

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG**

Page 1 of 1  
Date 8/30/04

ROUTE IL 178 Realignment DESCRIPTION Clark Run LOGGED BY Larry Meyers

SECTION \_\_\_\_\_ LOCATION SEC. 8, TWP. 33N, RNG. 2, 3rd PM

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 050-7201  
Station \_\_\_\_\_

BORING NO. 1 East Abutment  
Station 14+87.88  
Offset 4.37ft Lt  
Ground Surface Elev. 483.07 ft (R) (6") (tsf) (%)

| SOIL DESCRIPTION  | DEPTH (ft) | BLOWS | UNIT WEIGHT (pcf) | WATER CONTENT (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | SOIL CLASSIFICATION |
|---|------------|-------|-------------------|-------------------|------------------|----------------------|---------------------|
| Augured Black Sandy Loam with Gravel Pieces.  | 0          |       |                   |                   |                  |                      |                     |
| 480.57  |            |       |                   |                   |                  |                      |                     |
| Very Soft Brown/Black Sandy Loam, Sand, Silt Layers (Alluvial Deposits) with 3" Coal Seam at 7.5' | 1          | 29.5  |                   |                   |                  |                      |                     |
| 479.07  |            |       |                   |                   |                  |                      |                     |
| Medium White/Brown Fine Sand/Coarse Gravel with Loamy Layers.                                     | 4          | 8.7   |                   |                   |                  |                      |                     |
| 476.07  |            |       |                   |                   |                  |                      |                     |
| Loose White/Brown Fine Sand/Coarse Gravel (Limestone Pieces) with Loamy Layers.                   | 3          | 10.5  |                   |                   |                  |                      |                     |
| 473.57  |            |       |                   |                   |                  |                      |                     |
| Medium White/Brown Fine Sand/Coarse Gravel (Limestone Pieces), Slightly Loamy in Areas.           | 7          | 11.1  |                   |                   |                  |                      |                     |
| 470.57  |            |       |                   |                   |                  |                      |                     |
| Weathered Limestone   |            |       |                   |                   |                  |                      |                     |
| 469.07  |            |       |                   |                   |                  |                      |                     |
| Borehole continued with rock coring.  | -16        |       |                   |                   |                  |                      |                     |
|   | -20        |       |                   |                   |                  |                      |                     |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

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Date 8/30/04

ROUTE IL 178 Realignment DESCRIPTION Clark Run LOGGED BY Larry Meyers

SECTION \_\_\_\_\_ LOCATION SEC. 8, TWP. 33N, RNG. 2, 3rd PM

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 050-7201  
Station \_\_\_\_\_

BORING NO. 2 West Abutment  
Station 14+38.28  
Offset \_\_\_\_\_  
Ground Surface Elev. 482.56 ft (R) (6") (tsf) (%)

| SOIL DESCRIPTION   | DEPTH (ft) | BLOWS | UNIT WEIGHT (pcf) | WATER CONTENT (%) | LIQUID LIMIT (%) | PLASTICITY INDEX (%) | SOIL CLASSIFICATION |
|--|------------|-------|-------------------|-------------------|------------------|----------------------|---------------------|
| Augured Brown Sandy Loam and Large Gravel (Fill).  | 0          |       |                   |                   |                  |                      |                     |
| 480.06   |            |       |                   |                   |                  |                      |                     |
| Brown Sandy Loam and Large Gravel Pieces (Fill) up to Cobble Size.                       | 4          | 8.3   |                   |                   |                  |                      |                     |
| 478.06   |            |       |                   |                   |                  |                      |                     |
| Medium Brown Fine Sand/Coarse Gravel.  | 1          | 15.2  |                   |                   |                  |                      |                     |
| 475.56   |            |       |                   |                   |                  |                      |                     |
| Medium Brown/Gray Fine/Coarse Sand with Limestone Pieces and Silt. Top of rock at 13.5'. | 8          | 15.3  |                   |                   |                  |                      |                     |
| 473.56   |            |       |                   |                   |                  |                      |                     |
|  | 6          | 13.8  |                   |                   |                  |                      |                     |
|  | 6          |       |                   |                   |                  |                      |                     |
|  | 1          | 9.9   |                   |                   |                  |                      |                     |
| 469.06   |            |       |                   |                   |                  |                      |                     |
| Borehole continued with rock coring.   | -16        |       |                   |                   |                  |                      |                     |
|  | -20        |       |                   |                   |                  |                      |                     |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

|                    |
|--------------------|
| DESIGNED -         |
| CHECKED -          |
| DRAWN <u>MV</u>    |
| CHECKED <u>JKC</u> |

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

|                           |                     |                           |                    |                     |                  |
|---------------------------|---------------------|---------------------------|--------------------|---------------------|------------------|
| SHEET NO. 16<br>17 SHEETS | F.A.S. RTE.<br>1279 | SECTION<br>6R, B          | COUNTY<br>LA SALLE | TOTAL SHEETS<br>190 | SHEET NO.<br>138 |
|                           | SN 050-7201         |                           | CONTRACT NO. 66547 |                     |                  |
| FED. ROAD DIST. NO        |                     | ILLINOIS FED. AID PROJECT |                    |                     |                  |

**SOIL BORINGS**  
**STRUCTURE NO. 050-7201**