





**STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH DIVISION  
SUBSURFACE INFORMATION**

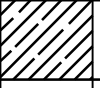
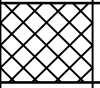

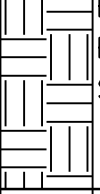
HOLE NO.: B-15  
SHEET 1 OF 1  
DATE STARTED: 4/28/00  
DATE COMPLETED: 5/1/00

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+172.30  
GROUND EL.: 138.742

PROJECT NUMBER: BRF 027-1(4)  
SITE NO.: VT 108  
OFFSET: 5.00  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: TALLMAN  
LOGGER: RUSSELL  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL  | CLASSIFICATION OF MATERIALS<br><i>(Description)</i>                                       | BLOWS<br>PER<br>0.3 m | M.C.<br>%               | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|---|---|-----------------------|-------------------------|-------------|-----------|------------|----|----|
|       |    | Visual Class.: A-4, SaSi<br>Trace of Organic,<br>brn, MTW, Rec. = 0.04m,<br>8.12% Organic | 4                     | 24.1                    |             |           |            |    |    |
|       |    | No Sample, Into Stone Fill  |                       |                         |             |           |            |    |    |
|       |   |   |                       | Top of bedrock @ 2.80 m |             |           |            |    |    |
|       |  | Run #1: BXMDC, 2.80m-4.32m,<br>Rec. = 1.52m,<br>See Geologist's Report.                   | RUN                   | REC%                    | RQD%        | Dip°      |            |    |    |
|       |   |   | 1                     | 100                     | 100         | 50        |            |    |    |
|       |  | Run #2: BXMDC, 4.32m-5.84m,<br>Rec. = 1.43m,<br>See Geologist's Report.                   | 2                     | 94                      | 94          | 50        |            |    |    |
| 5     |   |   |                       |                         |             |           |            |    |    |
|       |   | Hole stopped @ 5.84m  |                       |                         |             |           |            |    |    |
| 10    |   |   |                       |                         |             |           |            |    |    |

**GEOLOGISTS REPORT:**

Run #1: Gray quartz-albite-muscovite schist, Moderately hard,  
Unweathered, Competent.

Run #2: Same as Run #1, Competent

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH DIVISION  
SUBSURFACE INFORMATION**

HOLE NO.: B-18  
SHEET 1 OF 1  
DATE STARTED: 6/19/00  
DATE COMPLETED: 6/20/00

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+226.40  
GROUND EL.: 134.956

PROJECT NUMBER: BRF 027-1(4)  
SITE NO.: VT 108  
OFFSET: -5.00  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: RUSSELL  
LOGGER: DAVIS  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)                                       | BLOWS<br>PER<br>0.3 m | M.C.<br>%               | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|--------|--|-----------------------|-------------------------|-------------|-----------|------------|----|----|
|       |        | BXDC, 0.60m-1.45m, Boulders  |                       |                         |             |           |            |    |    |
|       |        | A-1-b, Sa, gry, MTW,<br>Rec. = 0.03m   | 8                     | 26.1                    | 19.8        | 76.2      | 4          |    |    |
|       |        | A-1-b, GrSa, brn-gry, Moist,<br>Rec. = 0.33m                                       | 10                    | 12.4                    | 43.9        | 47.8      | 8.3        |    |    |
| 5     |        | A-2-4, SiSa, gry, Moist,<br>Rec. = 0.07m   | 13                    | 18.1                    | 19.3        | 54.5      | 26.2       |    |    |
|       |        |  |                       | Top of bedrock @ 5.25 m |             |           |            |    |    |
|       |        | Run#1: BXMDC, 5.25m-6.77m,<br>Rec. = 1.46m,<br>See Geologist's Report.             | RUN                   | REC%                    | RQD%        | Dip°      |            |    |    |
|       |        |  | 1                     | 96                      | 96          | 60        |            |    |    |
|       |        | Run#2: BXMDC, 6.77m-8.29m,<br>Rec. = 1.49m,<br>See Geologist's Report.             | 2                     | 98                      | 98          | 60-80     |            |    |    |
|       |        | Hole stopped @ 8.29m   |                       |                         |             |           |            |    |    |
| 10    |        | Drillers Note:<br>On Run #1, lost core from barrel, went back down to retrieve it. |                       |                         |             |           |            |    |    |

**GEOLOGISTS REPORT:**

Run #1: Gray quartz-albite-muscovite schist, Competent,  
Core broken due to mechanical.

Run #2: Same as Run #1, Competent

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SUBSURFACE INFORMATION**







HOLE NO.: B-19  
SHEET 1 OF 1  
DATE STARTED: 6/12/00  
DATE COMPLETED: 6/13/00

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+227.90  
GROUND EL.: 134.983

PROJECT NUMBER: BRF 027-1(4)  
SITE NO.: VT 108  
OFFSET: 0.00  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: RUSSELL  
LOGGER: DAVIS  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL  | CLASSIFICATION OF MATERIALS<br>(Description)                           | BLOWS<br>PER<br>0.3 m | M.C.<br>%               | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|---|--|-----------------------|-------------------------|-------------|-----------|------------|----|----|
|       |    | No Rec.  | 8                     |                         |             |           |            |    |    |
|       |    | BXDC, 2.05m-2.36m, Boulder   |                       |                         |             |           |            |    |    |
|       |  | A-1-b, GrSa, gry, Moist,<br>Rec. = 0.07m                               | 14                    | 14.3                    | 31          | 57.6      | 11.4       |    |    |
|       |  | No Rec.  | 17                    |                         |             |           |            |    |    |
| 5     |   |  |                       | Top of bedrock @ 5.33 m |             |           |            |    |    |
|       |  | Run#1: BXMDC, 5.33m-6.85m,<br>Rec. = 1.52m,<br>See Geologist's Report. | RUN                   | REC%                    | RQD%        | Dip°      |            |    |    |
|       |   |  | 1                     | 100                     | 100         | 70        |            |    |    |
|       |  | Run#2: BXMDC, 6.85m-8.37m,<br>Rec. = 1.52m,<br>See Geologist's Report. | 2                     | 100                     | 100         | 70        |            |    |    |
|       |   | Hole stopped @ 8.37m   |                       |                         |             |           |            |    |    |
| 10    |   |  |                       |                         |             |           |            |    |    |

**GEOLOGISTS REPORT:**

Run #1: Silver/gray quartz-albite-muscovite schist with some biotite porphyblasts and quartz veins, Moderately hard, Unweathered, Competent.

Run #2: Same as Run #1, Competent

**STATE OF VERMONT  
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HOLE NO.: B-20  
SHEET 1 OF 1  
DATE STARTED: 6/8/00  
DATE COMPLETED: 6/9/00

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+230.80  
GROUND EL.: 134.832

PROJECT NUMBER: BRF 027-1(4)  
SITE NO.: VT 108  
OFFSET: 8.00  
G.W. DEPTH:

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: RUSSELL  
LOGGER: DAVIS  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)                            | BLOWS<br>PER<br>0.3 m | M.C.<br>%        | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|--------|---|-----------------------|------------------|-------------|-----------|------------|----|----|
|       |        | A-1-b, GrSa, brn, Moist,<br>Rec. = 0.29m                                | 8                     | 14.6             | 44.6        | 46.3      | 9.1        |    |    |
|       |        | A-1-a, SaGr, brn, Moist,<br>Rec. = 0.28m                                | 16                    | 15.4             | 49.7        | 41.4      | 8.9        |    |    |
| 5     |        | A-4, Si, gry, MTW,<br>Rec. = 0.33m                                      | 7                     | 30.9             | 1.8         | 5.9       | 92.3       |    |    |
|       |        | A-4, Si, gry, MTW,<br>Rec. = 0.21m                                      | 16                    | 26.3             | 4.7         | 8.4       | 86.9       |    |    |
|       |        | A-4, SiSa, gry, Moist,<br>Rec. = 0.03m                                  | 16                    | 19.6             | 12.9        | 45.1      | 42         |    |    |
|       |        |   |                       | Top of bedrock @ |             |           | 8.68 m     |    |    |
|       |        | Run#1: BXMDC, 8.68m-10.20m,<br>Rec. = 1.36m,<br>See Geologist's Report. | RUN                   | REC%             | RQD%        | Dip°      |            |    |    |
| 10    |        |   | 1                     | 89               | 89          | 70        |            |    |    |
|       |        | Run#2: BXMDC, 10.20-11.72m,<br>Rec. = 1.50m,<br>See Geologist's Report. | 2                     | 99               | 95          | 70        |            |    |    |
|       |        | Hole stopped @ 11.72m   |                       |                  |             |           |            |    |    |

**GEOLOGISTS REPORT:**

Run #1: Silver/gray quartz-albite-muscovite schist with some biotite porphyblasts and quartz veins, Moderately hard, Unweathered, Competent.

Run #2: Same as Run #1, Competent

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




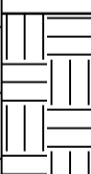

HOLE NO. : B-21  
SHEET 1 OF 1  
DATE STARTED: 6/1/00  
DATE COMPLETED: 6/2/00

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+248.20  
GROUND EL. : 138.535

PROJECT NUMBER: BRF 027-1(4)  
SITE NO. : VT 108  
OFFSET: -5.00  
G.W. DEPTH: 2.70

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: RUSSELL  
LOGGER: DAVIS  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL  | CLASSIFICATION OF MATERIALS<br>(Description)  | BLOWS<br>PER<br>0.3 m | M.C.<br>%                | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|---|---|-----------------------|--------------------------|-------------|-----------|------------|----|----|
|       |    | No Rec.   | 9                     |                          |             |           |            |    |    |
| ▽     |   | Water Table = 2.70m (6/02/00)   |                       |                          |             |           |            |    |    |
|       |  | A-2-4, GrSa, brn-gry, Moist,<br>Rec. = 0.30m  | 17                    | 18.6                     | 31.6        | 50.7      | 17.7       |    |    |
| 5     |  | A-1-a, SaGr, gry, Moist,<br>Rec. = 0.32m  | 14                    | 12.7                     | 55.8        | 33.5      | 10.7       |    |    |
|       |  | No Rec.   | 18                    |                          |             |           |            |    |    |
|       |  | A-4, Si, gry, MTW,<br>Rec. = 0.29m  | 8                     | 26.7                     | 9.4         | 4.9       | 85.7       |    |    |
|       |  | A-4, GrSi, gry, Moist,<br>Rec. = 0.16m  | 12                    | 18.9                     | 36.2        | 5.5       | 58.3       |    |    |
| 10    |  | Visual Class.: Broken Rock,<br>Rec. = 0.04m   | 30                    |                          |             |           |            |    |    |
|       |   |   |                       | Top of bedrock @ 11.90 m |             |           |            |    |    |
|       |  | Run#1: BXMDC, 11.90m-13.42m,<br>Rec. = 1.35m,<br>First 0.15m seamy<br>See Geologist's Report. | RUN                   | REC%                     | RQD%        | Dip°      |            |    |    |
|       |   |   | 1                     | 89                       | 89          | 40-60     |            |    |    |
|       |  | Run#2: BXMDC, 13.42m-14.94m,<br>Rec. = 1.50m,<br>See Geologist's Report.                      | 2                     | 99                       | 99          | 60-80     |            |    |    |
|       |   |   | Hole stopped @ 14.94m |                          |             |           |            |    |    |

**GEOLOGISTS REPORT:**

Run #1: Silver/gray quartz-albite-muscovite schist with some biotite porphyblasts and quartz veins, Moderately hard, Unweathered, Competent.

Run #2: Same as Run #1, Competent

|  |  |
|--|--|
| PROJECT NAME: CAMBRIDGE<br>SITE NAME: BR 21<br>STATION: 10+250.70<br>GROUND EL.: 140.531 | PROJECT NUMBER: BRF 027-1(4)<br>SITE NO.: VT 108<br>OFFSET: -1.00<br>G.W. DEPTH: |
|--|--|

|  |   |
|--|---|
| BORING CREW<br>CREW CHIEF: TALLMAN<br>DRILLER: RUSSELL<br>LOGGER: HOLT<br>ADDITIONAL CREW: | BORING RIG: SKID RIG<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL |
|--|---|

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS<br><i>(Description)</i>         | BLOWS<br>PER<br>0.3 m | M.C.<br>% | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|--------|---|-----------------------|-----------|-------------|-----------|------------|----|----|
|       |        |   |                       |           |             |           |            |    |    |
|       |        | No Sample,<br>Stone in end of sampler.                      | 6                     |           |             |           |            |    |    |
|       |        | A-3, Sa, brn, MTW,<br>Rec. = 0.15m                          | 6                     | 22.5      | 15          | 76        | 9          |    |    |
| 5     |        | A-2-4, GrSiSa, Lt/gry, MTW,<br>Rec. = 0.29m                 | 4                     | 22.4      | 26.8        | 39.6      | 33.6       |    |    |
|       |        | A-1-b, GrSa, yel-brn, Moist,<br>Rec. = 0.19m                | 23                    | 13.1      | 23.7        | 57.7      | 18.6       |    |    |
|       |        | A-1-b, Sa, Lt/gry, MTW,<br>Rec. = 0.07m                     | 13                    | 22.2      | 13.8        | 81.2      | 5          |    |    |
|       |        | A-4, Si, gry, MTW,<br>Rec. = 0.16m                          | 6                     | 32.2      | 1.8         | 2.8       | 95.4       |    |    |
| 10    |        | A-4, Si, gry, MTW,<br>Rec. = 0.42m                          | 8                     | 23.7      |             | 7.3       | 92.7       |    |    |
|       |        | A-4, GrSi, gry, Moist,<br>Rec. = 0.33m                      | 8                     | 19.6      | 20.9        | 12.5      | 66.6       |    |    |
|       |        | BXMDC, 13.40m-14.16m, Boulders<br>Advanced casing to 14.78m |                       |           |             |           |            |    |    |
|       |        | Top of bedrock @ 14.78 m                                    |                       |           |             |           |            |    |    |
|       |        | Bedrock continued on next page.                             |                       |           |             |           |            |    |    |

**GEOLOGISTS REPORT:**

|  |  |
|--|--|
| PROJECT NAME: CAMBRIDGE<br>SITE NAME: BR 21<br>STATION: 10+250.70<br>GROUND EL.: 140.531 | PROJECT NUMBER: BRF 027-1(4)<br>SITE NO.: VT 108<br>OFFSET: -1.00<br>G.W. DEPTH: |
|--|--|

|  |   |
|--|---|
| BORING CREW<br>CREW CHIEF: TALLMAN<br>DRILLER: RUSSELL<br>LOGGER: HOLT<br>ADDITIONAL CREW: | BORING RIG: SKID RIG<br>BORING TYPE: WASH BORE<br>SAMPLE TYPE: SPLIT BARREL |
|--|---|

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS<br><i>(Description)</i>  | BLOWS<br>PER<br>0.3 m | M.C.<br>% | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|--------|--|-----------------------|-----------|-------------|-----------|------------|----|----|
|       |        |  |                       |           |             |           |            |    |    |
|       |        | Continued from sheet 1<br>Run#1: BXMDC, 14.78m-16.30m,<br>Rec. = 1.37m,<br>See Geologist's Report. | RUN                   | REC%      | RQD%        | Dip°      |            |    |    |
|       |        | Run#1: BXMDC, 14.78m-16.30m,<br>Rec. = 1.37m,<br>See Geologist's Report.                           | 1                     | 90        | 90          | 60        |            |    |    |
|       |        | Run#2: BXMDC, 16.30m-17.82m,<br>Rec. = 1.32m,<br>See Geologist's Report.                           | 2                     | 87        | 87          | 60        |            |    |    |
|       |        | Hole stopped @ 17.82m  |                       |           |             |           |            |    |    |
| 20    |        |  |                       |           |             |           |            |    |    |
| 25    |        |  |                       |           |             |           |            |    |    |

**GEOLOGISTS REPORT:**

Run #1: Silver/gray quartz-albite-muscovite schist with numerous quartz veins, Moderately hard, Unweathered, Competent.

Run #2: Same as Run #1, but no quartz veins, Competent

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+257.00  
GROUND EL.: 138.766

PROJECT NUMBER: BRF 027-1(4)  
SITE NO.: VT 108  
OFFSET: 12.00  
G.W. DEPTH: 4.10

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: TALLMAN  
LOGGER: RUSSELL  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)                             | BLOWS<br>PER<br>0.3 m | M.C.<br>% | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|--------|--|-----------------------|-----------|-------------|-----------|------------|----|----|
|       |        |  |                       |           |             |           |            |    |    |
|       |        | A-3, Sa, brn, MTW,<br>Rec. = 0.13m                                       | 7                     | 27.7      | 0.8         | 91.6      | 7.6        |    |    |
|       |        | A-1-b, Sa, brn, Moist,<br>Rec. = 0.29m                                   | 8                     | 17.5      | 7.2         | 86.2      | 6.6        |    |    |
|       |        | BXDC, 3.81m-4.41m, Boulder   |                       |           |             |           |            |    |    |
|       |        | No Sample, Boulder   |                       |           |             |           |            |    |    |
|       |        | A-1-b, GrSa, Lt/gry, Moist,<br>Rec. = 0.33m                              | 29                    | 12.4      | 40.7        | 46        | 13.3       |    |    |
|       |        | A-4, Si, gry, MTW,<br>Rec. = 0.51m                                       | 4                     | 25.9      |             | 17.4      | 82.6       |    |    |
|       |        | A-4, Si, gry, MTW,<br>Rec. = 0.55m                                       | 4                     | 31.1      | 0.2         | 6.3       | 93.5       |    |    |
|       |        | A-4, Si, gry, MTW,<br>Rec. = 0.42m                                       | 6                     | 25.5      |             | 4.5       | 95.5       |    |    |
|       |        | A-4, Si, gry, MTW,<br>Rec. = 0.49m                                       | 6                     | 28.4      | 2.1         | 3.9       | 94         |    |    |
|       |        | Top of bedrock @ 13.26 m   |                       |           |             |           |            |    |    |
|       |        | Run#1: BXMDC, 13.26m-14.78m,<br>Rec. = 1.50m,<br>See Geologist's Report. | RUN                   | REC%      | RQD%        | Dip°      |            |    |    |
|       |        |  | 1                     | 99        | 86          | 60        |            |    |    |
|       |        | Run#2: Continued on next sheet.  | 2                     | 99        | 92          | 60        |            |    |    |

GEOLOGISTS REPORT:

PROJECT NAME: CAMBRIDGE  
SITE NAME: BR 21  
STATION: 10+257.00  
GROUND EL.: 138.766

PROJECT NUMBER: BRF 027-1(4)  
SITE NO.: VT 108  
OFFSET: 12.00  
G.W. DEPTH: 4.10

BORING CREW  
CREW CHIEF: TALLMAN  
DRILLER: TALLMAN  
LOGGER: RUSSELL  
ADDITIONAL CREW:

BORING RIG: SKID RIG  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL

| DEPTH | SYMBOL | CLASSIFICATION OF MATERIALS<br>(Description)                             | BLOWS<br>PER<br>0.3 m | M.C.<br>% | GRAVEL<br>% | SAND<br>% | FINES<br>% | LL | PI |
|-------|--------|--|-----------------------|-----------|-------------|-----------|------------|----|----|
|       |        | Continued from sheet 1   | RUN                   | REC%      | RQD%        | Dip°      |            |    |    |
|       |        | Run#2: BXMDC, 14.78m-16.30m,<br>Rec. = 1.50m,<br>See Geologist's Report. | 2                     | 99        | 92          | 60        |            |    |    |
|       |        | Hole stopped @ 16.30m  |                       |           |             |           |            |    |    |
|       |        | Note: Water table 4.10m  |                       |           |             |           |            |    |    |

GEOLOGISTS REPORT:

Run #1: Gray quartz-albite-muscovite schist with biotite porphyroblasts and quartz veins, Moderately hard, Unweathered, Competent.

Run #2: Same as Run #1, Competent



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
 SUBSURFACE INFORMATION

BORING NUMBER: B-301  
 SHEET 1 of 1  
 DATE STARTED: 9/18/07  
 DATE COMPLETED: 9/20/07

PROJECT NAME: CAMBRIDGE  
 SITE NAME: VT-108  
 STATION: 10+227  
 OFFSET: 2.00  
 VTSPG: N 238855.85 m E 473777.84 m

PROJECT NUMBER: BRF 027-1(4)  
 SITE NUMBER: BR-21  
 GROUND ELEVATION: 133.45 m  
 GROUNDWATER DEPTH:  
 PROJECT PIN NUMBER: 78F163

BORING CREW  
 CREW CHIEF: PORTER  
 DRILLER: PORTER  
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #09 w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CCB

| DEPTH (m) | SYMBOL | CLASSIFICATION OF MATERIALS (Description)   | BLOWS PER 300mm | M.C. (%) | GRAVEL (%) | SAND (%)  | FINES (%)             |
|-----------|--------|---|-----------------|----------|------------|-----------|-----------------------|
|           |        |   | RUN             | REC (%)  | RQD (%)    | Dip (deg) | Drill Rate (min/0.3m) |
| 0.5       |        | A-1-b, GrSa, brn, Wet, Rec. = 0.27 m  | 12              | 12.9     | 39.8       | 51.2      | 9.0                   |
| 1.0       |        | Field Class., Cobbles, Cored ahead NXDC   |                 |          |            |           |                       |
| 1.5       |        | A-3, Sa, brn, Wet, Rec. = 0.24 m  | 6               | 17.9     | 9.2        | 82.4      | 8.4                   |
| 2.0       |        |   |                 |          |            |           |                       |
| 3.0       |        | A-1-b, GrSa, brn, Wet, Rec. = 0.46 m  | 13              | 14.4     | 25.3       | 64.9      | 9.8                   |
| 3.5       |        |   |                 |          |            |           |                       |
| 4.0       |        | Top of Bedrock @ 4.18 m   |                 |          |            |           |                       |
| 4.5       |        | No recovery. Rock was all ground up., NXDC, 4.18 m - 4.78 m   | 1               |          |            |           | 8                     |
| 4.5       |        |   |                 |          |            |           | 9                     |
| 5.0       |        | Gray to silver-gray, Quartz-albite-muscovite schist, with quartz veins. Competent, Moderately hard, Unweathered, NXMDC, 4.78 m - 5.39 m, Rec. = 0.54 m      | 2               | 89       | 75         | 50        | 10                    |
| 5.0       |        |   |                 |          |            |           | 11                    |
| 5.5       |        | Gray to silver-gray, Quartz-albite-muscovite schist, with thin quartz veins. Competent, Moderately hard, Unweathered, NXMDC, 5.39 m - 6.61 m, Rec. = 1.22 m | 3               | 100      | 90         | 50        | 11                    |
| 5.5       |        |   |                 |          |            |           | 10                    |
| 6.0       |        |   |                 |          |            |           | 9                     |
| 6.0       |        |   |                 |          |            |           | 9                     |
| 6.5       |        | Gray to silver-gray, Quartz-albite-muscovite schist, with thin quartz veins. Competent, Moderately hard, Unweathered, NXMDC, 6.61 m - 7.83 m, Rec. = 1.22 m | 4               | 100      | 100        | 50        | 8                     |
| 6.5       |        |   |                 |          |            |           | 7                     |
| 7.0       |        |   |                 |          |            |           | 8                     |
| 7.0       |        |   |                 |          |            |           | 7                     |
| 7.5       |        |   |                 |          |            |           | 8                     |
| 7.5       |        |   |                 |          |            |           | 7                     |
| 8.0       |        | Hole stopped @ 7.83 m   |                 |          |            |           |                       |

LOG OF BORING CAMBRIDGE BRF 027-1(4).CPJ VT AOT.GDT 4/17/08



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH SECTION  
SUBSURFACE INFORMATION

BORING NUMBER: B-302  
SHEET 1 of 1  
DATE STARTED: 9/21/07  
DATE COMPLETED: 9/25/07

PROJECT NAME: CAMBRIDGE  
SITE NAME: VT-108  
STATION: 10+250  
OFFSET: 5.30  
VTSPG: N 238875.36 m E 473789.39 m

PROJECT NUMBER: BRF 027-1(4)  
SITE NUMBER: BR-21  
GROUND ELEVATION: 140.36 m  
GROUNDWATER DEPTH:  
PROJECT PIN NUMBER: 78F163

BORING CREW  
CREW CHIEF: PORTER  
DRILLER: PORTER  
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #09 w/AUTO HAMMER  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL  
CHECKED BY: CCB

| DEPTH (m) | SYMBOL | CLASSIFICATION OF MATERIALS (Description)  | BLOWS PER 300mm | M.C. (%) | GRAVEL (%) | SAND (%)  | FINES (%)             |
|-----------|--------|--|-----------------|----------|------------|-----------|-----------------------|
|           |        |  | RUN             | REC (%)  | RQD (%)    | Dip (deg) | Drill Rate (min/0.3m) |
|           |        | Field Note, Asphalt pavement from 0.0m-0.15m   |                 |          |            |           |                       |
|           |        | A-1-b, SaGr, brn, Moist, Rec. = 0.39 m   | 18              | 7.5      | 48.7       | 33.7      | 17.6                  |
| 2         |        | A-1-b, SaGr, brn, Wet, Rec. = 0.27 m   | 21              | 13.8     | 46.9       | 37.0      | 16.1                  |
| 4         |        | A-4, SiSa, brn, Wet, Rec. = 0.36 m   | 14              | 25.8     | 10.0       | 47.2      | 42.8                  |
|           |        | A-2-4, Sa, brn, Wet, Rec. = 0.36 m   | 8               | 21.8     | 3.0        | 77.8      | 19.2                  |
| 6         |        | A-1-b, SaGr, brn, Wet, Rec. = 0.42 m   | 42              | 13.9     | 48.3       | 41.0      | 10.7                  |
| 8         |        | Field Note, NXDC, Cobbles, Cleaned out casing.   |                 |          |            |           |                       |
| 10        |        | A-4, Si, gry, MTW, Rec. = 0.30 m   | 7               | 25.0     | 0.0        | 18.4      | 81.6                  |
|           |        | A-4, Si, gry, MTW, Rec. = 0.52 m   | 3               | 28.7     | 0.0        | 16.3      | 83.7                  |
| 12        |        | A-4, Si, gry, Moist, Rec. = 0.30 m   | 17              | 22.1     | 17.4       | 9.3       | 73.3                  |
| 14        |        | A-4, Si, gry, MTW, Rec. = 0.52 m   | 9               | 29.9     | 0.4        | 2.5       | 97.1                  |
|           |        | A-2-4, SaSiGr, gry/grn, Moist, Rec. = 0.24 m   | 45              | 10.3     | 50.7       | 20.3      | 29.0                  |
| 16        |        | Dark gray, Amphibolite, Possible Boulder., Hard, Unweathered, NXMDC, 15.84 m - 16.00 m, Rec. = 1.31 m  | 1               | 86       | 54         | 50        | 5                     |
|           |        | Gray, Quartz-albite-muscovite schist, Competent below 16.52m. Lost drilling water at 16.2m. Drilling break from 16.48m-16.52m, Moderately hard, Unweathered, 16.00 m - 17.37 m |                 |          |            |           | 6                     |
| 18        |        | Gray, Quartz-albite-muscovite schist, Competent, Moderately hard, Unweathered, NXMDC, 17.37 m - 18.89 m, Rec. = 1.45 m   | 2               | 95       | 89         | 50        | 10                    |
|           |        | Hole stopped @ 18.89 m   |                 |          |            |           | 12                    |
|           |        |  |                 |          |            |           | 7                     |
|           |        |  |                 |          |            |           | 10                    |
|           |        |  |                 |          |            |           | 10                    |
|           |        |  |                 |          |            |           | 9                     |
|           |        |  |                 |          |            |           | 9                     |

LOG OF BORING CAMBRIDGE BRF 027-1(4).CPJ VT AOT.GDT 4/17/08

Top of Bedrock @ 15.84 m