STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| Division of H SCI Engineer | Highwayu effig, Inc. SOIL BORING LOU U.S. 51 over North Fork Kaskaskia River - Bric | Date10/14, 15/2008 | Division of SCI Engine | Highways sering, Inc. SOIL BORING LOO U.S. 51 over North Fork Kaskaskia River - Brid | Date10/14, 15/2008 | | of Highways neering, Inc. SOIL BORING L U.S. 51 over North Fork Kaskaskia River | Date 10/0 |
|---|--|---------------------------------------|---|--|---------------------------------------|--|---|--|
| | DESCRIPTION Replacement | LOGGED BY SCI | | DESCRIPTION Replacement | LOGGED BY SCI | ROUTE FAP 322 | DESCRIPTION Replacement | LOGGED BY S |
| TON 25BR-1 NTY Marion DRILLI | LOCATION Approx. 1.5 miles south of Vernon: NW 1/4 ING METHOD CME 750 w/HSA HAMMER | | SECTION 25BR-1 COUNTY Marion DRILI | LING METHOD CME 750 w/HSA HAMMER | | SECTION25BR-1 COUNTY Marion DRI | LOCATION Approx. 1.5 miles south of Vernon; N | ME 1/4. SEC. 21. TWP. 4N, HNG MMER TYPE Automatic |
| CT. NO061-0002 (existing) | D B U M Surface Water Elev. 469. | 8 ft D B U M 8 ft E L C O | STRUCT. NO061-0002 (existing) | D B U M Surface Water Elev. 469.1 E L C O Stream Red Elev. 466.5 | | STRUCT. NO. 061-0002 (existing) | D B U M Surface Water Elev | 469.8 ft D B U 466.8 ft E L C |
| n 687+87 G NO B-3 | E L C O Stream Bed Elev. 466. P O S I T W S Groundwater Elev.: 66. | P O S I T W S | Station 687+87 BORING NO. B-3 | P O S I T W S Groundwater Elev.: | T W S | Station 687+87 BORING NO. B-4 | POSI TWSGroundwater Elev.: | T W |
| n <u>688+48</u> 36 ft Lt | H S Qu T First Encounter 459. | 9_ft¥_H S Qu T 9_ft♀_(a) (##10_(a) | Station 688+48 Offset 36 /t Lt | H S Qu T First Encounter 459.5 Upon Completion 468.5 | htty H S Qu T hty (m) (cm h-f) (c) | Station 689+03 Offset 16 ft Rt | H S Qu T First Encounter | <u>452.6</u> ft ¥ H S Qu <u>468.1</u> ft ⊻ (A) (1070) (458) |
| d Surface Elev. 475.9 f rown, low plastic silty clay, and and Concrete rubble | ft (ft) (/6") (tsf) (%) After16Hrs459. | <u>9</u> ft 文 (ft) (/6") (tsf) (%) | Ground Surface Elev. 475.9 CLAY: Grayish brown, high plastic, some sand, trace fine | tt (ft) (/6") (tsf) (%) After 16 Hrs. 459.5 - CLAY: Grayish brown and brown, high plastic, trace fine gravel | t 😨 (ft) (/6") (tsf) (%) | Ground Surface Elev. 481.1 ASPHALT - 8 inches | | <u>, ft</u> (ft) (/6") (tsf) |
| | (A-7) (continued) Sample interval from 21 to 22.5 | | gravel (A-7) (continued) | (A-7) (continued) | | CRUSHED ROCK - 6 inches FILL: Gravish brown low plastic | 479.9 5 2 0.9 26 Place, (act said (A-7) (continued) Becomes gray | WH 20.8 |
| recovery472 | 7 Teet inadvertantly augered | | | 9 | | silty clay, trace organics (A-7) | 2 B | 2 B |
| CLAY: Brown and grayish w plastic | 4 medium, trace fine gravel (A-2) | | SILT: Grayish brown, low plastic | 32.4 19 3.8 14 29 B B Becomes brown and grades to | 3 1.7 35 4 B | | WH Some sand (A-6) | WH |
| | 5 0.8 18 -5 5 S/10 | 3 - 16 | (A-4) | trace sand | -65 | | | 1 0.9 -25 3 B |
| | Sample Interval from 26 to 27.5 | | CLAY: Brown, high plastic, some | 29.9 | | SILTY CLAY: Gravish brown, low plastic (A-6) | 475. <u>s</u> | |
| | ↓ 1 0.4 1 1eet could not be sampled due to 2 teet of sand blowin. ↓ B SAND: Grayish brown, fine to | 2 448.9 | sand, trace tine gravel, organics (A-7) | and the local | 408,4 | (A-6) | 2 0.3 26 2 P CLAYEY SAND: Gray, fine (A-2) | 454.3 4 10 |
| | coarse, some clay, trace to some fine gravel | | | 7 SANDSTONE: Gray | 24 100 0.6 20 | | SAND: Grayish brown, fine t | to 453.1 |
| | WH <0.25 24 (A-1) WH <0.25 24 Mud rotary drilling started at 28.5 after sample obtained at 28.5 | 8 15 - 11 | | 15 B | <u>S/5</u> | | WH <0.25 25 (A-1) | 7. |
| | feet. | | | Dark brown peat/organic deposit observed in sample | -70 - 15 | | Mud rotary drilling started | -30 8 -30 8 -30 8 |
| | WH 2 0.5 20 CLAY: Grayish brown, high plastic, some sand, trace fine | | | | | | 1 feet. | |
| | 2 P (A-7) | 2 6 2.1 14 7 B | 4 | 22.7. 7 2.4 24 Boring terminated at 72.6 ft. | 403.4 100 - 17 | SANDY CLAY: Gray and brown, | 2 B Fine gravel observed in washed cuttings retained in kitchen sieve from about 30 t | to 33 |
| mes gray and trace | 2 0.5 29 | | CLAY: Grayish brown and brown, high plastic, trace fine gravel (A-7) | 9 B | | low plastic (A-6) | | 17 0.8 |
| | -15 2 B | -35 | (~~) | | | | 2 0.5 18 SANDY SILT: Gravish brown -15 2 B plastic (A-4) | /n, low 28 |
| Gray, high plastic, some | YVEI | | | | | Sand content increases and | WH | |
| er measured in hollow stem on 10/15 prior to resuming | WH 0.5 25 WH B | | | | | grades to trace fine gravel | 2 - 17 3 CLAY: Grayish brown, high plastic, trace to some sand, t | |
| | | | Grades to some sand | | | | fine gravel (A-7) | |
| | WH 0.8 24 -20 2 B | 8 3.9 14 .40 11 B | | -60 | -80 | | 461.6 1 0.5 20 -20 2 S/15 | 7 2.6 -40 11 B |
| | | | | | | | | |

| W.J.S. |
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| C.J.F. & B.B. |
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SHEET NO.2 23 SHEETS

| Illinois Depa of Transpor | and a second | | | SC | IL BORING LOG | | | | |
|--|------------------|------------------|-------------|------------------|--|------------------|------------------|-------------|---------|
| ROUTEFAP 322 DES | SCRI | PTIO | U.S | . 51 0\ | er North Fork Kaskaskia River - Bridge Replacement | ogg | | 10// | |
| ECTION25BR-1 | L | OCAT | | Appro | c. 1.5 miles south of Vernon; NE 1/4, SEC. 2 | 21, TI | NP. 41 | N, RNC | i. 1E |
| OUNTY Marion DRILLING | ME | тнор | | C | ME 750 w/HSA HAMMER TYPE | | Auto | matic | |
| STRUCT. NO. 061-0002 (existing) Station 687+87 | D E P T | B L O W | U C S | M O I S | Surface Water Elev. 469.8 ft Stream Bed Elev. 466.8 ft Groundwater Elev.: | D E P T | B L O W | U C S | M 0 - 5 |
| B-4 Station 689+03 Offset 16 ft Rt | Ĥ. | s | Qu | Ť | Groundwater Elev.: First Encounter <u>452.6</u> ft ₹ Upon Completion <u>468.1</u> ft ₹ | Ĥ | s | Qu | Ť |
| Offset <u>16 ft Rt</u> Ground Surface Elev. <u>481.1</u> ft | (ft) | (/6'') | (tsf) | (%) | Upon Completion 468.1 ft ⊻ After Hrs. ft | (ft) | (/6'') | (tsf) | (%) |
| CLAY: Grayish brown, high blastic, trace to some sand, trace ine gravel | | | | | CLAY: Gray and brown, high plastic (A-7) (continued) | | | | |
| A-7) (continued) | | | | | SANDY CLAY: Gray, low plastic (A-6) | | | | |
| | | 3 | | | | - | 5 | | |
| | -45 | 6 7 | 1.9 B | 16 | | -65 | 8 | 4.3 B | 16 |
| | _ | | | | | | | | |
| | ***** | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Grades to trace sand | | 4 | 2.2 | 17 | 411.8 | | 4 9 | 1.8 | 15 |
| | -50 | 8 | в | | SANDSTONE: Gray 411.8 | -70 | · | S/10 | |
| | | | | | | | | | |
| Wood observed in washed uttings retained in kitchen sieve rom about 50 to 53.5 feet. | | | | | Becomes dark gray and brown | | 100 | 4.5 P | 11 |
| | | | | | - | | | | |
| Grades to some sand | - | 4 | | | Becomes dark gray | - | 100 | | 17 |
| | - | 6 9 | 2.3 B | 18 | | | | | |
| | -55 | | - | | | | | | |
| 424.6 | | | | | Becomes gray 404.8 | | , 100 | | 17 |
| CLAY: Gray and brown, high elastic A-7) | | | | | Boring terminated at 76.3 ft. | | | | |
| | _ | | | | | | | | |
| | -60 | 5 9 10 | 2.6 B | 18 | | | | | |

<u>SOIL_BORINGS-2</u> <u>STRUCTURE_NUMBER_061-0094</u>

| 23 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
|----|----------------|---------------------------------|----------------|-----------------|--------------|--|
| 20 | 322 | 25BR-1 | MARION | 63 | 46 | |
| \$ | | SN 061-0094 | CONTRACT | NO. 76 | A83 | |
| | FED. RC | DAD DIST. NO. 8 ILLINOIS FED. A | ID PROJECT 322 | | | |