

| | | | | |
|--|--|--|---|---|
| DRILLING LOG | | DIVISION South Atlantic | INSTALLATION Jacksonville District | SHEET 1 OF 12 SHEETS |
| 1. PROJECT C&SF US DOI Modified Waters to ENP 8.5 Square Mile Area | | | 9. SIZE AND TYPE OF BIT See Remarks | |
| 2. BORING DESIGNATION CP02-85SMA-CB-0097 | | LOCATION COORDINATES X = 804,772 Y = 463,987 | | 10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) |
| 3. DRILLING AGENCY Law Engineering, Inc. | | CONTRACTOR FILE NO. 40521-1-8482-13 | | 11. MANUFACTURER'S DESIGNATION OF DRILL CME-75 |
| 4. NAME OF DRILLER David Kirby | | | 12. TOTAL SAMPLES 100 | |
| 5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED | | DEG. FROM VERTICAL | BEARING | 13. TOTAL NUMBER CORE BOXES 10 |
| 6. THICKNESS OF OVERBURDEN N/A | | | 14. ELEVATION GROUND WATER 5.4 Ft. | |
| 7. DEPTH DRILLED INTO ROCK N/A | | | 15. DATE BORING STARTED 10-10-02 COMPLETED 10-16-02 | |
| 8. TOTAL DEPTH OF BORING 200.0 Ft. | | | 16. ELEVATION TOP OF BORING 6.9 Ft. | |
| | | | 17. TOTAL RECOVERY FOR BORING 89 % | |
| | | | 18. SIGNATURE AND TITLE OF INSPECTOR Jeremy Bernauer, Geotechnical Engineer | |

| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/0.5 FT. | N-VALUE |
|-------|-------|--------|---|--------|---------------|--------------|--|---------------|---------|
| 6.9 | 0.0 | | | | | | 6.9 | | |
| | | | SAND, poorly-graded with silt, mostly subrounded fine-grained quartz, few silt, weak reaction with HCl, dry, with thin limestone seams, tan-brown (SP-SM) | 100 | 1 | | SPT Sampler | 6 8 8 | 16 |
| 5.4 | 1.5 | | LIMESTONE, 0, hard, slightly weathered, fine-grained, pitted, tan | 100 | | RQD 60 | 4 x 5-1/2" Diamond Set Bit DT = 12 mins HP = 200 psi | | |
| | | | At El. 0.4 Ft., 0, moderately weathered, porous, black and tan | | | BOX 2 | 0.4 | | |
| | | | | 100 | | RQD 90 | 4 x 5-1/2" Diamond Set Bit DT = 6 mins HP = 200 psi | | |
| | | | At El. -4.6 Ft., 0, slightly weathered, silty sand-filled cavities | | | | -4.6 | | |
| | | | | 70 | | BOX RQD 3 50 | 4 x 5-1/2" Diamond Set Bit DT = 12 mins HP = 200 psi | | |

| DRILLING LOG (Cont. Sheet) | | INSTALLATION | | | SHEET 2 | | | | | | |
|------------------------------------|-------|-----------------------------|--|------------|---------------------------|-----------|--|---------------|---|--|--|
| PROJECT | | COORDINATE SYSTEM/DATUM | | HORIZONTAL | VERTICAL | | | | | | |
| C&SF US DOI Modified Waters to ENP | | State Plane, FLE (U.S. Ft.) | | NAD83 | NAVD88 | | | | | | |
| LOCATION COORDINATES | | ELEVATION TOP OF BORING | | | | | | | | | |
| X = 804,772 Y = 463,987 | | 6.9 Ft. | | | | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/0.5 FT. | N-VALUE | | |
| | | Slightly Weathered | At El. -9.6 Ft., 0, fossiliferous, tan | 70 | | RQD 50 | 4 x 5-1/2" Diamond Set Bit DT = 12 mins HP = 200 psi | | | | |
| | | | | | | | | -9.6 | | | |
| | | | | | | 60 | BOX 3 | RQD 30 | 4 x 5-1/2" Diamond Set Bit DT = 9 mins HP = 200 psi | | |
| | | | | | | | | | | | |
| | | | | | At El. -14.6 Ft., 0, gray | | | | | | |
| | | | | | | | | | -14.6 | | |
| | | | At El. -16.1 Ft., 0, tan | | | | | | | | |
| | | | | 100 | | RQD 60 | 4 x 5-1/2" Diamond Set Bit DT = 14 mins HP = 200 psi | | | | |
| | | | | | | | | | | | |
| | | | | | BOX 4 | | | | | | |
| | | | | | | | -19.6 | | | | |
| | | | | 100 | | RQD 80 | 4 x 5-1/2" Diamond Set Bit DT = 13 mins HP = 200 psi | | | | |
| | | | | | | | | | | | |
| | | | | | | | -24.6 | | | | |
| | | | | 95 | BOX 5 | RQD 70 | 4 x 5-1/2" Diamond Set Bit DT = 6 mins HP = 200 psi | | | | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 3 OF 12 SHEETS | | | | |
|---|-------|--------------------|---|--------|---------------------|-------------------------|--|---|---------|----|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE | |
| | | Slightly Weathered | | 95 | | RQD 70 | 4 x 5-1/2" Diamond Set Bit DT = 6 mins HP = 200 psi -29.6 | | 35 | |
| | | | At El. -29.6 Ft., 0, very hard | | 100 | BOX 5 | RQD 70 | 4 x 5-1/2" Diamond Set Bit DT = 9 mins HP = 200 psi -34.6 | | 40 |
| | | | At El. -34.6 Ft., 0, hard, vuggy | | 50 | | RQD 0 | 4 x 5-1/2" Diamond Set Bit DT = 12 mins HP = 200 psi -39.6 | | 45 |
| | | | | | | BOX 6 | | | | |
| | | | | | | | RQD 0 | 4 x 5-1/2" Diamond Set Bit DT = 1 min HP = 200 psi -44.6 | | 50 |
| -40.6 | 47.5 | | SAND, poorly-graded with silt, mostly subrounded fine-grained quartz, few silt, weak reaction with HCl, moist, gray (SP-SM) | 0 | | RQD 0 | | | | |
| | | | | 80 | 2 | | SPT Sampler -46.1 | 5 9 12 | 21 | |
| | | | | 80 | 3 | | SPT Sampler -47.6 | 4 7 7 | 14 | |
| | | | | 100 | 4 | | SPT Sampler | 7 | | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 4 OF 12 SHEETS | | | |
|---|-------|--------|--|--------|---------------------|-------------------------|-------------|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| | | | | 100 | 4 | | SPT Sampler | 11 | 24 |
| | | | | | | | -49.1 | 13 | |
| | | | | 100 | 5 | | SPT Sampler | 10 | 37 |
| | | | | | | | -50.6 | 16 | |
| | | | | | | | | 21 | |
| | | | | 40 | 6 | | SPT Sampler | 4 | 13 |
| | | | | | | | -52.1 | 5 | |
| | | | | | | | | 8 | |
| | | | | 100 | 7 | | SPT Sampler | 6 | 19 |
| | | | | | | | -53.6 | 7 | 60 |
| | | | | | | | | 12 | |
| | | | | 100 | 8 | | SPT Sampler | 10 | 30 |
| | | | | | | | -55.1 | 15 | |
| | | | | | | | | 15 | |
| | | | | 100 | 9 | | SPT Sampler | 4 | 18 |
| | | | | | | | -56.6 | 9 | |
| | | | | | | | | 9 | |
| | | | | 100 | 10 | | SPT Sampler | 7 | 26 |
| | | | | | | | -58.1 | 11 | |
| | | | | | | | | 15 | |
| | | | | 100 | 11 | | SPT Sampler | 8 | 65 |
| | | | | | | | -59.6 | 14 | |
| | | | | | | | | 16 | |
| | | | | 100 | 12 | | SPT Sampler | 3 | 9 |
| | | | | | | | -61.1 | 5 | |
| | | | | | | | | 4 | |
| -61.1 | 68.0 | | SAND, silty, mostly subrounded fine-grained quartz, little silt, few shell, weak reaction with HCl, moist, gray (SM) | 100 | 13 | | SPT Sampler | 4 | 18 |
| | | | At El. -62.6 Ft., little shell | | | | -62.6 | 6 | |
| | | | | | | | | 12 | |
| | | | | 100 | 14 | | SPT Sampler | 8 | 70 |
| | | | | | | | -64.1 | 12 | 29 |
| | | | | | | | | 17 | |
| | | | | 90 | 15 | | SPT Sampler | 5 | 15 |
| | | | | | | | -65.6 | 6 | |
| | | | | | | | | 9 | |
| | | | | 100 | 16 | | SPT Sampler | 4 | 31 |
| | | | At El. -67.1 Ft., trace shell | | | | -67.1 | 11 | |
| | | | | | | | | 20 | |
| | | | | 100 | 17 | | SPT Sampler | 25 | |
| | | | | | | | | 28 | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 5 OF 12 SHEETS | | | |
|---|-------|--------|--|--------|---------------------|-------------------------|-------------------|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| | | | At El. -68.6 Ft., little shell | 100 | 17 | | -68.6 SPT Sampler | 33 | 61 |
| | | | | 100 | 18 | | SPT Sampler | 6 7 | 11 |
| | | | At El. -70.1 Ft., few shell, few clay | | | | -70.1 | 4 | |
| | | | | 100 | 19 | | SPT Sampler | 5 5 | 12 |
| | | | | | | | -71.6 | 7 | |
| | | | | 100 | 20 | | SPT Sampler | WOH 1 | 9 |
| -73.1 | 80.0 | | | | | | -73.1 | 8 | |
| | | | SAND, clayey, mostly subrounded fine-grained quartz, little clay, few silt, trace shell, weak reaction with HCl, moist, gray-green (SC) | 100 | 21 | | SPT Sampler | WOH WOH | 0 |
| | | | | 100 | 22 | | SPT Sampler | 5 5 | 15 |
| -76.1 | 83.0 | | | | | | -76.1 | 10 | |
| | | | CLAY, lean, low plasticity, firm, little fine-grained quartz, trace shell, no reaction with HCl, moist, gray-green (CL) | 100 | 23 | | SPT Sampler | 4 10 | 21 |
| -77.6 | 84.5 | | | | | | -77.6 | 11 | |
| | | | SAND, silty, mostly subrounded fine-grained quartz, little silt, little shell, weak reaction with HCl, moist, gray (SM) | 100 | 24 | | SPT Sampler | 6 12 | 16 |
| -79.1 | 86.0 | | | | | | -79.1 | 4 | |
| | | | SAND, poorly-graded with silt, mostly subrounded fine-grained quartz, few silt, trace shell, no reaction with HCl, moist, brown-gray (SP-SM) | 100 | 25 | | SPT Sampler | 21 33 | 72 |
| | | | | 90 | 26 | | SPT Sampler | 10 22 | 54 |
| -82.1 | 89.0 | | | | | | -82.1 | 32 | |
| | | | SAND, silty, mostly subrounded fine-grained quartz, little silt, few clay, weak reaction with HCl, moist, gray (SM) | 100 | 27 | | SPT Sampler | 20 19 | 47 |
| -83.6 | 90.5 | | | | | | -83.6 | 28 | |
| | | | SAND, poorly-graded with silt, mostly subrounded fine-grained quartz, some shell, few silt, strong reaction with HCl, moist, tan (SP-SM) | 50 | 28 | | SPT Sampler | 10 9 | 18 |
| | | | At El. -85.1 Ft., little shell | | | | -85.1 | 9 | |
| | | | | 90 | 29 | | SPT Sampler | 12 8 | 17 |
| -86.6 | 93.5 | | | | | | -86.6 | 9 | |
| | | | SAND, silty, little shell, little silt, weak reaction with HCl, moist, gray (SM) | 100 | 30 | | SPT Sampler | 9 14 | 37 |
| | | | | | | | -88.1 | 23 | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 6 OF 12 SHEETS | | | |
|---|-------|--------|--|--------|---------------------|-------------------------|-------------|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| | | | | 90 | 31 | | SPT Sampler | 7 7 8 | 15 |
| | | | | 40 | 32 | | SPT Sampler | 10 10 19 | 29 |
| | | | | 100 | 33 | | SPT Sampler | 7 4 5 | 9 |
| | | | | 100 | 34 | | SPT Sampler | 7 4 8 | 12 |
| | | | | 70 | 35 | | SPT Sampler | 7 10 15 | 25 |
| | | | | 50 | 36 | | SPT Sampler | 8 8 8 | 16 |
| | | | | 100 | 37 | | SPT Sampler | 5 6 13 | 19 |
| | | | | 100 | 38 | | SPT Sampler | 8 13 24 | 37 |
| | | | At El. -100.1 Ft., few shell | 100 | 39 | | SPT Sampler | 5 8 12 | 20 |
| | | | At El. -101.6 Ft., trace shell | 100 | 40 | | SPT Sampler | 10 12 19 | 31 |
| | | | At El. -103.1 Ft., little shell | 100 | 41 | | SPT Sampler | 17 29 36 | 65 |
| -104.6 | 111.5 | | SAND, poorly-graded with silt, mostly subrounded fine-grained quartz, some shell, few silt, strong reaction with HCl, moist, tan (SP-SM) | 85 | 42 | | SPT Sampler | 8 12 13 | 25 |
| | | | At El. -106.1 Ft., trace shell | 100 | 43 | | SPT Sampler | 5 11 18 | 29 |
| | | | | 100 | 44 | | SPT Sampler | 9 | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 7 OF 12 SHEETS | | | |
|---|-------|--------|--|--------|---------------------|-------------------------|-------------|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| | | | At El. -108.1 Ft., some shell | 100 | 44 | | SPT Sampler | 15 | 40 |
| | | | | | | | -109.1 | 25 | |
| | | | | 100 | 45 | | SPT Sampler | 13 | 36 |
| | | | | | | | -110.6 | 18 | |
| | | | | 100 | 46 | | SPT Sampler | 9 | 38 |
| | | | | | | | -112.1 | 16 | |
| | | | At El. -112.1 Ft., trace shell | | | | | 22 | |
| | | | | 100 | 47 | | SPT Sampler | 11 | 41 |
| | | | | | | | -113.6 | 17 | 120 |
| | | | | | | | | 24 | |
| | | | At El. -114.1 Ft., few shell | | | | | 9 | |
| | | | | 100 | 48 | | SPT Sampler | 9 | 21 |
| | | | | | | | -115.1 | 12 | |
| | | | | 100 | 49 | | SPT Sampler | 8 | 22 |
| | | | | | | | -116.6 | 8 | |
| | | | At El. -116.6 Ft., little shell | | | | | 14 | |
| | | | | 100 | 50 | | SPT Sampler | 9 | 53 |
| | | | | | | | -118.1 | 23 | |
| | | | | | | | | 30 | |
| | | | | 100 | 51 | | SPT Sampler | 6 | 125 |
| | | | | | | | -119.6 | 10 | |
| | | | | | | | | 12 | 22 |
| | | | | 100 | 52 | | SPT Sampler | 7 | 31 |
| | | | | | | | -121.1 | 11 | |
| | | | | | | | | 20 | |
| | | | | 100 | 53 | | SPT Sampler | 14 | 78 |
| -122.6 | 129.5 | | | | | | -122.6 | 33 | |
| | | | SAND, silty, mostly subrounded fine-grained quartz, little silt, few shell, weak reaction with HCl, moist, gray (SM) | | | | | 45 | |
| | | | | 100 | 54 | | SPT Sampler | 6 | 130 |
| | | | | | | | -124.1 | 12 | 26 |
| | | | At El. -124.1 Ft., little shell | | | | | 14 | |
| | | | | 100 | 55 | | SPT Sampler | 11 | 26 |
| | | | | | | | -125.6 | 10 | |
| | | | At El. -125.6 Ft., few shell | | | | | 16 | |
| | | | | 70 | 56 | | SPT Sampler | 12 | 70 |
| | | | | | | | -127.1 | 31 | |
| | | | At El. -127.1 Ft., little shell | | | | | 39 | |
| | | | | 100 | 57 | | SPT Sampler | 9 | |
| | | | | | | | | 10 | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 8 OF 12 SHEETS | | | |
|---|-------|--------|---|--------|---------------------|-------------------------|--------------------|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| -128.6 | 135.5 | | | 100 | 57 | | -128.6 SPT Sampler | 13 | 23 |
| | | | SAND, poorly-graded with silt, mostly subrounded fine-grained quartz, few silt, trace shell, weak reaction with HCl, moist, light brown (SP-SM) | 100 | 58 | | SPT Sampler | 9 | 59 |
| | | | | | | | | 21 | |
| | | | | | | | -130.1 | 38 | |
| | | | | 100 | 59 | | SPT Sampler | 13 | 48 |
| | | | | | | | | 23 | |
| -131.6 | 138.5 | | | | | | -131.6 | 25 | |
| | | | SAND, silty, mostly subrounded fine-grained quartz, some silt, trace shell, weak reaction with HCl, moist, light brown (SM) | 100 | 60 | | SPT Sampler | 9 | 26 |
| | | | | | | | | 13 | |
| | | | At El. -133.1 Ft., few shell | | | | -133.1 | 13 | 140 |
| | | | | 100 | 61 | | SPT Sampler | 9 | |
| | | | | | | | -134.6 | 12 | 37 |
| | | | At El. -134.6 Ft., little silt, little shell | | | | | 25 | |
| | | | | 100 | 62 | | SPT Sampler | 21 | 61 |
| | | | | | | | | 26 | |
| | | | | | | | -136.1 | 35 | |
| | | | | 100 | 63 | | SPT Sampler | 10 | 26 |
| | | | | | | | | 11 | |
| | | | | | | | -137.6 | 15 | |
| | | | | 100 | 64 | | SPT Sampler | 9 | 145 |
| | | | At El. -138.1 Ft., tan | | | | | 13 | |
| | | | | | | | -139.1 | 22 | 35 |
| | | | | 100 | 65 | | SPT Sampler | 21 | |
| | | | | | | | | 24 | 64 |
| | | | At El. -140.6 Ft., moderate cementation | | | | | 40 | |
| | | | | 100 | 66 | | SPT Sampler | 16 | 24 |
| | | | | | | | | 11 | |
| | | | | | | | -142.1 | 13 | |
| | | | At El. -142.1 Ft., weak cementation | | | | | 7 | 58 |
| | | | | 100 | 67 | | SPT Sampler | 19 | |
| | | | | | | | | 39 | 150 |
| | | | At El. -143.1 Ft., moderate cementation | | | | | 18 | |
| | | | | 100 | 68 | | SPT Sampler | 9 | 30 |
| | | | | | | | | 21 | |
| | | | | | | | -145.1 | 21 | |
| | | | At El. -145.1 Ft., weak cementation | | | | | 6 | 17 |
| | | | | 100 | 69 | | SPT Sampler | 9 | |
| | | | | | | | | 8 | 20 |
| | | | | | | | | 8 | |
| | | | | 100 | 70 | | SPT Sampler | 8 | |
| | | | | | | | | 8 | |
| | | | | | | | -146.6 | 8 | |
| | | | | | | | | 8 | |
| | | | | | | | | 8 | |
| | | | | | | | -148.1 | 12 | 20 |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 9 OF 12 SHEETS | | | |
|---|-------|--------|---|--------|---------------------|-------------------------|-------------|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| | | | | 100 | 71 | | SPT Sampler | 9 7 10 | 17 |
| | | | | | | | -149.6 | | |
| | | | | 100 | 72 | | SPT Sampler | 6 10 14 | 24 |
| | | | At El. -151.1 Ft., trace shell | | | | -151.1 | | |
| | | | | 100 | 73 | | SPT Sampler | 19 20 15 | 35 |
| | | | | | | | -152.6 | | |
| | | | | 100 | 74 | | SPT Sampler | 13 18 24 | 42 |
| | | | | | | | -154.1 | | |
| | | | | 100 | 75 | | SPT Sampler | 12 16 20 | 36 |
| | | | At El. -155.6 Ft., moderate cementation | | | | -155.6 | | |
| | | | | 100 | 76 | | SPT Sampler | 21 24 33 | 57 |
| | | | | | | | -157.1 | | |
| | | | | 100 | 77 | | SPT Sampler | 17 25 30 | 55 |
| | | | | | | | -158.6 | | |
| | | | | 100 | 78 | | SPT Sampler | 25 45 27 | 72 |
| | | | At El. -160.1 Ft., discontinue shell | | | | -160.1 | | |
| | | | | 100 | 79 | | SPT Sampler | 3 6 6 | 12 |
| | | | At El. -161.6 Ft., some silt | | | | -161.6 | | |
| | | | | 100 | 80 | | SPT Sampler | 8 12 14 | 26 |
| | | | | | | | -163.1 | | |
| | | | | 100 | 81 | | SPT Sampler | 6 13 19 | 32 |
| | | | At El. -164.6 Ft., mostly fine to medium-grained quartz | | | | -164.6 | | |
| | | | | 100 | 82 | | SPT Sampler | 17 16 21 | 37 |
| | | | At El. -166.1 Ft., weak cementation | | | | -166.1 | | |
| | | | | 50 | 83 | | SPT Sampler | 17 20 14 | 34 |
| | | | | | | | -167.6 | | |
| | | | | 85 | 84 | | SPT Sampler | 16 | |

155
17
24
35
42
36
57
55
72
12
26
32
37
34
175

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 10 OF 12 SHEETS | | | |
|---|-------|--------|--|--------|---------------------|--------------------------|-----------------|---------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/0.5 FT. | N-VALUE |
| | | | At El. -168.1 Ft., light gray | 85 | 84 | | SPT Sampler | 13 | 26 |
| | | | At El. -169.1 Ft., sulfur odor | 100 | 85 | | SPT Sampler | 9 | 29 |
| | | | At El. -170.6 Ft., discontinue cementation | 100 | 86 | | SPT Sampler | 9 | 42 |
| | | | | 100 | 87 | | SPT Sampler | 6 | 31 |
| | | | | 100 | 88 | | SPT Sampler | 14 | 48 |
| | | | At El. -176.6 Ft., discontinue sulfur odor | 100 | 89 | | SPT Sampler | 20 | 45 |
| | | | At El. -178.1 Ft., weak cementation | 85 | 90 | | SPT Sampler | 28 | 92+ |
| | | | | | | | Advanced Boring | 11 | 185 |
| | | | | 100 | 91 | | SPT Sampler | 21 | 40 |
| | | | | 100 | 92 | | SPT Sampler | 24 | 68 |
| | | | At El. -181.1 Ft., discontinue cementation, gray | NR | 93 | | SPT Sampler | 17 | 75 |
| | | | | 100 | 94 | | SPT Sampler | 42 | 190 |
| | | | | NR | 95 | | SPT Sampler | 50/0.3' | |
| | | | | 100 | 96 | | SPT Sampler | 12 | 60 |
| | | | | 100 | 97 | | SPT Sampler | 13 | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 11 OF 12 SHEETS | | | |
|---|-------|--------|--|--------|---------------------|--------------------------|--|-------------------|---------|
| PROJECT C&SF US DOI Modified Waters to ENP | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL NAVD88 | | | |
| LOCATION COORDINATES X = 804,772 Y = 463,987 | | | ELEVATION TOP OF BORING 6.9 Ft. | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | RQD OR UD | REMARKS | BLOWS/ 0.5 FT. | N-VALUE |
| -193.1 | 200.0 | | At El. -190.1 Ft., trace shell | 100 | 98 | | Advanced Boring | 31 | 68 |
| | | | | 100 | 99 | | SPT Sampler | 35 | |
| | | | | 100 | 100 | | SPT Sampler | 37 | 19 |
| | | | NOTES: | | | | 140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.). | | |
| | | | 1. USACE Jacksonville is the custodian for these original files. | | | | Abbreviations: | | |
| | | | 2. Soils are field visually classified in accordance with the Unified Soils Classification System. | | | | WOH = Weight of Hammer. | | |
| | | | 3. Laboratory Testing Results | | | | NR = Not Recorded. | | |
| | | | | | | | DT = Drill Time. | | |
| | | | | | | | HP = Hydraulic Pressure. | | |
| | | | SAMPLE ID SAMPLE DEPTH LABORATORY CLASSIFICATION | | | | | | |
| | | | 3 53.0/54.5 SP-SM* | | | | | | |
| | | | 10 63.5/65.0 SP-SM* | | | | | | |
| | | | 19 77.0/78.5 SM | | | | | | |
| | | | 33 98.0/99.5 SP-SM* | | | | | | |
| | | | 46 117.5/119.0 SW-SM* | | | | | | |
| | | | 61 140.0/141.5 SM* | | | | | | |
| | | | 75 161.0/162.5 SW-SM* | | | | | | |
| | | | 87 179.0/180.5 SM* | | | | | | |
| | | | 96 192.5/194.0 SM* | | | | | | |
| | | | 99 197.0/198.5 SM | | | | | | |
| | | | *Lab visual classification based on gradation curve. No Atterberg limits. | | | | | | |
| | | | 4. Additional Laboratory Testing | | | | | | |
| | | | 3 Moisture Content | | | | | | |
| | | | 3 Specific Gravity | | | | | | |
| | | | 10 Moisture Content | | | | | | |
| | | | 10 Specific Gravity | | | | | | |
| | | | 19 Moisture Content | | | | | | |
| | | | 19 Specific Gravity | | | | | | |
| | | | 33 Moisture Content | | | | | | |
| | | | 33 Specific Gravity | | | | | | |
| | | | 46 Moisture Content | | | | | | |
| | | | 46 Specific Gravity | | | | | | |
| | | | 61 Moisture Content | | | | | | |
| | | | 61 Specific Gravity | | | | | | |
| | | | 75 Moisture Content | | | | | | |
| | | | 75 Specific Gravity | | | | | | |
| | | | 87 Moisture Content | | | | | | |
| | | | 87 Specific Gravity | | | | | | |
| | | | 96 Moisture Content | | | | | | |
| | | | 96 Specific Gravity | | | | | | |
| | | | 99 Moisture Content | | | | | | |