TITLE 5

OFFICIAL INSPECTION FOR - NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM PART A CERTIFICATION

Property	Address:	44	Stagecoach	Road,	Amherst.	MA
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Owner's Name: Noel Ryan

Owner's Address: 44 Stagecoach Raod

Amherst, MA 01002

Date of Inspection: December 5, 2002

Name of Inspector: <u>Alan E. Weiss</u>, <u>R.S # 933</u> Company Name: <u>Cold Spring Environmental Inc.</u>

Mailing Address: 350 Old Enfield Road

Belchertown, Massachusetts 01007

Telephone Number: (413) 323-5957 fax: 413-323-4916

CERTIFICATION STATEMENT

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of the inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on site sewage disposal systems. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000). The system:

XX Passes

_Conditionally Passes

Needs Further Evaluation by the Local Approving Authority

Fails

Inspector's Signature:

Date: December 5, 2002

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system is a shared system or has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Notes and Comments:

Septic Tank & leaching area was in good condition upon inspection. D. box liquid levels were level and not above any outlet inverts. S. Tank was pumped after inspection. Inspections found, all levels/stains were ok.

****This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same different conditions of use.

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CERTIFICATION (continued)

Property Address: 44 Stagecoach Road Owner: Ryan Date of Inspection: December 5, 2002
Inspection Summary: Check A,B,C,D or E / <u>ALWAYS</u> complete all of Section D
A. System Passes:
YES I have not found any information which indicates that any of the failure criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.
Comments: No signs of failure
B. System Conditionally Passes:
NO One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.
Answer yes, no or not determined (Y,N,ND) in the for the following statements. If "not determined" please explain.
The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health. *A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.
ND explain:
observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health): broken pipe(s) are replaced obstruction is removed distribution box is leveled or replaced
ND explain:
The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health): broken pipe(s) are replaced obstruction is removed
ND explain:

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CERTIFICATION (continued)

	ty Address: 44 Stagecoach Road
Owner Date of	: Ryan f Inspection: December 5, 2002
	rther Evaluation is Required by the Board of Health:
NO the syst	Conditions exist which require further evaluation by the Board of Health in order to determine if tem is failing to protect public health, safety or the environment.
	System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:
	 Cesspool or privy is within 50 feet of a surface water Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh
2.	System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:
	The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
	The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.
	The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.
	The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**. Method used to determine distance
	**This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.
3.	Other:

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CERTIFICATION (continued)
Property Address: 44 Stagecoach Road Owner: Ryan Date of Inspection: December 5, 2002
D. System Failure Criteria applicable to all systems: You must indicate "yes" or "no" to each of the following for all inspections:
Yes No x Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspoolx Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspoolx Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or
 x Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow x Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped x Any portion of the SAS, cesspool or privy is below high ground water elevation. x Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.
Any portion of a cesspool or privy is within a Zone 1 of a public well. Any portion of a cesspool or privy is within 50 feet of a private water supply well. Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.]
NO (Yes/No) The system fails. I have determined that one or more of the above failure criteria exists as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.
E. Large Systems: To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd. You must indicate either "yes" or "no" to each of the following: (The following criteria apply to large systems in addition to the criteria above)
yes no the system is within 400 feet of a surface drinking water supply the system is within 200 feet of a tributary to a surface drinking water supply
the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area - IWPA) or a mapped Zone II of a public water supply well If you have answered "yes" to any question in Section E the system is considered a significant threat or assurant "yes"

in Section D above the large system has failed. The owner or operator of any large system considered a significant threat under Section E or failed under Section D shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

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Owner: Ryan Date of Inspection: December 5, 2002
Check if the following have been done. You must indicate "yes" or "no" as to each of the following:
Yes No Yes Pumping information was provided by the owner, occupant, or Board of Health
No Were any of the system components pumped out in the previous two weeks?
<u>yes</u> Has the system received normal flows in the previous two week period?
NO Have large volumes of water been introduced to the system recently or as part of this inspection?
<u>yes</u> Were as built plans of the system obtained and examined? (If they were not available note as N/A)
yes Was the facility or dwelling inspected for signs of sewage back up?
yes Was the site inspected for signs of break out?
<u>yes</u> Were all system components, excluding the SAS, located on site?
<u>yes</u> Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
<u>yes</u> Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems?
The size and location of the Soil Absorption System (SAS) on the site has been determined based on:
Yes no <u>yes</u> Existing information. For example, a plan at the Board of Health.
<u>yes</u> Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(3)(b)]

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SYSTEM INFORMATION

Property Address: 44 Stagecoach Road
Owner: Ryan
Date of Inspection: December 5, 2002
FLOW CONDITIONS RESIDENTIAL
Number of bedrooms (design): 4.2 Number of bedrooms (actual): 4
DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 480?
Number of current residents: 2
Does residence have a garbage grinder (yes or no): no (*GRINDERS ARE NOT RECOMMENDED)
Is laundry on a separate sewage system (yes or no): *no [if yes separate inspection required] Laundry system inspected (yes or no): n/a_
Seasonal use: (yes or no): <u>NO</u>
Water meter readings if available (last 2
Water meter readings, if available (last 2 years usage (gpd)): _N/a
Last date of occupancy: current
San date of occupancy. current
COMMERCIAL/INDUSTRIAL
Type of establishment: <u>N/A</u> Design flow (based on 210 CMR 15 000)
Design flow (based on 310 CMR 15.203): gpd
Basis of design flow (seats/persons/sqft,etc.): Grease trap present (yes or no):
Industrial waste holding tank present (yes or no):
Non-sanitary waste discharged to the Title 5 system (yes or NO):
Water meter readings if available:
Water meter readings, if available: Last date of occupancy/use:
and of occupancy dat.
OTHER (describe)
S 2222X (GOODING)
CENEDAL INCODMATION
GENERAL INFORMATION Pumping Records
Source of information: 15 months ago
Was system pumped as part of the inspection (YES or no): Yes)
If we wolume numbed: 1 500 college. However, 1 500 college.
If yes, volume pumped: 1,500 gallons How was quantity pumped determined? Measured Reason for pumping: Request
TYPE OF SYSTEM
x Septic tank, distribution box, soil absorption system Single cesspool
Overflow cesspool
Privy
Shared system (yes or no) (if yes, attach previous inspection records, if any)
Innovative/Alternative technology, Attach a conversal any)
Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner)
Tight tank Attach a copy of the DEP approval Other (describe):
Approximate age of all components, date installed (if known) and source of information: 5 years+/-

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Property Address: 44 Stagecoach Road Owner: Ryan Date of Inspection: December 12, 2002
BUILDING SEWER (locate on site plan)
Depth below grade: 18" Materials of construction:cast iron X_40 PVCother (explain): Distance from private water supply well or suction line: 10'+ Comments (on condition of joints, venting, evidence of leakage, etc.):
SEPTIC TANK: Yes(locate on site plan)
Depth below grade:24" Material of construction: X_concretemetalfiberglasspolyethyleneother(explain) If tank is metal list age: Is age confirmed by a Certificate of Compliance (yes or no): (attach a copy of certificate) Dimensions:5.0'wx10.5'lx4.5'd Sludge depth: _6" Distance from top of sludge to bottom of outlet tee or baffle:34" Scum thickness:6" Distance from top of scum to top of outlet tee or baffle:6"_ Distance from bottom of scum to bottom of outlet tee or baffle:12"_ How were dimensions determined:MEASURED Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):TANK CONDITION OK Tank has concrete baffle inlet and PVC tee outlet.
GREASE TRAP: N/A (locate on site plan) Depth below grade: Material of construction:concretemetalfiberglasspolyethyleneother
(explain): Dimensions: Scum thickness: Distance from top of scum to top of outlet tee or baffle: Distance from bottom of scum to bottom of outlet tee or baffle: Date of last pumping: Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

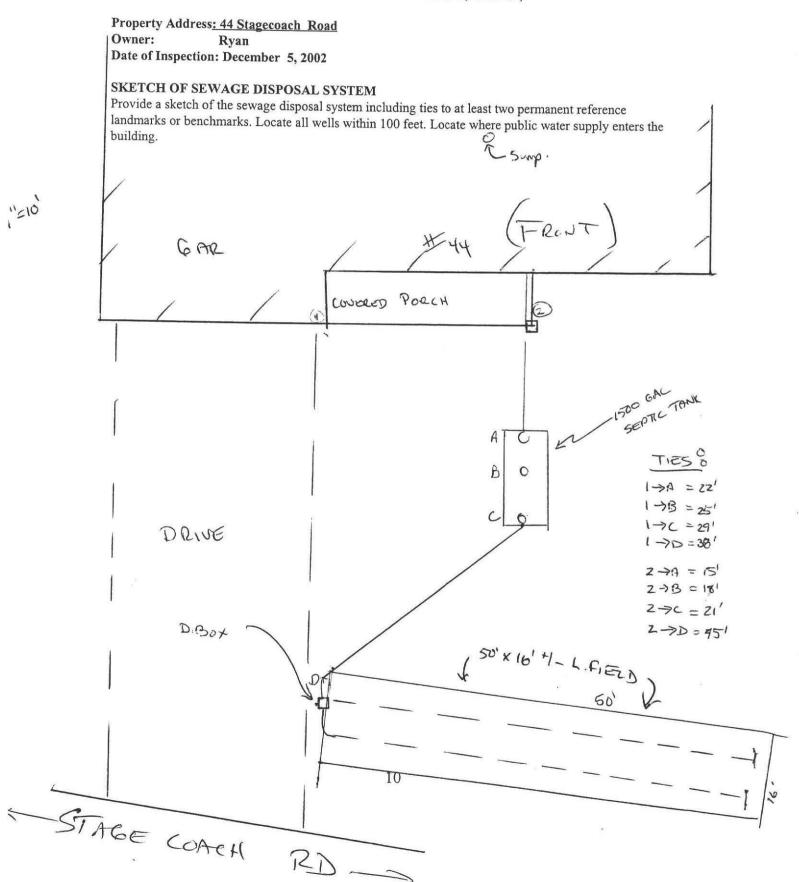
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Owner: Ryan
Date of Inspection: December 5, 2002
TIGHT or HOLDING TANK:(tank must be pumped at time of inspection)(locate on site plan)
Depth below grade: Material of construction:concretemetalfiberglasspolyethyleneother(explain):
Dimensions:
Capacity:gallons
Capacity:gallons Design Flow:gallons/day
Alarm present (yes or no):
Alarm level:Alarm in working order (yes or no):
Date of last pumping:
Comments (condition of alarm and float switches, etc.):
DISTRIBUTION BOX: YES (if present must be opened)(locate on site plan)
220 122 0 120 1 2011 in protont must be optimized, to the pane,
Depth of liquid level above outlet invert: _@ Invert
Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any
evidence of leakage into or out of box, etc.):Good D. box, level with good distribution_
24" deep
PUMP CHAMBER: NO (locate on site plan)
Pumps in working order (yes or no):
Alarms in working order (yes or no):
Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

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Property Address: 44 Stagecoach Road Owner: Ryan Date of Inspection: December 5, 2002							
SOIL ABSORPTION SYSTEM (SAS): YES (locate on site plan, excavation not required)							
If SAS not located explain why:							
Type leaching pits, number:leaching chambers, number:leaching galleries, number:leaching trenches, number, length:leaching fields, number, dimensions:50' x 16'+/overflow cesspool, number:innovative/alternative system Type/name of technology: Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.): No signs of failure, no Groundwater observed,							
CESSPOOLS: N/A (cesspool must be pumped as part of inspection)(locate on site plan)							
Number and configuration:							
Depth - top of liquid to inlet invert:							
Depth of solids layer:							
Depth of scum layer:							
Dimensions of cesspool:							
Materials of construction:							
Indication of groundwater inflow (yes or no):							
Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):							
PRIVY: N/A (locate on site plan)							
Materials of construction:							
Dimensions:							
Denth of solids:							
Depth of solids: Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation,							
etc.):							

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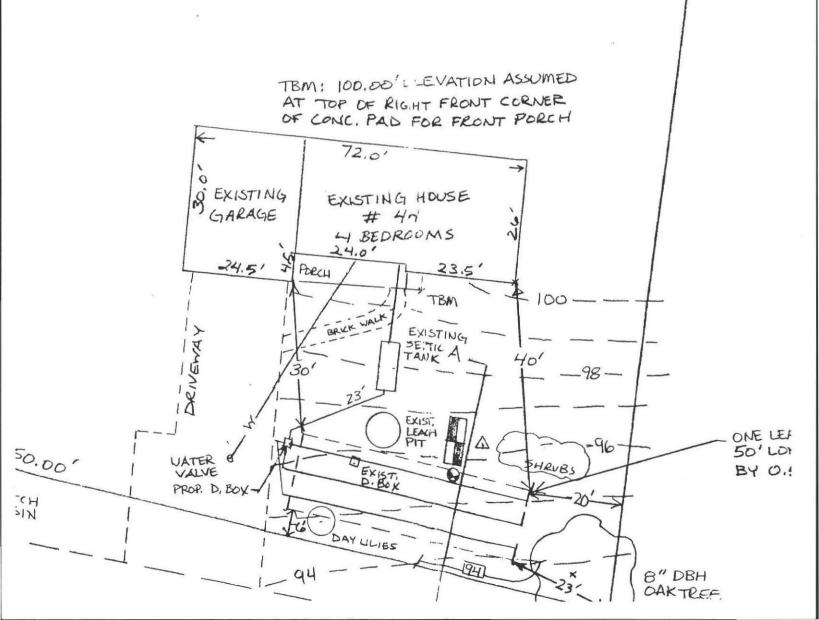


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Property Address: 44 Stagecoach Road Owner: Ryan Date of Inspection: December 5, 2002
SITE EXAM Slope YES Surface water Check cellar YES' Shallow wells
Estimated depth to ground water 6'+ feet
Please indicate (check) all methods used to determine the high ground water elevation:
XObtained from system design plans on record - If checked, date of design plan reviewed: _9/97 XObserved site (abutting property/observation hole within 150 feet of SAS) Checked with local Board of Health-explain: Checked with local excavators, installers- (attach documentation) Accessed USGS database-explain:
You must describe how you established the high ground water elevation:
Water level based on on-site data & from topography & vegetation Hole dug at D. box to 3' and 1997 record indicated 78"+.

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32,210 SQ. FT 0.739 ACRE



SOIL INVESTIGATION

Test Pit No. 1 Estimated Seasonal High Ground Water at 78" Bedrock is deeper than 112" Class II soils.

This area is served by public water supply - no wells within 200 ft. of the proposed soil absorption system. There are no wetland resource areas within 100 feet of the proposed soil absorption system. Deep observation hole log and percolation test results are attached. Soil Investigation and percolation testing by Robert Stover, Certified Soil Evaluator, and witnessed by David Zarozinski, Certified Soil Evaluator on August 8, 1997.

DESIGN CRITERIA

Four bedroom house, garbage grinder shall be removed. Retain existing septic tank: 1500 Gal.

DESIGN CALCULATION

Design Flow:

Design for 440 GPD

Effluent loading rate:

perc rate = 6.0 minutes per inch, Class II soils.

effluent loading rate = 0.6 gpd/sq.ft.

Proposed soil absorption system: 1 leach bed 50 ft. long by 16 ft. wide by 0.5 ft. below the distribution lines.

Bottom area: 50' X 16' = 800 sq.ft. X 0.6 gpd/sq.ft.

= 480.0 gpd

Side wall area: Not allowed.

Total

= 480.0 gpd

Required design flow:

= 440.0 gpd

Calculated design flow:

= 480.0 gpd OK

GENERAL CONDITIONS

1. This system repair plan is prepared in accordance with Title 5, 310 CMR 15.00. Construction shall conform to the same.

2. The installer shall notify the designer of any unusual conditions and shall not modify the plan without the written consent of the designer. All debris in the site area shall be removed and disposed of in accordance with the law.

3. There is no guarantee expressed or implied to any user of a system installed

4. Inspection: the installer shall notify the designer when the excavation for the leach trenches is ready for inspection and the designer and the Board of Health when the system installation is complete and prior to placement of the cover material for final inspection. Notification shall be 48 hours prior to the

5. The on-site sewage disposal system shall be pumped and inspected as necessary and at least once every 3 years.

o. The existing leach pit shall be pumped; crushed and filled with sand.

Installer

Installer

Instal



ON-SITE SEWAGE DISPOSAL SYSTEM REPAIR 44 STAGECOACH RD., AMHERST, MA

WILLIAM ZUMBRUSKI 44 STAGECOACH RD., AMHERST, MA 01002

SCALE: AS SHOWAL

APPROVED BY

DRAWN BY RWS

DATE: 9/22/97

AMHERST CIVIL ENGINEERING RICHARD COSTA, P.E. / ROBERT STOVER

P.O. BOX 3312, AMHERST, MA 01004-3312 (413)256-3400

DRAWING NUMBER

	1. "