

783 Bay Rd





COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

ep

TITLE 5
 OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
 SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM
 PART A
 CERTIFICATION

Property Address: 783 Bay Road, Amherst, MA
 Owner's Name: Joseph Graziadei
 Owner's Address: 783 Bay Road, Amherst, MA
 Date of Inspection: July 12, 13, 14, 2005

Name of Inspector: (please print) Robert F. Sheehan Jr.
 Company Name: R. F. Sheehan Associates Inc.
 Mailing Address: 146 Taylor Street, Granby, MA
 Telephone Number: 413-467-7228

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:

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

Inspector's Signature: *Robert F. Sheehan Jr.* Date: August 4, 2005

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: At the time of the inspection no failure criteria were observed. The top of the septic tank was uncovered and the baffles were inspected. The septic tank was also pumped. The distribution box (d-box) was also uncovered and inspected. The d-box was very corroded above the liquid level. This corrosion was perhaps due to sewer gasses. A new d-box was installed on 7/14/05 by a licensed installer. Proper permit was obtained, attached. The liquid levels in both the tank and the d-box were ok. This septic system was installed and inspected on 9/7/00. Some solids had escaped from the septic tank to the leaching facility (SAS) it is impossible to determine if any or how much damage may have been done to the SAS. There are 2 pipes exiting the dwelling the cast iron pipes carries the majority of the waste and the PVC pipe carries the washing machine waste. Both pipes tie together prior to entering the septic tank. Recommend pumping tank every two years. A garbage grinder is prohibited. Never introduce additives, grease, food products, animal fats, or any foreign materials into the septic system. Recommend the installation of water conservation devices throughout the house.

****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.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)**

**Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005**

Inspection Summary: Check A,B,C,D or E / ALWAYS complete all of Section D

A. System Passes:

 X 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:

B. System Conditionally Passes:

 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):

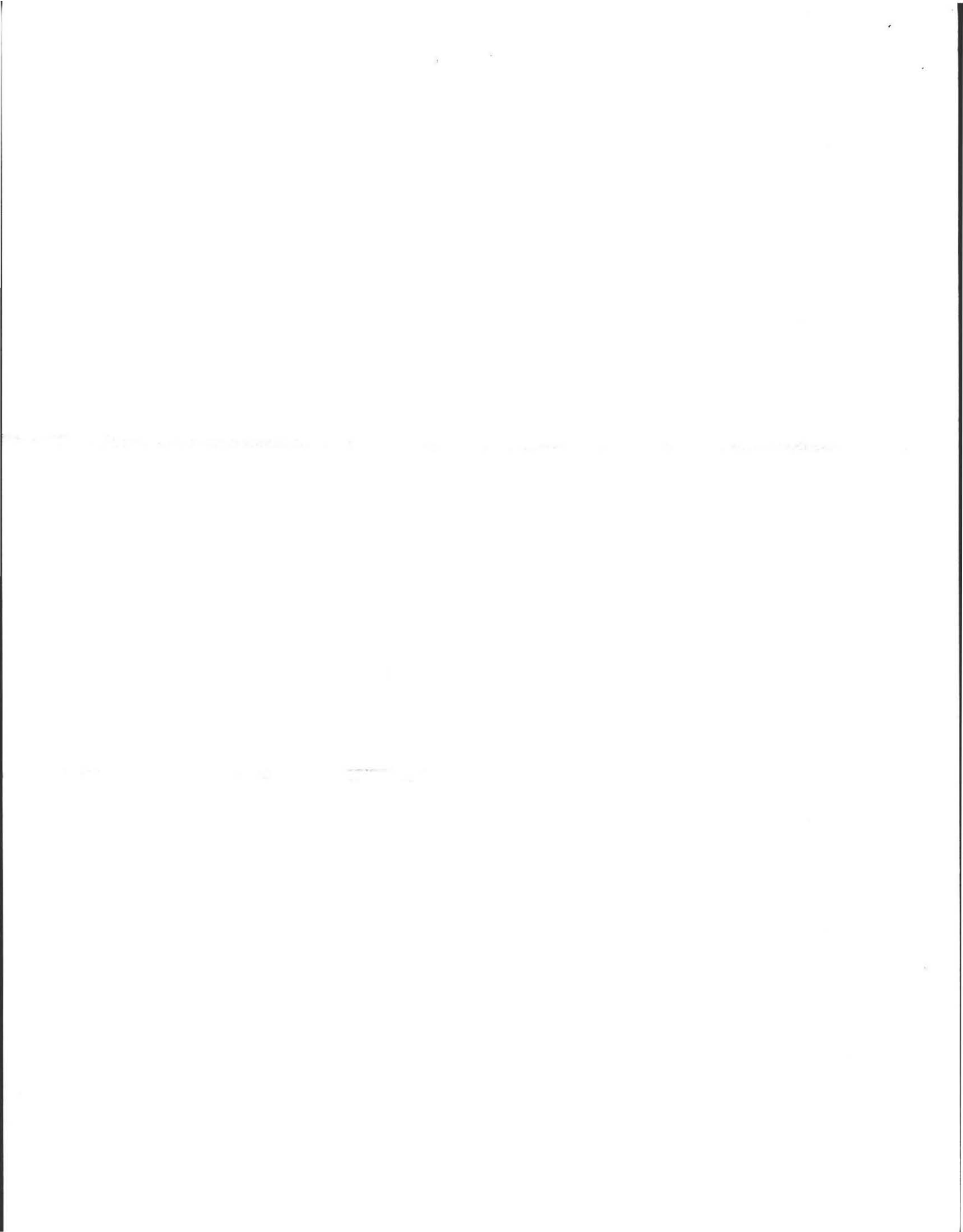
- broken pipe(s) are replaced
- obstruction is removed
- distribution box is leveled or replaced

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:



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

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

C. 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.

1. 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:

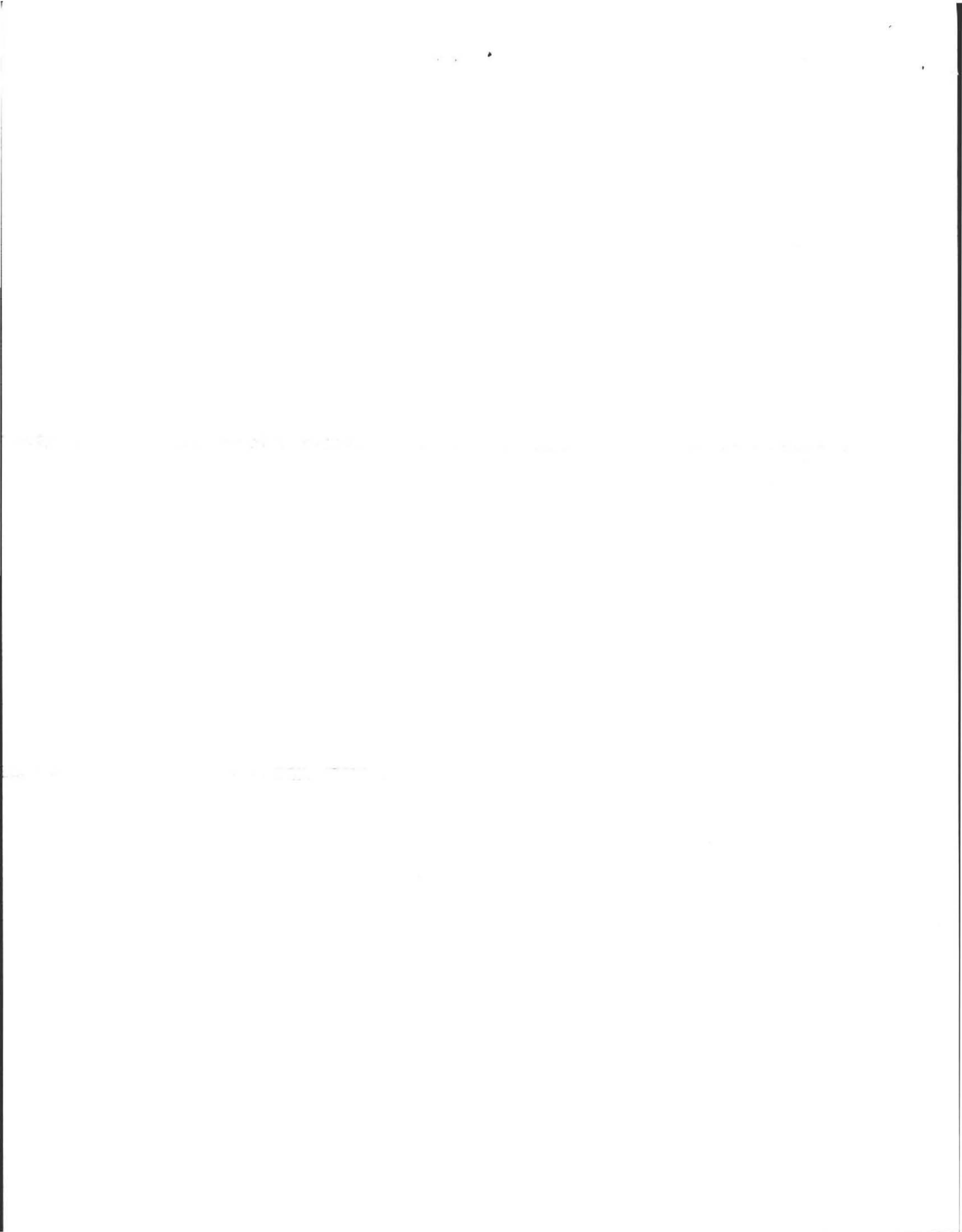
- ___ Cesspool or privy is within 50 feet of a surface water
- ___ Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh

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:



**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)**

**Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005**

D. System Failure Criteria applicable to all systems:

You must indicate "yes" or "no" to each of the following for all inspections:

- | | | |
|--------------------------|-------------------------------------|--|
| Yes | No | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool |
| <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 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 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 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.

E. Large Systems:

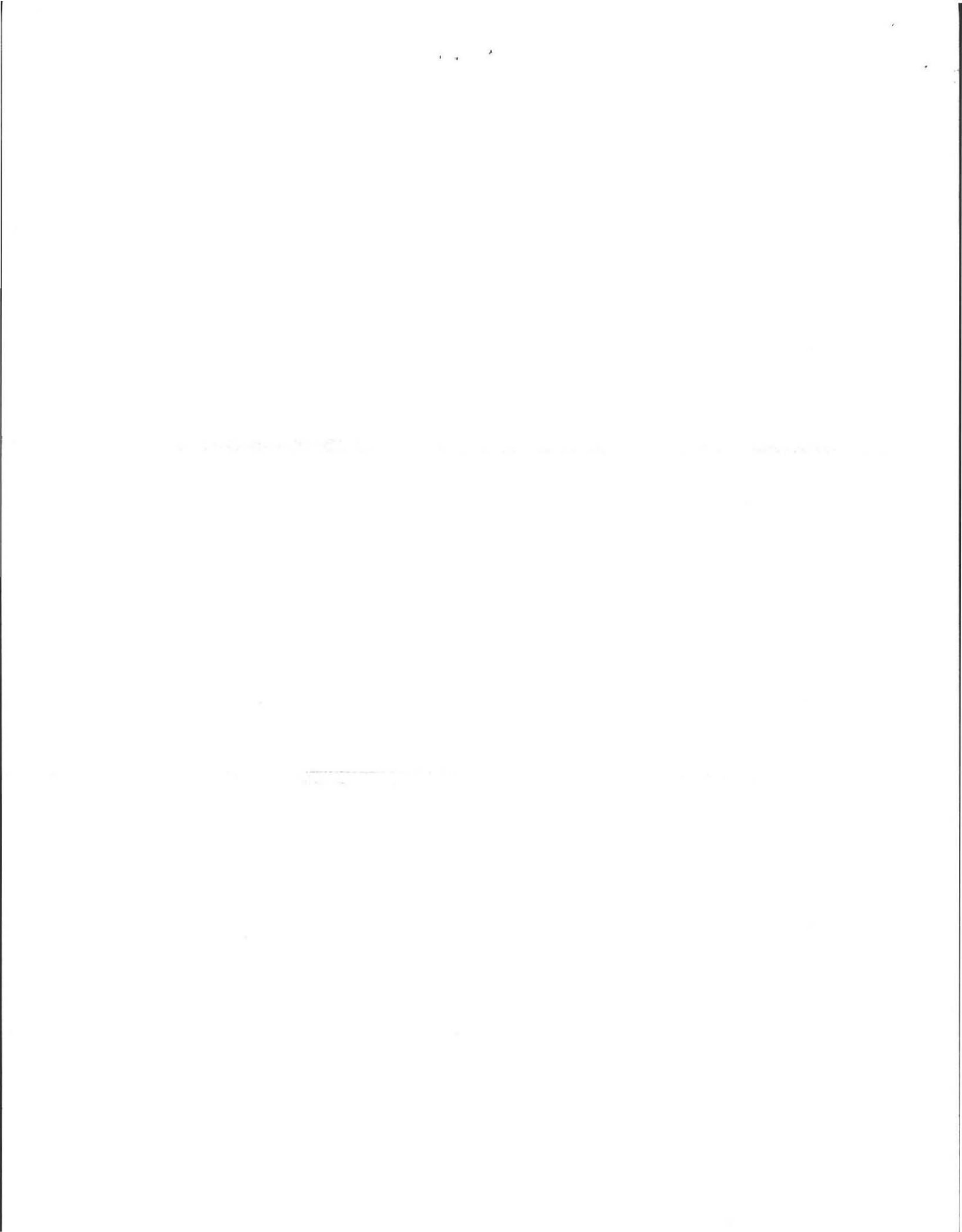
To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

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 | |
| <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 |

If you have answered "yes" to any question in Section E the system is considered a significant threat, or answered "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.



**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
CHECKLIST**

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

Check if the following have been done. You must indicate "yes" or "no" as to each of the following:

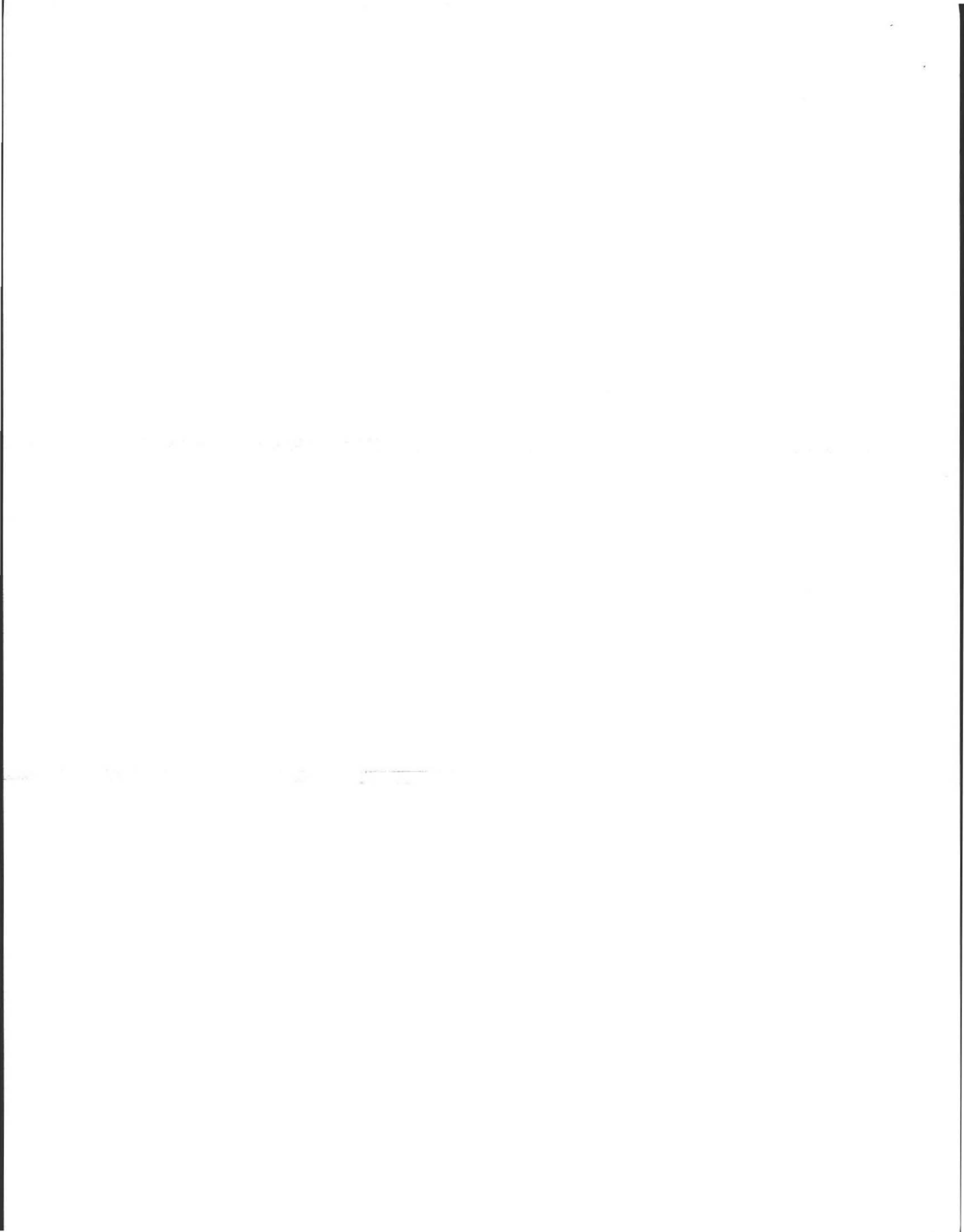
Yes No

- Pumping information was provided by the owner, occupant, or Board of Health
- Were any of the system components pumped out in the previous two weeks ?
- Has the system received normal flows in the previous two week period ?
- Have large volumes of water been introduced to the system recently or as part of this inspection ?
- Were as built plans of the system obtained and examined? (If they were not available note as N/A)
- Was the facility or dwelling inspected for signs of sewage back up ?
- Was the site inspected for signs of break out ?
- Were all system components, excluding the SAS, located on site ?
- 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 ?
- 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

- Existing information. For example, a plan at the Board of Health.
- 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)]



**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION**

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

FLOW CONDITIONS

RESIDENTIAL

Number of bedrooms (design): 4 Number of bedrooms (actual): 4
DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 666 gpd over designed per BOH
Number of current residents: 3
Does residence have a garbage grinder (yes or no): No
Is laundry on a separate sewage system (yes or no): No [if yes separate inspection required]
Laundry system inspected (yes or no):
Seasonal use: (yes or no): No
Water meter readings, if available (last 2 years usage (gpd)): Private well
Sump pump (yes or no): No
Last date of occupancy: current

COMMERCIAL/INDUSTRIAL

Type of establishment:
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:
Last date of occupancy/use:

OTHER (describe):

GENERAL INFORMATION

Pumping Records

Source of information: Pumped every 2 years per property owner
Was system pumped as part of the inspection (yes or no): Yes
If yes, volume pumped: 1500 gallons -- How was quantity pumped determined? Calculated
Reason for pumping: To inspect structural integrity of tank.

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 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: Installed 9/7/00 per our records and BOH records.

Were sewage odors detected when arriving at the site (yes or no): No

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

BUILDING SEWER (locate on site plan)

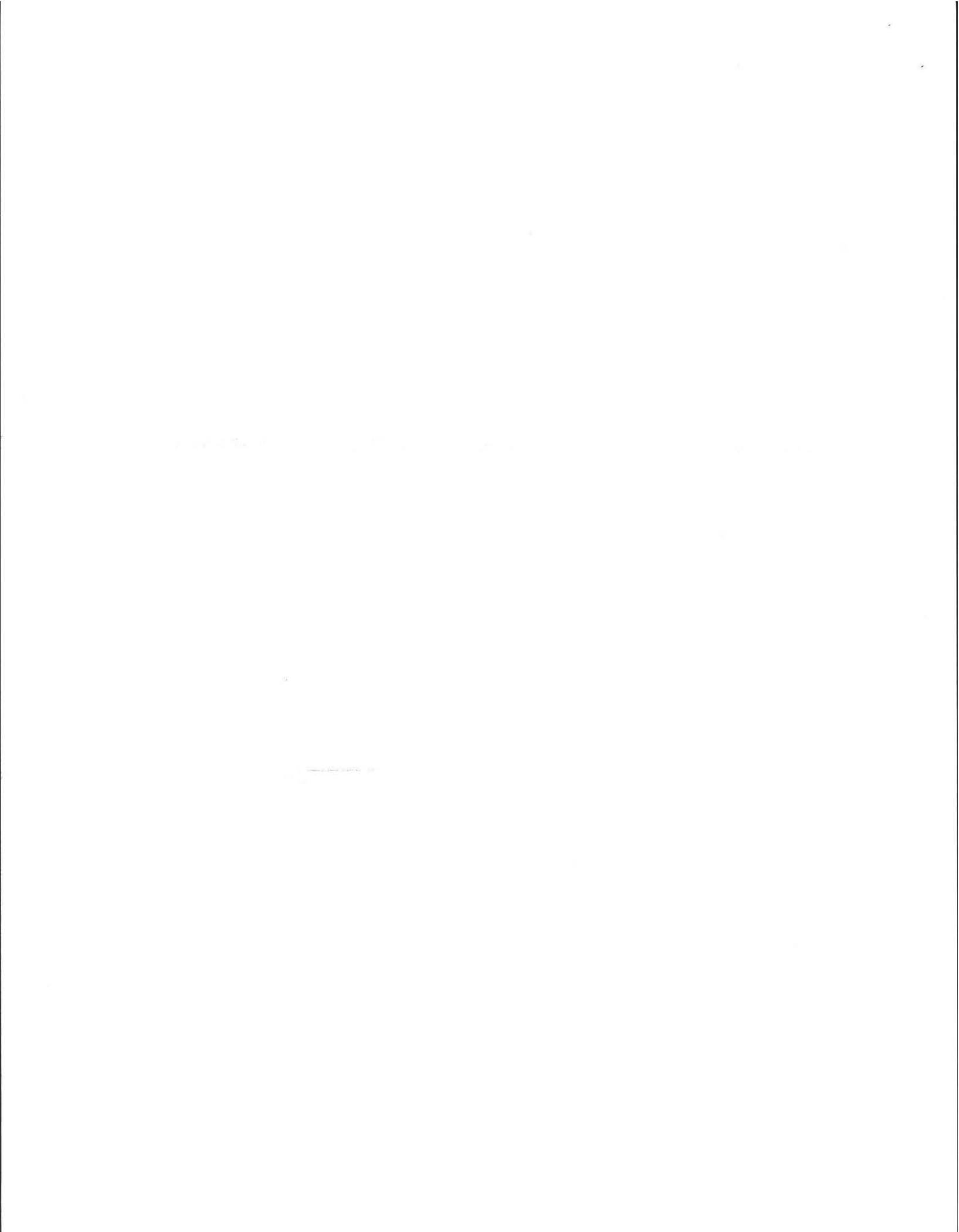
Depth below grade: Cast iron 56" below sill, PVC 82" below sill
Materials of construction: cast iron 40 PVC other (explain): _____
Distance from private water supply well or suction line: _____
Comments (on condition of joints, venting, evidence of leakage, etc.): _____

SEPTIC TANK: (locate on site plan) 1500 gallon 2 compartment septic tank.

Depth below grade: 22", risers at all inspection ports, inlet riser 11", pump cover riser 5", outlet riser 7"
Material of construction: concrete metal fiberglass polyethylene
 other(explain) _____
If tank is metal list age: ____ Is age confirmed by a Certificate of Compliance (yes or no): ____ (attach a copy of certificate)
Dimensions: 126" long x 68" wide x 48" effective depth _____
Sludge depth: 1 1/2" inlet compartment, 1" solids outlet compartment _____
Distance from top of sludge to bottom of outlet tee or baffle: 25" _____
Scum thickness: 3" at inlet, 1/2" at outlet
Distance from top of scum to top of outlet tee or baffle: 7" _____
Distance from bottom of scum to bottom of outlet tee or baffle: 21 1/2"
How were dimensions determined: Graduated measuring stick _____
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.): Recommend pumping every 2 years, baffles ok, structural integrity ok, liquid levels ok, no evidence of leakage in or out.

GREASE TRAP: ____ (locate on site plan)

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



OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

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/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: X (if present must be opened)(locate on site plan)

Depth of liquid level above outlet invert: Equal

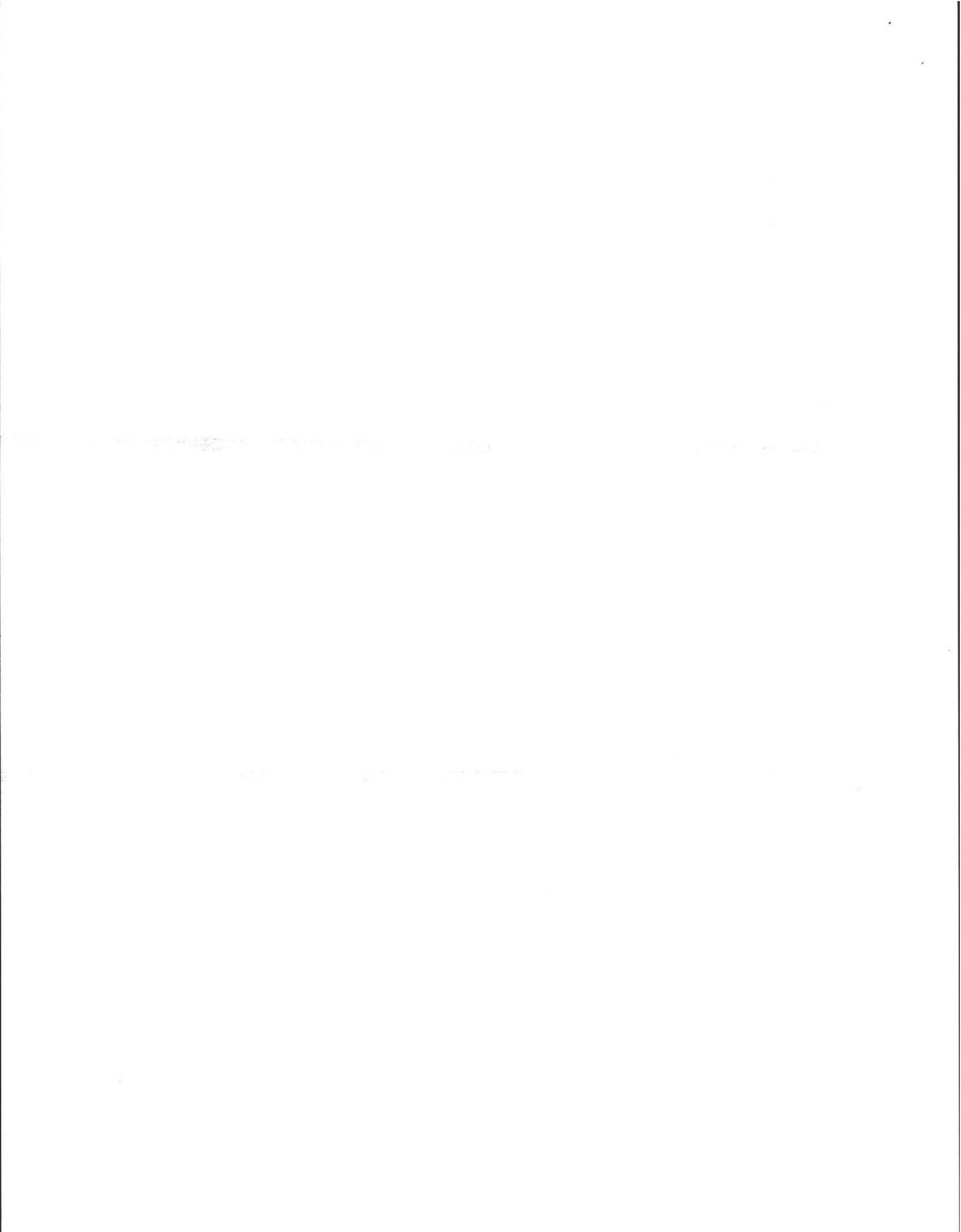
Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.): New d-box and flow levelers installed during inspection due to corrosion, yes evidence of slight solids carryover it is impossible to determine if any or how much damage may have been done to the leaching facility, no evidence of leakage in or out.

PUMP CHAMBER: ____ (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.):



**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)**

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

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: 30 feet wide x 30 feet long _____
- ____ 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.): Soil firm, no signs of hydraulic failure, no ponding observed, no unusual vegetation.

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 or no): ____

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

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.):

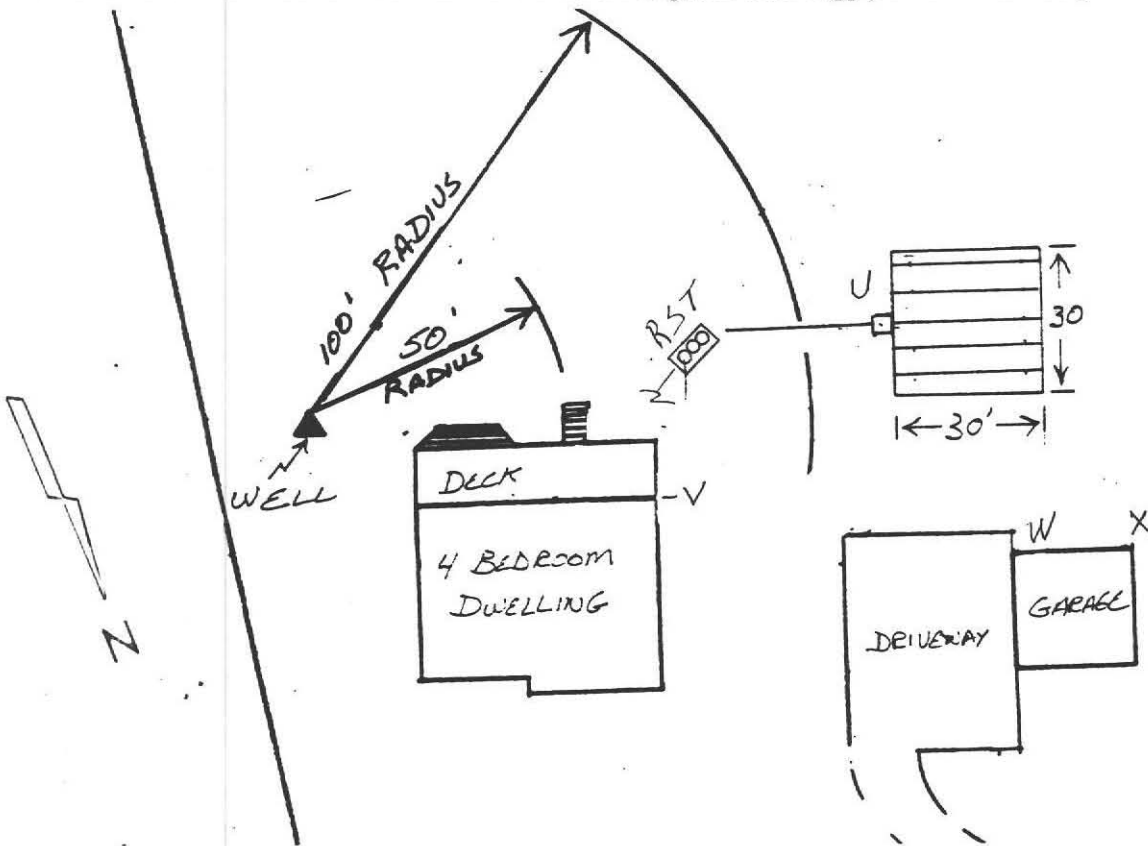
**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM**

**PART C
SYSTEM INFORMATION (continued)**

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

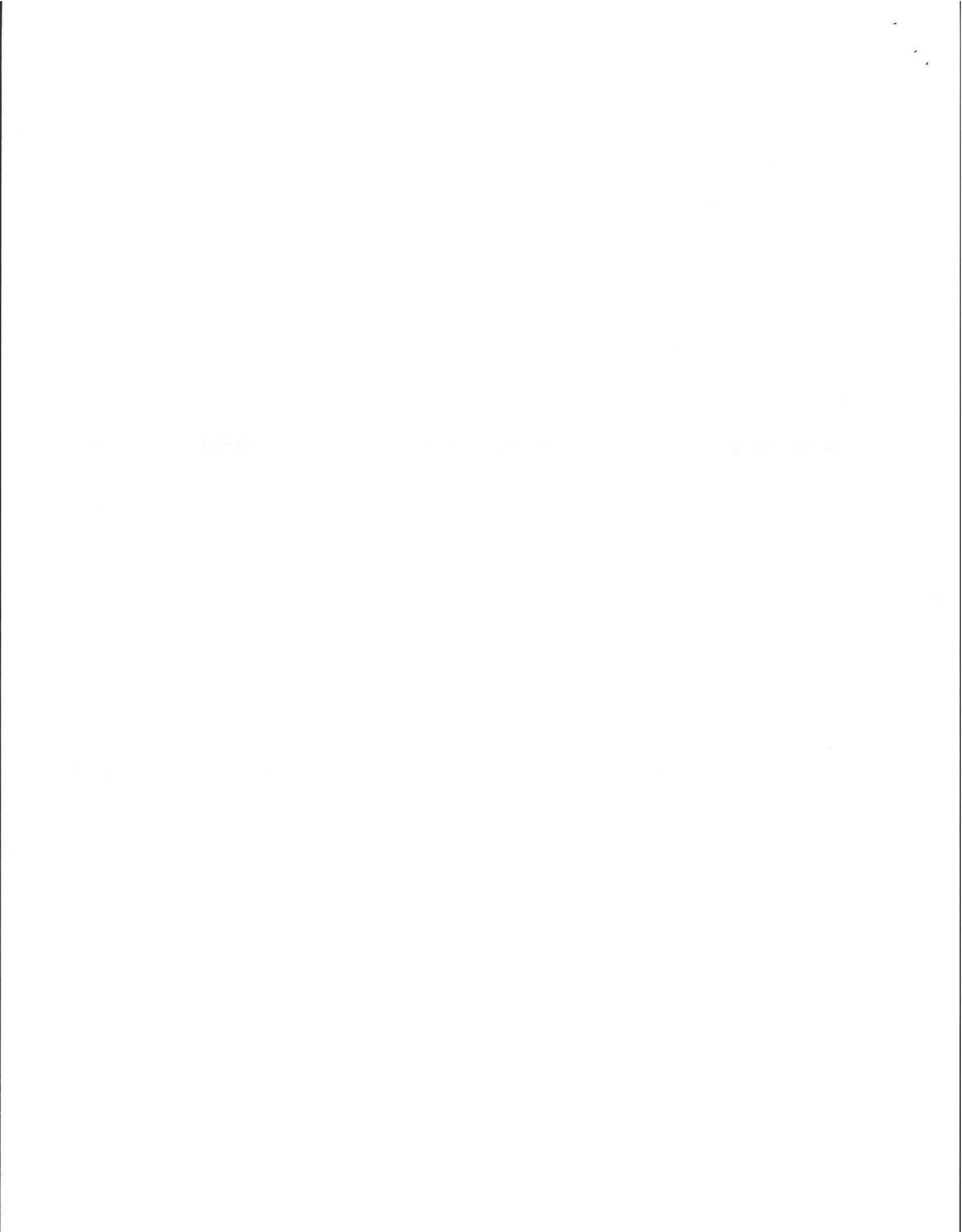
SKETCH OF SEWAGE DISPOSAL SYSTEM

Provide a sketch 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.



- R - INLT COVER SEPTIC TANK
- S - PUMP COVER SEPTIC TANK
- T - OUTLET COVER SEPTIC TANK
- U - DISTRIBUTION BOX
- V - HOUSE CORNER
- W - SOUTH EASTERLY GARAGE CORNER
- X - SOUTH WESTERLY GARAGE CORNER
- TOP OF D-BOX 35" BELOW GRADE

- V-R = 29.5 FEET, W-R = 80 FEET
- V-S = 32 FEET, W-S = 77 FEET
- V-T = 33.5 FEET, W-T = 75.5 FEET
- W-U = 60 FEET, X-U = 75 FEET



**OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM**

PART C

SYSTEM INFORMATION (continued)

Property Address: 783 Bay Road, Amherst, MA
Owner's Name: Joseph Graziadei
Owner's Address: 783 Bay Road, Amherst, MA
Date of Inspection: July 12, 13, 14, 2005

SITE EXAM

Slope 2-4%
Surface water None observed
Check cellar Cellar dry
Shallow wells None observed

Estimated depth to ground water > 140 inches from grade

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

- Obtained from system design plans on record - If checked, date of design plan reviewed: 8/28/00 _____
 Observed site (abutting property/observation hole within 150 feet of SAS)
 Checked with local Board of Health-explain: on 8/14/00 a soil percolation test was performed with a Health Agent present.
____ Checked with local excavators, installers- (attach documentation)
____ Accessed USGS database-explain: _____

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

On 8/28/00 a soil percolation test and deep observation hole evaluation was performed. No ground water or mottling, was observed down to a depth of 140 inches. This inspector, who conducted the perc test and soil evaluation, and an Amherst Health Agent, who witnessed the perc test, are both Massachusetts Certified Soil Evaluators.

