

180
East Leverett Road Lots 1 & 3
BERCUME BUILDERS 2+4
Spt 2002 00013

9/10/01
Renee Fall
Wentworth Agency
87 Dep
+ 5' Around
Proposed Service System
Design





Title 5 Official Inspection Form

Not for Voluntary Assessments

Subsurface Sewage Disposal System Form

received
7-8-08

Inspection results must be submitted on this form or on the official Title 5 Inspection Form dated 6/15/2000. Inspection forms may not be altered in any way.

A. Certification

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



1. Property Information:

180 East Leverett Rd. Amherst Ma. 01002

Property Address

Kanokwan & David Dali

Owner's Name

Same

Owner's Address

City/Town

State

Zip Code

Date of Inspection:

07/03/08

Date

2. Inspector:

Ray Champagne

Name of Inspector

Whiteley Septic Service

Company Name

21 Old County Rd.

Company Address

Southampton

Ma.

01073

City/Town

State

Zip Code

413-527-1835

Telephone Number

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

Fails

Needs Further Evaluation by the Local Approving Authority

Ray Champagne

07/03/08

Inspector's Signature

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 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.

****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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Amherst

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Owner's Name

Ma.

State

07/03/08

Date of Inspection

01002

Zip Code

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

A) 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:

This system consists of a 1500 Gal. 2 compartment septic tank with plastic tee baffles, A D box and a leach area approx 60 x 40. The system appears to be working correctly, distribution is even and no high water marks in D box.

B) System Conditionally Passes:

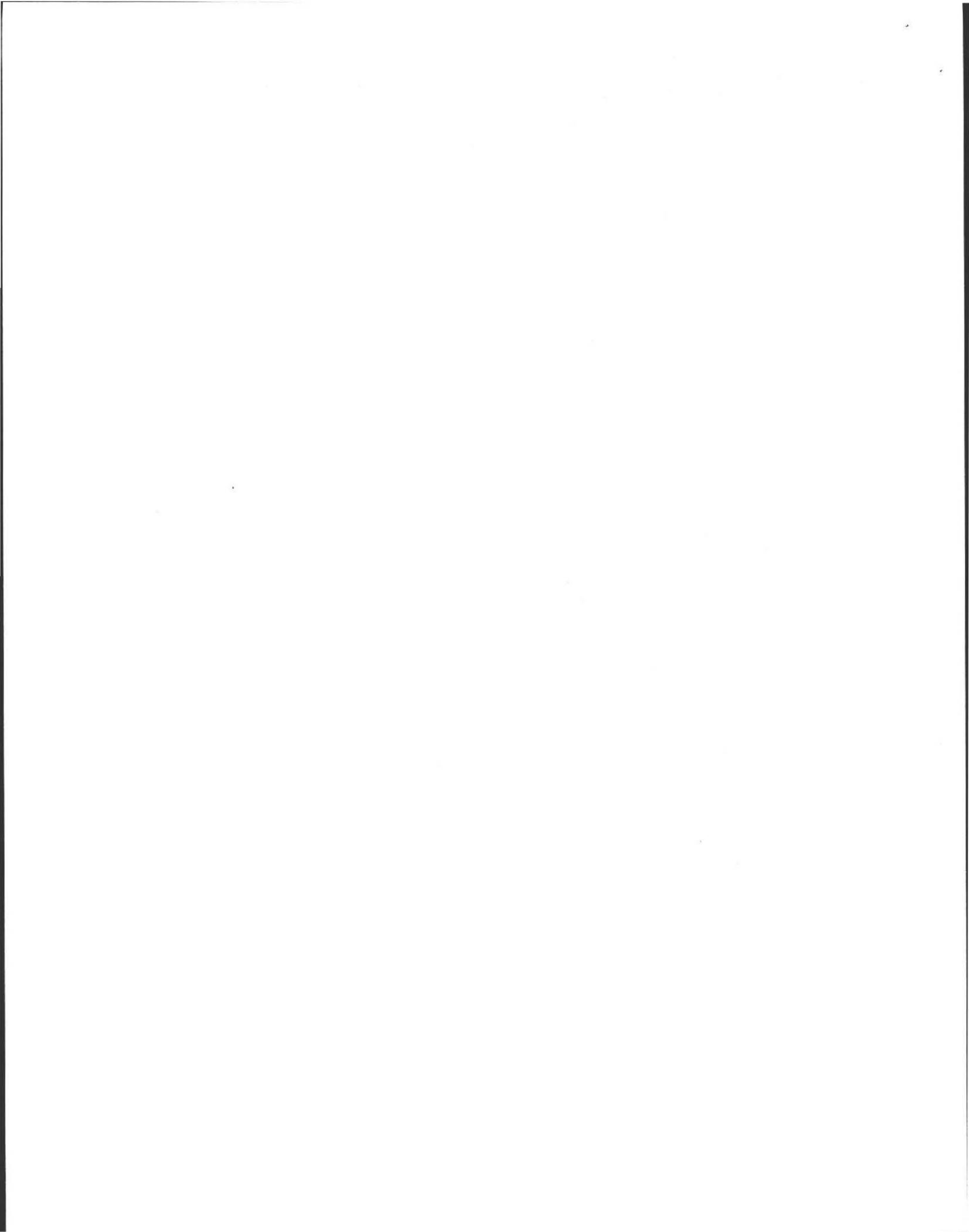
- One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

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:





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B) System Conditionally Passes (cont.):

- 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

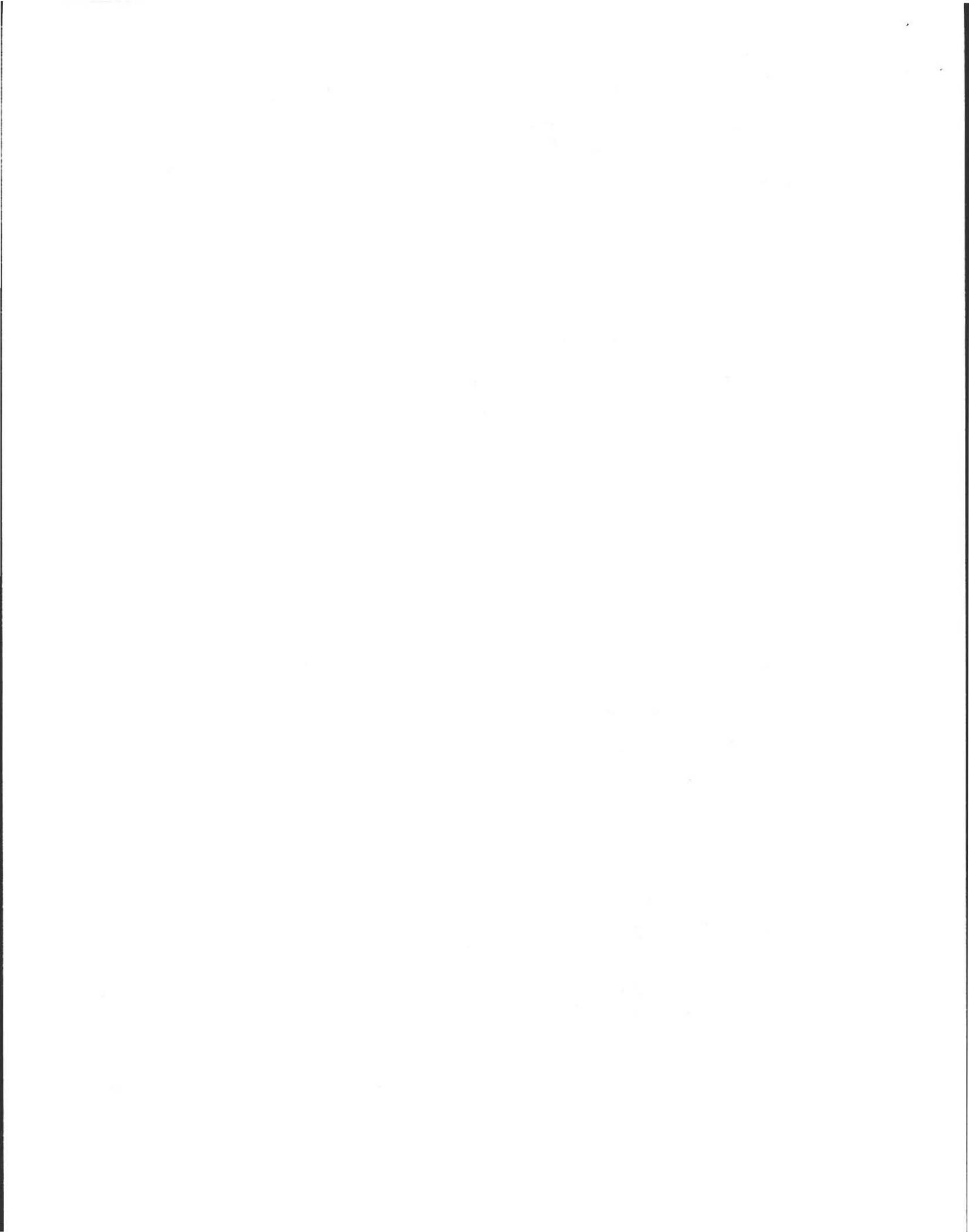
ND Explain:

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





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C) Further Evaluation is Required by the Board of Health (cont.):

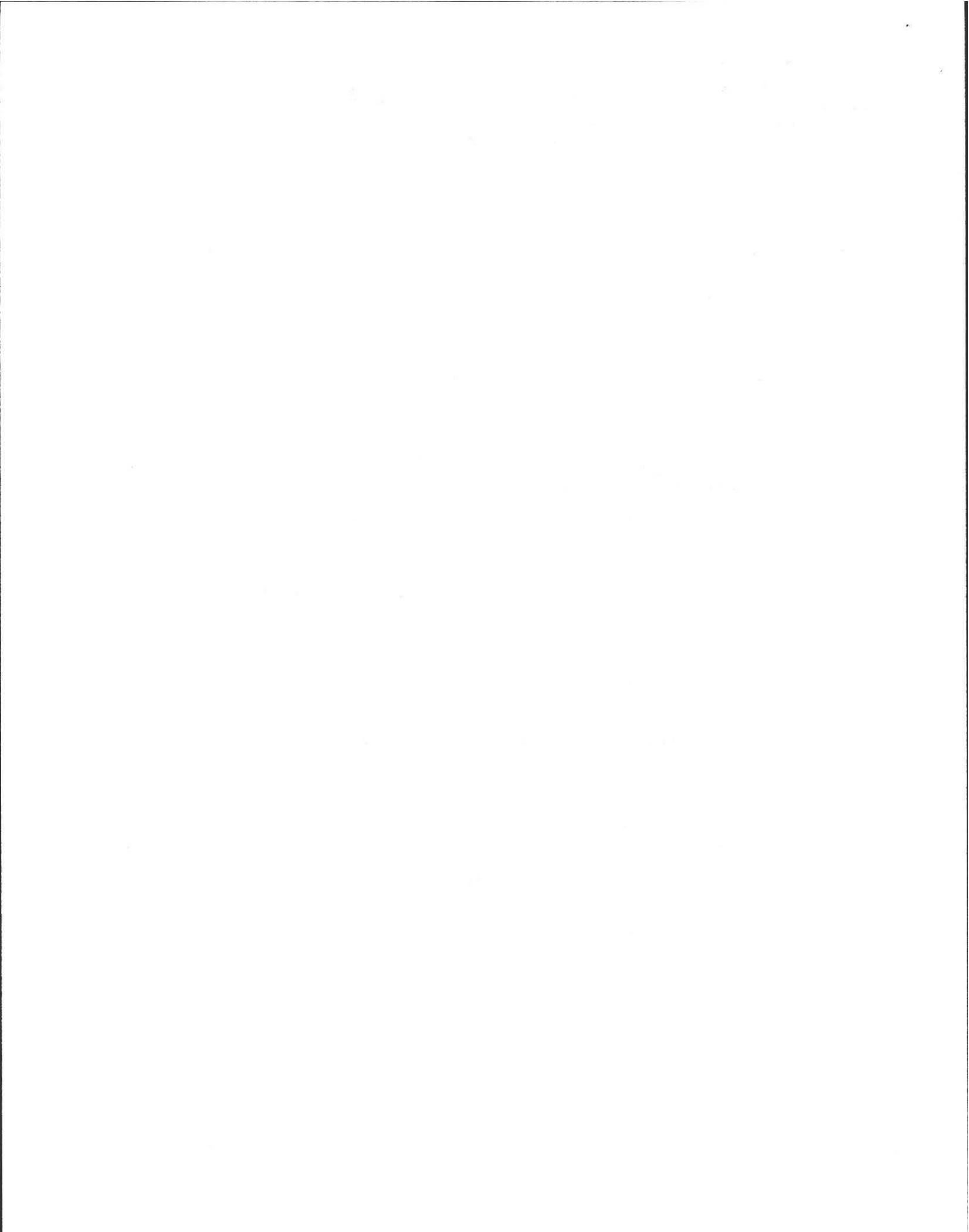
2. System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:

- 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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D) System Failure Criteria Applicable to All Systems:

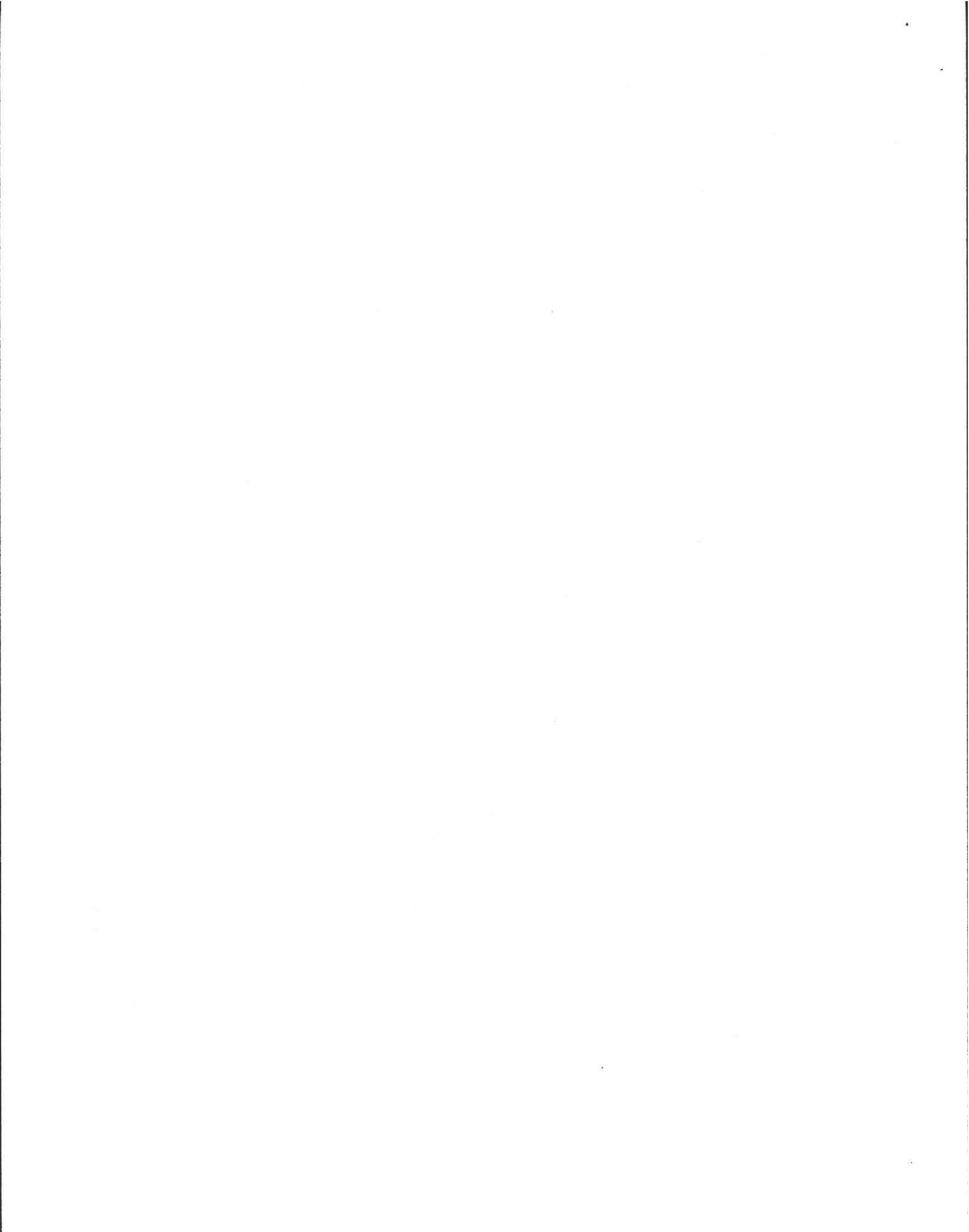
You must indicate "Yes" or "No" to each of the following for all inspections:

Yes No

- Yes No Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
- Yes No Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool
- Yes No Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
- Yes No Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow
- Yes No Required pumping more than 4 times in the last year **NOT** due to clogged or obstructed pipe(s). Number of times pumped: _____.
- Yes No Any portion of the SAS, cesspool or privy is below high ground water elevation.
- Yes No Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.
- Yes No Any portion of a cesspool or privy is within a Zone 1 of a public well.
- Yes No Any portion of a cesspool or privy is within 50 feet of a private water supply well.
- Yes No 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.]**

Yes 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.





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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.

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

YES

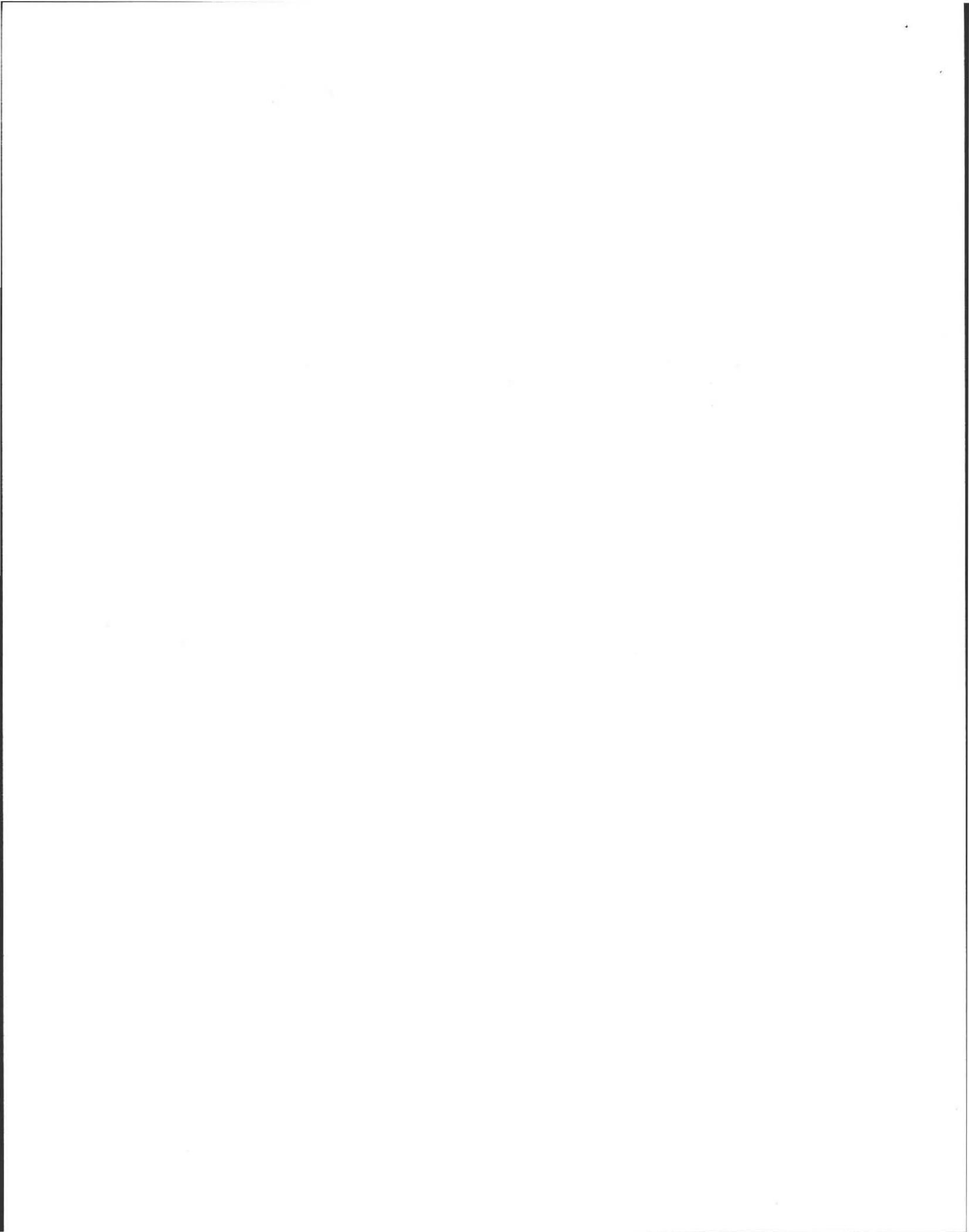
NO

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 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.





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B. Checklist

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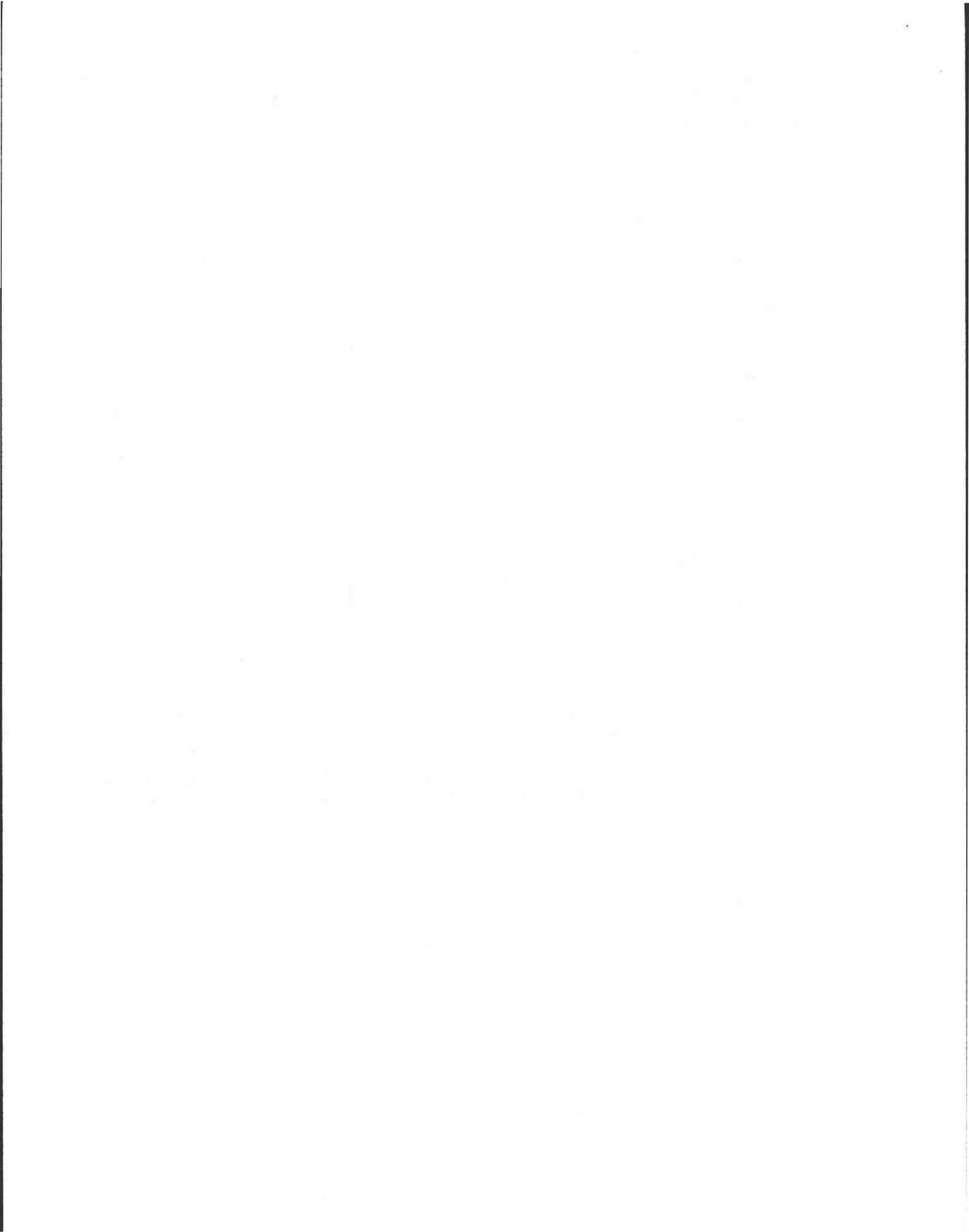
Zip Code

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

- | YES | NO | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | 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:

- | | | |
|-------------------------------------|--------------------------|---|
| <input 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(3)(b)] |





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C. System Information

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Residential Flow Conditions:

Number of bedrooms (design): _____ Number of bedrooms (actual): 4

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

Number of current residents: 4

Does residence have a garbage grinder? Yes No

Is laundry on a separate sewage system? [if yes separate inspection required] Yes No

Laundry system inspected? Yes No

Seasonal use? Yes No

Water meter readings, if available (last 2 years usage (gpd)): well 150'r d box

Sump pump? Yes No

Last date of occupancy: presently
Date

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

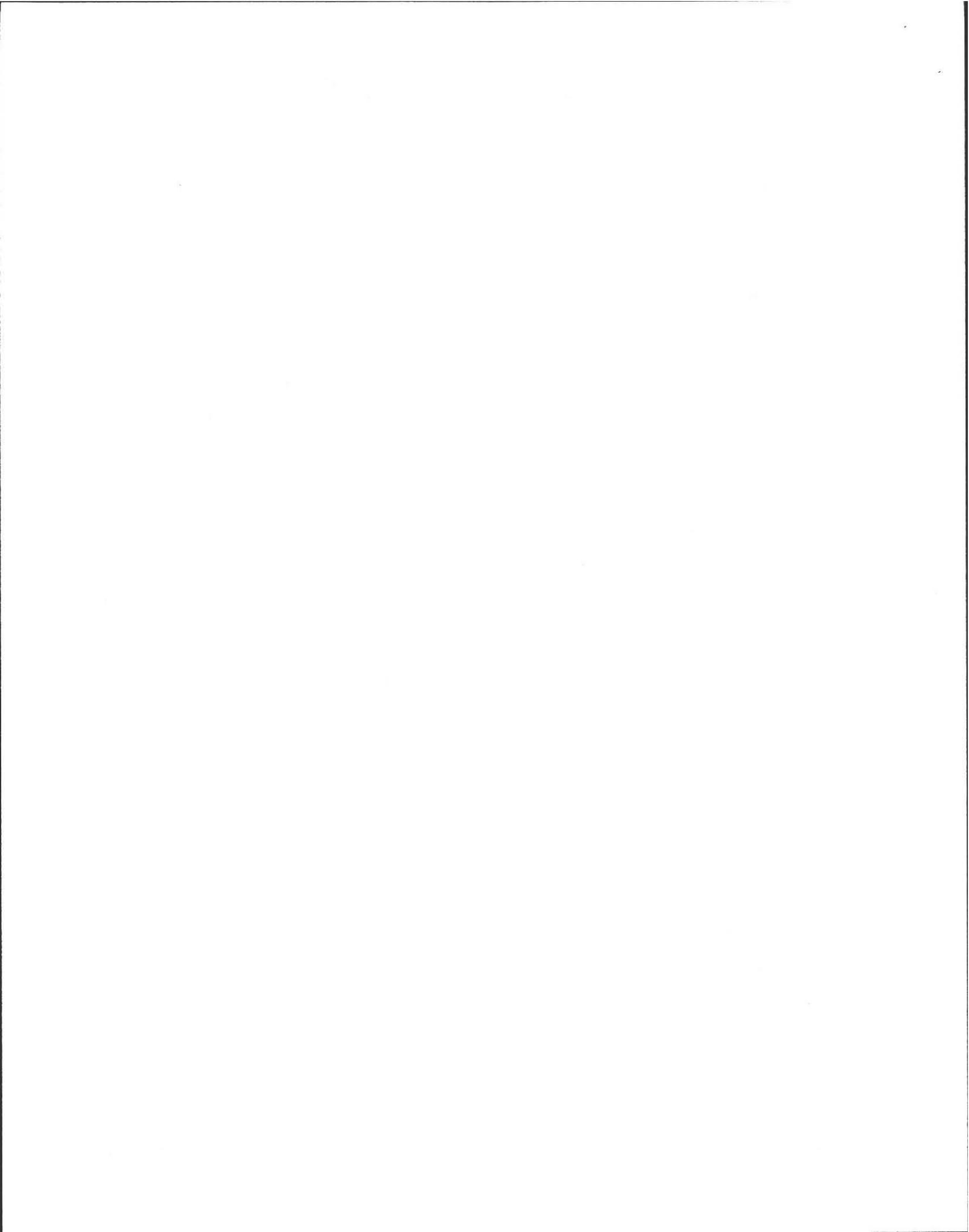
Industrial waste holding tank present? Yes No

Non-sanitary waste discharged to the Title 5 system? Yes No

Water meter readings, if available: _____

Last date of occupancy/use: _____
Date

Other (describe): _____





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General Information

Pumping Records:

Source of information:

owner - not pumped --Recommend as soon as possible

Was system pumped as part of the inspection?

Yes No

If yes, volume pumped:

gallons

How was quantity pumped determined?

Reason for pumping:

Type of System:

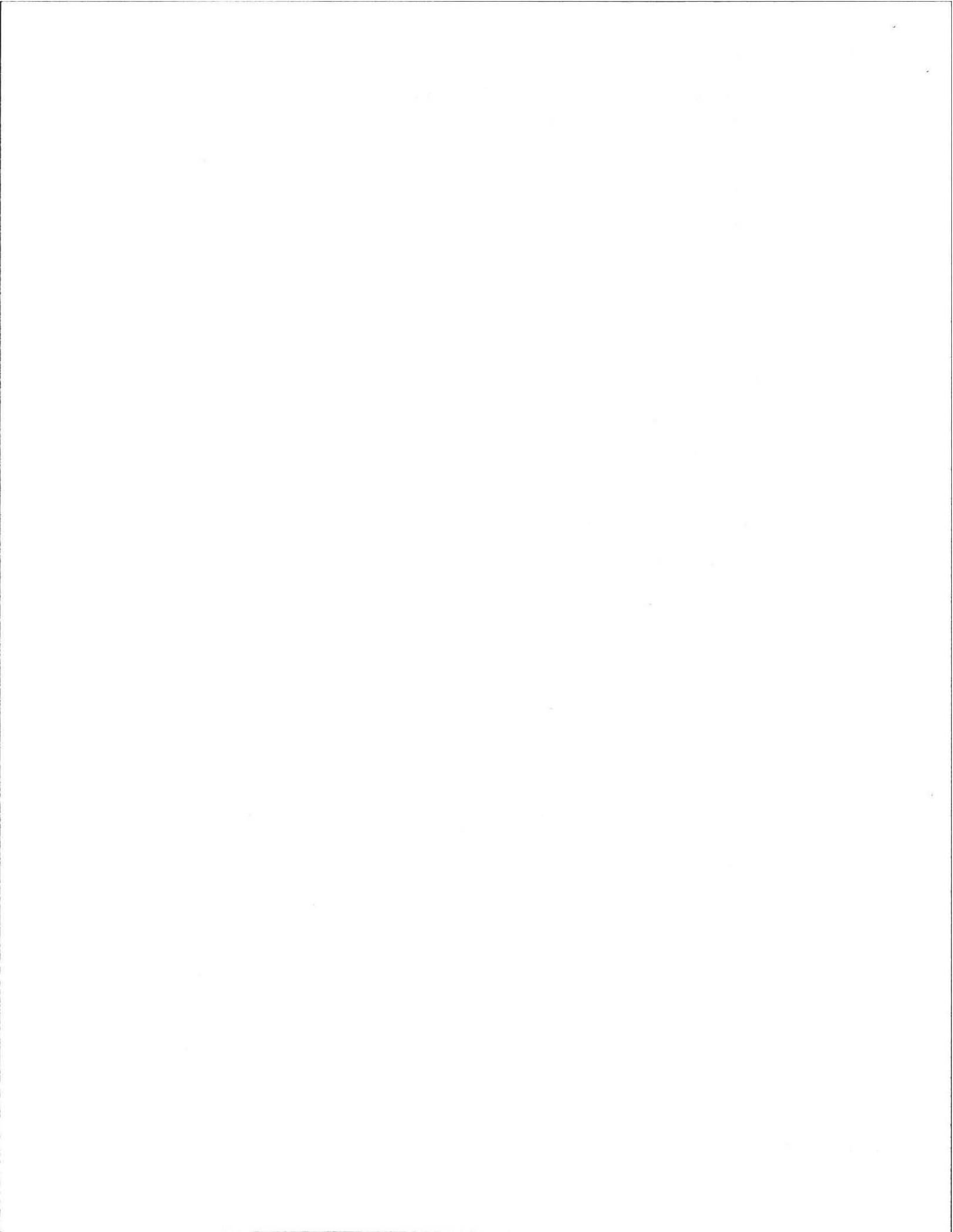
- Septic tank, distribution box, soil absorption system
- Single cesspool
- Overflow cesspool
- Privy
- Shared system (yes or no) (if yes, attach previous inspection records, if any)
- Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner)
- 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 2002

Were sewage odors detected when arriving at the site?

Yes No





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Building Sewer (locate on site plan):

Depth below grade:

2

feet

Material of construction:

cast iron

40 PVC

other (explain):

Distance from private water supply well or suction line:

80' to tank 150' to D box

feet

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

No evidence of leakage observed

Septic Tank (locate on site plan):

Depth below grade:

1.5

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

Sludge depth:

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

2 Compartment tank

Scum thickness

minimal

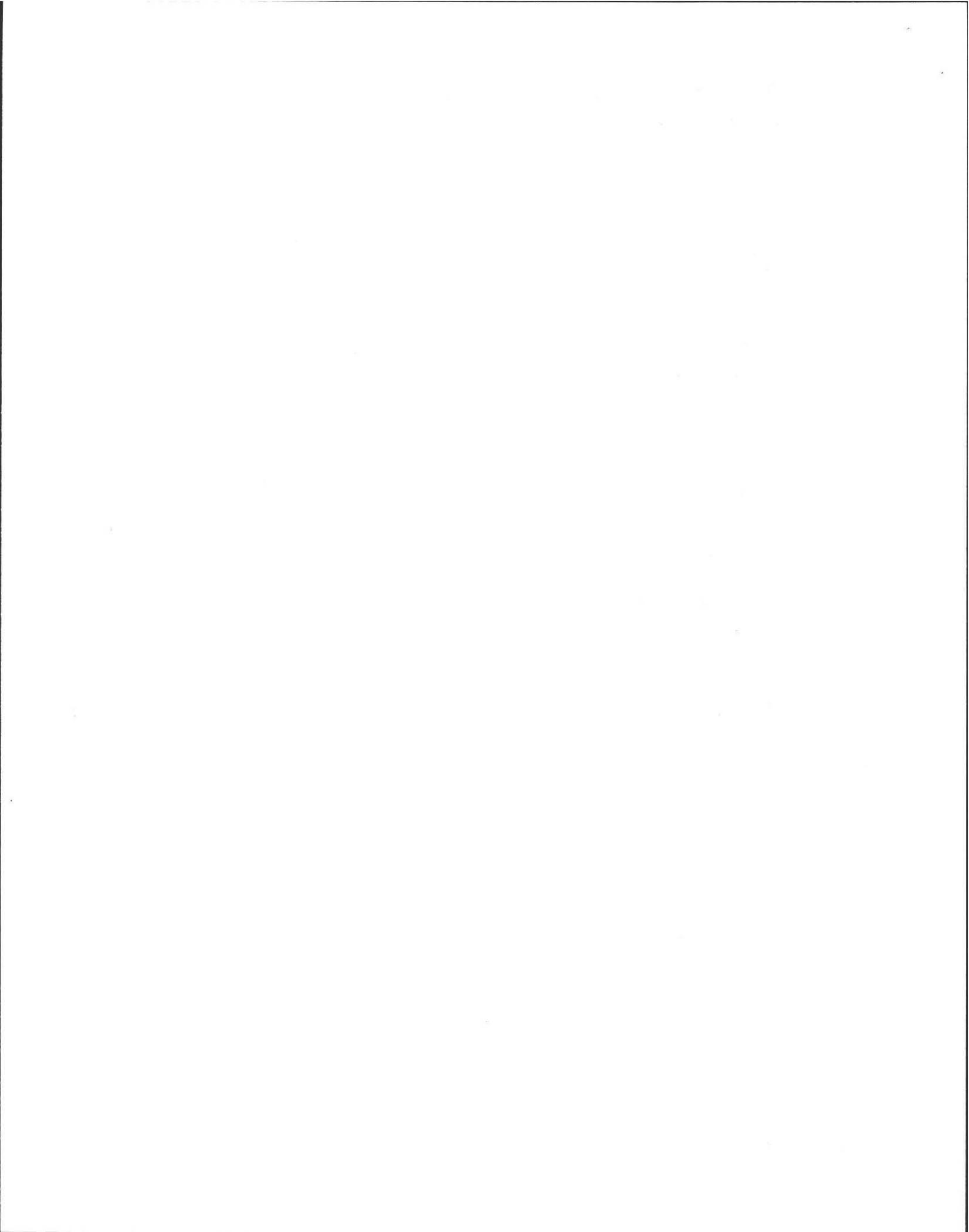
Distance from top of scum to top of outlet tee or baffle

5"

Distance from bottom of scum to bottom of outlet tee or baffle

How were dimensions determined?

Tape rule





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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 as soon as possible and a 2 year schedule to follow

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.):

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

Depth below grade: _____

Material of construction:

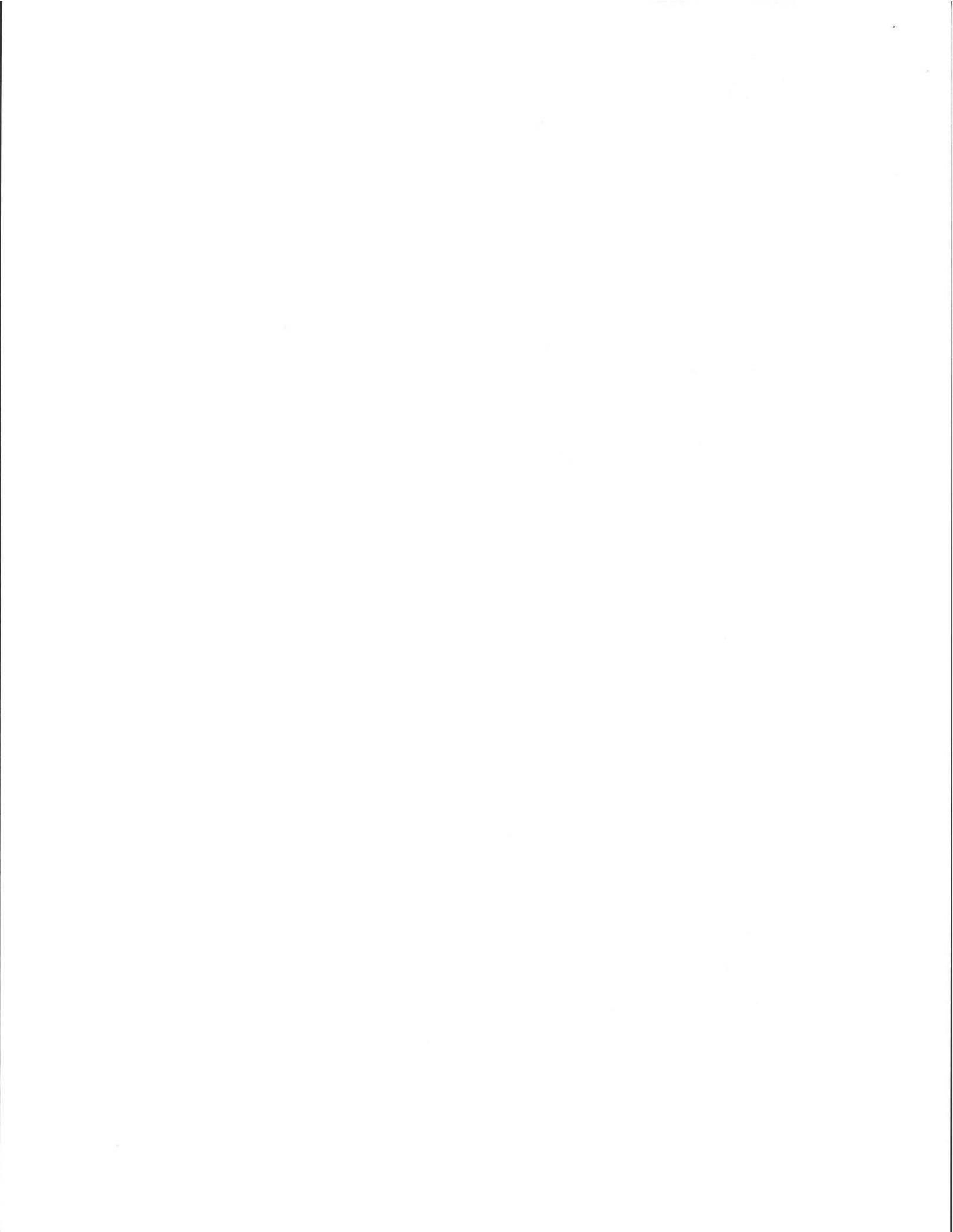
concrete

metal

fiberglass

polyethylene

other (explain):





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Tight or Holding Tank (cont.)

Dimensions: _____

Capacity: _____

gallons

Design Flow: _____

gallons per day

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.):

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

Depth of liquid level above outlet invert

0

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 is distributing evenly no evidence of leakage

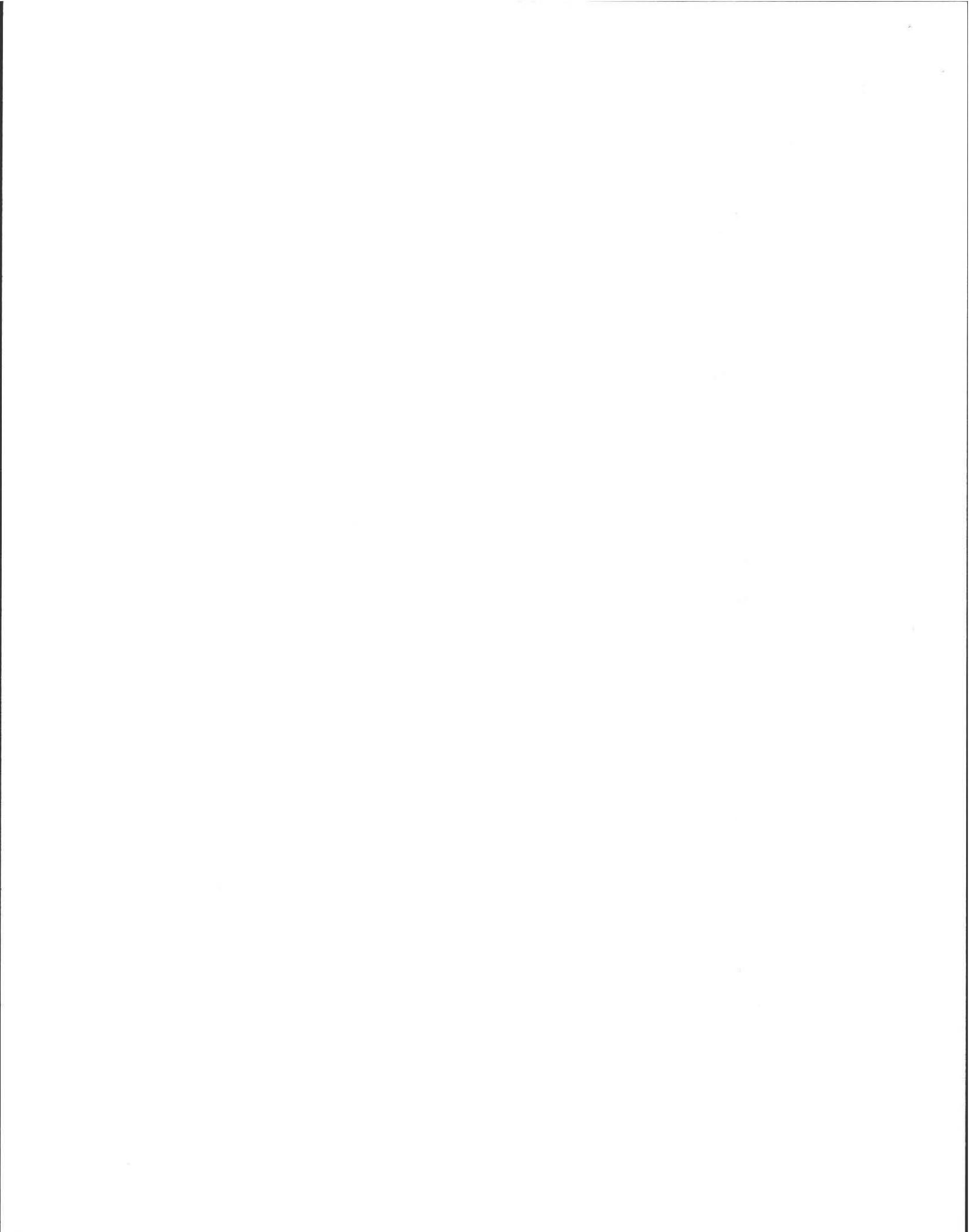
Pump Chamber (locate on site plan):

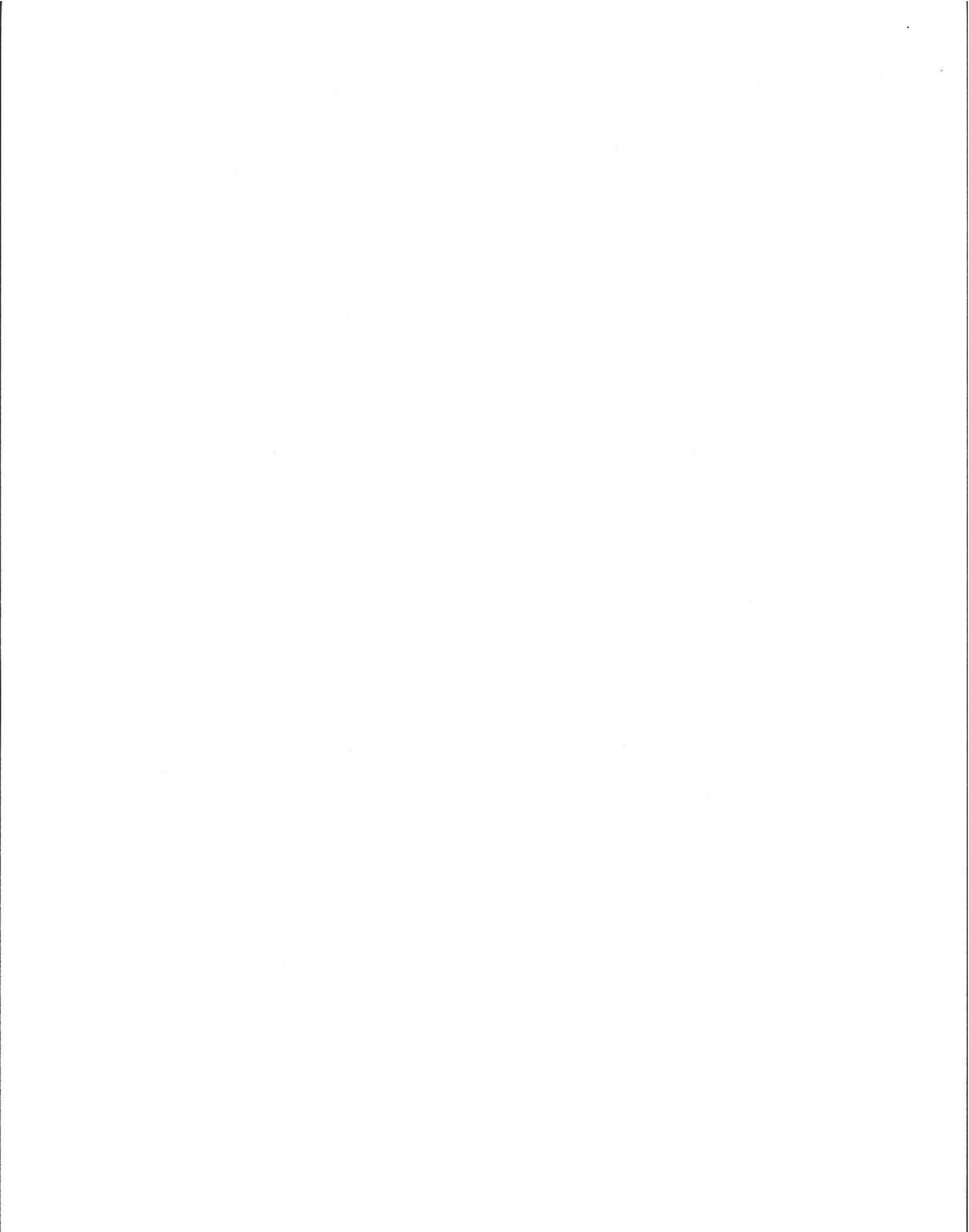
Pumps in working order:

Yes No

Alarms in working order:

Yes No







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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.):

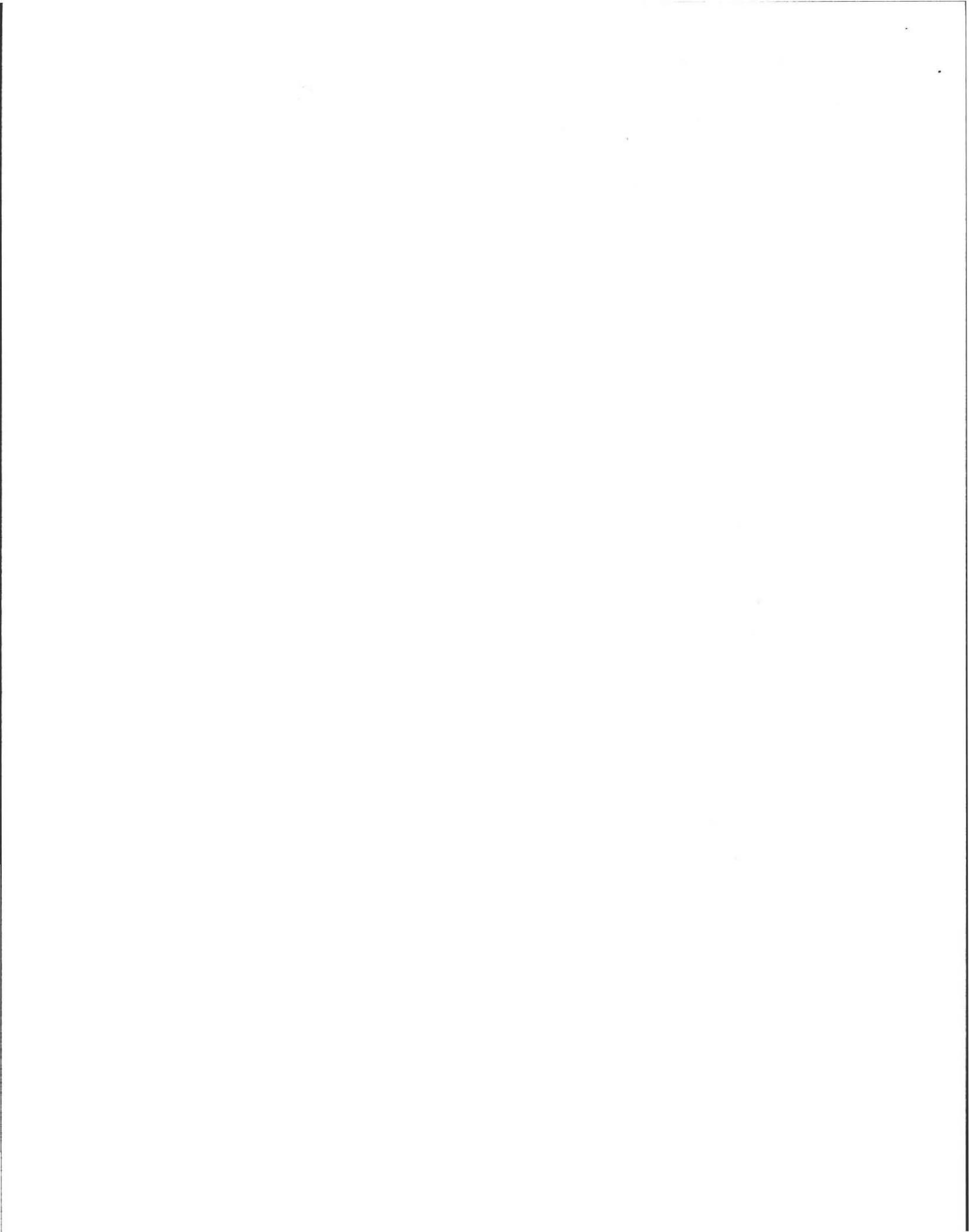
Privy (locate on site plan):

Materials of construction: _____

Dimensions _____

Depth of solids _____

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





Commonwealth of Massachusetts

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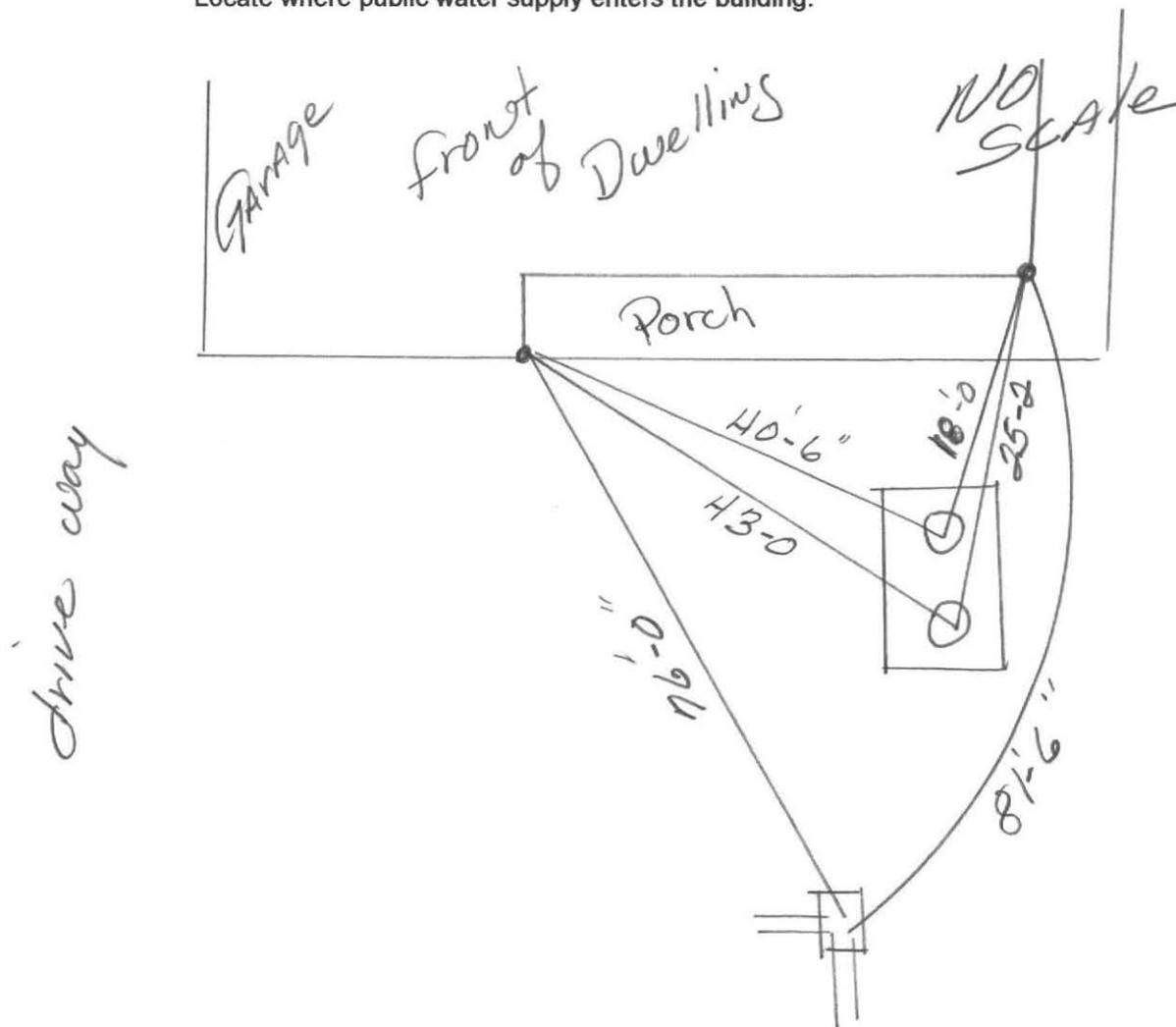
07/03/08

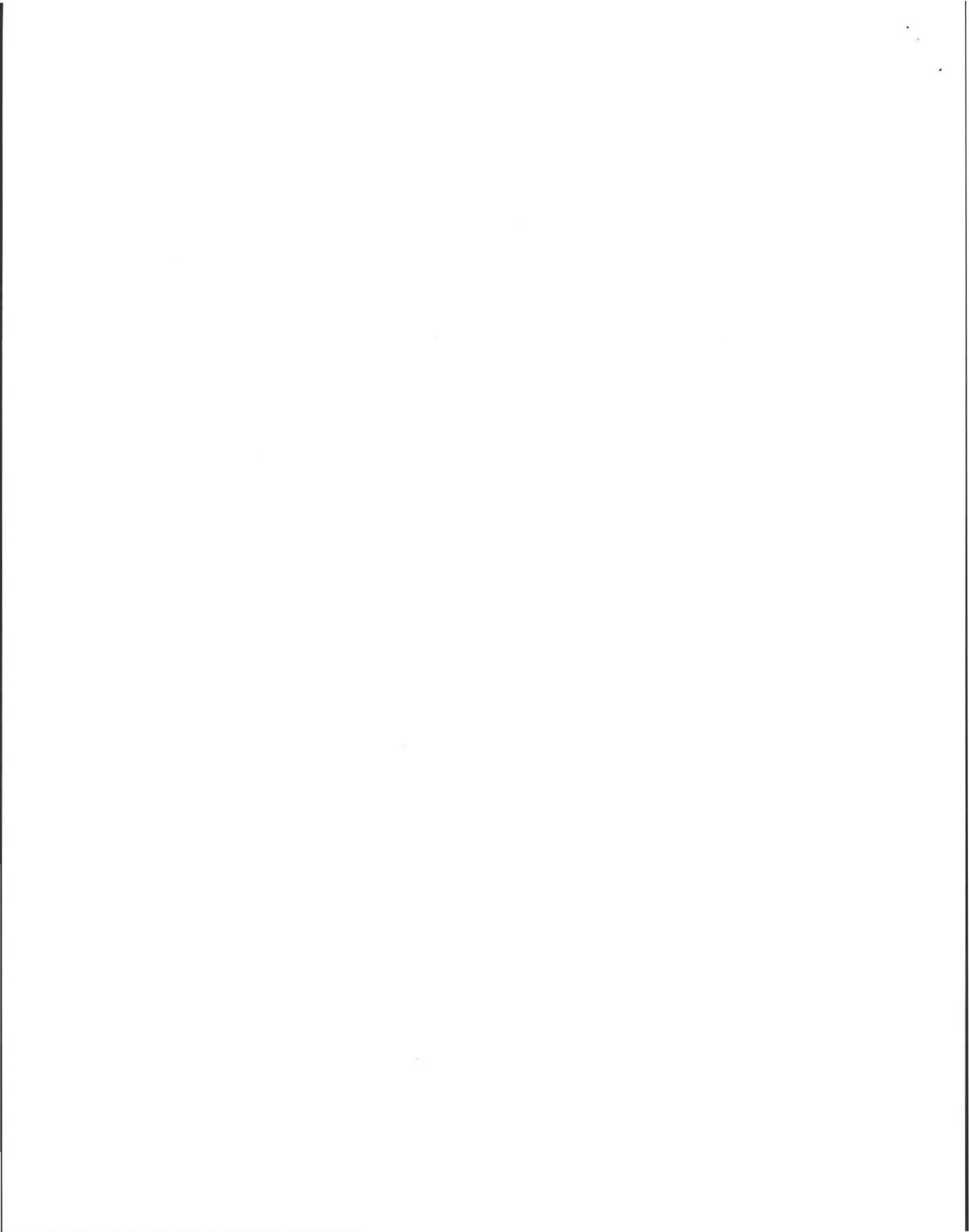
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Sketch Of Sewage Disposal System: Provide a sketch of the sewage disposal system including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building.







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Site Exam:

Slope *Medium*

Surface water *None*

Check cellar *dry*

Shallow wells *None*

Estimated depth to ground water: *8-10'*

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: _____ Date
- Observed 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:

Sight elevated and hard gravel excavation with sand

