



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments



Owner
information is
required for every
page.

16 Davelin Rd

Property Address

Richard Solomon C/O Steve Frager 10 Weathervane Rd Canton, MA 02021

Owner's Name

Wayland

City/Town

MA

State

01778

Zip Code

7-7-23

Date of Inspection

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

Important: When
filling out forms
on the computer,
use only the tab
key to move your
cursor - do not
use the return
key.



A. Inspector Information

Bryan Besso

Name of Inspector

Company Name

PO Box 5050

Company Address

Wayland

City/Town

508-380-1003

Telephone Number

MA

State

01778

Zip Code

SI #22 SE #165

License Number

B. Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

- ☒ Passes
- ☐ Conditionally Passes
- ☐ Needs Further Evaluation by the Local Approving Authority
- ☐ Fails

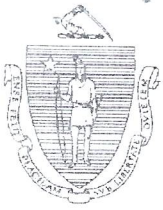
Inspector's Signature

7-7-23

Date

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 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 form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: 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 or different conditions of use.



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C. Inspection Summary

Inspection Summary: Complete 1, 2, 3, or 5 and all of 4 and 6.

1) System Passes:

- ☒ 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:

System installed in 2000 with use by two occupants

2) System Conditionally Passes:

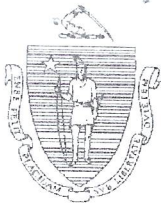
- ☐ One or more system components as described in the "ConditionalPass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Check the box for "yes", "no" or "not determined" (Y, N, ND) 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.

☐ Y ☐ N ☐ ND (Explain below):



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C. Inspection Summary (cont.)

2) System Conditionally Passes (cont.):

☐ Pump Chamber pumps/alarms not operational. System will pass with Board of Health approval if pumps/alarms are repaired.

☐ 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 ☐ Y ☐ N ☐ ND (Explain below):

☐ obstruction is removed ☐ Y ☐ N ☐ ND (Explain below):

☐ distribution box is leveled or replaced ☐ Y ☐ N ☐ ND (Explain below):

☐ 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):

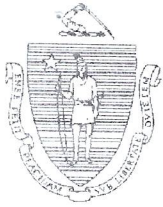
☐ broken pipe(s) are replaced ☐ Y ☐ N ☐ ND (Explain below):

☐ obstruction is removed ☐ Y ☐ N ☐ ND (Explain below):

3) Further Evaluation is Required by the Board of Health:

☐ Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect public health, safety or the environment.

a. 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:



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C. Inspection Summary (cont.)

- ☐ 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

b. 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 fecal coliform bacteria indicates absent 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.

c. Other:

4) System Failure Criteria Applicable to All Systems:

You must indicate "Yes" or "No" to each of the following for all inspections:

Yes No

- ☐ ☒ Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
- ☐ ☒ Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool



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4) System Failure Criteria Applicable to All Systems: (cont.)

Yes No

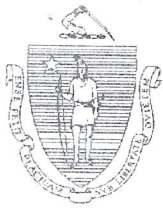
- | | | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped: _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of the SAS, cesspool or privy is below high ground water elevation. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within a Zone 1 of a public water supply well. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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 fecal coliform bacteria indicates absent 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 and chain of custody must be attached to this form.] |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system is a cesspool serving a facility with a design flow of 2000 gpd-10,000 gpd. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system fails. I have determined that one or more of the above failure criteria exist 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. |

5) 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.

For large systems, you must indicate either "yes" or "no" to each of the following, in addition to the questions in Section C.4.

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 400 feet of a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 200 feet of a tributary to a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | 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 |



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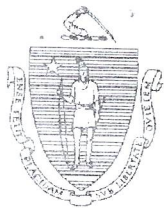
C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

6. You must indicate "yes" or "no" for each of the following for *all* inspections:

Yes No

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Pumping information was provided by the owner, occupant, or Board of Health |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Were any of the system components pumped out in the previous two weeks? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Has the system received normal flows in the previous two week period? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Have large volumes of water been introduced to the system recently or as part of this inspection? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were as built plans of the system obtained and examined? (If they were not available note as N/A) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was the facility or dwelling inspected for signs of sewage back up? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was the site inspected for signs of break out? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all system components, excluding the SAS, located on site? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Wasthe 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: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Existing information. For example, a plan at the Board of Health. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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(5)] |



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D. System Information

1. Residential Flow Conditions:

Number of bedrooms (design):

3

Number of bedrooms (actual):

4

DESIGN flowbased on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms):

Description:

The system is a 1500 Gallon two compartment tank with Distribution box and 60X15 leach bed 900 Sq feet of leach area It should be hnoted that the system was designed with 4 bed room leaching capacity but approved for 3 beeds due to Nitrogen loading limitations. Please see attached approval letter and the requirements to convert the system to a 4 bed approved system with the application of nitrogen reducing technology. Please see BOH file and speak to BOH Staff for additional information

Number of current residents:

None

Does residence have a garbage grinder?

☐ Yes ☒ No

Does residence have a water treatment unit?

☐ Yes ☒ No

If yes, discharges to:

Is laundry on a separate sewage system? (Include laundry system inspection information in this report.)

☐ Yes ☒ No

Laundry system inspected?

☐ Yes ☒ No

Seasonal use?

☐ Yes ☒ No

Water meter readings, if available (last 2 years usage (gpd)):

Detail:

supplier records attached

Sump pump?

☐ Yes ☒ No

Last date of occupancy:

5/2023

Date



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D. System Information (cont.)

2. Commercial/Industrial Flow Conditions:

Type of Establishment:

Design flow (based on 310 CMR 15.203):

Gallons per day (gpd)

Basis of design flow (seats/persons/sq.ft., etc.):

Grease trap present?

☐ Yes ☐ No

Water treatment unit present?

☐ Yes ☐ No

If yes, discharges to:

Industrial waste holding tank present?

☐ Yes ☐ No

Non-sanitary waste discharged to the Title 5 system?

☐ Yes ☐ No

Water meter readings, if available:

Last date of occupancy/use:

Date

Other (describe below):

3. Pumping Records:

Source of information:

Regan Co 14, 17, 21, 23

Was system pumped as part of the inspection?

☒ Yes ☐ No

If yes, volume pumped:

1500 Gallons
gallons

How was quantity pumped determined?

site glass on the tanker

Reason for pumping:

Local requirement and examine tank interior



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D. System Information (cont.)

4. Type of System:

- ☒ 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 copy of the current operation and maintenance contract (to be obtained from system owner) and a copy of latest inspection of the I/A system by system operator under contract
- ☐ Tight tank. Attach a copy of the DEP approval.
- ☐ Other (describe):

Approximate age of all components, date installed (if known) and source of information:
2000

Were sewage odors detected when arriving at the site?

☐ Yes ☒ No

5. Building Sewer (locate on site plan):

Depth below grade:

1.7
feet

Material of construction:

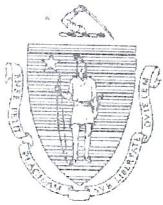
☒ cast iron ☒ 40 PVC ☐ other (explain):

Distance from private water supply well or suction line:

feet

Comments (on condition of joints, venting, evidence of leakage, etc.):

Appears sound and a flush was dispatched as designed



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D. System Information (cont.)

6. Septic Tank (locate on site plan):

Depth below grade:

1.25

feet

Material of construction:

☒ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain)

If tank is metal, list age:

years

Is age confirmed by a Certificate of Compliance? (attach a copy of certificate)

☐ Yes

☐ No

Dimensions:

1500 Gallon two compartment

Sludge depth:

6-8"

Distance from top of sludge to bottom of outlet tee or baffle

36+"

Scum thickness

1-2 " in first compartment

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

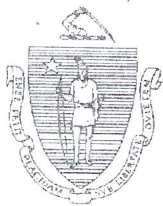
16+-"

How were dimensions determined?

observation & Estimation at
pumpout

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 appears sound and functional as designed



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D. System Information (cont.)

7. Grease Trap (locate on site plan):

Depth below grade:

feet

Material of construction:

☐ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (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:

Date

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

8. Tight or Holding Tank (tank must be pumped at time of inspection)(locate on site plan):

Depth below grade:

Material of construction:

☐ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain):

Dimensions:

Capacity:

gallons

Design Flow:

gallons per day



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D. System Information (cont.)

8. Tight or Holding Tank (cont.)

Alarm present:

☐ Yes

☐ No

Alarm level: _____

Alarm in working order:

☐ Yes

☐ No

Date of last pumping:

_____ Date

Comments (condition of alarm and float switches, etc.):

* Attach copy of current pumping contract (required). Is copy attached?

☐ Yes

☐ No

9. Distribution Box (if present must be opened)(locate on site plan):

Depth of liquid level above outlet invert

_____ at not above all outlet inverts

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.):

Box shows very slight deterioration as expected for a system of this age. NO FAILURE ISSUED
OBSERVED



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D. System Information (cont.)

10. Pump Chamber (locate on site plan):

Pumps in working order:

☐ Yes

☐ No*

Alarms in working order:

☐ Yes

☐ No*

Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

* If pumps or alarms are not in working order, system is a conditional pass.

11. Soil Absorption System (SAS) (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:

1@ 60 X 15 feet

☐

overflow cesspool

number:

☐

innovative/alternative system

Type/name of technology:



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11. Soil Absorption System (SAS) (cont.)

Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.):

The lines of the bed were examined with a video snake and found to have very slight carryover with all perforations clear. No ponding of the bed was noted

12. Cesspools (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

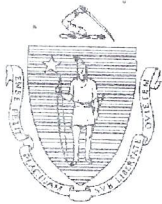
Dimensions of cesspool

Materials of construction

Indication of groundwater inflow

☐ Yes ☐ No

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



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D. System Information (cont.)

13. **Privy** (locate on site plan):

Materials of construction:

Dimensions

Depth of solids

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



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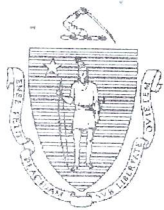
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D. System Information (cont.)

14. Sketch Of Sewage Disposal System:

Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

- ☐ hand-sketch in the area below
☒ drawing attached separately



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D. System Information (cont.)

15. Site Exam:

☒ Check Slope

☒ Surface water

☐ Check cellar

☐ Shallow wells

Estimated depth to high ground water:

4 feet below the base of the SAS
feet

Please indicate all methods used to determine the high ground water elevation:

☒ Obtained from system design plans on record

If checked, date of design plan reviewed: 2000
Date

☐ Observed site (abutting property/observation hole within 150 feet of SAS)

☒ Checked with local Board of Health - explain:

Records review and soil logs

☐ Checked with local excavators, installers - (attach documentation)

☐ Accessed USGS database - explain:

You **must** describe how you established the high ground water elevation:

The system was designed, approved and installed pursuant to a plan developed using witnessed soil testing data developed in the presents of the Health Official. Based on record information ESHGW does not impact the base of the SAS

Before filing this Inspection Report, please see Report Completeness Checklist on next page.



Owner
information is
required for every
page.

Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

16 Davelin Rd

Property Address

Richard Solomon C/O Steve Frager 10 Weathervane Rd Canton, MA 02021

Owner's Name

Wayland

City/Town

MA

State

01778

Zip Code

7-7-23

Date of Inspection

E. Report Completeness Checklist

Complete all applicable sections of this form inclusive of:

☒ A. Inspector Information: Complete all fields in this section.

☒ B. Certification: Signed & Dated and 1, 2, 3, or 4 checked

☒ C. Inspection Summary:

1, 2, 3, or 5 completed as appropriate

4 (Failure Criteria) and 6 (Checklist) completed

☒ D. System Information:

For 8: Tight/Holding Tank – Pumping contract attached

For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached

For 15: Explanation of estimated depth to high groundwater included



TOWN OF WAYLAND
BOARD OF HEALTH

41 COCHITUATE ROAD
WAYLAND, MA 01778
(508) 358-3617

CERTIFICATE OF COMPLIANCE

16 Davelin Road

Location

Permit # 99-123

Richard & Sandra Hoyt

Applicant

D.J. Morris Contracting Co., Inc.

Installer

This is to advise that the individual sewage disposal system installed at the above location has been constructed to the satisfaction of the Board of Health, and is substantially in compliance with the terms of the Permit, Title 5 of the Department of Environmental Protection, and the Regulations of the Town of Wayland Board of Health. This approval is based on conditions at the time of inspection as well as design plans, as-built plans and sketches, and other data submitted by the applicant, his/her engineer and installer.

No liability is incurred by the Town of Wayland or its agent by reason of this approval. No guarantee is intended or implied.

Date: April 19, 2000

Health Agent: David S. [Signature]

16 Davelin Road

BOARD OF HEALTH
WAYLAND, MASSACHUSETTS

Permit No. 99-123

Date Issued 3/6/00

DISPOSAL WORKS CONSTRUCTION PERMIT

Permission is hereby granted an Approved Installer for Richard Hoyt

to locate and construct (), alter (), or repair (X), an individual sewage disposal system at: 16 Davelin Road
SAS sized for 4 Bedroom Home Innovative / Alternative Treatment Technology must be installed to make the system a fully compliant 4 Bedroom Design. (otherwise 3 Bedrooms)
No construction or use of the system, which is the subject matter of this permit, shall be commenced until all permits which may be required by the laws of the Town of Wayland, and the Commonwealth of Massachusetts shall have been secured by the applicant, including a Certificate of Compliance.

Conditions (if applicable): _____

The aforesaid individual Sewage Disposal System shall comply in all respects with the provisions of Title 5 of the State Environmental Code and the Regulations of the Town of Wayland.

It is understood that the system must be constructed by a person or firm holding a Disposal Works Installers Permit in the Town of Wayland.

This permit shall expire 3 years from the date set forth below unless the construction permitted hereby shall have begun prior thereto.

Date: 3/6/00

David S. [Signature]

NOTE: FINAL GRADING MUST BE COMPLETED
AND INSPECTED IN ORDER TO OBTAIN
A CERTIFICATE OF COMPLIANCE.

BOARD OF HEALTH

Extra Fees for Additional Inspections: _____

No liability is incurred by the Town of Wayland or its Agent by reason of any approval of a wastewater disposal or treatment system. Approval by the Town is based on plans and specifications supplied by the applicant. No guarantee is intended or implied by reason of any approval given by the Wayland Board of Health or its Agent.

Prior to any construction of a septic system, the location and elevation of the top of the foundation shall be located by a Registered Land Surveyor or Registered Professional Engineer and shall be submitted to the Board of Health on a plan bearing the seal and signature of the Registered Land Surveyor or Registered Professional Engineer.

Prior to inspection, the installer shall submit to the Board of Health, a sketch showing dimensions from the building corners to the septic tank opening and distribution box.

Permit and Approved Plans Received By: _____

Richard A. Hoyt
March 7, 2000

D-BOX
5 Hole
Inlet = 95.74 Outlet = 95.61

SEPTIC TANK
1500 Gallon
2 Chamber 1000/500 Gal.
Inlet = 96.39 Outlet = 96.17

BENCH MARK = 100.00
Assumed
(Left Front Corner Brick Sloop)

HOUSE

Driveway

Water

Available For
Future Addition
w/Slab Foundation
or Crawl Space

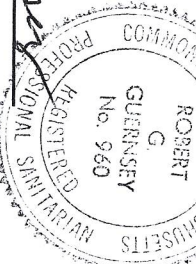
COLE ROAD

LEACHING BED
L = 60' W = 15' D = .5'
Inlet = 95.55 End = 95.23
Bottom = 95.10

RECEIVED
APR 19 2000
BOARD OF HEALTH
WAYLAND

I Certify that this system has been constructed in compliance with 310 CMR 15.00, the approved design plans and all local requirements, and that any changes to the design are reflected on this as-built plan.

Robert G. Guernsey



DAVELIN ROAD

Installed by: D.J. Morris Contracting Co., Inc., Sudbury		
SEPTIC SYSTEM - AS INSTALLED		
Richard J. Hoyt 16 Davelin Road Wayland, MA	March 28, 2000	
	1" = 20'	
SEPTIC DESIGN SERVICES, INC. 19 BORDER ROAD CONCORD, MA 01742		(978) 369-7122