

46 HIGHPOINT DRIVE

John Burgess



NO: _____ 9:00

Commonwealth of Massachusetts
Town of Dorchester

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: MARK THOMPSON Date: 8/26/04
Witnessed By: _____

Location Address of: <u>46 High Point</u>	Owner's Name: <u>John Burgess</u>
Lot # _____	Address of: <u>46 High Point</u>
	Telephone: <u>253-3027</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available? No Yes
Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available? No Yes
Year Published _____ Publication Scale _____
Geologic Material (map unit) _____
Landform _____

Flood Insurance Rate Map:

Above 500 year flood boundary? No Yes
Within 500 year flood boundary? No Yes
Within 100 year flood boundary? No Yes

Wetland Area:

National Wetland Inventory Map (map unit) _____
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (usgs): month _____
Range: Above Normal Normal Below Normal

Other Reference Reviewed:

PAID JAY
Fee 275⁰⁰

MARK THOMPSON
HILLTOWN ENV.
247-5464

Determination: Seasonal High Water Table

Methods Used:

- Depth observed standing in observation hole _____ inches
- Depth weeping from side of observation hole _____ inches
- Depth to soil mottles 54, 63 inches
- Ground water adjustment _____ feet

Index Well No. _____ Reading Date _____ Index Well Level _____
Adjustment factor _____ Adjusted ground water level _____

Depth of Naturally Occurring Previous Material

Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? Yes

If not, what is the depth of naturally occurring previous material?

Certification

I certify that on 4/29/97 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

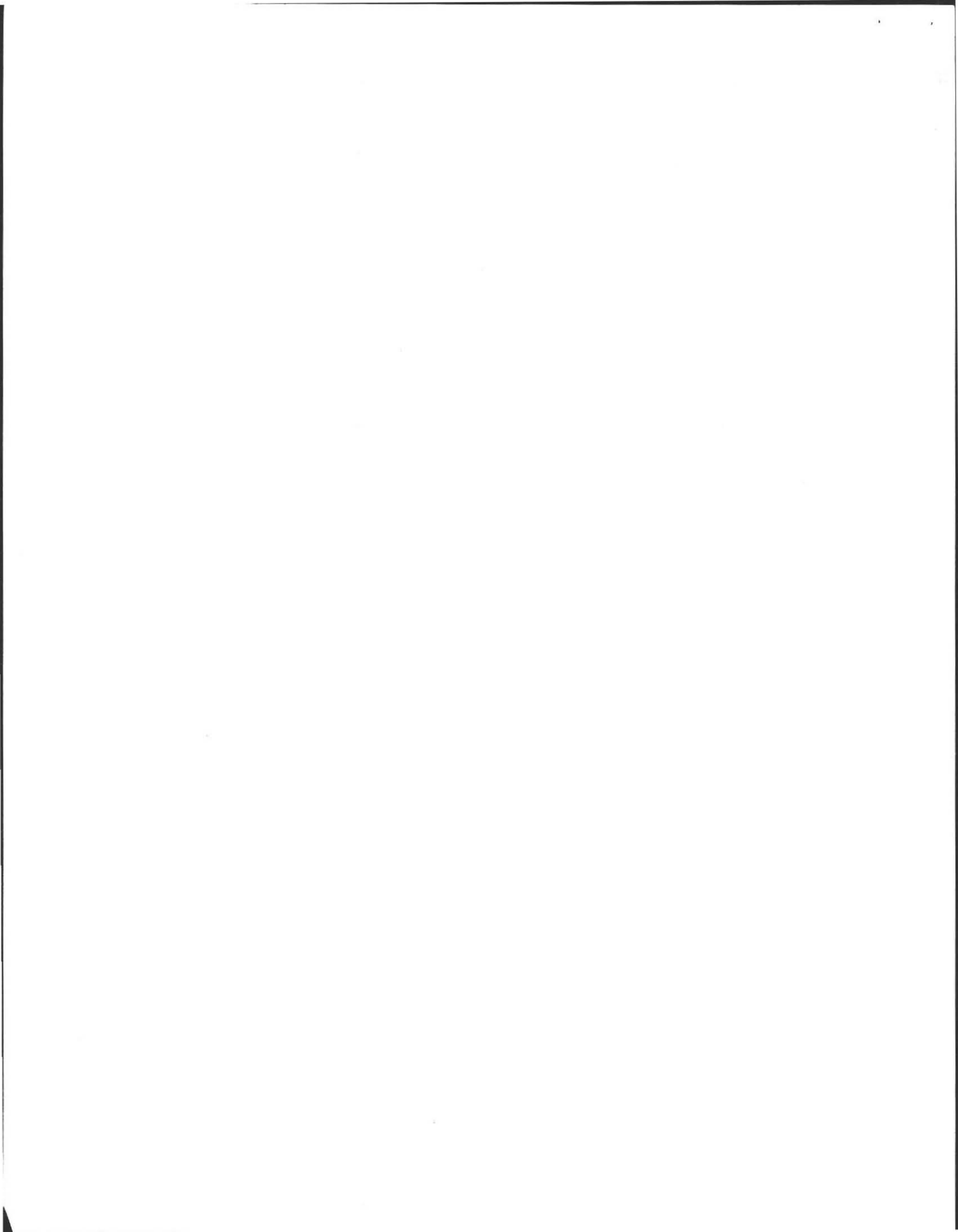
Signature Mark Thompson
Date 8/26/04

**HILLTOWN ENVIRONMENTAL
CONSULTING**

Perc. Testing • Septic System Designs • Title 5 Consulting

Mark T. Thompson
Hydrogeologist • Soil Evaluator • System Designer

Phone: (413) 247 - 5464
P.O. Box 226 North Hatfield, MA 01066



FORM 12: Percolation Test
Location Address or Lot #

46 High Point

Commonwealth of Massachusetts
Town of Amherst

PERCOLATION TEST *			
DATE:	8/26/04	TIME:	9:45
Observation Hole #	P 1		
Depth of Perc	42"		
Start Pre-soak	9:45 AM		
End Pre-soak	10:00 AM		
Time at 12"	10:00 AM		
Time at 9"	10:23 AM		
Time at 6"	11:03 AM		
Time (9"-6")	40 min		
Rate Min./Inch	14 min/inch		

REPAIR

*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed

Site failed

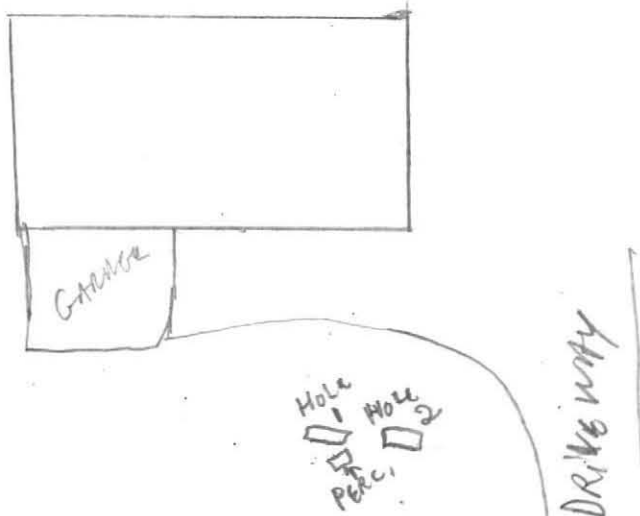
Performed by

MOCK THOMPSON Mark Thompson

Witnessed by

Shuman Silu

Comments:



High Point Drive

DRIVEWAY



Location Address or Lot No. 46 HIGH POINT DRIVE

On-site Review

Deep Hole Number 1+2 Date: 8/26/04 Time: 9:45am + 10:30am Weather: SUNNY 70°

Location (identify on site plan) _____

Land Use WOODS Slope (%) 3 Surface Stones FRW

Vegetation PINE, BEECH, HEMLOCK PINE, OAK, BEECH

Landform DRUM LIN DRUM LIN

Position on landscape (sketch on the back) _____

Distances from:

Open Water Body 200+ feet Drainage way 100+ feet
 Possible Wet Area 100+ feet Property Line 45 feet
 Drinking Water Well 100+ feet Other _____

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
<u>0-7"</u>	<u>A</u>	<u>FSL</u>	<u>10YR 2/2</u>		<u>LOOSE</u>
<u>7-19"</u>	<u>Bw</u>	<u>SL</u>	<u>7.5YR 5/6</u>		<u>FRIABLE</u>
<u>19-87"</u>	<u>C</u>	<u>SL</u>	<u>10YR 5/3</u>	<u>> 5% @ 63"</u> <u>10YR 5/8</u> <u>2.5 Y 7.2</u>	<u>FRIABLE</u> <u>15% GRAVEL</u> <u>15% COBBLES + STONES</u>
<u>0-6"</u>	<u>A</u>	<u>FSL</u>	<u>10YR 2/2</u>		<u>LOOSE</u>
<u>6-18"</u>	<u>Bw</u>	<u>SL</u>	<u>7.5YR 5/6</u>		<u>FRIABLE</u>
<u>18-96"</u>	<u>C</u>	<u>SL</u>	<u>10YR 5/3</u>	<u>> 5% @ 54"</u> <u>10YR 5/8</u> <u>2.5 Y 7.2</u>	<u>FRIABLE</u> <u>15% GRAVEL</u> <u>15% COBBLES + STONES</u>

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

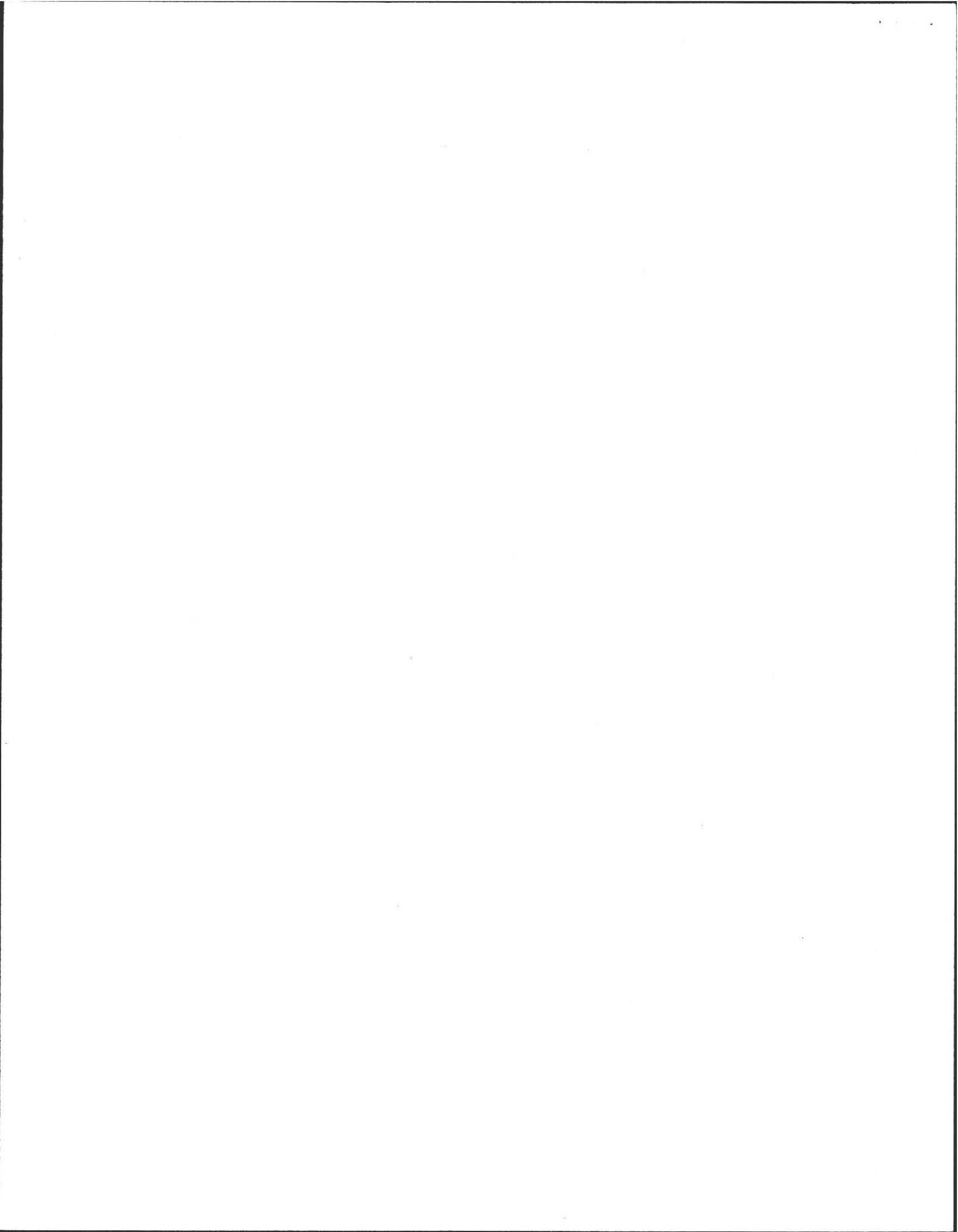
Parent Material (geologic) OUTWASH Depth to Bedrock: _____

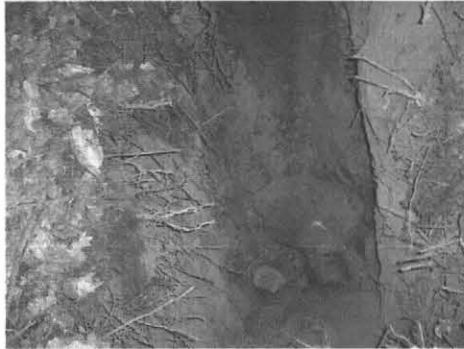
Depth to Groundwater: Standing Water in the Hole: _____ Weeping from Pit Face: _____

Estimated Seasonal High Ground Water: HOLE #1 63" HOLE #2 54"



HOLE #1 REFUSAL ON BOULDER @ 87"
HOLE #2 REFUSAL ON BOULDER OR LEDGE @ 96"





Hole # 1 8/26/04



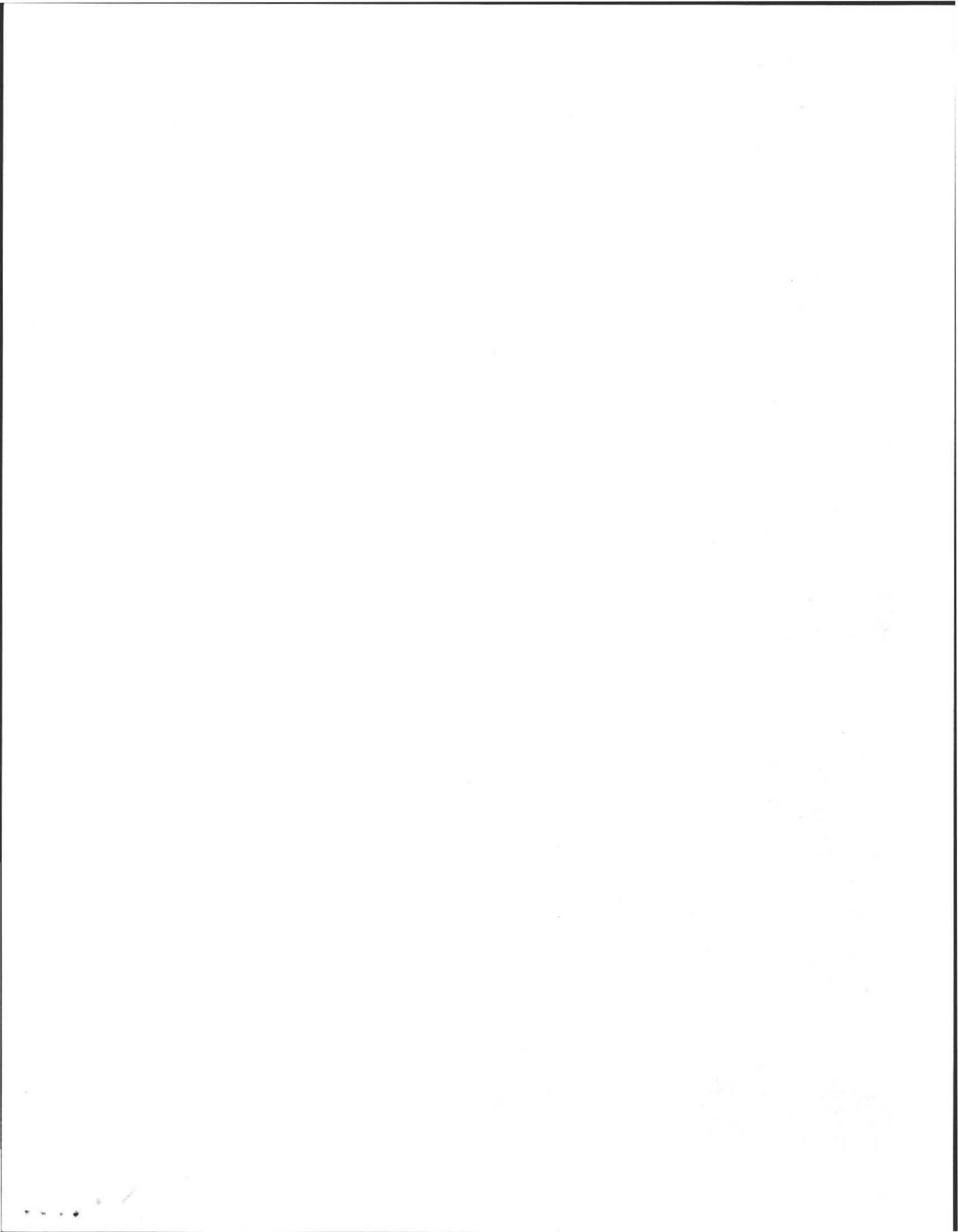
Perc test 8/26/04



Hole #2 8/26/04



Perc Test And Deep Holes for 46 Highpoint Drive 8/26/04
Engineer: Mark Thompson



AMHERST HEALTH DEPT.
TOWN OF AMHERST
HEALTH PERMITS

1216

Received of GHISLAINE BURGESS of 46 HIGH POINT DRIVE
Name Address

For Property Located at: 46 HIGH POINT DRIVE JOHN BURGESS
Street Address Owner

- | | |
|--|--|
| HEA009 Bakery _____
R6510 443509 | HEA016 Septic Tank Permit-Installers _____
R6510 443511 |
| HEA001 Bed & Breakfast _____
R6510 443516 | HEA017 Septic Tank Permit-Private _____
R6510 443510 |
| HEA002 Catering License _____
R6510 443507 | HEA018 Septic Tank Reinspection Fee _____
R6510 432301 |
| HEA003 Food Handler _____
R6510 443515 | HEA019 Sub-Division Review Fee _____
R6510 432306 |
| HEA004 Frozen Deserts _____
R6510 443501 | HEA012 Swimming Pool Permits _____
R6510 443512 |
| HEA005 Health Dept. Housing Isp. _____
R6510 432302 | HEA020 Tanning License _____
R6510 443509 |
| HEA006 Massage Therapy License _____
R6510 443504 | HEA034 Immunization Clinic _____
R6510 432307 |
| HEA008 Motel License _____
R6510 443506 | HEA026 Smoking & Tobacco Reg. Violations _____
R6510 443518 |
| HEA010 Removal of Offal _____
R6510 443513 | HEA022 Tobacco License _____
R6510 443505 |
| HEA021 Removal of Rubbish _____
R6510 443520 | HEA042 Body Arts / Tatoo _____
R6510 443521 |
| HEA011 Percolation Test Fees <u>\$175⁰⁰</u> _____
R6510 432300 | HEA043 Food Service Plan Review _____
R6510 432308 |
| HEA013 Recreation Camp License _____ | HEA044 Porta Potties _____
R6510 432309 |

HEA01
HEA01

JOHN I. BURGESS
GHISLAINE P. BURGESS
46 HIGH POINT DR.
AMHERST, MA 01002-1224

5-13/110
0363016715
7258
DATE Aug 26, 2004

PAY TO THE ORDER OF Town of Amherst \$ 275.00
Two hundred + seventy-five and ⁰⁰/₁₀₀ DOLLARS

Fleet
43303 www.fleet.com
Amherst Office
Amherst, Massachusetts 01002

MEMO Septic

001000138 03630 16715 7258

Ghislaine Burgess

E: \$275⁰⁰
PAID

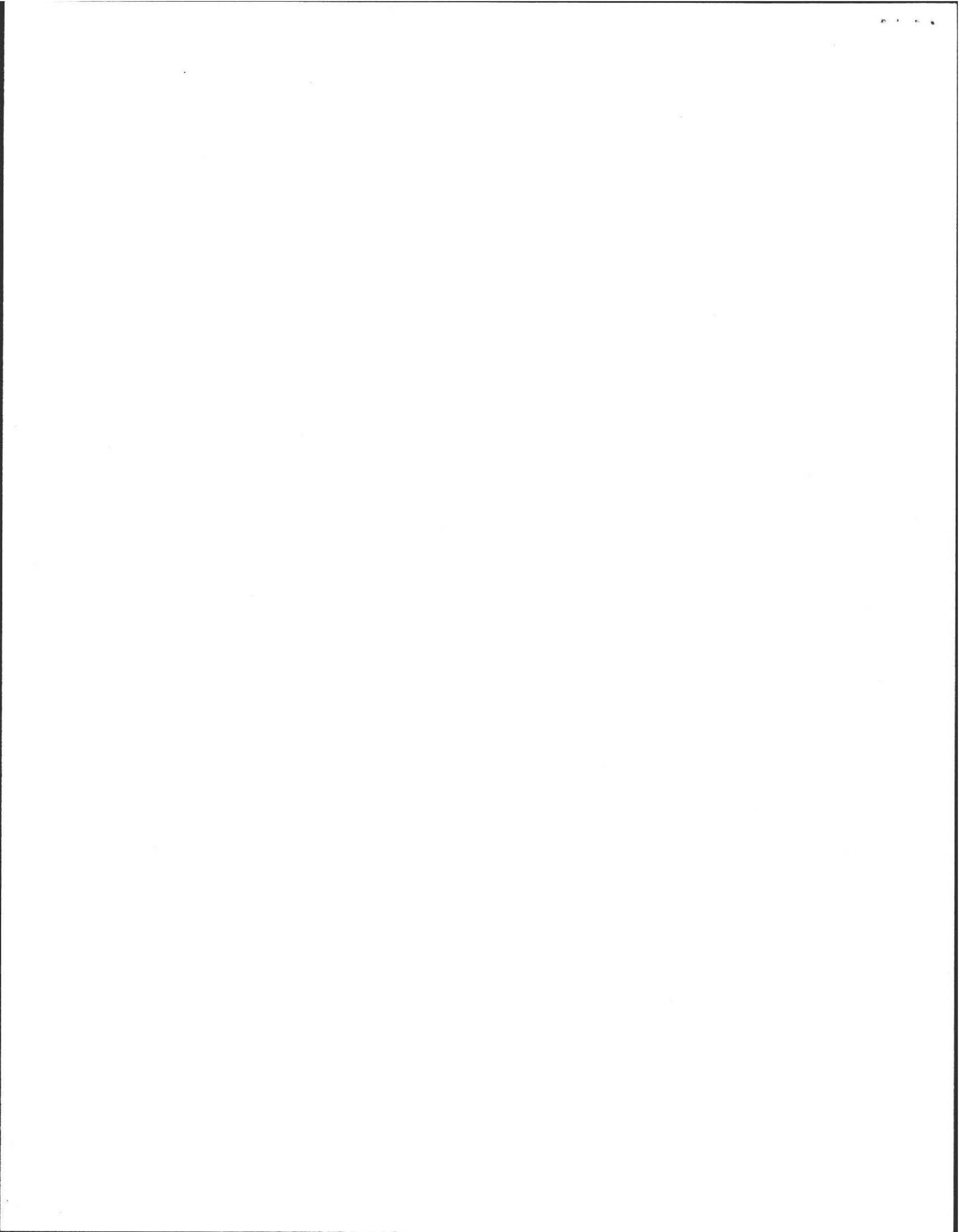
Amherst Health Department

OFFICE USE ONLY

CHECK #	CASH
7258	

Must be Validated by the Collector's Office to be considered paid

WHITE - Applicant YELLOW - Collector PINK - Accounting GOLD - Health / Inspections





Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed disposal area)

Deep Observation Hole: Date: 8/26/04 Time: 9:45 Weather: Sunny 70

- Deep Hole Number 1 Location (Identify on Plan): _____
- Land Use: Woods Surface Stones: Few Slope (%): 3 Vegetation: Pine, Beech, Hemlock
(e.g. woodland, agricultural field, vacant lot, etc)
Landform: Drumlin Position on landscape: _____
- Distances from: Open Water Body 200+ ft. Drainage Way 100+ ft. Possible Wet Area 100+ ft.
Property Line 45 ft. Drinking Water Well 100+ ft. Other _____ ft.
- Parent Material: Outwash Unsuitable Materials Present: Yes No
If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock Refusal on Boulder @ 87"
- Groundwater Observed: Yes No
If Yes: Depth Weeping from Pit _____ Depth Standing Water in Hole _____ Estimated Depth to High Groundwater: 63"

Depth (In.)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-7"	A	fSL	10YR 2/2						crumb	loose	
7-19"	B _w	SL	7.5YR 5/6						massive	friable	
19-87"	C	SL	10YR 5/3	63"	10YR 5/8 2.5Y 7/2	75%	15%	15%	massive	friable	

Additional Notes _____



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

Owner Name: John Burgess
 Street Address: 46 High Point Drive Map/Lot: _____
 City: Amherst State: MA Zip Code: 01002

HILLTOWN ENVIRONMENTAL CONSULTING
 P. O. BOX 226
 NORTH HATFIELD, MA 01066
 (413) 247 - 5464

B. Site Information

- (Check one) New Construction Upgrade Repair
- Published Soil Survey available? Yes No If yes: 1981 1:15840 GhB Gloucester
Year Published Publication Scale Soil Map Unit Soil Name
 Soil limitations Poor Filter
- Surficial Geological Report available? Yes No If yes: _____
Year Published Publication Scale Map Unit

Geologic Material Landform
- Flood Rate Insurance Map:
 Above the 500 year flood boundary? Yes No Within the 100 year flood boundary? Yes No
 Within the 500 year flood boundary? Yes No Within a Velocity Zone? Yes No
- Wetland Area: National Wetland Inventory Map _____
Map Unit Name
 Wetlands Conservancy Program Map _____
Map Unit Name
- Current Water Resource Conditions (USGS) 08/04 Range: Above Normal Normal Below Normal
Month/Year
- Other references reviewed: _____



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method used: Depth observed standing water in observation hole A. 1 B. 2
 Depth weeping from side of observation hole A. _____ B. _____
 Depth to soil redoximorphic features (mottles) A. 63" B. 54"
 Groundwater adjustment (USGS methodology) A. _____ B. _____
2. Index Well Number _____ Reading Date _____ Index Well Level _____
Adjustment Factor _____ Adjusted Groundwater Level _____

E. Depth of Pervious Material

1. Depth of Naturally Occurring Pervious Material
- a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? Yes No
- b. If yes, at what depth was it observed? Upper boundary: 18" Lower boundary: 87"

F. Certification

I certify that I have passed the soil evaluator examination* approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Mark Thompson
Signature of Soil Evaluator

Mark Thompson
Typed or Printed Name of Soil Evaluator

Thomas Dion
Name of Board of Health Witness

August 26, 2004
Date

April 29, 1997
*Date of Soil Evaluator Exam

Amherst (Agent)
Board of Health

HILLTOWN ENVIRONMENTAL CONSULTING
P. O. BOX 226
NORTH HATFIELD, MA 01066
(413) 247 - 5464



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed disposal area)

Deep Observation Hole: Date: 8/26/04 Time: 10:30 Weather: Sunny 70

- Deep Hole Number 2 Location (Identify on Plan):
- Land Use: Woods Surface Stones: Few Slope (%): 3 Vegetation: Pine, Oak, Beech
(e.g. woodland, agricultural field, vacant lot, etc)
Landform: Drumlin Position on landscape:
- Distances from: Open Water Body 200+ ft. Drainage Way 100+ ft. Possible Wet Area 100+ ft.
Property Line 45 ft. Drinking Water Well 100+ ft. Other ft.
- Parent Material: Outwash Unsuitable Materials Present: Yes No
If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock Refusal on Boulders or Ledge @ 96"
- Groundwater Observed: Yes No
If Yes: Depth Weeping from Pit Depth Standing Water in Hole Estimated Depth to High Groundwater: 54"

Depth (In.)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features (mottles)			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-6"	A	fSL	10YR 2/2						crumb	loose	
6-18"	B _w	SL	7.5YR 5/6						massive	friable	
18-96"	C	SL	10YR 5/3	54"	10YR 5/8 2.5Y 7/2	> 5%	15%	15%	massive	friable	

Additional Notes _____



Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Wastewater Permitting Program
Form 12 – Percolation Test

46 High Point Drive
Site Address or Map/Lot Number

A. Facility Information

1. Facility Information

John Burgess
Owner Name
46 High Point Drive Map/Lot _____
Street Address
Amherst City MA State 01002 Zip Code

Percolation Test*		
Date:	8/26/04	
Observation Hole #	P-1	
Depth Of Perc	42"	
Start Pre-soak	9:45	
End Pre-soak	10:00	
Time at 12"	10:00	
Time at 9"	10:23	
Time at 6"	11:03	
Time (9"-6")	40 MIN	
Rate – Min/Inch	14 MIN/IN	

* Minimum of 1 Percolation test must be performed in both the primary area AND reserve area.

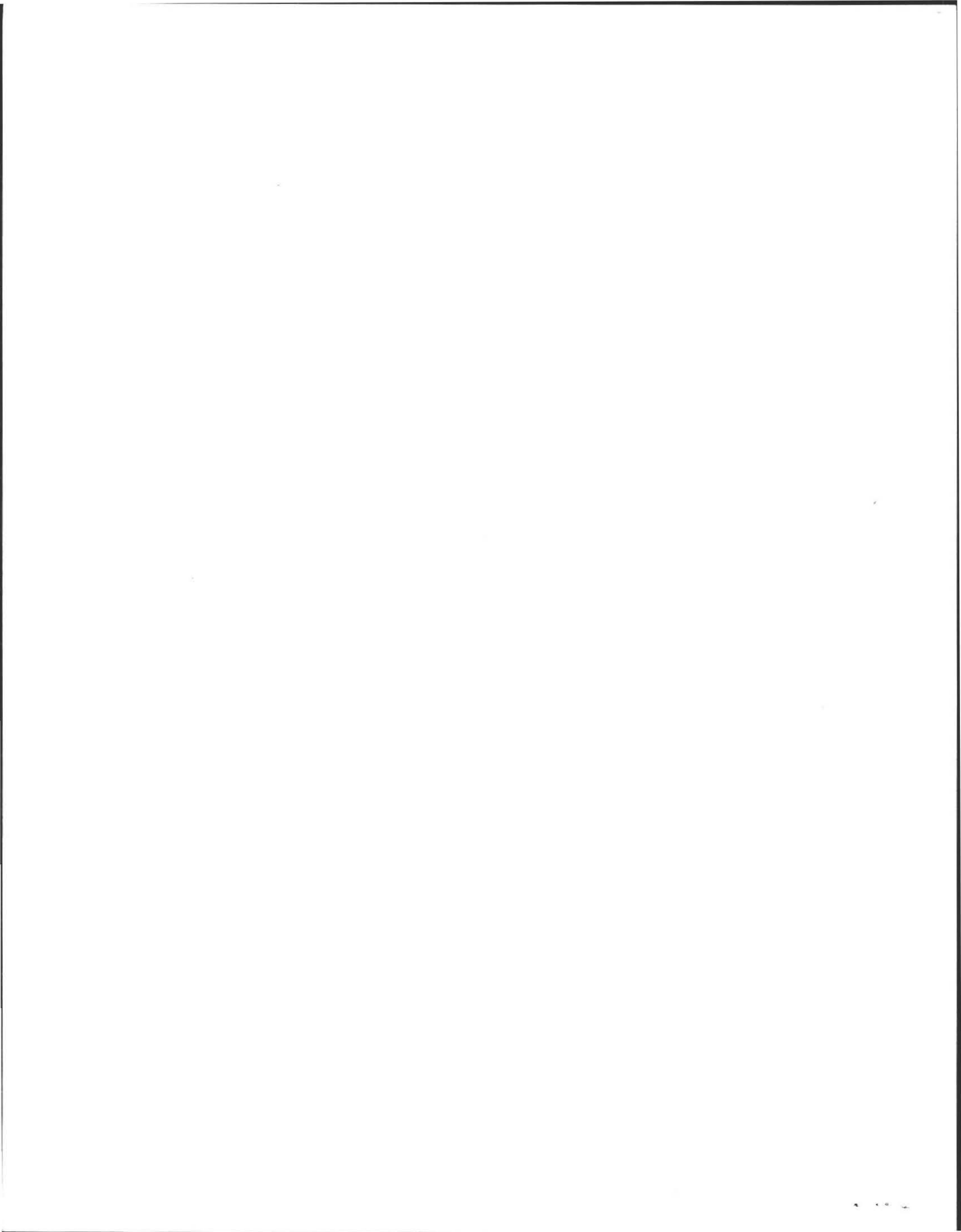
Site Passed Site Failed

Performed By: Mark Thompson

Witnessed By: Thomas Dion

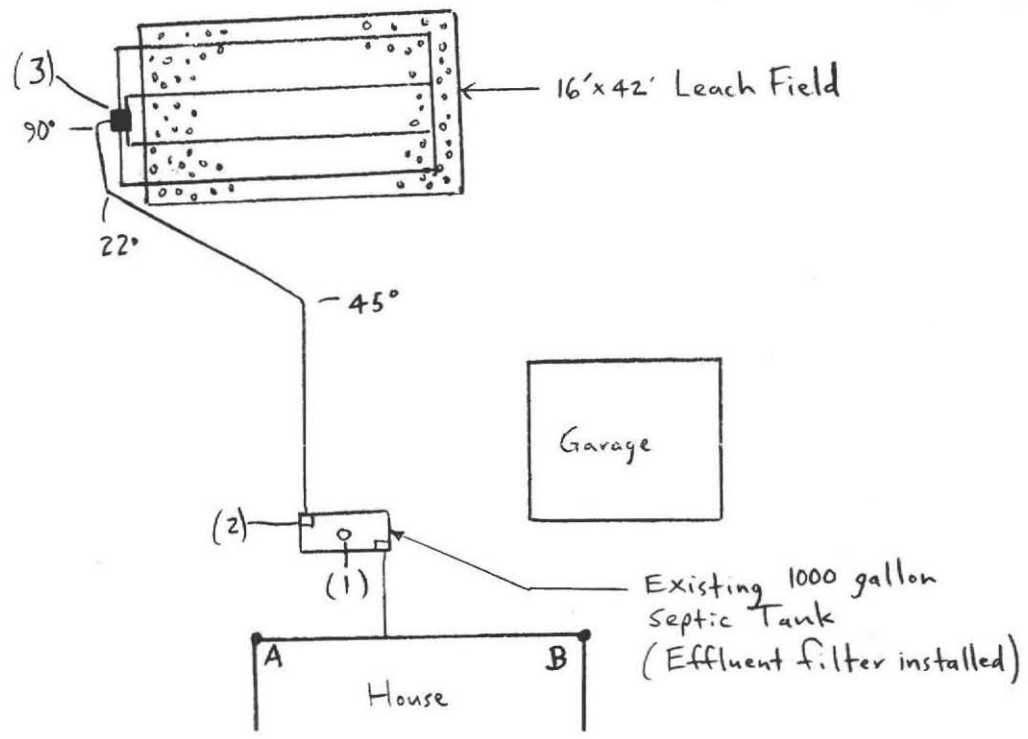
Comments: _____

HILLTOWN ENVIRONMENTAL CONSULTING
P. O. BOX 226
NORTH HATFIELD, MA 01066
(413) 247 - 5464



Soil Absorption System Installed by Adair Construction
at 46 High Point Drive, Amherst - December 2004

Component	As-Built Distance
Septic Tank Center Cover	A-1 16'
	B-2 27'
Septic Tank Outlet (Filter) Cover	A-2 16'8"
	B-2 30'10"
D-Box	A-3 93'
	B-3 106'9"



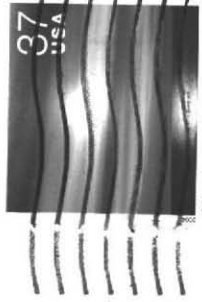
Sketch Not to Scale

1000

1000

HILLTOWN ENVIRONMENTAL
CONSULTING
P.O. BOX 226
NORTH HATFIELD, MA 01066

received
12-21



Altostratus translucidus

Dave Zarozinski
% Board of Health
Town Hall
4 Boltwood Ave
Amherst MA 01002

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