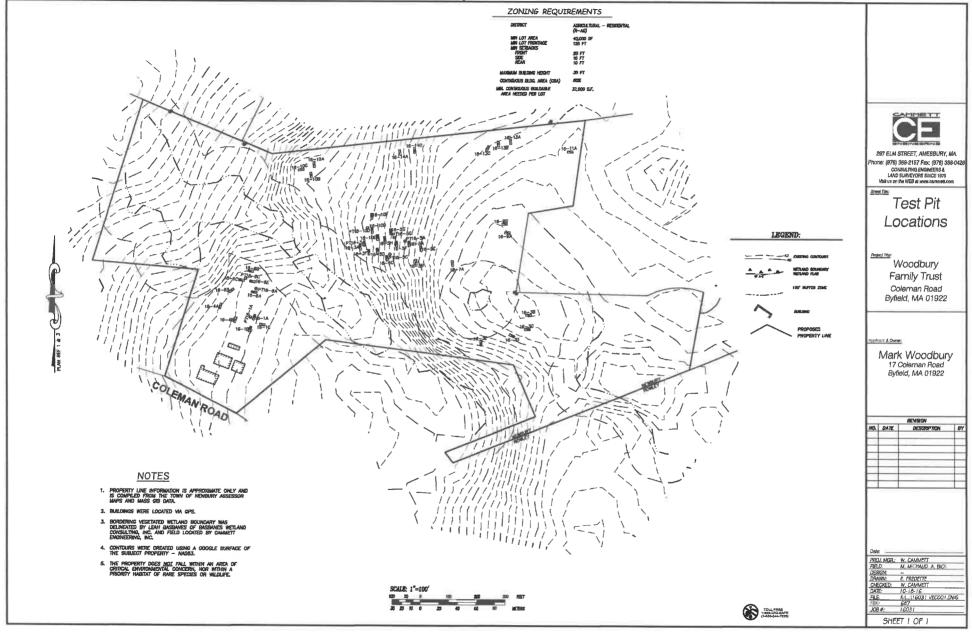
15 Coleman



# FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job # /603 /
Determination for Seasonal High Water Table

| Method Used: Test Hole  | e Number 16 – 5H   |
|---|--|
| Depth observed standing in observation ho                                     | le inches  |
| Depth weeping standing in observation ho                                      | le inches  |
| Depth to soil mottles   | 30 inches  |
| Ground water adjustment   | feet   |
| Index Well Number Reading Adjustment factor Adjusted                          | Date Index well level ground water   |
| Depth of Naturally Occurring Pervio   | ous Material   |
| Does at least four feet of naturally of observed throughout the area proposed | sed for the soil absorption system?  |
| If not, what is the depth of naturally  | occurring pervious material?   |
| Certification   |  |
| been performed by me consiste<br>described in 310 CMR 15.017.                 | proved by the Department of Environmental Protection conduct soil evaluations and that the above analysis has not with the required training, expertise and experience I further certify that the results of my soil evaluation, as Evaluation Form, are accurate and in accordance with 310 |
| Signature   | Date   |
| NOTE: See accompanying cover letter   | r which is part of this report.  |

|                         | The state of the s |             |
|-------------------------|--|-------------|
|                         | Percolation Test*  |             |
| Date: Observation Hole# | 9/1/2016 Time:   |             |
|                         | 16-1A  | Mar lo A    |
| Depth of Perc           | 60"  | 58"         |
| Start Pre-soak          | 11:25 AM   | 11:30 AM    |
| End Pre-soak            | 11:40 Au   | 11:45 HM    |
| Time at 12"             | 11:40  | 11:45       |
| Fime at 9"              | 64 6 12:124 (est. 12:09  |             |
| Γime at 6"              | 544 C 2159   | 7:01        |
| Fime (9"-6)             |  |             |
| Rate Min./Inch          | 30 Min   | 33 min      |
|                         | 10 mm / 1116H  | 11 millimen |
|                         |  |             |
|                         |  |             |

| .0  | Percolation Test* 44         | of many police                          |  |
|---|------------------------------|---|--|
| Date: 9/  | 1201L Time:                  |   |  |
| Observation Hole#                                     | 16.5A                        | 1( ===                                  |  |
| Depth of Perc   | September 197                |   |  |
| Start Pre-soak  | 1 sales                      | 161012                                  |  |
| End Pre-soak  | 172 1.09                     |   |  |
| Fime at 12"   | 12:00                        | 17.5                                    |  |
| Time at 9"  | 6.99                         | 111111111111111111111111111111111111111 |  |
| Fime at 6"  |                              | 31/1 12 14 CS+ 12:48                    |  |
| Time (9"-6)   | 1:41                         |   |  |
|   | Nim čo                       | 23                                      |  |
| late Min./Inch  | The wes                      | 23<br>8 MAT                             |  |
|   |                              |   |  |
|   |                              |   |  |
|   |                              |   |  |
|   |                              |   |  |
| * 1/1-1   |                              | in both the naimener area ANT           |  |
| * Minimum of 1 percol                                 | ation test must be performed | in both the primary area AN             |  |
| reserve area.   | ation test must be performed | in both the primary area AN             |  |
| * Minimum of 1 percol reserve area.  te Passed Site F |                              | in both the primary area AN             |  |
| te Passed Site F                                      |                              | in both the primary area AN             |  |

|                   | Percolation Test* | National Property of the Parket |
|-------------------|-------------------|---------------------------------|
| Date:             | 0/6/2010 Time:    |                                 |
| Observation Hole# |                   | 17 Masia,                       |
| Depth of Perc     | 99 11-5C<br>50"   | 20                              |
| Start Pre-soak    | 11126 AW          | 11.12.3 40.                     |
| End Pre-soak      | l. II.A.          |                                 |
| Γime at 12"       | 1752              | 11:44                           |
| Time at 9"        | 12:25             |                                 |
| ime at 6"         |                   | 12:00                           |
| ime (9"-6)        | /:50              | 12:26                           |
| ate Min./Inch     | 95 mm             | "la :-                          |
| Ale Will./Inch    | 28 31PI           | a was                           |
|                   |                   |                                 |
|                   |                   |                                 |

Site Failed

Performed By:

Witnessed By:

Comments:

R. Blanchette / E. Fredette
D. Rogers (Newbury BOH)

| Location Address or Lot No. | 15 coleman Read                                      |
|-----------------------------|--|
| Job# 16031                  |  |
|                             | COMMONWEALTH OF MASSACHUSETTS Newbury, Massachusetts |

| Time:  11-100: PT 16-16C-  446"  31 // 105 |
|--|
| 11-100 PT 16-10C-                          |
| At p"                                      |
|  |
|  |
| 410 1:50                                   |
| 1150                                       |
| and Maria                                  |
| 5/08/100 (artizis                          |
|  |
| LANT 30 MPT                                |
|  |

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

| Site Passed   |     | Site I | ailed |       |          |  |
|---------------|-----|--------|-------|-------|----------|--|
| Performed By: | R.B | lanche | tte   | /E    | Fredette |  |
| Witnessed By: | D.E | ogers  | (No   | would | 4 BOH)   |  |
| Comments:     |     |        |       |       |          |  |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

## **Determination for Seasonal High Water Table**

| Method Used:  | Test Hole Number   | 16-5G                   |                        |
|---|--|-------------------------|------------------------|
| Depth observed standing in  | observation hole   | inches                  |                        |
| Depth weeping standing in   | observation hole   | inches                  |                        |
| Depth to soil mottles   | alc  | inches                  |                        |
| Ground water adjustment   |  | feet                    |                        |
| Index Well Number Adjustment factor   | Reading Date Adjusted ground water   | Index well level        |                        |
| Depth of Naturally Occur  | ring Pervious Material   |                         |                        |
| Does at least four feet of observed throughout the  If not, what is the depth o | area proposed for the  | soil absorption system? | n all areas            |
| Certification   | naturally occurring  | pervious material?      |                        |
| been performed by n<br>described in 310 CM                                      | ne consistent with the<br>IR 15.017. I further can<br>ched Soil Evaluation F | required training, expe | the chara analysis has |
| Signature   | Date   |                         |                        |
| NOTE: See accompanying  | cover letter which is p  | art of this report.     |                        |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Deep Hole Number                    | 16-5H Dat            | 0 10/6/201                 |                   | 30 AM Weather | Char, 400  |
|-------------------------------------|----------------------|----------------------------|-------------------|---------------|--|
| Location (identify on               | site plan) reter     | Slope (%)                  | in lattached      |               |  |
| Vegetation -                        | dwood tree.          |                            | Surface Stor      | es None       |  |
| Landform Position on landscape      | (sketch on the book) | rate 1                     | 611.01.7          | 10            |  |
| Distances from:                     |                      | Cefer to                   | Site Plan (       | effacued)     |  |
| Open Water Bod<br>Possible Wet Area |                      | Drainage way Property Line | 200 feet          |               |  |
| Drinking Water We                   | <u> </u>             | Other                      | 210 feet          |               |  |
|                                     |                      | DEEP OBSERV                | ATION HOLE LO     | G             |  |
| Depth from Surface                  | Soil Horizon         | Soil Texture               | Soil Color        | Soil Mottling | Other  |
| (Inches)                            |                      | (USDA)                     | (Munsell)         | Non Monada    | (Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-9                                 | A                    | 31-                        | 10 WR 3(3         |               | massine, france  |
| 9-20                                | В                    | sl                         | 2542518           |               | franks.  |
|                                     |                      |                            |                   |               | WITCH B.   |
| 20-30                               | BIC                  | SU                         | 254 44            |               | france   |
| 30-94                               | C                    | 52                         | 254 54            |               | des arus lyo   |
|                                     |                      |                            |                   | 174           | 0.00   |
|                                     |                      |                            |                   |               |  |
|                                     |                      |                            |                   |               |  |
|                                     |                      | 7                          |                   |               |  |
|                                     |                      |                            |                   |               |  |
|                                     |                      | 2                          |                   |               |  |
| eceiving Layers                     |                      |                            | Design Class      | I             |  |
| arent Material (geologic)           | <u>t:11</u>          |                            | Depth to Bedrock: |               |  |
| epth to Groundwater:                | Standing Water       | in the Hole:               | Weeping from      | Pit Face:     |  |
|                                     | _                    |                            |                   |               |  |
|                                     | Esalitated 269       | sonal High Ground \        | water: 50         |               |  |



Woodbury C. Cammett, PE MA, NH
Robert B. Blanchette, PE, SIT
Robert E. Smith, PLS MA, NH
Denis Hamel, CPESC
Emily Fredette, EIT

#### Consulting Engineers and Land Surveyors

Land Survey

October 10, 2016

Mark Woodbury 17 Coleman Road Newbury, MA 01922

Re:

Soil and percolation tests at 15 Coleman Road -- CE #16031

Dear Mr. Woodbury,

In accordance with your request, soil and percolation tests were conducted on the subject lot(s) on October 5 & 6, 2016, in order to determine the feasibility of subsurface sewage effluent disposal for single family dwellings. Soil tests were observed and percolation tests were performed in accordance with the enclosed Evaluation Form (11) and Percolation Test Form (12).

Soil tests at sites 16-1A, 16-1B, 16-6A, 16-6C, 16-6D, 16-6E, 16-10D, 16-10E, 16-10F, 16-3A, 16-3C, 16-3D, 16-3E, 16-3F, 16-5A, 16-5C, 16-5D, 16-5F, 16-5G, and 16-5H meet the minimum requirements of Title 5 of the State Environmental Code for the subsurface disposal of sewage effluent, acceptable percolation rate. However, it is important to note at this time that all other requirements of Title 5 and any local regulations must be met in order that a sanitary system design can be accepted and approved by the local Board of Health.

Soil tests at sites 16-1C, 16-4A, 16-4B, 16-6B, 16-10A, 16-10B, 16-10C, 16-14A, 16-14B, 16-13A, 16-13B, 16-13C, 16-11A, 16-9A, 16-9B, 16-3B, 16-7A, 16-5B, and 16-5E do not meet the minimum requirements of Title 5 of the State Environmental Code for the subsurface disposal of sewage effluent. These locations had shallow depths to ledge and did not have four feet of naturally occurring pervious material. The locations of tests which do not meet the requirements are unsuitable for the subsurface disposal of sewage effluent.

If you have any questions regarding this matter, please feel free to contact me at this office.

Very truly yours,

W. C. Cammett Engineering, Inc.

Robert B. Blanchette, Jr.

cc: Board of Health

Title: M\Winword\2016\16031\6\F\16035 SOIL.doc

W.C. Cammett Engineering, Inc.

Emily A. Fredette

297 Elm Street ▲ Amesbury, Massachusetts 01913 Telephone: (978) 388-2157 ▲ Fax: (978) 388-0428 www.cammett.com

#### **FORM 11 - SOIL EVALUATOR FORM**

PAGE 1

DATE: 10/5/2016 and 10/6/2016

#### Commonwealth of Massachusetts Newbury, Massachusetts

### Soil Suitability Assessment for On-site Sewage Disposal

| Performed by:   | R. Blanch      | ette, E. Fr | edette   |                      |                         | J                     | ob No.        | 16031  |                           |    |
|---|----------------|-------------|--|----------------------|-------------------------|-----------------------|---------------|--|---------------------------|----|
| Witnessed by:   | D. Rogers      | 5           |  |                      |                         |                       |               |  |                           |    |
| Location Address of<br>Lot #<br>15 Coleman F<br>Newbury, MA<br>Proposed         | Road           |             |  |                      | Owne<br>Addre<br>Teleph |                       | 17 Colei      | oodbury<br>man Road<br>y, MA 01922<br>7-7960 |                           |    |
| New Construction  | х              | Rep         | air  |                      |                         |                       |               |  |                           |    |
| Office Review   |                |             |  |                      |                         |                       |               |  |                           |    |
| Published Soil Survey A   | vailable       | NO          |  |                      | Yes                     | Х                     |               |  |                           |    |
| Year Published<br>Drainage Class  | 2015<br>Well-D | Prained     | Publicat<br>Soil Limi  | lon Scale<br>tations | _                       | :50,000<br>ery stony, |               | Map Unit<br>water table,                     | 305,306,311,71<br>bedrock | .1 |
| Surficial Geologic Report<br>Year Published<br>Geologic Material (N<br>Landform | 2014           |             | cion Scale<br>ck, Fine gra   | -                    | Yes<br>60,000<br>osit   | X                     |               |  |                           |    |
| Flood Insurance Rate M<br>Above 500 year floor                                  | •              | NO [        |  |                      | Yes                     | Х                     |               |  |                           |    |
| Within 500 year floor   | d boundary     | NO [        | х  |                      | Yes                     |                       |               |  |                           |    |
| Within 100 year floor   | d boundary     | NO [        | Х  |                      | Yes                     |                       |               |  |                           |    |
| Wetland Area:<br>National Wetland Inv<br>Wetlands Conservan                     |                |             | The second secon | n-site de<br>2016    | lineation               | by Basbane            | s Wetland (   | Consulting                                   |                           |    |
| Current Water Resor<br>Range: Above No  |                | _ `         | 65):<br>Normal   | Mont                 | h                       | Septemb               | er<br>w Norma | X  |                           |    |
| Other References Re   | viewed:        |             |  |                      |                         |                       |               |  |                           |    |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Deep Hole Number Location (identify or Land Use |                                | slope (%)              | Time 8:0                | es None       | Clear, 40°F   |
|---|--------------------------------|------------------------|-------------------------|---------------|---|
| Vegetation -                                    | rdwood tree                    |                        | Durince Stor            | ics           |   |
| Landform 📆                                      | Um IA                          |                        |                         |               |   |
| -   | e (sketch on the back)         | refer to               | Site Plan (             | a Hacked)     |   |
| Distances from:                                 | L. None C.                     | D-:                    |                         | ,             |   |
| Open Water Boo<br>Possible Wet Are              |                                | Drainage way           | 200 feet                |               |   |
| Drinking Water W                                | ea >100 feet<br>/eil >100 feet | Property Line<br>Other | > 10 feet               |               |   |
|   |                                | DEEP OBSERVA           | TION HOLE LO            | G             |   |
| Depth from Surface<br>(Inches)                  | Soil Horizon                   | Soil Texture<br>(USDA) | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6   | Ap                             | LS                     | 10 YR 3 2               |               | massive, very   |
|   |                                |                        |                         |               | Friable   |
| le-12   | BW                             | LS                     | 1.5 YR 5/8              |               | very france   |
| 12-42   | Cl                             | Loany five sand        | 2.5 4 6/4               |               | friable   |
| 42-84   | Cd                             | SL                     | 2.5 1 5 4               |               | gravelly, firm  |
|   | ——pi                           |                        |                         |               | , J   |
|   |                                |                        |                         |               |   |
|   |                                |                        |                         |               |   |
|   |                                |                        |                         |               |   |
|   |                                |                        |                         |               |   |
|   |                                |                        |                         |               |   |
| Receiving Layers                                |                                | N=2                    | Design Class            | 工             |   |
| Parent Material (geologi                        | ic) till                       |                        | Depth to Bedrock:       |               |   |
| Depth to Groundwater:                           | Standing Wat                   | er in the Hole:        | Weeping from            | Pit Face:     |   |
|   | Estimated So                   | easonal High Ground V  | Vater: 30"              |               |   |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

# Determination for Seasonal High Water Table

| Method Used: Te  | st Hole Number     | 16-1A            | <del>-</del> < |  |  |  |
|--|--------------------|------------------|----------------|--|--|--|
| Depth observed standing in observ  | ation hole         | inches           |                |  |  |  |
| Depth weeping standing in observe  | ation hole         | inches           |                |  |  |  |
| Depth to soil mottles  | 30                 | inches           |                |  |  |  |
| Ground water adjustment  | _                  | feet             |                |  |  |  |
|  | eading Date        | Index well level |                |  |  |  |
| Depth of Naturally Occurring 1   | Pervious Material  |                  |                |  |  |  |
| Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?  |                    |                  |                |  |  |  |
| If not, what is the depth of nati  | rally occurring pe | rvious material? |                |  |  |  |
| Certification  |                    |                  |                |  |  |  |
| I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.  Signature  Signature  Date 10/21/2016 |                    |                  |                |  |  |  |

### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Vegetation<br>Landform         | e (sketch on the back)  dy 200 feet feet | Slope (%)              | Surface Sto             | O ρm Weather  nes None   | Clear, 40°F   |
|--------------------------------|--|------------------------|-------------------------|--|---|
|                                | ]  | DEEP OBSERVA           | ATION HOLE LO           | )G   |   |
| Depth from Surface<br>(Inches) | Soil Horizon                             | Soil Texture<br>(USDA) | Soil Color<br>(Munsell) | Soil Mottling  | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel)   |
| 0-12                           | A  | SL                     | 10 YE 313               |  | frake massive   |
| 12-18                          | В  | 5L                     | 25 42 518               |  | Liame.  |
| 18-44                          | Cs                                       | şĻ                     | 2.54 64                 | 1,5 4 5/8  | fruste  |
| 66-128                         | CZ                                       | SL                     | 2.5 Y 4 3               |  | forance, growelly,  |
|                                |  |                        |                         |  |   |
|                                |  |                        |                         |  |   |
|                                |  |                        |                         |  | 2   |
| Receiving Layers               | - 11                                     |                        | Design Class            | I  |   |
| Parent Material (geologi       |  |                        | Depth to Bedrock:       | numenos partirina de la compresa de | and a supplication of the |
| Depth to Groundwater:          | Standing Water                           | r in the Hole:         |                         | m Pit Face:  | -   |

### FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job # 16031

# **Determination for Seasonal High Water Table**

| Method Used:   | Test Hole Number  | 16-18  |   |
|--|---|--|---|
| Depth observed standing in of                            | oservation hole   | inches   |   |
| Depth weeping standing in ob                             | servation hole  | inches   |   |
| Depth to soil mottles                                    | 18  | inches   |   |
| Ground water adjustment                                  |   | feet   |   |
| Index Well Number Adjustment factor                      | Reading Date Adjusted ground water                        | Index well level   |   |
| Depth of Naturally Occurring                             | ng Pervious Materia                                       | 1  |   |
| Does at least four feet of ne observed throughout the ar | aturally occurring p<br>ea proposed for the               | ervious material exist in soil absorption system?  | all areas                                   |
| If not, what is the depth of                             | naturally occurring                                       | pervious material?   |   |
| Certification  |   |  | :   |
| been performed by me<br>described in 310 CMR             | consistent with the 15.017. I further ced Soil Evaluation | the Department of Enviro<br>oil evaluations and that to<br>required training, expert<br>certify that the results of<br>Form, are accurate and in | he above analysis has<br>ise and experience |
| Signature  | Date  |  |   |
| NOTE: San assessment                                     | _   |  |   |

### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Deep Hole Number               |                        | e 10/6/201          | Lo Time 3               | 10 Pm Weather | Clear, 60°F                            |
|--------------------------------|------------------------|---------------------|-------------------------|---------------|--|
| Location (identify of Land Use |                        | to SITE Pla         | n lattached             | . )           |  |
| A. O. C.                       | podland                | Slope (%)           | Surface St              | ones None     |  |
|                                | rdwood tree            |                     |                         |               |  |
| Landform 5                     | Cumlia                 |                     |                         |               |  |
|                                | e (sketch on the back) | refer to            | Site Plan 1             | attached)     |  |
| Distances from:                |                        |                     |                         | 1             |  |
| Open Water Bo                  |                        | Drainage way        | >100 feet               |               |  |
| Possible Wet Ar                | ea <b>2100</b> feet    | Property Line       | 210 feet                |               |  |
| Drinking Water V               | Vell >100 feet         | Other               | 2000                    |               |  |
|                                | ]                      | DEEP OBSERV         | ATION HOLE L            | 0G            |  |
| Depth from Surface             | Soil Horizon           | Soil Texture        | 6.00.                   |               |  |
| (Inches)                       | DOM TROMPANI           | (USDA)              | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders, |
|                                |                        |                     |                         |               | Consistency, %Gravel)                  |
| 0-12                           | A                      | SL                  | 10 4E 3/3               |               | massive, Frable                        |
|                                |                        |                     | 10.15                   | _             | Thousand In Charles                    |
| 10 00 10                       | 0                      |                     |                         |               |  |
| 12 -00-18                      | В                      | 5L_                 | 25 425/8                |               | friale                                 |
|                                | .00                    |                     |                         |               |  |
| 010018-27                      | BC                     | #2                  | 0.00 1.16               | <del> </del>  | 4                                      |
| 10 and 10 and 1                | DC                     | 5L                  | 25 4 6/4                |               | vfrable; ledge                         |
|                                |                        |                     |                         |               | C 27"                                  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     | <del> </del>            | +             |  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     |                         | -             |  |
|                                |                        |                     | ·                       |               |  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     |                         |               |  |
|                                |                        | •                   |                         |               |  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     |                         |               |  |
|                                |                        |                     |                         |               |  |
| Danaissina T                   |                        |                     |                         |               |  |
| Receiving Layers               |                        |                     | Design Class            |               |  |
| Parent Material (geologi       | o) <u>+ill</u>         | 3                   | Depth to Bedrock:       | 27"           |  |
| Depth to Groundwater:          | Standing Water         | in the Hole:        | Weening for             | om Pit Face:  | _                                      |
|                                |                        |                     | " while it              |               |  |
|                                | Estimated Sea          | sonal High Ground V | Vater:                  |               |  |

# FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job# 16031

## Determination for Seasonal High Water Table

| Method Used:                                       | Test Hole Number   | 16-1C  | _   |
|--|--|--|---|
| Depth observed standing in                         | observation hole   | inches   |   |
| Depth weeping standing in                          | observation hole   | inches   |   |
| Depth to soil mottles                              | Alexander and the second and the sec | inches   |   |
| Ground water adjustment                            |  | feet   |   |
| Index Well Number Adjustment factor                | Reading Date Adjusted ground water   | Index well level   |   |
| Depth of Naturally Occur                           | ring Pervious Materi   | a1   |   |
| Does at least four feet of observed throughout the | naturally occurring parea proposed for the   | pervious material exist i<br>e soil absorption system?   | n all areas                                     |
| If not, what is the depth o                        | f naturally occurring  | pervious material?   | <b>8</b> \5"                                    |
| Certification                                      |  |  |   |
| been performed by m<br>described in 310 CM         | R 13.017 to conduct some consistent with the R 15.017. I further sched Soil Evaluation   | the Department of Envisoril evaluations and that e required training, expecertify that the results of Form, are accurate and | the above analysis has<br>estise and experience |
| Signature  | Date   |  |   |
| NOTE: See accompanying of                          | over letter which is   | part of this report.   |   |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Deep Hole Number<br>Location (identify or | Date of the plan o | 10/6/2011<br>to SIX Pla    | to Time 8         | Ot Am Weather | Clear, 36°F  |
|---|--|----------------------------|-------------------|---------------|--|
|   | edland   | Slope (%)                  | Surface Sto       | ones None     | 1-1-1-1-1  |
|   | rdwood trees   |                            |                   |               |  |
| Landform 📆                                | 'Um lin  |                            |                   |               |  |
| _   | e (sketch on the back)   | refer to                   | Site Plan (       | a Hacked)     |  |
| Distances from:                           |  | 5                          |                   | ,             |  |
| Open Water Boo<br>Possible Wet Are        |  | Drainage way Property Line | feet feet         |               |  |
| Drinking Water W                          |  | Other                      | 210 feet          |               |  |
|   | 7,00   |                            |                   |               |  |
|   | ]  | DEEP OBSERV                | ATION HOLE LO     | OG            | ri e   |
| Depth from Surface                        | Soil Horizon   | Soil Texture               | Soil Color        | Soil Mottling | Other  |
| (Inches)                                  |  | (USDA)                     | (Munsell)         |               | (Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6                                       | A  | SL                         | 10 YE 313         |               | frible, massive  |
|   |  |                            |                   |               |  |
| 10 - 12                                   | 8  | SL                         | 7.5 4 5/8         |               | frable   |
| 0 19                                      |  | 16                         | 11.5 4 3/6        |               | 17h and CC   |
| 12 - 40                                   | Cd   | SL                         | 254514            |               | gravelly, dense  |
|   |  |                            |                   |               | ledge 0.40"  |
|   |  |                            |                   |               | 7  |
|   |  |                            | <u> </u>          | <b>—</b>      |  |
|   |  |                            |                   | · ·           |  |
|   |  |                            |                   |               |  |
|   |  |                            |                   |               |  |
|   |  |                            |                   |               |  |
|   |  |                            | -                 |               |  |
|   |  |                            |                   |               |  |
|   |  |                            |                   |               |  |
|   |  |                            |                   |               |  |
|   |  |                            |                   |               |  |
|   |  |                            |                   |               |  |
| Receiving Layers                          |  |                            | Design Class      |               |  |
| Parent Material (geologi                  | ic) + 111  |                            | Depth to Bedrock: | 10" @ deepe   | st   |
| Depth to Groundwater:                     | Standing Water   | r in the Hole:             | Weeping fr        | om Pit Face:  |  |
|   | Estimated Se   | asonal High Ground         | Water:            |               |  |

#### FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

# Determination for Seasonal High Water Table

| Method Used:                                       | Test Hole Number   | 16-4A   | -                      |
|--|--|---|------------------------|
| Depth observed standing in                         | observation hole   | inches  |                        |
| Depth weeping standing in                          | observation hole   | inches  |                        |
| Depth to soil mottles                              | 2 <u></u>  | inches  |                        |
| Ground water adjustment                            |  | feet  |                        |
| Index Well Number Adjustment factor                | Reading Date Adjusted ground water                                 | Index well level  |                        |
| Depth of Naturally Occur                           | ring Pervious Materi   | al  |                        |
| Does at least four feet of observed throughout the | naturally occurring parea proposed for the                         | pervious material exist in soil absorption system?  | all areas No           |
| If not, what is the depth o                        | f naturally occurring  | pervious material?  | 310"                   |
| Certification                                      |  |   |                        |
| been performed by n<br>described in 310 CM         | ne consistent with the IR 15.017. I further a ched Soil Evaluation | the Department of Envir<br>soil evaluations and that<br>required training, expe-<br>certify that the results of<br>Form, are accurate and i | the above analysis has |
| Signature  | Date   |   |                        |
| NOTE: See accompanying                             | nomen lesses with the  | 2.11  |                        |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Location (identify on<br>Land Use            | site plan) refer      | 10/6/201<br>10 51+ Pla<br>Slope (%) | Time 8<br>In (attached<br>Surface Stor | 15 am Weather<br>nes None | Cliar 370F  |
|--|-----------------------|-------------------------------------|--|---------------------------|---|
| 4-00-  | y <u>&gt;100</u> feet | Drainage way Property Line Other    | Site Plan (                            | a Hacked)                 |   |
|  |                       | DEEP OBSERV                         | ATION HOLE LO                          | G                         |   |
| Depth from Surface<br>(Inches)               | Soil Horizon          | Soil Texture<br>(USDA)              | Soil Color<br>(Munsell)                | Soil Mottling             | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-9  | A                     | SL                                  | 10 YR 3/3                              |                           | fight, massine  |
| 9-18   | В                     | 52                                  | 7.548518                               |                           | fruble  |
| 18-24  | Cd                    | 5L                                  | 25 Y 6/4                               |                           | dense, grandly<br>ledge @ 24 "                                  |
|  |                       |                                     |  |                           |   |
|  |                       |                                     |  |                           |   |
|  |                       | ·                                   |  |                           |   |
| Description 7                                |                       |                                     |  |                           |   |
| Receiving Layers  Parent Material (geologic) | +:11                  |                                     | Design Class  Depth to Bedrock:        | 24h                       |   |
| Depth to Groundwater:                        | Standing Water        | in the Hole:                        | Weeping from                           | Pit Face:                 |   |
|  | Estimated Sea         | sonal High Ground                   |  |                           | × <u>———</u> ).   |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job# 16031

# Determination for Seasonal High Water Table

| Method Used:   | Test Hole Number  | 16-4B   |  |
|--|---|---|--|
| Depth observed standing in o                             | bservation hole   | inches  |  |
| Depth weeping standing in o                              | bservation hole   | inches  |  |
| Depth to soil mottles                                    |   | inches  |  |
| Ground water adjustment                                  |   | feet  |  |
| Index Well Number Adjustment factor                      | Reading Date Adjusted ground water                        | Index well level  |  |
| Depth of Naturally Occurri                               | ing Pervious Materi                                       | al  |  |
| Does at least four feet of no observed throughout the ar | eaturally occurring presented for the                     | pervious material exist in soil absorption system?  | all areas                                    |
| If not, what is the depth of                             | naturally occurring                                       | pervious material?  | 15"  |
| Certification  |   |   |  |
| been performed by me<br>described in 310 CMR             | consistent with the 15.017. I further the Soil Evaluation | the Department of Environce of evaluations and that the required training, expering that the results of Form, are accurate and in | he above analysis has<br>tise and experience |
| Signature  | Date  |   |  |
| NOTE   |   |   |  |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Deep Hole Number Location (identify or |                         | 2 18/3/2010            | n (attached)            | O PM Weather  | Olear, 40   |
|--|-------------------------|------------------------|-------------------------|---------------|---|
|  | adland [272]            | Slope (%)              | Surface Stone           | s None        |   |
|  | rdupped tree.           |                        | Suitace Stone           | s None        |   |
| 4.000                                  | Um lia                  | -                      |                         |               |   |
| 1                                      | e (sketch on the back)  | refer to               | Site Plan (a            | Hacked)       |   |
| Distances from:                        | ( (DEDICAL OF GIO DUDE) | LTE! ID                | OHE MIAN LA             | THENCA )      |   |
| Open Water Bo                          | dy >100 feet            | Drainage way           | > 00 feet               | 7.50          |   |
| Possible Wet Are                       | a >100 feet             | Property Line          | feet                    |               |   |
| Drinking Water W                       |                         | Other                  |                         |               |   |
|  | <u> </u>                |                        |                         |               |   |
|  |                         | DEEP OBSERVA           | ATION HOLE LOC          | 3             | )č  |
| Depth from Surface<br>(Inches)         | Soil Horizon            | Soil Texture<br>(USDA) | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0~9                                    | Aro                     | SL                     | 104232                  |               | massive, frieble  |
|  |                         |                        | 10,100,100              |               | massied mone  |
| G :-                                   | ď.                      |                        |                         |               |   |
| 9-15                                   | BW                      | 81_                    | 7.5 1258                |               | Friable   |
|  |                         |                        |                         |               |   |
| 15 - 24                                | CI                      | fine SL                | 2.54 104                |               | s. di.  |
| 115 11                                 | - 01                    | THIC OL                | 2-31 84                 |               | govelly   |
|  |                         |                        |                         |               | 0   |
| 24-96                                  | Cd                      | SL                     | 2.5 1 5 4               |               | growlly, donse  |
|  |                         |                        |                         |               | 0   |
|  |                         |                        |                         | 100           |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
|  |                         |                        |                         |               |   |
| Receiving Layers                       |                         | A.                     | Design Class            | t C           |   |
| Parent Material (geologi               | c) <u>till</u>          |                        | Depth to Bedrock:       |               |   |
| Depth to Groundwater:                  | Standing Wate           | er in the Hole:        | Weeping from            | Pit Face:     | nerest <sup>a</sup>   |
|  | m. t                    | 1771 4 60 4 4          | 0.4.1                   |               |   |
|  | Estimated Se            | asonal High Ground \   | water:                  |               |   |

### FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job# 16031

## **Determination for Seasonal High Water Table**

| Method Used:   | Test Hole Number  | 16-6A  |  |
|--|---|--|--|
| Depth observed standing in o                           | observation hole  | inches   |  |
| Depth weeping standing in o                            | observation hole  | inches   |  |
| Depth to soil mottles                                  | _ 24  | inches   |  |
| Ground water adjustment                                |   | feet   |  |
| Index Well Number Adjustment factor                    | Reading Date Adjusted ground water  | Index well level   |  |
| Depth of Naturally Occurr                              | ing Pervious Materia!   |  |  |
| Does at least four feet of a observed throughout the a | naturally occurring pe<br>rea proposed for the  | ervious material exist in<br>soil absorption system?   | all areas                                    |
| If not, what is the depth of                           | naturally occurring   | pervious material?   |  |
| Certification  |   |  |  |
| been performed by mo<br>described in 310 CM            | e consistent with the 15.017. I further content to the content of the content to | he Department of Environal evaluations and that the required training, experiently that the results of form, are accurate and in | he above analysis has<br>tise and experience |
| Signature  | Date  |  |  |
| NOTE. C.   |   |  |  |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

| Vegetation<br>Landform         | e (sketch on the back)  iy >100 feet a >100 feet | Slope (%)  Slope (%)  Drainage way Property Line Other | Surface Ston  Site Plan (a      | es None       |   |
|--------------------------------|--|--|---------------------------------|---------------|---|
|                                | V- 4.69  | DEEP OBSERVA   | ATION HOLE LO                   | G             |   |
| Depth from Surface<br>(Inches) | Soil Horizon                                     | Soil Texture<br>(USDA)                                 | Soil Color<br>(Munsell)         | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-9                            | A  | SL   | 60 4E 3/3                       |               | frably masive   |
| 9 - 15                         | В  | SL   | 25 42 5/0                       |               | frable  |
| 15-48                          | Col  | st   | 25 Y 5/4                        |               | dense gamely  |
|                                |  |  |                                 |               |   |
|                                |  |  |                                 |               |   |
|                                |  |  |                                 |               |   |
| Receiving Layers               |  | .  | Donier Class                    |               |   |
| Parent Material (geologic      | o till   |  | Design Class  Depth to Bedrock: | 18" ediese    | st.   |
| Depth to Groundwater:          | Standing Water                                   |  | Weeping from                    |               |   |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

# **Determination for Seasonal High Water Table**

| Method Used:                                | Test Hole Na   | umber /                     | - 6B  |   |
|---|--|-----------------------------|---|---|
| Depth observed star                         | nding in observation hole  |                             | inches                                      |   |
| Depth weeping star                          | in observation hole  |                             | inches                                      |   |
| Depth to soil mottl                         | OS :   | 15                          | inches                                      |   |
| Ground water adjust                         | ment   |                             | foct  |   |
| Index Well Number Adjustment factor         | Reading Date Adjusted grou                                       |                             | Index well level                            |   |
| Depth of Naturally                          | Occurring Pervious   | Material                    |   |   |
| Does at least four for conserved throughout | eet of maturally occu<br>the area proposed                       | irring pervi<br>for the soi | ious material exist<br>labsorption system   | in all areas?   |
| If not, what is the do                      | epth of naturally occ  | curring per                 | vious material?                             | 39"   |
| Certification                               |  |                             |   |   |
| been performed<br>described in 31           | by me consistent w<br>0 CMR 15.017, I for<br>eattached Soil Eval | vith the req                | evaluations and that<br>uired training, exp | ironmental Protection<br>t the above analysis has<br>ertise and experience<br>of my soil evaluation, as<br>in accordance with 310 |
| Signature                                   | Dat  | te                          |   |   |
|   |  |                             |   |   |

#### **FORM 11 - SOIL EVALUATOR FORM**

PAGE 2

Job. # (603)

| Vegetation -   | site plan) refer<br>allowed trees | 51+2 Pla<br>Slope (%)            | Surface Stone                     |  | - Clear, 37°  |
|--|-----------------------------------|----------------------------------|-----------------------------------|--|---|
| Distances from: Open Water Bod Possible Wet Area Drinking Water We | y <u>&gt;100</u> feet             | Drainage way Property Line Other | Site Plan (a  >100 feet  >10 feet | Hacked)  | ****  |
|  | ]                                 | DEEP OBSERV                      | ATION HOLE LO                     | 3  | 1   |
| Depth from Surface<br>(Inches)                                     | Soil Horizon                      | Soil Texture<br>(USDA)           | Soil Color<br>(Munsell)           | Soil Mottling  | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-9  | AP                                | st                               | 10 42 3/2                         |  | massine, frame  |
| 9 - 18   | BN                                | 56                               | 7.5 42518                         |  | frame   |
| 18- 24   | Cl                                | fsl                              | 2.5 4 6/4                         |  | Grave   |
| 24- 78   | Cd                                | SL                               | 2.5 Y 5   4                       | -  | gravelly, dense   |
|  |                                   | - West or                        |                                   |  |   |
|  |                                   |                                  |                                   |  |   |
|  |                                   |                                  |                                   |  |   |
| eceiving Layers  |                                   |                                  | Design Class                      |  |   |
| arent Material (geologic   | o <u>till</u>                     |                                  | Depth to Bedrock:                 | and the second s |   |
| epth to Groundwater:   | Standing Wate                     | r in the Hole:                   | Weeping from Water: 94            | Pit Face:  |   |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

# **Determination for Seasonal High Water Table**

| Method Used:                                    | Test Hole Numb  | er 16-6        | oC               |   |
|---|---|----------------|------------------|---|
| Depth observed standing                         | g in observation hole   | inches         | J                | •   |
| Depth weeping standing                          | ; in observation hole   | inches         |                  |   |
| Depth to soil mottles                           | A   | 24 inches      |                  |   |
| Ground water adjustment                         |   | feet           |                  |   |
| Index Well Number Adjustment factor             | Reading Date Adjusted ground w                                | /ater          | Index well level |   |
| Depth of Naturally Occ                          | urring Pervious Mas   | crial          |                  |   |
| Does at least four feet observed throughout the | c area proposed for   | the soil abso  | rption system?   | all areas   |
| Certification                                   |   |                |                  |   |
| been performed by<br>described in 310 C         | me consistent with CMR 15.017. I furth tached Soil Evaluation | the required   | training, exper  | onmental Protection<br>the above analysis has<br>tise and experience<br>my soil evaluation, as<br>a accordance with 310 |
| Signature                                       | Date  |                |                  |   |
| NOTE: See accompanying                          | g cover letter which  | is part of thi | s report.        |   |

#### **FORM 11 - SOIL EVALUATOR FORM**

PAGE 2

Job. # (6031

| Deep Hole Number<br>Location (identify on<br>Land Use | site plan) Per | 10/16/2019<br>10 51+2 Pla<br>Slope (%) | Time 34 A (attached) Surface Stone | Weather  None | Clear, 55°C   |
|---|----------------|--|------------------------------------|---------------|---|
|   | duppe trees    |  | Surface Stone                      | os None       |   |
|   | VM IA          |  |                                    | 61            |   |
| Position on landscape                                 |                | Cefer to                               | Site Plan (a                       | Hacked)       | 100   |
| Distances from:                                       |                |  |                                    | )             |   |
| Open Water Bod  |                | Drainage way                           | > 00 feet                          |               |   |
| Possible Wet Area                                     |                | Property Line                          | >10 feet                           |               |   |
| Drinking Water We                                     | ell 200 feet   | Other                                  |                                    |               |   |
|   | ]              | DEEP OBSERV                            | ATION HOLE LO                      | G             |   |
| Depth from Surface<br>(Inches)                        | Soil Horizon   | Soil Texture<br>(USDA)                 | Soil Color<br>(Munsell)            | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel)   |
| 0-7   | A              | 51                                     | 10 4E 313                          |               | Massing france  |
| 9-15  | В              | SL                                     | 25 42 5/8                          |               | Grane   |
|   |                |  | 15 1C -Va                          |               | - HVW AL  |
| 15-27   | on CI          | SL                                     | 254 614                            |               | friable   |
| 27-10115  | Cd             | SL                                     | 25 4 574                           |               | gravely, dense  |
|   |                |  |                                    |               |   |
|   |                |  |                                    |               |   |
|   |                |  |                                    |               |   |
|   | -              |  |                                    |               |   |
|   |                | •                                      |                                    |               |   |
|   |                | d                                      |                                    |               | -   |
| eceiving Layers                                       |                |  | Design Class                       | 工             |   |
| arent Material (geologic                              | 11:1           |  | Depth to Bedrock:                  |               |   |
| epth to Groundwater:                                  | Standing Water | r in the Hole:                         | Weeping from                       | Pit Face:     | PRINCE TO A STATE OF THE STATE |
|   | Estimated Sea  | asonal High Ground                     | Water: 27"                         |               |   |

## FORM 11 - SOIL EVALUATOR FORM

Job# 16031 PAGE3

# **Determination for Seasonal High Water Table**

| Method Used:  | Test Hole Number                        | 16-6D   |                        |
|---|---|---|------------------------|
| Depth observed standing in ol   | oservation hole                         | inches  |                        |
| Depth weeping standing in ob  | oservation hole                         | inches  |                        |
| Depth to soil mottles   | _27                                     | inches  |                        |
| Ground water adjustment   |   | feet  |                        |
| Index Well Number Adjustment factor   | Reading Date Adjusted ground water      | Index well level  |                        |
| Depth of Naturally Occurris   | ng Pervious Materis                     | al  |                        |
| Does at least four feet of ne<br>observed throughout the ar<br>If not, what is the depth of | ca proposed for the                     | soil absorption system?   | n all areas            |
| Certification   |   | portions material;  |                        |
| been performed by me<br>described in 310 CMR  | consistent with the 15.017. I further c | the Department of Enviroil evaluations and that required training, experentify that the results of Form, are accurate and i | the above analysis has |
| Signature   | Date                                    |   |                        |
| NOTE: See accompanying cov  | ver letter which is p                   | part of this report.  |                        |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

| Deep Hole Number<br>Location (identify on | site plan) Pat       | to 61+2011                 | n (attached)            | 15 Pm Weather | Clear, 63   |
|---|----------------------|----------------------------|-------------------------|---------------|---|
|   | odland               | Slope (%)                  | Surface Stone           | s None        |   |
| Vegetation                                | dwood tree           |                            |                         |               |   |
| Landform Dr                               | umlia                |                            |                         |               |   |
| Position on landscape                     | (sketch on the back) | refer to                   | Site Plan (a            | Hacked)       |   |
| Distances from:                           | بناء مماكات          | Deliner                    |                         | ,             |   |
| Open Water Bod<br>Possible Wet Area       |                      | Drainage way Property Line | 200 feet                |               |   |
| Drinking Water W                          |                      | Other                      | > 10 feet               |               |   |
|   |                      | C sanda                    |                         |               |   |
|   | ]                    | DEEP OBSERV                | ATION HOLE LOC          | 7             | 2   |
| Depth from Surface<br>(Inches)            | Soil Horizon         | Soil Texture<br>(USDA)     | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-8                                       | Ap                   | SL                         | 10 YR 3/3               |               | massire, frasle   |
|   | 7.16                 |                            | 144                     |               | a la dell'Office  |
| 8-17                                      | BW                   | SL                         | 7.5 4R 5/8              |               | Carlo   |
| 0   |                      | (3 (-)                     | 1.5 72 510              |               | friasse   |
| 17-00                                     |                      |                            |                         |               | -   |
| 17-84                                     | _ C                  | SL                         | 2.5 Y 5/4               |               | dense gravelly  |
|   |                      |                            |                         |               | 0 1   |
|   |                      |                            |                         |               |   |
|   |                      |                            |                         |               |   |
|   |                      |                            |                         |               | -   |
| · · · · · · · · · · · · · · · · · · ·     |                      |                            |                         |               |   |
|   |                      |                            |                         |               |   |
|   |                      |                            |                         |               |   |
|   | 1                    |                            |                         |               |   |
|   |                      |                            |                         |               |   |
|   |                      | · ·                        |                         |               |   |
|   |                      |                            |                         |               |   |
|   |                      | (40)                       |                         |               | ·   |
|   |                      |                            |                         | -             |   |
| Receiving Layers                          |                      |                            | Design Class            | II-           |   |
| Parent Material (geologic                 | ) <u> </u>           |                            | Depth to Bedrock:       |               |   |
| Depth to Groundwater:                     | Standing Water       | r in the Hole:             | Weeping from            | Pit Face:     | -   |
|   | Estimated Sea        | asonal High Ground \       | Water: 17"              |               |   |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job # 16031

# **Determination for Seasonal High Water Table**

| Method Used:   | Test Hole Number   | 16-6E  | _  |
|--|--|--|--|
| Depth observed standing in ob                                | servation hole   | inches   |  |
| Depth weeping standing in ob                                 | servation hole   | inches   |  |
| Depth to soil mottles  | 17   | inches   |  |
| Ground water adjustment                                      |  | feet   |  |
| Index Well Number Adjustment factor                          | Reading Date Adjusted ground water                         | Index well level   |  |
| Depth of Naturally Occurring                                 | ag Pervious Materia  | a l  |  |
| Does at least four feet of na<br>observed throughout the are | sturally occurring pea proposed for the                    | ervious material exist in soil absorption system?  | all areas                                  |
| If not, what is the depth of a                               | naturally occurring  | pervious material?   |  |
| Certification  |  |  |  |
| been performed by me<br>described in 310 CMR                 | consistent with the 15.017. I further cond Soil Evaluation | the Department of Environt coil evaluations and that a required training, expersertify that the results of Form, are accurate and in | the above analysis has tise and experience |
| Signature  | Date   |  |  |
| NOTE: See accompanying co.                                   |  |  |  |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

|   |                     | On-S                     | Site Review             | 300. # (60    | ) l   |
|---|---------------------|--------------------------|-------------------------|---------------|---|
|   |                     | 57                       |                         | 40            | 61 - 505  |
| Deep Hole Number<br>Location (identify on | site plan)          | to Site Pla              | n (attached)            | 40 mweather   | Char, 570F  |
| Land Use                                  | odland              | Slope (%)                | Surface Ston            | es None       |   |
|   | umin tree           | 5                        | 187                     |               |   |
| Position on landscape<br>Distances from:  | (sketch on the back | refer to                 | Site Plan (             | Hacked)       |   |
| Open Water Boo                            |                     | Drainage way             | >100 feet               |               |   |
| Possible Wet Area<br>Drinking Water W     |                     | Property Line<br>Other   | > 10 feet               |               |   |
|   | 70                  | DEEP OBSERV              | ATION HOLE LO           | G             | ¥   |
| Depth from Surface<br>(Inches)            | Soil Horizon        | Soil Texture<br>(USDA)   | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6"                                      | A                   | f.sl                     | 104R32                  |               | Ledge @ le"   |
| -AW:                                      | aD                  | -                        | 11111                   |               | 0   |
| 400                                       | <u> </u>            | ASSOCIAL TOTAL PROPERTY. | <b>用语义用公司的</b>          |               | -   |
|   | 401L                |                          |                         |               |   |
|   | TO A                | -                        | -                       |               |   |
|   |                     |                          |                         |               |   |
|   |                     |                          |                         |               |   |
|   |                     |                          |                         | 2             |   |
|   |                     |                          |                         | *****         |   |
|   |                     |                          |                         |               |   |
|   |                     |                          |                         |               |   |
|   |                     | ·                        |                         |               |   |
|   |                     |                          |                         |               |   |
|   |                     |                          |                         |               |   |
| Receiving Layers                          |                     | 7                        | Design Class            |               |   |
| Parent Material (geologi                  | c) till             |                          | Depth to Bedrock:       | 6"            |   |
| Depth to Groundwater:                     | Standing Wa         | ter in the Hole:         | Weeping from            | m Pit Face:   |   |
|   | Estimated S         | seasonal High Ground     | Water:                  |               |   |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

| Deep Hole Number<br>Location (identify on | site plan) Per | to 5/201                   | n (attached)            | 50 Am Weather | Clear, 510F                            |
|---|----------------|----------------------------|-------------------------|---------------|--|
| Land Use Woo                              | dupod trees    | Slope (%)                  | Surface Ston            | es None       |  |
| Landform 50                               | un lia         |                            |                         |               |  |
| Position on landscape<br>Distances from:  | •              | refer to                   | Site Plan (             | Hacked)       |  |
| Open Water Bod<br>Possible Wet Area       |                | Drainage way Property Line | feet feet               |               |  |
| Drinking Water We                         | ell >100 feet  | Other                      |                         |               |  |
|   |                | DEEP OBSERVA               | ATION HOLE LO           | G             | ,                                      |
| Depth from Surface (Inches)               | Soil Horizon   | Soil Texture<br>(USDA)     | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders, |
| 0-6                                       | ^              |                            |                         |               | Consistency, %Gravel)                  |
| 0   | A              | SL                         | 10 YR 3 2               |               | massive, friable                       |
| 6-12                                      | В              | SL                         | 7.5 YR 5/8              |               | 1 dag 0/2"                             |
|   |                |                            |                         |               | trase                                  |
|   |                |                            |                         |               | 111000                                 |
|   |                |                            |                         |               |  |
|   |                |                            |                         |               |  |
| <b>—</b>                                  |                |                            |                         |               |  |
|   |                |                            |                         |               |  |
|   |                |                            |                         |               |  |
|   |                |                            |                         |               |  |
|   |                |                            |                         |               |  |
|   |                |                            |                         |               |  |
|   |                | ·                          |                         |               |  |
| Receiving Layers                          |                |                            | Design Class            |               |  |
| Parent Material (geologic)                | +:11           |                            | Depth to Bedrock:       | 2"            |  |
| Depth to Groundwater:                     | Standing Water | r in the Hole:             | -Weeping from           | Pit Face:     |  |
|   | Estimated Sea  | asonal High Ground V       | Vater:                  |               |  |

### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

| Location (identify Land Use | on site plan) refer     | ate 19/4/201<br>+0 Si + Pla<br>Slope (%) | Time 9:<br>A Cattached<br>Surface Stor | 00 Am Weather | Clear, 52°   |
|-----------------------------|-------------------------|--|--|---------------|--|
| Vegetation                  | rowood tree             | 5  |  | 11020         |  |
| Landform 5                  | CUM IA                  | 8.0                                      |  |               |  |
| Distances from:             | pe (sketch on the back) | refer to                                 | Site Plan (                            | e Hacked)     |  |
| Open Water Be               | ody >100 feet           | Desimons                                 | ¥                                      | 1             |  |
| Possible Wet Ar             | ca >100 feet            | Drainage way<br>Property Line            | 200 feet                               |               |  |
| Drinking Water              | Well 2100 feet          | Other                                    | 2 10 feet                              |               |  |
|                             |                         | DEEP OBSERV                              | ATION HOLE LO                          | G             |  |
| Depth from Surface          | Soil Horizon            | Soil Texture                             | Soil Color                             | Soil Mottling | Other  |
| (Inches)                    |                         | (USDA)                                   | (Munsell)                              |               | (Structure, Stones, Boulder<br>Consistency, %Gravel) |
| v - 6                       | A                       | fsl                                      | 10 YR 312                              |               | massive france                                       |
|                             |                         |  |  |               | 1 11/10/20   |
| 6-18                        | 6                       | fine SL                                  | 1 5 40 Elo                             |               |  |
| 40                          | 0                       | TIME OL                                  | 4542518                                |               | France   |
| 18-20                       | Cd                      | fSL                                      | 0 - 1 -1                               |               |  |
| 10 00                       | Ca                      | 401                                      | 2.5 Y 5/4                              |               | gravelly, dense                                      |
|                             |                         |  |  |               | gravelly, dense                                      |
|                             |                         |  |  |               | 0 )'   |
|                             |                         |  |  |               |  |
|                             |                         |  |  | (2)           |  |
|                             |                         |  |  |               |  |
|                             |                         |  |  |               |  |
|                             |                         |  |  |               |  |
|                             |                         |  |  |               |  |
|                             |                         |  |  |               |  |
|                             | -                       |  |  |               |  |
|                             | -                       |  |  |               |  |
|                             |                         | ·  |  |               | • · · · · · · · · · · · · · · · · · · ·              |
| eiving Layers               |                         |  |  |               |  |
| erving Layers               | W 992                   |  | Design Class                           |               |  |
| ent Material (geologi       | c) Till                 |  | Depth to Bedrock:                      | 0             |  |
| th to Groundwater:          | Standing Wate           | r in the Hole:                           | Weeping from                           | Dit Coon      |  |
|                             |                         |  |  | IN PAGE       |  |
|                             | Estimated Sea           | asonal High Ground V                     | Vater:                                 |               |  |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Vegetation                     | (sketch on the back) | Slope (%)  Slope (%)  Drainage way Property Line Other | Surface Stone           | Hacked)       |   |
|--------------------------------|----------------------|--|-------------------------|---------------|---|
|                                | ]                    | DEEP OBSERV  | ATION HOLE LO           | S             |   |
| Depth from Surface<br>(Inches) | Soil Horizon         | Soil Texture<br>(USDA)                                 | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 6-9                            | A                    | SL   | 1042313                 |               | manive, fruble  |
| 9 - 24                         | В                    | SL   | 7.5 425/8               |               | frable  |
| 24 - 36                        | CI                   | fsL  | 2.5 4 6/4               |               | V- france   |
| 31e- 84                        | Cl                   | SL   | 25 ¥ 5/4                |               | gravelly, dense   |
|                                |                      |  |                         |               |   |
|                                |                      | (40)   |                         |               |   |
|                                | - No.                |  |                         |               |   |
| ceiving Layers                 |                      |  | Design Class            | 工             |   |
| ent Material (geologic)        | +111                 |  | Depth to Bedrock:       |               |   |
| th to Groundwater:             | Standing Wate        | r in the Hole:   | Weeping from            | Pit Face:     | and the second second   |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job# 16031

# **Determination for Seasonal High Water Table**

| Method Used:   | Test Hole Number   | 16-100   | _   |
|--|--|--|---|
| Depth observed standing in ob                                | servation hole   | inches   |   |
| Depth weeping standing in ob                                 | servation hole   | inches   |   |
| Depth to soil mottles  | 36   | inches   |   |
| Ground water adjustment                                      |  | feet   |   |
| Index Well Number Adjustment factor                          | Reading Date Adjusted ground water   | Index well level   |   |
| Depth of Naturally Occurring                                 | ng Pervious Material   |  |   |
| Does at least four feet of ne<br>observed throughout the ar- | iturally occurring pe<br>ea proposed for the   | ervious material exist in<br>soil absorption system?   | n all areas                                 |
| If not, what is the depth of                                 | naturally occurring ;  | pervious material?   |   |
| Certification  |  |  |   |
| been performed by me<br>described in 310 CMR                 | consistent with the parties of the consistent with the parties of the consistent of the constant of the consta | he Department of Envir<br>il evaluations and that<br>required training, expe-<br>ertify that the results of<br>orm, are accurate and i | the above analysis has rtise and experience |
| Signature  | Date   |  |   |
| NOTE: See accompanying con                                   |  |  |   |

#### **FORM 11 - SOIL EVALUATOR FORM**

PAGE 2

Job. # (603)

| Deep Hole Num                 | iber 6-DE Da               |                        | Time 10:                | 00 mm Weather | Clear, 56   |
|-------------------------------|----------------------------|------------------------|-------------------------|---------------|---|
| Location (identi              | fy on site plan)           | to Site Pla            |                         |               |   |
| Land Use                      | Voodland                   | Slope (%)              | Surface Stone           | es None       | 497-200   |
| Vegetation<br>Landform        | tardwood trees             | >                      |                         |               |   |
|                               | scape (sketch on the back) | refer to               | Site Plan (             | II all all    |   |
| Distances from:               | scape (sacton on the back) | eter to                | Site Plan (o            | Hacked)       |   |
|                               | Body > 00 feet             | Drainage way           | >00 feet                |               |   |
| Possible Wet                  |                            | Property Line          | > 10 feet               |               |   |
| Drinking Wat                  | er Well >100 feet          | Other                  |                         |               |   |
|                               | <u>I</u>                   | DEEP OBSERVA           | ATION HOLE LO           | G             |   |
|                               |                            |                        |                         |               |   |
| Depth from Surfac<br>(Inches) | ce Soil Horizon            | Soil Texture<br>(USDA) | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, "Gravel) |
| 0-9                           | A                          | S7                     | 10 4/23/3               |               | musive, folasa  |
|                               |                            | 1                      | 10 10 1                 |               | 11100000  |
| 2 14                          | r.                         |                        | 10.60                   |               | 1   |
| 7-19                          | В                          | SL                     | 1.542578                |               | friendle  |
|                               |                            |                        |                         |               |   |
| 18- 30                        | BIC                        | SL                     | 254 64                  |               | freuent   |
|                               | 0                          | - 50                   | 10 10                   | `             | 711000  |
| 10 0                          |                            |                        | 1 5 11 -10              |               |   |
| 30- 8 <sub>6</sub>            |                            | 51                     | 2545/4                  |               | dense, grandly  |
|                               |                            |                        |                         |               | 0 ,   |
|                               |                            |                        |                         |               |   |
|                               |                            |                        |                         |               |   |
|                               |                            |                        |                         |               |   |
|                               |                            |                        |                         |               |   |
|                               |                            |                        |                         |               |   |
|                               |                            |                        |                         |               |   |
| 96                            |                            |                        |                         |               |   |
|                               | + +                        |                        |                         | 200           | -   |
|                               |                            |                        |                         |               |   |
|                               |                            |                        |                         |               |   |
| Receiving Layers              |                            |                        | Design Class            |               |   |
| Parent Material (ge           | ologic)                    |                        | Depth to Bedrock:       |               |   |
| Depth to Groundwater          | r: Standing Wat            | ter in the Hole:       | - Weeping from          | n Pit Face:   |   |
| _                             | •                          | #Poulous and an        | 7.1                     |               |   |
|                               | Estimated S                | easonal High Ground    | Water: 30"              |               |   |
|                               |                            |                        |                         |               |   |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job # 16031

| Method Used:  | Test Hole Number 16 - 10E   |                |
|---|---|----------------|
| Depth observed standing in o                            | bservation hole inches  |                |
| Depth weeping standing in ol                            | bservation hole inches  |                |
| Depth to soil mottles                                   | 30 inches   |                |
| Ground water adjustment                                 | feet  |                |
| Index Well Number Adjustment factor                     | Reading Date Index well level Adjusted ground water   |                |
| Depth of Naturally Occurri                              | ng Pervious Material  |                |
| Does at least four feet of n observed throughout the ar | eturally occurring pervious material exist in all areas ea proposed for the soil absorption system?   |                |
| If not, what is the depth of                            | naturally occurring pervious material?  |                |
| Certification   |   |                |
| been performed by me<br>described in 310 CMR            | rently approved by the Department of Environmental Protect 15.017 to conduct soil evaluations and that the above analyst consistent with the required training, expertise and experied 15.017. I further certify that the results of my soil evaluated Soil Evaluation Form, are accurate and in accordance with 5.107. | sis has<br>nce |
| Signature   | Date  |                |
| NOTE: See accompanying co                               | ver letter which is part of this report.  |                |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

| Vegetation -                   | site plan)  Yer  Aland  Her  (sketch on the back)  y 200 feet  feet | to Site Pla<br>Slope (%) | Surface Ston            | Weather None  | Clas, To 73   |
|--------------------------------|---|--------------------------|-------------------------|---------------|---|
|                                |   | DEEP OBSERV              | ATION HOLE LO           | G             |   |
| Depth from Surface<br>(Inches) | Soil Horizon  | Soil Texture<br>(USDA)   | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-7                            | A   | SL                       | 104R 313                |               | massive, frash  |
| 2-20                           | В   | SL                       | 1.5 4e 56               |               | frame   |
| 20-30                          | BC  | SL                       | 254 44                  |               | fraste  |
| 30 - 8lo                       | С   | SL                       | 25 4 5/4                |               | dine, gravily   |
|                                |   |                          |                         |               |   |
|                                |   |                          |                         |               |   |
|                                |   | •                        |                         |               |   |
| Receiving Layers               |   |                          | Design Class            | T.            |   |
| Parent Material (geologic      | 1111  |                          | Depth to Bedrock:       |               |   |
| Depth to Groundwater:          | Standing Water  | er in the Hole:          | Weeping from            | n Pit Face:   |   |
|                                | Estimated Se  | asonal High Ground       | Water: 30"              |               |   |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job# 16031

# **Determination for Seasonal High Water Table**

| Method Used:   | Test Hole Nu                                    | ımber /                  | 6-10F   | _           |
|--|---|--------------------------|---|-------------|
| Depth observed standing in                             | observation hole                                |                          | inches  | _           |
| Depth weeping standing in                              | bservation hole                                 |                          | inches  |             |
| Depth to soil mottles                                  | :0  | 30                       | inches  |             |
| Ground water adjustment                                |   |                          | feet  |             |
| Index Well Number Adjustment factor                    | Reading Date Adjusted grou                      |                          | Index well level                                |             |
| Depth of Naturally Occurr                              | ing Pervious                                    | Material                 |   |             |
| Does at least four feet of a observed throughout the a | naturally occu<br>rea proposed                  | rring perv<br>for the so | vious material exist i<br>il absorption system? | n all areas |
| If not, what is the depth of                           | naturally occ                                   | urring pe                | rvious material?                                |             |
| Certification  |   |                          |   |             |
| described in 310 CMI                                   | consistent w<br>R 15.017. I fu<br>hed Soil Eval | ith the re               | evaluations and that<br>quired training, expe   |             |
| Signature  | Dat   | e                        |   |             |
|  |   |                          |   |             |

NOTE: See accompanying cover letter which is part of this report.

### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

|                         |                        | On-S                 | ite Review        | 1000            | <b>,</b>   |
|-------------------------|------------------------|----------------------|-------------------|-----------------|--|
| Deep Hole Number        | 14A                    | 10 5 /2011           | Le Time 9         | : 10 mm Weather | Clear, 480F  |
| Location (identify o    |                        | to Site Pla          |                   | · 10 mm weather | CULON 1 48   |
|                         | edland                 | Slope (%)            | Surface Stor      | nes None        |  |
| F-9-12                  | Mugod trees            |                      | Sariace Biol      | 140HC           |  |
| 4,.3971                 | rumlia                 |                      | 12.               |                 |  |
| Position on landscap    | e (sketch on the back) | refer to             | Site Plan (       | a Hacked)       |  |
| Distances from:         |                        |                      |                   | )               |  |
| Open Water Bo           |                        | Drainage way         | 200 feet          |                 |  |
| Possible Wet Are        |                        | Property Line        | > 10 feet         |                 |  |
| Drinking Water V        | Vell >100 feet         | Other                |                   |                 |  |
|                         | ]                      | DEEP OBSERVA         | ATION HOLE LO     | G               |  |
| Depth from Surface      | Soil Horizon           | Soil Texture         | Soil Color        | Soil Mottling   | Other  |
| (Inches)                | 5011 110111011         | (USDA)               | (Munsell)         | Sun Montaing    | (Structure, Stones, Boulders,<br>Consistency, "Gravel) |
| 0-7                     | 195                    | SL                   | 10 4R 3/3         |                 | friable, massible                                      |
|                         |                        |                      |                   |                 | THOUSE HUSBITS   |
| 7-12                    | Δ                      | 21                   | 7.5 4 5/80        | 1               |  |
| 4-17                    | В                      | SL                   | 7.5 4 5/3         |                 | france   |
|                         |                        |                      |                   |                 |  |
| 17-20                   | BIC                    | SL                   | 254 64            |                 | ledge 0 20'  |
|                         |                        |                      |                   |                 | Manuelle andrews                                       |
|                         |                        |                      | T                 |                 | gravelly (masses                                       |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
| -                       |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        | -                    |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
|                         |                        |                      |                   |                 |  |
| Receiving Layers        |                        |                      | Design Class      |                 |  |
| Parent Material (geolog | ic) <u> </u>           |                      | Depth to Bedrock: | 204             |  |
| Depth to Groundwater:   | Standing Water         | r in the Hole:       | Weeping from      | n Pit Face:     |  |
|                         | Estimated Sea          | asonal High Ground V | Water:            | •               |  |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Vegetation<br>Landform                     | on site plan)  Compared to the back)  ody 200 feet feet | Slope (%)  Drainage way Property Line Other | Surface Ston                    | 20 m Weather es None | Clar, 48°F  |
|--|---|---|---------------------------------|----------------------|---|
|  | I   | DEEP OBSERV                                 | ATION HOLE LO                   | G                    | ¥ *   |
| Depth from Surface<br>(Inches)             | Soil Horizon  | Soil Texture<br>(USDA)                      | Soil Color<br>(Munsell)         | Soil Mottling        | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-7  | A   | SL  | 10 YK 3/3                       |                      | massive, fivable  |
| 7-17                                       | В   | SL  | 2542518                         |                      | Frank.  |
| 17-22                                      | BIC   | SL  | 2.5 4 614                       |                      | habi  |
| 22 - 26                                    | Cd  | SL  | 254 5/4                         |                      | leage 210"  |
|  |   |   |                                 |                      |   |
|  |   | .   |                                 |                      |   |
| Receiving Layers  Parent Material (geologi | ie) † ;   |   | Design Class                    | <b>h</b>             |   |
| Depth to Groundwater:                      | Standing Water  | in the Hole:                                | Depth to Bedrock:  Weeping from | Pit Face:            |   |
|  | Estimated Seas  | onal High Ground V                          | Water: 33                       |                      |   |

## FORM 11 - SOIL EVALUATOR FORM

Job# /603/

| Method Used:   | Test Hole Number  | 16-AB  |   |
|--|---|--|---|
| Depth observed standing in o                             | bservation hole   | inches   |   |
| Depth weeping standing in o                              | bservation hole   | inches   |   |
| Depth to soil mottles                                    |   | inches   |   |
| Ground water adjustment                                  |   | feet   |   |
| Index Well Number Adjustment factor                      | Reading Date Adjusted ground water                            | Index well lev                                 | rel   |
| Depth of Naturally Occurri                               | ng Pervious Materia   | l  | -   |
| Does at least four feet of no observed throughout the ar | aturally occurring porce proposed for the                     | ervious material exis<br>soil absorption syste | en? No  |
| If not, what is the depth of                             | naturally occurring   | pervious material?                             | 19"   |
| Certification  |   |  |   |
| been performed by me<br>described in 310 CMR             | consistent with the 15.017. I further content of Evaluation F | required training, ex                          | evironmental Protection hat the above analysis has expertise and experience s of my soil evaluation, as ad in accordance with 310 |
| Signature  | Date  |  |   |
| NOTE: See accompanying co                                | ver letter which is p   | art of this report.                            |   |

### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Deep Hole Number<br>Location (identify o |                        | to Site Pla        | n (attached)      | 30 Am Weather | Clear, \$30f   |
|--|------------------------|--------------------|-------------------|---------------|--|
| Land Use                                 | adland                 | Slope (%)          | Surface Stone     | es None       |  |
| Vegetation 🕌                             | MWOOD TREES            |                    |                   |               |  |
| Landform                                 | run lia                |                    |                   |               |  |
| Position on landscap                     | e (sketch on the back) | refer to           | Site Plan (a      | Hacked)       |  |
| Distances from:                          |                        |                    |                   | 7             |  |
| Open Water Bo<br>Possible Wet Are        |                        | Drainage way       | 200 feet          |               |  |
| Drinking Water V                         | vell >100 feet         | Property Line      | 2 10 feet         |               |  |
| Dimang water v                           | ACTI SIDO ICCI         | Other              |                   |               |  |
|  | Γ                      | DEEP OBSERV        | ATION HOLE LO     | 3             |  |
| Depth from Surface                       | Soil Horizon           | Soil Texture       | Sail Color        | Soil Mottling | Other  |
| (Inches)                                 |                        | (USDA)             | (Munscil)         | Ů             | (Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6                                      | A                      | SL                 | 10 42 3 3         |               |  |
|  |                        | 3 -                | 10 1/2 2/3        |               | massive front  |
| 6-12                                     | n                      |                    |                   |               |  |
| 4-12                                     | В                      | SL                 | 7.5 YR 5/8        |               | frate  |
|  |                        |                    |                   |               |  |
| 2-21                                     | CA                     | SL                 | 2.5 Y 614         |               | Vfriable   |
|  |                        |                    | C. 2 1 414        |               | VIIINBLE   |
| 21-51                                    | Cd                     |                    |                   | -             | 3  |
| DO1 - 31                                 | Cd                     | SL                 | 2.5 ¥ 5/4         |               | gravelly dense   |
|  |                        | - A144             |                   |               | armstelly dense  |
|  |                        |                    |                   | •             | 0. 0.  |
|  |                        |                    |                   |               |  |
|  |                        |                    | -                 |               |  |
|  |                        |                    |                   |               |  |
|  |                        |                    |                   |               |  |
|  |                        |                    |                   |               |  |
|  |                        |                    |                   |               |  |
|  |                        | -                  |                   |               |  |
|  |                        |                    |                   | /             |  |
| Pagainting 1                             |                        |                    |                   |               |  |
| Receiving Layers                         |                        |                    | Design Class      |               |  |
| Parent Material (geologic                | e) till                |                    | Depth to Bedrock: | 51"           |  |
| Depth to Groundwater:                    | Standing Water         | in the Hole:       | Weeping from      | Pit Face:     |  |
|  | _                      |                    |                   |               |  |
|  | Estimated Seas         | onal High Ground V | Vater: <u>al</u>  |               |  |

## FORM 11 - SOIL EVALUATOR FORM

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Job# 16031

| Method Used:   | Test Hole Number   | 16-13A  | _   |
|--|--|---|-----|
| Depth observed standing in                             | observation hole   | inches  |     |
| Depth weeping standing in o                            | observation hole   | inches  |     |
| Depth to soil mottles                                  | 21   | inches  |     |
| Ground water adjustment                                |  | feet  |     |
| Index Well Number Adjustment factor                    | Reading Date Adjusted ground water   | Index well level                                |     |
| Depth of Naturally Occurr                              | ing Pervious Material  |   |     |
| Does at least four feet of a observed throughout the a | naturally occurring per<br>rea proposed for the s                          | rvious material exist in oil absorption system? | No  |
| If not, what is the depth of                           | naturally occurring p  | ervious material?                               | 45" |
| Certification  |  |   |     |
| been performed by me<br>described in 310 CMF           | consistent with the r<br>l 15.017. I further cer<br>hed Soil Evaluation Fo | equired training, expen                         |     |
| Signature  | Date   |   |     |
| NOTE: See accompanying co                              | over letter which is pa  | st of this report.                              |     |

#### FORM 11 - SOIL EVALUATOR FORM

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Job. # 16031

| Vegetation Landform            | n site plan)  Yer  August 1/26  C (sketch on the back)  dy 200 feet  a 2100 feet | Slope (%)              | Surface Stor            | 40 mm Weather None | Clear, 540F   |
|--------------------------------|--|------------------------|-------------------------|--------------------|---|
|                                | ]  | DEEP OBSERVA           | ATION HOLE LO           | G                  |   |
| Depth from Surface<br>(Inches) | Soil Horizon   | Soil Texture<br>(USDA) | Soil Color<br>(Munsell) | Soil Mottling      | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| P-10                           | A  | fol                    | 104E 313                |                    | more, truste  |
| 10-12                          | В  | for                    | 254518                  |                    | Rivable.  |
| 12-21                          | CI   | fsl                    | 254614                  |                    | it france   |
| 21-40                          | Cd   | SL                     | 254514                  |                    | wage (40"   |
|                                |  |                        |                         |                    |   |
|                                |  |                        |                         |                    |   |
| Receiving Layers               |  |                        | Design Class            |                    |   |
| Parent Material (geologi       | c) <u> </u>  |                        | Depth to Bedrock:       | 40"                |   |
| Depth to Groundwater:          | Standing Water   | r in the Hole:         | Weeping from            | n Pit Face:        |   |
|                                | Estimated Sea  | sonal High Ground V    | Vater: U                | of                 |   |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 3

Job # 16031

# **Determination for Seasonal High Water Table**

| Method Used:   | Test Hole Number                                  | 16-138   | _                |
|--|---|--|------------------|
| Depth observed standing                              | in observation hole                               | inches   |                  |
| Depth weeping standing i                             | n observation hole                                | inches   |                  |
| Depth to soil mottles                                | _ 21  | inches   |                  |
| Ground water adjustment                              |   | feet   |                  |
| Index Well Number Adjustment factor                  | Reading Date Adjusted ground water                | Index well level                                   |                  |
| Depth of Naturally Occu                              | rring Pervious Materia                            | 1  |                  |
| Does at least four feet o<br>observed throughout the | f naturally occurring po<br>area proposed for the | ervious material exist i<br>soil absorption system | in all areas  No |
| If not, what is the depth                            | of naturally occurring                            | pervious material?                                 | 34"              |
| Certification  |   |  |                  |
| been performed by<br>described in 310 C              | MR 15.017. I further coached Soil Evaluation F    | required training, expe                            |                  |
| Signature  | Date  |  |                  |
|  |   |  |                  |

NOTE: See accompanying cover letter which is part of this report.

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Location (identify or Land Use Vegetation Landform Position on landscap Distances from: Open Water Born Possible Wet Are | e (sketch on the back)                  | Slope (%)  Drainage way Property Line | N (attached) Surface Stone | None Hacked   | Some Clouds, 56   |
|--|---|---------------------------------------|----------------------------|---------------|---|
| Drinking Water W   |   | Other DEEP OBSERVA                    | ATION HOLE LO              | G             |   |
| Depth from Surface<br>(Inches)   | Soîl Horizon                            | Soil Texture<br>(USDA)                | Soil Color<br>(Munsell)    | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, "Gravel) |
| 0-6  | Α                                       | FEL                                   | 10 Y L 3 (3                |               | massine, fraise   |
| 6-12   | B                                       | fsL                                   | 1,5 4R 518                 |               | Iniable   |
| 12-21  | cı                                      | for                                   | 2.54 6/4                   |               | friedle   |
| 21-24  | Cd                                      | SL                                    | 2545/4                     |               | leage @ 24<br>gravelly: dense                                   |
|  |   |                                       |                            |               |   |
| Receiving Layers   | No. Al                                  |                                       | Design Class               |               |   |
| Parent Material (geologi   | 30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - |                                       | Depth to Bedrock:          | 4"            |   |
| Depth to Groundwater:  | Standing Water Estimated Sea            | in the Hole:  sonal High Ground V     | Weeping from Z111          | Pit Face:     | -   |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

| Method Used:   | Test Hole Number                            | 16-13C  | _   |
|--|---|---|---|
| Depth observed standing in of                            | servation hole                              | inches  |   |
| Depth weeping standing in ob                             | servation hole                              | inches  |   |
| Depth to soil mottles                                    | _2  | inches  |   |
| Ground water adjustment                                  |   | feet  |   |
| Index Well Number Adjustment factor                      | Reading Date Adjusted ground water          | Index well level  |   |
| Depth of Naturally Occurring                             | ng Pervious Materia                         | 1   |   |
| Does at least four feet of na observed throughout the ar | aturally occurring p<br>ea proposed for the | ervious material exist is<br>soil absorption system?  | n all areas                                 |
| If not, what is the depth of                             | naturally occurring                         | pervious material?  | 15"   |
| Certification  |   |   |   |
| been performed by me<br>described in 310 CMR             | consistent with the 15.017. I further c     | the Department of Enviroil evaluations and that required training, experentify that the results of Form, are accurate and i | the above analysis has rtise and experience |
| Signature  | Date  |   |   |
| NOTE: See accompanying cov                               | ver letter which is p                       | eart of this report.  |   |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # 16031

| Vegetation -                   | y >100 feet    | Slope (%)  Drainage way Property Line Other | Surface Ston            | Hacked)       | *   |
|--------------------------------|----------------|---|-------------------------|---------------|---|
|                                | ]              | DEEP OBSERV                                 | ATION HOLE LO           | G             |   |
| Depth from Surface<br>(Inches) | Soil Horizon   | Soil Texture<br>(USDA)                      | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-10                           | A              | fol   | 10 YE 313               |               | massive, fantle   |
| 10-15                          | В              | fsh   | 7.5 42 518              |               | frake   |
| 15 - 32                        | Cl             | fsL   | 25464                   |               | V. frakte   |
| 32-36                          | Cá             | 5L  | 25 4 514                |               | gravelly, dense   |
|                                |                |   |                         | ,             | gravelly, dinse   |
|                                |                | 71  |                         |               |   |
|                                |                | (A)   |                         |               |   |
|                                |                |   |                         |               |   |
| ecciving Layers                |                |   | Design Class            |               | ,   |
| rent Material (geologic)       | +:11           |   | Depth to Bedrock: 3     |               |   |
| pth to Groundwater:            | Standing Water | in the Hole:                                | - Weeping from          | Pit Face:     |   |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job # 16031

| Method Used:  | Test Hole Number                   | 16-11A                 |   |
|---|------------------------------------|------------------------|---|
| Depth observed standing i   | n observation hole                 | inches                 |   |
| Depth weeping standing in   | n observation hole                 | inches                 |   |
| Depth to soil mottles   | _ 32                               | inches                 |   |
| Ground water adjustment   |                                    | feet                   |   |
| Index Well Number Adjustment factor   | Reading Date Adjusted ground water | Index well level       |   |
| Depth of Naturally Occur  | ring Pervious Material             | 2                      |   |
| Does at least four feet of observed throughout the life not, what is the depth of Certification | are proposed for the s             | soil absorption system | in all areas No 26  |
| been performed by n described in 310 CM   | D 15 017 Y C                       | equired training, expe | ironmental Protection<br>t the above analysis has<br>ertise and experience<br>of my soil evaluation, as<br>in accordance with 310 |
| Signature   | Date                               |                        |   |
| NOTE: See accompanying of   | over letter which is pa            | rt of this report.     |   |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

|   | aland tree    | Slope (%)                              | Time 10<br>N (attached<br>Surface Sto | None None     | Some Clouds, 5  |
|---|---------------|--|---------------------------------------|---------------|---|
| 4 10 1 1  | fun A         |  | Site Plan (                           | a Hacked)     |   |
| Open Water Body<br>Possible Wet Area<br>Drinking Water We | >100 feet     | Drainage way<br>Property Line<br>Other | lo feet<br>feet                       |               |   |
|   |               | DEEP OBSERV                            | ATION HOLE LO                         | )G            |   |
| Depth from Surface<br>(Inches)                            | Soil Horizon  | Soil Texture<br>(USDA)                 | Soil Color<br>(Munsell)               | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6"  | A             | 10 42313                               | SL                                    |               | ledge @ 6"  |
| MARIARIA  |               |  |                                       |               |   |
| 182A,   |               |  |                                       |               |   |
|   |               |  |                                       |               |   |
|   |               |  |                                       |               |   |
|   |               |  |                                       |               |   |
|   |               |  |                                       |               |   |
|   |               |  |                                       |               |   |
|   |               |  |                                       |               | (10)  |
| eceiving Layers   |               |  | Design Class                          |               |   |
| rent Material (geologic)                                  | +:11          |  | Depth to Bedrock:                     | 6"            |   |
| pth to Groundwater:                                       | Standing Wate | r in the Hole:                         | Weeping from                          | n Pit Face:   | <u></u>   |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

| Vegetation<br>Landform      | e (sketch on the back) | 2                      | N (attached Surface Stor                    | }             | Some Clauds, 5  |
|-----------------------------|------------------------|------------------------|---|---------------|---|
|                             | 3                      | DEEP OBSERVA           | ATION HOLE LO                               | G             | *   |
| Depth from Surface (Inches) | Soil Horizon           | Soil Texture<br>(USDA) | Soil Color<br>(Munsell)                     | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6                         | A-                     | SL                     | 10 YR 3/3                                   |               | magine, topide  |
| 6-18                        | В                      | SL                     | 25 Ye5 8                                    |               | trusts  |
| 18 - 32"                    | a                      | fsl                    | 25464                                       |               | frame, some   |
|                             |                        |                        |   |               | growed growe  |
|                             |                        |                        |   |               |   |
|                             |                        |                        |   |               |   |
|                             |                        |                        |   |               |   |
|                             |                        |                        |   |               |   |
| Receiving Layers            |                        |                        | Design Class                                |               |   |
| Parent Material (geologi    | o) till                |                        | Depth to Bedrock:                           | 32"           |   |
| Depth to Groundwater:       | Standing Water         | r in the Hole:         | Weeping from                                | m Pit Face:   |   |
|                             | Estimated Sea          | asonal High Ground     | Water: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |               |   |

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job # 16031

| Method Used: Test Hole I  | Number 10-98  |
|---|---|
| Depth observed standing in observation hole                                   | inches  |
| Depth weeping standing in observation hole                                    | inches  |
| Depth to soil mottles   | 18 inches   |
| Ground water adjustment   | feet  |
| Index Well Number Reading Da Adjustment factor Adjusted gro                   |   |
| Depth of Naturally Occurring Pervious   | s Material  |
| Does at least four feet of naturally occobserved throughout the area proposed | curring pervious material exist in all areas d for the soil absorption system?  |
| If not, what is the depth of naturally o                                      | ccurring pervious material? 26"   |
| Certification   |   |
| been performed by me consistent<br>described in 310 CMR 15.017                | oved by the Department of Environmental Protection onduct soil evaluations and that the above analysis has with the required training, expertise and experience further certify that the results of my soil evaluation, as aluation Form, are accurate and in accordance with 310 |
| Signature D   | Pate  |
| NOTE: See accompanying cover letter w   | which is part of this report.   |

#### **FORM 11 - SOIL EVALUATOR FORM**

PAGE 2

Job. # (603)

| Deep Hole Number Location (identify on | cite plan) Date      | 10 51 Pa               | n (attached)            | OO AM Weather | Jome Wards, 59   |
|--|----------------------|------------------------|-------------------------|---------------|--|
|  | odland               | Slope (%)              | Surface Stone           | es None       |  |
|  | dupped trees         |                        | Surface Stolk           | THOME         |  |
| 4-353-4                                | Um la                |                        | .1                      |               |  |
| Position on landscape                  | (sketch on the back) | refer to               | Site Plan (a            | Hacked        |  |
| Distances from:                        | (                    | 10101                  | OTIO TO THE LO          | ( )           |  |
| Open Water Boo                         | ly >100 feet         | Drainage way           | > 00 feet               |               |  |
| Possible Wet Area                      | 2 >100 feet          | Property Line          | > 10 feet               |               |  |
| Drinking Water W                       | ell 100 feet         | Other                  |                         |               |  |
|  |                      | FEP ORSEDV             | ATION HOLE LO           | Ċ             |  |
|  |                      | DEEI OBSERV            | ALION HOLE DO           |               | ·  |
| Depth from Surface<br>(Inches)         | Soil Harizon         | Soil Texture<br>(USDA) | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel)  |
| 0 - 9                                  | A                    | SL                     | 10 42 3/2               |               | massive, frakte  |
|  |                      | 3                      | - Maria                 |               | INC. SEVE, ITSUS   |
| 9 - 18                                 | В                    | SL                     | 154R 518                |               | C  |
| 1-10                                   | 0                    |                        | 110                     |               | frable   |
|  | 010                  |                        |                         |               |  |
| 18-36                                  | BC                   | SL                     | 254 614                 |               | V. frable  |
|  |                      |                        | 08 (6) 2                |               |  |
| 36-84                                  | Cd                   | 51                     | 254 514                 |               | Lowelly dance  |
| 34 01                                  | بلا                  | 00                     | 231 014                 |               | fourthy, donce   |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
|  |                      |                        |                         |               |  |
| Receiving Layers                       |                      |                        | Design Class            | I             |  |
| Parent Material (geologic              | c) <u>till</u>       |                        | Depth to Bedrock:       |               | ##   |
| Depth to Groundwater:                  | Standing Water       | r in the Hole:         | - Weeping from          | Pit Face:     | •  |
|  |                      | ·                      | 0 × W                   |               | AN CONTRACTOR STATE OF THE STAT |
|  | Estimated Sea        | asonal High Ground     | Water: 36 <sup>M</sup>  |               |  |

## FORM 11 - SOIL EVALUATOR FORM

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Job# 16031

| Method Used:  | Test Hole Number                        | 16-3A  | _   |
|---|---|--|---|
| Depth observed standing in ob                             | servation hole                          | inches   |   |
| Depth weeping standing in obs                             | ervation hole                           | inches   |   |
| Depth to soil mottles                                     | _ 310                                   | inches   |   |
| Ground water adjustment                                   |   | feet   |   |
| Index Well Number Adjustment factor                       | Reading Date Adjusted ground water      | Index well level                                   |   |
| Depth of Naturally Occurrin                               | g Pervious Materia                      | 1  |   |
| Does at least four feet of na observed throughout the are | turally occurring pea proposed for the  | ervious material exist i<br>soil absorption system | n all areas                                 |
| If not, what is the depth of n                            | aturally occurring                      | pervious material?                                 |   |
| Certification   |   |  |   |
| been performed by me                                      | consistent with the 15.017. I further c | required training, expe                            | the above analysis has rtise and experience |
| Signature   | Date                                    |  |   |
| NOTE: See accompanying cov                                | er letter which is p                    | eart of this report.                               |   |

#### **FORM 11 - SOIL EVALUATOR FORM**

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Job.#

| Deep Hole Number               | 110-3B Date    | 10/5/14                | Time10-2                | 0 m Weather   | Clear, 59°F  |
|--------------------------------|----------------|------------------------|-------------------------|---------------|--|
| Location (identify on Land Use | site plan)     | to site pl             | Surface Stone           |               |  |
|                                |                | Slope (%)              | Surface Stone           | None None     |  |
|                                | ardward tre    | Es                     |                         |               |  |
| Position on landscape          |                | refer to               | site plan (             | attached      |  |
| Distances from:                | <b>()</b>      | 1-2-10                 | are prom                | ary newsen    |  |
| Open Water Bod                 |                | Drainage way           | 7100 feet               |               |  |
| Possible Wet Area              |                | Property Line          | >10 feet                |               |  |
| Drinking Water W               | ell > 100 feet | Other                  |                         |               |  |
|                                | 1              | DEEP OBSERVA           | ATION HOLE LO           | G             |  |
| 7.10                           |                |                        |                         |               |  |
| Depth from Surface<br>(Inches) | Soil Horizon   | Soil Texture<br>(USDA) | Soîl Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,   |
| (Inches)                       |                | (332.0)                | (Windows)               |               | Consistency, %Gravel)  |
| 0-6                            | A              | SL                     | 10 YR3/3                |               | massive, fregole   |
|                                |                |                        |                         |               |  |
| 6-14                           | B              | SL                     | 7.5 42518               |               | frate.   |
|                                |                |                        |                         |               | 41.100   |
| 14-24                          | CI             | FIL                    | 2.54 6/4                |               | very frust.  |
|                                |                |                        |                         |               |  |
| 24-48                          | Cd             | SL                     | 25 4514                 |               | gravelly dense   |
|                                |                |                        |                         |               | gravelly dense   |
|                                |                |                        |                         |               | 3 3  |
|                                |                |                        |                         |               |  |
|                                |                |                        |                         |               |  |
|                                |                |                        |                         |               |  |
|                                |                |                        |                         |               |  |
|                                |                |                        |                         |               | -  |
|                                |                |                        |                         |               |  |
|                                |                |                        |                         |               |  |
|                                |                |                        |                         |               |  |
| Receiving Layers               | _              |                        | Design Class            |               |  |
| Parent Material (geolog        | ric) Till      |                        | Depth to Bedrock:       | 484           |  |
| Depth to Groundwater:          | Standing Wat   | er in the Hole:        | Weeping fro             | om Pit Face:  | - Aller - Alle |
|                                | Estimated So   | easonal High Ground    | Water: 24"              |               |  |

#### FORM 11 - SOIL EVALUATOR FORM

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Job # 16031

| Method Used: Test Hole Number 16-3B   |                   |
|---|-------------------|
| Depth observed standing in observation hole inches  |                   |
| Depth weeping standing in observation hole inches   |                   |
| Depth to soil mottles   |                   |
| Ground water adjustment feet  |                   |
| Index Well Number Reading Date Index well level Adjustment factor Adjusted ground water   |                   |
| Depth of Naturally Occurring Pervious Material  |                   |
| Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?   |                   |
| If not, what is the depth of naturally occurring pervious material?   |                   |
| Certification   |                   |
| I certify that I am currently approved by the Department of Environmental Prote pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analybeen performed by me consistent with the required training, expertise and experted escribed in 310 CMR 15.017. I further certify that the results of my soil evaluation form, are accurate and in accordance we CMR 15.100 through 15.107. | ysis has<br>ience |
| Signature Date  |                   |
| NOTE: See accompanying cover letter which is part of this report.   |                   |

#### **FORM 11 - SOIL EVALUATOR FORM**

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Job. # (6031

| Location (identify or  |                        | 12 514 1210        | Time 10:3         | U PM Weather                           | Clarist                       |
|--|------------------------|--------------------|-------------------|--|-------------------------------|
|  |                        | Slope (%)          |                   | es None                                | 7/25-7                        |
|  | shood trees            |                    |                   |  |                               |
| Landform 👈   | Unila                  |                    |                   |  |                               |
|  | e (sketch on the back) | refer to           | Site Plan (a      | Hacked)                                |                               |
|  |                        | Deriens            |                   | ,                                      |                               |
|  |                        |                    | Company           |  |                               |
|  |                        |                    | 16Ct              |  |                               |
| Location (identify on size plan)  Land Use Vegetation Land Grand Position on landscape (sketch on the back) Distances from: Open Water Body Possible Wet Area Position Surface (inches)  DEEP OBSERVATION HOLE LOG  Depth from Surface (inches)  Soil Henrizon  Soil Texture (USDA)  Soil Color (Wansel)  Soil Moetling (Streature, Stones, Boulder, Cusnismery, Moravel)  The St. |                        |                    |                   |  |                               |
|  | ]                      | DEEP OBSERV        | ATION HOLE LO     | G                                      | ·                             |
|  | Soil Horizon           |                    |                   | Soil Mottling                          | (Structure, Stones, Boulders, |
| 0. 2   | В.                     | 21                 | n n lo            |  | ,                             |
| 0 1  |                        |                    | 10 4R 313         |  | massive, masks                |
|  |                        | 772                |                   |  |                               |
| 7 5  | В                      | SL                 | 75 YR 518         |  | fra ble                       |
|  |                        |                    |                   |  |                               |
| 15-14  | BIC                    | Ce                 | 45114             |  | 2. 6                          |
|  | DIC                    | 736                | 000 1 614         |  | V-1049U-                      |
| 0.6 0.8  |                        |                    |                   |  |                               |
| 24-84  | Cd                     | 52                 | 25 Y 514          |  | donic growielly               |
|  |                        |                    |                   |  | 0 4                           |
|  |                        |                    |                   | 0.57                                   |                               |
|  |                        |                    |                   |  |                               |
|  |                        |                    |                   |  |                               |
|  |                        |                    |                   |  |                               |
|  |                        |                    |                   |  |                               |
|  |                        |                    |                   |  |                               |
|  |                        |                    |                   |  |                               |
|  |                        |                    | -                 |  |                               |
|  |                        |                    |                   |  |                               |
| Receiving Lavers   |                        |                    | Dorion Class      | T                                      |                               |
|  | 1 11                   |                    | Design Class      |  |                               |
| Parent Material (geologic  | e) <u> </u>            |                    | Depth to Bedrock: |  |                               |
| Depth to Groundwater:  | Standing Water         | r in the Hole:     | Weeping from      | Pit Face:                              | mprille.                      |
|  |                        |                    |                   | ************************************** |                               |
|  | Estimated Sea          | asonal High Ground | Water: 24"        |  |                               |

# FORM 11 - SOIL EVALUATOR FORM

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Job # 16031

## **Determination for Seasonal High Water Table**

| Method Used:                                       | Test Hole Number   | 16-3C  |                                     |
|--|--|--|-------------------------------------|
| Depth observed standing in                         | observation hole   | inches   |                                     |
| Depth weeping standing in o                        | bservation hole  | inches   |                                     |
| Depth to soil mottles                              | _ 24   | inches   |                                     |
| Ground water adjustment                            |  | _ feet   |                                     |
| Index Well Number Adjustment factor                | Reading Date Adjusted ground water   | Index well level   |                                     |
| Depth of Naturally Occurr                          | ing Pervious Material  |  |                                     |
| Does at least four feet of observed throughout the | naturally occurring per<br>trea proposed for the s                           | rvious material exist in all oil absorption system?  | es es                               |
| If not, what is the depth o                        | f naturally occurring p  | ervious material?  |                                     |
| Certification                                      |  |  |                                     |
| been performed by m<br>described in 310 CM         | te consistent with the r<br>R 15.017. I further ce<br>thed Soil Evaluation F | te Department of Environment of Environment of Environment of the sequired training, expertise of the training of the sequired training, expertise of the training of the sequire of the s | bove analysis has<br>and experience |
| Signature  | Date   |  |                                     |
|  |  |  |                                     |

NOTE: See accompanying cover letter which is part of this report.

# FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job.#

| l Use litation form dion on landscape (sk nces from: Open Water Body | tetch on the back) |                        | Time 10 son (attached) Surface Stone  Athed Site Plan  7 180 feet  > 10 feet |               | Clear, 590F                            |
|--|--------------------|------------------------|--|---------------|--|
|  | 1                  | DEEP OBSERVA           | ATION HOLE LO  | G             |  |
| from Surface<br>(Inches)   | Soil Horizon       | Soil Texture<br>(USDA) | Soil Color<br>(Munsell)  | Soil Mottling | Other<br>(Structure, Stones, Boulders, |
| 3 - 8  | A                  | SL                     | 104R 3/3   |               | Consistency, %Gravel)                  |
| -18  | В                  | 26                     | 78 46 5/8  |               | frag le                                |
| - 27   | a                  | fal                    | 27444  |               | V-forabric                             |
| - 18   | Cd                 | SL                     | 254514   |               | gravely, dense                         |
|  |                    |                        |  |               |  |
|  |                    |                        |  |               |  |
|  |                    |                        |  |               |  |
| g Layers   |                    |                        | Design Class   | TT .          |  |
| aterial (geologic)   | till               |                        |  |               |  |
| roundwater:  | Standing Water     |                        | 8  | Pit Face:     |  |
|  | Standing Water     |                        | Depth to Bedrock:  Weeping from  | Pit Face:     |  |

## FORM 11 - SOIL EVALUATOR FORM

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Job# 16031

| Method Used:  | Test Hole Number  | 16-3D   | _           |
|---|---|---|-------------|
| Depth observed standing in of                           | bservation hole   | inches  |             |
| Depth weeping standing in ol                            | oservation hole   | inches  |             |
| Depth to soil mottles                                   | 27  | inches  |             |
| Ground water adjustment                                 |   | feet  |             |
| Index Well Number Adjustment factor                     | Reading Date Adjusted ground water  | Index well level                                |             |
| Depth of Naturally Occurri                              | ng Pervious Material  |   |             |
| Does at least four feet of n observed throughout the an | aturally occurring percea proposed for the s  | rvious material exist in oil absorption system? | n all areas |
| If not, what is the depth of                            | naturally occurring p   | ervious material?                               |             |
| Certification   |   |   |             |
| been performed by me<br>described in 310 CMR            | consistent with the plant of the consistent with the plant of the constant of | required training, expe                         |             |
| Signature   | Date  |   |             |
| NOTE: See accompanying co                               | over letter which is p  | art of this report.                             |             |

### FORM 11 - SOIL EVALUATOR FORM

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Job.#

|  | site plan) Scc       | The state of the s | Time 10:4               |               | Char, 590°  |
|--|----------------------|--|-------------------------|---------------|---|
| Landform Position on landscape Distances from:           | (sketch on the back) | See at   | tached size pla         | 10            |   |
| Open Water Bod<br>Possible Wet Area<br>Drinking Water We | feet                 | Drainage way<br>Property Line<br>Other   | feet feet               |               |   |
|  | ]                    | DEEP OBSERVA   | ATION HOLE LO           | G             |   |
| Depth from Surface<br>(Inches)                           | Soil Horizon         | Soil Texture<br>(USDA)   | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, "Grave!) |
| 0-10   | A                    | 82   | 104E313                 |               | friance, massive  |
| 0-12   | В                    | SC   | 45 4518                 |               | frense  |
| 12- 32   | BC                   | fol  | 25 4 614                |               | v. fooble   |
| 32-67  | С                    | SL   | 254 514                 |               | dense, gravelly   |
|  |                      |  |                         |               |   |
|  |                      |  |                         |               |   |
|  |                      |  |                         |               |   |
|  |                      |  |                         |               |   |
| Receiving Layers   |                      |  | Design Class            | I             |   |
| Parent Material (geologi                                 | c) till              |  | Depth to Bedrock:       | 67*           |   |
| Depth to Groundwater:                                    | Standing Wat         | er in the Hole:  | Weeping fro             | m Pit Face:   |   |
|  | Estimated Se         | easonal High Ground  | Water: 32"              |               |   |

# FORM 11 - SOIL EVALUATOR FORM

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Job# 16031

| Method Used: Tex                   | at Hole Number $16-3E$   |
|------------------------------------|--|
| Depth observed standing in observa | tion hole inches   |
| Depth weeping standing in observa  | tion holeinches  |
| Depth to soil mottles              | inches   |
| Ground water adjustment            | feet   |
|                                    | justed ground water Index well level   |
| Depth of Naturally Occurring P     | ervious Material   |
| _                                  | elly occurring pervious material exist in all areas roposed for the soil absorption system?  |
| Certification                      | rally occurring pervious material?   |
|                                    |  |
| described in 310 CMB 15.0          | y approved by the Department of Environmental Protection 7 to conduct soil evaluations and that the above analysis has istent with the required training, expertise and experience 17. I further certify that the results of my soil evaluation, as oil Evaluation Form, are accurate and in accordance with 310 |
| Signature                          | Date   |
| NOTE: See accompanying cover le    | etter which is part of this report.  |

### FORM 11 - SOIL EVALUATOR FORM

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|   |  | On-                              | Site Review                      | JOB. # \ ( <b>JO</b> : | <b>3</b> 1.                            |
|---|--|----------------------------------|----------------------------------|------------------------|--|
| Land Use Vegetation Landform  | on site plan) refe<br>codland<br>indused free<br>Cum lia |                                  | Time 10  A Hacked  Surface Store |                        | cuar, 56°C                             |
| Position on landscap Distances from: Open Water Bo Possible Wet An Drinking Water V | ca >100 feet   | Drainage way Property Line Other | Site Plan (                      | a Hacked)              |  |
|   |  | DEEP OBSERV                      | ATION HOLE LO                    | G                      |  |
| Depth from Surface<br>(Inches)  | Soil Horizon   | Soil Texture<br>(USDA)           | Soil Color<br>(Munsell)          | Soil Mottling          | Other<br>(Structure, Stones, Boulders, |
| 0-6   | A  | SL                               | 10 4E 313                        |                        | Consistency, %Gravel)                  |
| 6-10  | В  | SL                               | 25 4R 518                        |                        | forgastic                              |
| 10-21   | BIC  | SL                               | 254 614                          |                        | muble                                  |
| 22-94   | OSI C.   | SL                               | 25 4 514                         |                        | grandly                                |
|   |  |                                  |                                  | 1/6                    |  |
|   |  |                                  |                                  |                        |  |
|   |  |                                  | ·                                | 5                      |  |
|   |  |                                  |                                  |                        |  |
| Receiving Layers  | 4.11   |                                  | Design Class                     | II—                    |  |
| Parent Material (geologic<br>Depth to Groundwater:                                  | Standing Water   |                                  | Depth to Bedrock:                | Dit Face:              |  |

Estimated Seasonal High Ground Water:

Weeping from Pit Face:

# FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

| Method Used:                                       | Test Hole Number   | 16-35  | _   |
|--|--|--|---|
| Depth observed standing in                         | observation hole   | inches   |   |
| Depth weeping standing in                          | observation hole   | inches   |   |
| Depth to soil mottles                              | _ 2  | 2 inches   |   |
| Ground water adjustment                            |  | feet   |   |
| Index Well Number Adjustment factor                | Reading Date Adjusted ground wate                                | Index well level   |   |
| Depth of Naturally Occur                           | ring Pervious Mater  | ial  |   |
| Does at least four feet of observed throughout the | naturally occurring area proposed for th                         | pervious material exist i<br>e soil absorption system  | in all areas ?                                  |
| If not, what is the depth of                       | of naturally occurrin  | g pervious material?   |   |
| Certification                                      |  |  |   |
| been performed by a<br>described in 310 CM         | ne consistent with the IR 15.017. I further ched Soil Evaluation | y the Department of Envisoril evaluations and that<br>soil evaluations and that<br>he required training, expo<br>certify that the results of<br>Form, are accurate and | the above analysis has<br>ertise and experience |
| Signature  | Date   |  |   |
| NOTE: See accompanying                             | cover letter which is  | part of this report.   |   |

#### FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (603)

|                             | y <u>&gt;100</u> feet | Drainage way Property Line Other | Site Plan (a            | Hacked)          |   |
|-----------------------------|-----------------------|----------------------------------|-------------------------|------------------|---|
| -                           |                       | DEEP OBSERV                      | ATION HOLE LO           | G                | 3   |
| Depth from Surface (Inches) | Soil Horizon          | Soil Texture<br>(USDA)           | Soil Color<br>(Munsell) | Soil Mottling    | Other<br>(Structure, Stones, Boulder<br>Consistency, %Gravel) |
| 0-6                         | A                     | SL                               | 10 YE 3/3               |                  | marrire, Avable   |
| 6-16                        | В                     | SL                               | 25 42 5/B               |                  | friable   |
| 16-24                       | B/C                   | δl                               | \$ 224 614              |                  | forable   |
| 24-44                       | Cd                    | SL                               | 2.5 4 5 4               |                  | ledge @ 44"   |
|                             |                       |                                  |                         | •                | dense, grantly  |
|                             |                       |                                  |                         |                  |   |
|                             |                       |                                  |                         |                  |   |
| eiving Layers               |                       | 9                                | Design Class            |                  |   |
| ent Material (geologic      | +:11                  |                                  | Depth to Bedrock:       | 14 <sup>11</sup> |   |

#### FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

| Method Used:  | Test Hole Nu                                      | ımber /                                    | e-1                            | A   |                        |
|---|---|--|--------------------------------|---|------------------------|
| Depth observed standing in o                          | bservation hole                                   |  | inches                         |   |                        |
| Depth weeping standing in o                           | bservation hole                                   |  | inches                         |   |                        |
| Depth to soil mottles                                 |   | 24   | inches                         |   |                        |
| Ground water adjustment                               |   |  | feet                           |   |                        |
| Index Well Number Adjustment factor                   | Reading Date Adjusted grou                        |  |                                | Index well level  |                        |
| Depth of Naturally Occurr                             | ing Pervious                                      | Material                                   |                                |   |                        |
| Does at least four feet of sobserved throughout the a | naturally occu<br>rea proposed                    | arring perv                                | ious mi<br>il absor            | aterial exist in ption system?                          | all areas              |
| If not, what is the depth of                          | f naturally oc                                    | curring per                                | rviousı                        | material?   | _38"                   |
| Certification   |   |  |                                |   |                        |
| described in 310 CM                                   | e consistent v<br>R 15.017. I f<br>Thed Soil Eval | onduct soil<br>with the re<br>further cert | evaluat<br>quired<br>tify that | tions and that t<br>training, exper<br>t the results of | the shove analysis has |
| Signature   | Da  | ite  |                                |   |                        |
| NOTE: See accompanying o                              | over letter w                                     | hich is par                                | t of thi                       | s report.   |                        |

## FORM 11 - SOIL EVALUATOR FORM

PAGE 2

Job. # (6031

| Deep Hole Number  <br>Location (identify on s | ite plan) To fee       | to Site Pla            | Le Time 11:       | 00 mm Weather | Clar, 59°F   |
|---|------------------------|------------------------|-------------------|---------------|--|
| Land Use                                      | wand trees             | Slope (%)              | Surface Ston      | es None       |  |
| Landform Dru                                  | m lia                  |                        | · -               |               |  |
| Position on landscape ( Distances from:       | sketch on the back)    | refer to               | Site Plan (       | Hacked)       |  |
| Open Water Body                               |                        | Drainage way           | ≥ 00 feet         | <u></u>       |  |
| Possible Wet Area<br>Drinking Water Well      | >100 feet<br>>100 feet | Property Line<br>Other | 210 feet          |               |  |
|   | ]                      | DEEP OBSERVA           | ATION HOLE LO     | G             | ,  |
| Depth from Surface                            | Soil Horizon           | Soil Texture           | Soil Color        | Soil Mottling | Other  |
| (Inches)                                      |                        | (USDA)                 | (Munsell)         |               | (Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-9   | A                      | <u>5L</u>              | 104R313           |               | marrive, frakle  |
| 9-18-   | 12:                    |                        |                   |               | 1 1  |
| 9-16  | В                      | SC                     | 25 42518          |               | Sarsan   |
| 16-24   | BIC                    | <u>5</u> L             | 2 = 4 : 14        |               |  |
|   |                        | <u> </u>               | 25464             |               | frake  |
| 24-76   | Cd                     | SL.                    | 254514            |               | chandle dense  |
|   |                        |                        | , ,,,             |               | gracelly, dense  |
|   |                        |                        |                   | 6             |  |
|   |                        |                        |                   |               |  |
|   |                        |                        |                   |               |  |
|   | -                      |                        |                   |               |  |
|   |                        |                        |                   |               |  |
|   |                        | . 1                    |                   |               | · ·  |
| Donair in T                                   |                        |                        |                   |               |  |
| Receiving Layers                              | ادخا                   |                        | Design Class      | 11            |  |
| Parent Material (geologic)                    | <u> </u>               |                        | Depth to Bedrock: |               |  |
| Depth to Groundwater:                         | Standing Water         | in the Hole:           | Weeping from      | Pit Face:     |  |
|   | Estimated Seas         | sonal High Ground W    | /ater: 24'        |               |  |

# FORM 11 - SOIL EVALUATOR FORM

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Job# 16031

| Method Used:                                       | Test Hole Number   | 16-5A  |  |
|--|--|--|--|
| Depth observed standing in                         | observation hole   | inches   |  |
| Depth weeping standing in                          | observation hole   | inches   |  |
| Depth to soil mottles                              | _24  | inches   |  |
| Ground water adjustment                            |  | feet   |  |
| Index Well NumberAdjustment factor                 | Reading Date Adjusted ground water                                   | Index well level   |  |
| Depth of Naturally Occur                           | rring Pervious Materia   | 1  |  |
| Does at least four feet of observed throughout the | naturally occurring pearea proposed for the                          | ervious material exist in soil absorption system?  | mall areas                                     |
| If not, what is the depth                          | of naturally occurring   | pervious material?   |  |
| Certification                                      |  |  |  |
| been performed by a<br>described in 310 CM         | me consistent with the MR 15.017. I further cached Soil Evaluation I | the Department of Environment of Environment of Environment of the training, expertify that the results of Form, are accurate and the training of trai | the above analysis has<br>rtise and experience |
| Signature  | Date   |  |  |
| NOTE: See accompanying                             | cover letter which is p  | part of this report.   |  |

#### **FORM 11 - SOIL EVALUATOR FORM**

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Job.#

| Deep Hole Number<br>Location (identify on | 16-5B Date   | 10/5/16<br>attended site               | Time 11:10              | M Weather     | Clear, 590r   |
|---|--------------|--|-------------------------|---------------|---|
| Land Use We Vegetation                    | rdupod trees | Slope (%)                              | Surface Stone           | s None        |   |
| Position on landscape Distances from:     |              | see altimum                            | A STOR PIEM             |               |   |
|   |              | Drainage way<br>Property Line<br>Other | 7 los feet<br>210 feet  |               |   |
|   | I            | DEEP OBSERVA                           | ATION HOLE LO           | G             |   |
| Depth from Surface<br>(Inches)            | Soil Horizon | Soil Texture<br>(USDA)                 | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-6                                       | A            | SL                                     | 104E313                 |               | massive, frakte   |
| te-16                                     | в            | SL                                     | 1,5 4e 5/8              |               | fruit   |
| 16-22                                     | BC           | <u>5</u> L                             | 2.54 6/4                |               | forman  |
|   |              |  |                         |               |   |
|   |              |  |                         |               |   |
|   |              |  |                         |               |   |
|   |              |  |                         |               |   |
|   |              |  |                         |               |   |
| Receiving Layers                          |              |  | Design Class            |               |   |
| Parent Material (geolog                   | ic) †\/      |  | Depth to Bedrock:       | 72"           |   |
| Depth to Groundwater:                     | Standing Wat | er in the Hole;                        | Weeping fro             | m Pit Face:   |   |
|   | Estimated Se | easonal High Ground                    | Water;                  |               |   |

### FORM 11 - SOIL EVALUATOR FORM

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Job. # (603)

| Vegetation Landform                  | e (sketch on the back) | Slope (%)  Cefer to  Drainage way | Surface Ston            | es None       |   |
|--------------------------------------|------------------------|-----------------------------------|-------------------------|---------------|---|
| Possible Wet Are<br>Drinking Water W | a >100 feet            | Property Line<br>Other            | Flo feet                |               |   |
|                                      |                        | DEEP OBSERV                       | ATION HOLE LO           | G             | Ť   |
| Depth from Surface<br>(Inches)       | Soil Horizon           | Soil Texture<br>(USDA)            | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0 - 9                                | _ A                    | 56                                | 10 4e 3/3               |               | massive, frable   |
| 9 - 18                               | В                      | SL                                | 7.5 46578               |               | brusie  |
| 19 - 30                              | Q.i                    | 54                                | 25 4 6/3                |               | & fouble , some grave   |
| 30 - 84                              | C2                     | 31-                               | 2.54 5/4                |               | gravelly, dirise  |
|                                      |                        |                                   |                         |               |   |
|                                      |                        |                                   |                         |               |   |
|                                      |                        |                                   |                         |               |   |
| Receiving Layers                     |                        |                                   | Design Class            | I             |   |
| Parent Material (geologi             | o) till                |                                   | Depth to Bedrock:       |               |   |
| Depth to Groundwater:                | Standing Water         | r in the Hole:                    | Weeping from            | Pit Face:     |   |

#### FORM 11 - SOIL EVALUATOR FORM PAGE 3

Job# 16031

| Method Used:   | Test Hole Nu   | umber /     | /                | 5C                |                    |                       |
|--|--|-------------|------------------|-------------------|--------------------|-----------------------|
| Depth observed standing in o   | bservation hole  |             | inches           |                   |                    |                       |
| Depth weeping standing in of   | bservation hole  |             | inches           |                   |                    |                       |
| Depth to soil mottles  |  | 30"         | inches           |                   |                    |                       |
| Ground water adjustment  |  |             | feet             |                   |                    |                       |
| Index Well Number Adjustment factor  | Reading Date Adjusted grou   |             |                  | Index well level  | -                  |                       |
| Depth of Naturally Occurr  | ing Pervious   | Material    |                  |                   |                    |                       |
| Does at least four feet of robserved throughout the a  | rea proposed   | for the so  | il abso          | rption system?    | all areas          |                       |
| If not, what is the depth of   | naturally oc   | curring pe  | rvious           | material?         |                    |                       |
| <u>Certification</u>   |  |             |                  |                   |                    |                       |
| I certify that I am cupursuant to 310 CMR been performed by medescribed in 310 CMF indicated in the attack | consistent value Consis | with the re | evalua<br>quired | training, expends | the above and expe | alysis has<br>crience |
| Signature  | Da   | ite         |                  |                   |                    |                       |
| NOTE: See accompanying c   | over letter w  | hich is par | t of th:         | is report.        |                    |                       |

#### FORM 11 - SOIL EVALUATOR FORM

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Job. # (603)

| Vegetation Hat                 | (sketch on the back) | Slope (%)              | Surface Stone  Site Plan (a |               |   |
|--------------------------------|----------------------|------------------------|-----------------------------|---------------|---|
|                                | ]                    | DEEP OBSERVA           | ATION HOLE LO               | <del>G</del>  | 125   |
| Depth from Surface<br>(Inches) | Soil Harizon         | Soil Texture<br>(USDA) | Soil Color<br>(Munsell)     | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-9                            | A                    | SL                     | 104273                      |               | mossive, fins le  |
| 9-18                           | <u>B</u>             | SL                     | 7.5 92 518                  |               | frush   |
| 13- 32                         | BJC                  | SL                     | 25464                       |               | france.   |
| 32- 84                         | C                    | 51                     | 25 4 5/4                    |               | Growthy.  |
|                                |                      |                        |                             |               |   |
|                                |                      |                        |                             |               |   |
| oceiving Layers                |                      |                        | Design Class                | 芷             | -   |
| rent Material (geologic)       | +:11                 |                        | Depth to Bedrock:           |               |   |
| pth to Groundwater:            | Standing Wate        | r in the Hole:         | Weeping from                | Pit Face:     |   |

## FORM 11 - SOIL EVALUATOR FORM

Job# /603/

## **Determination for Seasonal High Water Table**

| Method Used:                        | Test Hole Number  | 16-5D  |                        |
|-------------------------------------|---|--|------------------------|
| Depth observed star                 | nding in observation hole   | inches   |                        |
| Depth weeping star                  | nding in observation hole   | inches   |                        |
| Depth to soil mottl                 | es <u>32</u>  | inches   |                        |
| Ground water adjust                 | ment  | feet   |                        |
| Index Well Number Adjustment factor | Reading Date Adjusted ground water  | Index well level                                     |                        |
| Depth of Naturally                  | Occurring Pervious Material   | <u> </u>   |                        |
| coserved throughou                  | eet of naturally occurring pe<br>t the area proposed for the  | soil absorption system?                              | all areas <u>Yes</u>   |
| If not, what is the d               | epth of naturally occurring   | pervious material?                                   | 2                      |
| Certification                       |   |  |                        |
| been performe<br>described in 3     | I am currently approved by to CMR 15.017 to conduct so d by me consistent with the 10 CMR 15.017. I further case attached Soil Evaluation Forough 15.107. | oll evaluations and that<br>required training, exper | the above analysis has |
| Signature                           | Date  |  |                        |
|                                     |   |  |                        |

NOTE: See accompanying cover letter which is part of this report.

### FORM 11 - SOIL EVALUATOR FORM

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Job. # (603)

| Vegetation Landform Position on landscape Distances from: | e (sketch on the back) | refer to                               | Surface Ste             |               | Clear, WO*C   |
|---|------------------------|--|-------------------------|---------------|---|
| Open Water Boo<br>Possible Wet Are<br>Drinking Water W    | a >100 feet            | Drainage way<br>Property Line<br>Other | 10 feet<br>feet         |               |   |
|   |                        | DEEP OBSERV                            | ATION HOLE L            | <b>DG</b>     | 160   |
| Depth from Surface<br>(Inches)                            | Soil Horizon           | Soil Texture<br>(USDA)                 | Soil Color<br>(Munsell) | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-7   | Α                      | PROTOE SL                              | 10 ye 3 3               |               | massive, france   |
| 7-12  | В                      | 52                                     | 2546518                 |               | frible  |
| 12-24   | BC                     | SL                                     | 25 4 6/4                |               | fruste  |
| 24-35   | Cd                     | SL                                     | 254 54                  |               | grandly, dense  |
|   |                        |  |                         |               |   |
|   |                        |  |                         |               |   |
| ceiving Layers  |                        |  | Design Class            |               |   |
| rent Material (geologi                                    | ic) <u> </u>           | -                                      | Depth to Bedrock:       | 35"           |   |
| oth to Groundwater:                                       | Standing Wat           | er in the Hole:                        | Weeping fr              | om Pit Face:  |   |
|   | Estimated Se           | easonal High Ground                    | Water: 24               |               |   |

## FORM 11 - SOIL EVALUATOR FORM

Job# /603/

# **Determination for Seasonal High Water Table**

| Method Used:                                       | Test Hole Number   | 16-5E  | _            |
|--|--|--|--------------|
| Depth observed standing                            | in observation hole  | inches   |              |
| Depth weeping standing                             | in observation hole  | inches   |              |
| Depth to soil mottles                              | _ 6  | inches   |              |
| Ground water adjustment                            |  | feet   |              |
| Index Well Number Adjustment factor                | Reading Date Adjusted ground water                                 | Index well level                                     |              |
| Depth of Naturally Occu                            | arring Pervious Mater  | ial  |              |
| Does at least four feet of observed throughout the | of naturally occurring<br>e area proposed for th                   | pervious material exist<br>ne soil absorption system | in all areas |
| If not, what is the depth                          | of naturally occurring   | g pervious material?                                 | 28"          |
| Certification                                      |  |  |              |
| been performed by<br>described in 310 C            | me consistent with the MR 15.017. I further tached Soil Evaluation | e required training, exp                             |              |
| Signature  | Date   |  |              |
|  |  | - · · · · · · · · · · · · · · · · · · ·              |              |

NOTE: See accompanying cover letter which is part of this report.

#### FORM 11 - SOIL EVALUATOR FORM

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Job. # (603)

| Vegetation Landform                  | n site plan) Received the same of the same | refer to                               | Surface Ston                   | 45 m Weather  | Clear, 6000   |
|--------------------------------------|--|--|--------------------------------|---------------|---|
| Possible Wet Are<br>Drinking Water V | a >100 feet  | Drainage way<br>Property Line<br>Other | lo feet                        |               |   |
|                                      | ]  | DEEP OBSERV                            | ATION HOLE LO                  | G             |   |
| Depth from Surface<br>(Inches)       | Soil Horizon   | Soil Texture<br>(USDA)                 | Soil Color<br>(Munsell)        | Soil Mottling | Other<br>(Structure, Stones, Boulders,<br>Consistency, %Gravel) |
| 0-8                                  | _A   | SL                                     | 10 4E 313                      |               | Massive from  |
| 8-16                                 | В  | SL                                     | 7542 518                       |               | frase   |
| 16-26                                | \$ (   | SL                                     | 2.5 4 6/4                      |               | france  |
| 26-72                                | Cd   | SL                                     | 2.5 Y 574                      |               | dense, growely  |
|                                      |  |  |                                |               |   |
|                                      |  |  |                                |               |   |
|                                      |  |  |                                |               |   |
| Receiving Layers                     | o  |  | Design Class Depth to Bedrock: | J.            |   |
| epth to Groundwater:                 | Standing Water   |  | Weeping from                   | Pit Face:     |   |
|                                      | Estimated Sea  | sonal High Ground V                    | Vater: du                      |               |   |

### FORM 11 - SOIL EVALUATOR FORM

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Job # 16031

| Method Used: Test Hole N   | umber 16 - 5F   |
|--|---|
| Depth observed standing in observation hole                                    | inches  |
| Depth weeping standing in observation hole                                     | inches  |
| Depth to soil mottles  |   |
| Ground water adjustment  | feet  |
| Index Well Number Reading Date Adjustment factor Adjusted gro                  |   |
| Depth of Naturally Occurring Pervious  | Material  |
| Does at least four feet of naturally occ observed throughout the area proposed | urring pervious material exist in all areas for the soil absorption system?  Jes  |
| If not, what is the depth of naturally oc                                      | ccurring pervious material?   |
| Certification  |   |
| been performed by me consistent described in 310 CMR 15.017. I                 | oved by the Department of Environmental Protection onduct soil evaluations and that the above analysis has with the required training, expertise and experience further certify that the results of my soil evaluation, as clustion Form, are accurate and in accordance with 310 |
| Signature D  | late  |
| NOTE: See accompanying cover letter w  | which is part of this report.   |

#### FORM 11 - SOIL EVALUATOR FORM

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Job. # (603)

| Vegetation -                                   | >100 feet<br>>100 feet<br>feet<br>feet | Drainage way<br>Property Line<br>Other | Surface Stone  Site Plan (a | Hacked)       |  |
|--|--|--|-----------------------------|---------------|--|
| Depth from Surface (Inches)                    | Soil Horizon                           | Soil Texture (USDA)                    | Soil Color<br>(Munsell)     | Soil Mottling | Other<br>(Structure, Stones, Boulders, |
| 0-8  | A                                      | SL                                     | 10 YE 3/3                   |               | Consistency, %Gravel)                  |
| 8-4  | В                                      | SL                                     | 25 42 5/8                   |               | france .                               |
| 14-26  | B)C                                    | 52                                     | 254 614                     |               | Granou                                 |
| 21-84  | Cd                                     | SL                                     | 2.5 4 5/4                   |               | dense, grounding                       |
|  |  |  |                             |               |  |
|  |  |  |                             |               |  |
| eceiving Layers                                |  |  | Design Class                | I             |  |
| rent Material (geologic<br>pth to Groundwater: |  | er in the Hole:                        | Depth to Bedrock:           | Pit Face:     |  |