whether or not certified) \_\_\_\_\_  
Storm drainage leaching catch basins or dry wells \_\_\_\_\_  
Downhill slope (Slope ratio included) \_\_\_\_\_  
Boundary of regulatory floodway \_\_\_\_\_ Boundary of 100 year flood limit \_\_\_\_\_  
Location of ALL soil pits near SAS \_\_\_\_\_  
Receiving industrial category or other prohibited wastewaters \_\_\_\_\_  
Residential system sized for garbage grinder \_\_\_\_\_ Checked kitchen \_\_\_\_\_  
Building Sewer Schedule 40 PVC or Cast Iron Pipe \_\_\_\_\_  
    1 % slope minimum - (2% minimum slope preferred) \_\_\_\_\_  
    Laid on a continuous gradient \_\_\_\_\_  
    Laid in a straight line as nearly as possible \_\_\_\_\_  
    Manholes with cast iron frames and covers to grade or Cleanout where allowed:  
        At changes in direction \_\_\_\_\_  
        At changes in gradient or \_\_\_\_\_  
        Junction of 2 or more sewers \_\_\_\_\_  
        Intervals no greater than 100 feet \_\_\_\_\_

**Materials of construction:**

Septic Tank           New \_\_\_\_\_           Used \_\_\_\_\_           If so, Inspected? \_\_\_\_\_  
Set on level base \_\_\_\_\_           Set on 6 inches of stone \_\_\_\_\_  
Tank volume \_\_\_\_\_           All Tanks Checked for Water-tightness \_\_\_\_\_  
Tank filled above side seam and tested \_\_\_\_\_           # of Hours of test \_\_\_\_\_  
Ground water elevation at tank \_\_\_\_\_           If any portion of tank below high ground water \_\_\_\_\_  
Buoyancy calculations \_\_\_\_\_           Buoyancy prevention for empty tank where indicated \_\_\_\_\_  
High Ground Water minimum 12 inches below outlet? \_\_\_\_\_  
Invert at septic tank inlet and outlet \_\_\_\_\_           Invert at distribution box inlet and outlet \_\_\_\_\_  
Inlet to leaching area component(s) \_\_\_\_\_           Bottom of leaching area elevation \_\_\_\_\_  
Finished ground elevation over lot and system components \_\_\_\_\_  
Ground water elevation at SAS location \_\_\_\_\_  
SAS Pipe Slope \_\_\_\_\_  
Compaction spec if in fill \_\_\_\_\_  
H-20 Loading if under vehicle or heavy load area \_\_\_\_\_  
Minimum of 9" of cover \_\_\_\_\_  
Risers over inlet tee, outlet tee, and center of tank \_\_\_\_\_  
Top of manholes/risers within 6 inches of grade \_\_\_\_\_  
Manholes to finished grade with cement frames and metal covers if under pavement \_\_\_\_\_  
H-20 loading if vehicle or heavy load area \_\_\_\_\_  
Outlet Gas Baffle or Effluent Filter \_\_\_\_\_           With riser to grade \_\_\_\_\_

**DISTRIBUTION BOX**

Minimum 12" x 12" internal dimensions \_\_\_\_\_           Material of construction \_\_\_\_\_  
Watertight cover \_\_\_\_\_           Manhole to grade if under paved area \_\_\_\_\_

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Minimum 6 inch sump (below outlet invert) \_\_\_\_\_  
Inlet baffle required by slope of pipe from septic tank or if dosing \_\_\_\_\_  
One outlet for each individual distribution line or leaching structure \_\_\_\_\_  
Riser to within 6" of cover \_\_\_\_\_

**LEACHING AREA (SAS)**

Elevation of SAS bottom \_\_\_\_\_  
Invert elevations of all piping \_\_\_\_\_  
Distribution piping for full length of all trench systems with stone \_\_\_\_\_  
Distance to side slope shown from top of pea stone \_\_\_\_\_  
Distance to side slope not less than 15 feet unless impervious barrier used \_\_\_\_\_  
Trench, field, chamber, galley, or pit system used \_\_\_\_\_  
Reserve Area for new systems protected \_\_\_\_\_  
Trench width \_\_\_\_\_ Trench length \_\_\_\_\_  
Depth of final cover \_\_\_\_\_ If longer than 50 feet connected and vented \_\_\_\_\_  
Long dimension of leaching area perpendicular to slope (follow contours) \_\_\_\_\_  
Distribution piping \_\_\_\_\_ PVC Sch 40 \_\_\_\_\_ Slope at 0.005 feet per foot \_\_\_\_\_  
Orifices 3/8 to 5/8 inch \_\_\_\_\_ Aggregate specified used \_\_\_\_\_  
Double washed 3/4" to 1 1/2" stone specified - free from dust and fines in place \_\_\_\_\_  
Minimum 2 inch layer double washed 1/8" to 1/2" stone above pipe crown and larger aggregate specified - free from dust and fines in place \_\_\_\_\_  
SAS observation port installed \_\_\_\_\_ In each trench \_\_\_\_\_

**FINAL GRADING**

Grading to reduce infiltration and minimize erosion \_\_\_\_\_  
2% slope minimum over leaching area and surrounding area \_\_\_\_\_  
Surface drainage away from system \_\_\_\_\_ No low spots that allow ponding of rain \_\_\_\_\_

**SYSTEMS IN FILL (fill shall not be placed during rain or snow storms)**

Limit of excavation clearly depicted \_\_\_\_\_  
Length and width of limit of excavation dimensioned \_\_\_\_\_  
Unsuitable material removed for 5 feet minimum \_\_\_\_\_  
Setback to side slope = 15 feet minimum \_\_\_\_\_  
Statement of fill specifications, sieve analysis provided \_\_\_\_\_  
Side slope shall not be steeper than 3 to 1 \_\_\_\_\_  
Impervious barrier used \_\_\_\_\_ Breakout setback at least 10' \_\_\_\_\_  
Toe of slope 5 feet from property line \_\_\_\_\_  
If slope > 3:1 use of concrete retaining wall \_\_\_\_\_ Approved by P.E. \_\_\_\_\_

**PUMP CHAMBER (Same water-tightness requirements for all tanks)**

Tank filled above side seam and tested \_\_\_\_\_ # of Hours of test \_\_\_\_\_  
Buoyancy calculated if any portion of pump chamber is below HGW \_\_\_\_\_  
Groundwater elevation 12 inches (min) below inlet or outlet pipes \_\_\_\_\_  
Dosing or pump chamber volume \_\_\_\_\_ Emergency storage capacity \_\_\_\_\_  
Storage allowance for flow-back drainage \_\_\_\_\_

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Number of dosing cycles \_\_\_\_\_ Depth per cycle \_\_\_\_\_  
24 inch manhole with riser and cover to grade \_\_\_\_\_

**PUMPS AND CONTROLS**

Floats checked \_\_\_\_\_ Pump on \_\_\_\_\_ Pump off \_\_\_\_\_  
Control panel with run-auto-off switch \_\_\_\_\_ Alarm with light and audible bell checked \_\_\_\_\_  
Alarm on separate power circuit \_\_\_\_\_ Alarm test switch \_\_\_\_\_  
Bell or buzzer silencer switch \_\_\_\_\_

**FORCE MAIN**

Full profile of force main \_\_\_\_\_ Check upward slope through out (No sags) \_\_\_\_\_  
Check drain-back capability \_\_\_\_\_  
Force main depth to prevent freezing or \_\_\_\_\_ Insulated fully if specified \_\_\_\_\_

**VENTS**

Required for:  
Trench lengths greater than 50 feet \_\_\_\_\_  
Any part of leaching area under impervious surface \_\_\_\_\_  
Any part of leaching area under traffic area \_\_\_\_\_  
One vent minimum for each trench \_\_\_\_\_  
Header invert to be above invert of distribution piping \_\_\_\_\_  
Located beyond impervious or traffic area or protected from damage \_\_\_\_\_  
Designed to prevent precipitation or animal access \_\_\_\_\_  
Backfilled to prevent seepage of surface water into system \_\_\_\_\_

**FINAL APPROVALS**

Permission given by BOH to cover components \_\_\_\_\_ By \_\_\_\_\_

Requirement for Designer As-built \_\_\_\_\_ Received \_\_\_\_\_

Requirement for Designer certification of construction \_\_\_\_\_ Received \_\_\_\_\_

Requirement for Installer certification of system construction \_\_\_\_\_ Received \_\_\_\_\_

Deed restrictions for system upgrade, I&A Technology, or number of bedrooms \_\_\_\_\_

Recorded on \_\_\_\_\_ Copy received by BOH \_\_\_\_\_

Certificate of Compliance issued \_\_\_\_\_ Date \_\_\_\_\_ By \_\_\_\_\_

Copy of completed COC sent to Building Inspector \_\_\_\_\_ Owner \_\_\_\_\_

Final Inspection completed by \_\_\_\_\_

Signature \_\_\_\_\_ (print name)  
Date \_\_\_\_\_