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Appendix A

Soil Boring Logs

PHASE II ESA BORING LOGS



Test Boring Report

BORING NO. REC-1 B-1
PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: Newberry, SC
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/28/14
DATE FINISH: 01/28/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | HOLE DIA. | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|-------------|----------------|-------------|
| | | | | | CASING DIA. | CASING TYPE |
| | | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|----------------------------|---|--|
| | | | | | SOIL CLASSIFICATION: USCS | |
| 5.0 | ↑ | | | | SILTY SAND (SM), tan to brown, fill, fine grained, well graded, damp | |
| | 0.6 ↓ | | | | | |
| | ↑ 0.6 | | | | | |
| | 0.4 ↓ | | | | SILTY SAND (SM), red fill, red to tan, fine grained, well graded, damp | |
| 10.0 | ↑ 0.4 | | | | SANDY SILT (ML), fill, red to tan, medium stiff, some fine sand, damp | |
| | 0.4 ↓ | | | | | |
| | ↑ 0.3 | | | | SANDY SILT (ML), Saprolite, tan, medium stiff, little fine sand, damp | |
| | 0.3 ↓ | | | | SANDY SILT (ML), Saprolite, as above, except moist to wet | |
| 15.0 | | | | Boring terminated at 15 ft | | |
| 20.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-1 B-2
 PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
 CLIENT: Shakespeare
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313972
 LOCATION: Newberry, SC
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 01/28/14
 DATE FINISH: 01/28/14
 DRILLER: M. Gonzalez
 OVERSIGHT: C. Sudbety

| GROUNDWATER | | | DRILLING INFORMATION | | | |
|-------------|----------------|-------|----------------------|----------------|-------------|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM | |
| | | | HOLE DIA. | CASING DIA. | CASING TYPE | |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE | |
| | | | SAMPLING | HAMMER WT | HAMMER FALL | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | ↑ | | | | SILTY SAND (SM), fill, tan, fine grained, well graded, damp. |
| | 1.2 | | | | |
| | ↓ | | | | |
| | 0.9 | | | | |
| | ↑ | | | | |
| | 0.2 | | | | SAND (SP), brown, fill, fine grained, poorly graded, damp |
| 5.0 | ↓ | | | | |
| | 0.6 | | | | SANDY SILT (ML), fill, tan to red, medium st. sp, some fine sand, damp |
| | ↓ | | | | |
| | 0.6 | | | | |
| | ↑ | | | | |
| | 0.4 | | | | SANDY SILT (ML) fill, gray |
| 10.0 | ↓ | | | | |
| | 0.4 | | | | SANDY SILT (ML), Saprolite, tan to gray, medium st. sp, some fine sand, damp |
| | ↑ | | | | |
| | 0.3 | | | | moist at 14 ft. |
| 15.0 | ↓ | | | | Boring terminated at 15 ft. |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 20.0 | | | | | |

SOIL CLASSIFICATION: USCS

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | WD WHILE DRILLING |
| | | | | | | NE NOT ENCOUNTERED |
| | | | | | | UR NOT READ |
| | | | | | | NR NO RECOVERY |



Test Boring Report

BORING NO. REC-2 B-3
PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: Newberry, SC
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/31/14
DATE FINISH: 01/31/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| | | | | | SOIL CLASSIFICATION: USCS |
| | 5.9 | | | | SAND (SW), Fill, brown, fine to medium grained, well graded, dry |
| | 1.0 | | | | SANDY SILT (ML), Fill, tan, medium stiff, some fine sand, damp |
| 5.0 | 0.7 | | | | |
| | 0.4 | | | | SANDY SILT (ML), saprolite, tan to gray, medium stiff, little fine sand, damp, refusal at 7 ft. |
| | | | | | Boring terminated at 7 ft. |
| 10.0 | | | | | |
| 15.0 | | | | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-Z B-4
PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60319892
LOCATION: Newberry, SC
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/31/14
DATE FINISH: 01/31/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER VT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| | ↑ | | | | SAND(SW), fill, fine to medium grained, brown, well graded, damp |
| 0.8 | | | | | SANDY SILT(ML), fill, red to tan, medium stiff, little fine sand, damp |
| 2.0 | | | | | |
| 5.0 | | | | | SILTY SAND(SM), Saprolite, fine to medium grained, well graded, granitic texture, damp, refusal at 8 ft |
| 10.0 | | | | | Boring terminated at 8 ft |
| 15.0 | | | | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-3 B-5E
PAGE 1 OF 1PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040PROJECT NO: 60313892
LOCATION: Newberry, SC
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/27/14
DATE FINISH: 01/27/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth**GROUNDWATER****DRILLING INFORMATION**

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE |
|---------------|-------------------------------|----------------------------|---------------|--------------------|
| 5.0 | ↑ | | | |
| | 0.1 ↓ | | | |
| | ↑ | | | |
| | 0.0 ↓ | | | |
| 10.0 | X | | | |
| | 0.0 | | | |
| | 0.2 | | | |
| | ↑ | | | |
| 15.0 | 0.4 ↓ | | | |
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| | | | | |
| 20.0 | | | | |
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FIELD CLASSIFICATION AND REMARKSSOIL CLASSIFICATION: USCS

SILTY SAND (SM), fill, red to brown, fine to medium grained, well graded, damp

SILTY SAND (SM), fill, tan to red, fine to medium grained, well graded, few clay, damp

Boring terminated at 10 ft

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-3 B-6
PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: Newberry, SC
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/27/14
DATE FINISH: 01/27/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddoth

| GROUNDWATER | | | DRILLING INFORMATION | | |
|-------------|----------------|-------|----------------------|----------------|-------------|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | | | | | |
| | ↑ | | | | SANDY SILT (ML), fill, red to tan medium stiff, fine gravel sand 1, well graded, damp. SANDY SILT (ML), fill, gray to red, as above. SANDY SILT (ML), fill, red to brown, stiff, little fine sand, damp. |
| | 0.0 | | | | |
| | ↓ | | | | |
| | ↑ | | | | |
| | 0.0 | | | | |
| 5.0 | ↓ | | | | |
| | 0.4 | | | | |
| | ↑ | | | | |
| | 0.1 | | | | |
| | ↓ | | | | |
| | 1.1 | | | | |
| 10.0 | ↓ | | | | |
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| | | | | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-4 B-8
PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: Newberry, SC
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/31/14
DATE FINISH: 01/31/14
DRILLER: Mr. Gonzalez
OVERSIGHT: C. Siddleth

| GROUNDWATER | | | DRILLING INFORMATION | | | | | | |
|-------------|----------------|-------|----------------------|--|--|----------------|--|-------------|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | | CASING INSTALL | | TEMP / PERM | |
| | | | HOLE DIA. | | | CASING DIA. | | CASING TYPE | |
| | | | TOTAL DEPTH | | | CASING DEPTH | | GROUT TYPE | |
| | | | SAMPLING | | | HAMMER WT | | HAMMER FALL | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|--|
| | | | | | SOIL CLASSIFICATION: USCS | |
| | ↑ 4.0 | | | | SANDY SILT (ML), fill, tan, medium stiff, little fine sand, damp | |
| | ↓ 1.3 | | | | | |
| 5.0 | | | | | Boring terminated at 4 ft | |
| 10.0 | | | | | | |
| 15.0 | | | | | | |
| 20.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-5B B-10

PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
 CLIENT: Shakespeare
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
 LOCATION:
 ELEVATION:
 NORTHING:
 EASTING:
 DATE START: 01/30/14
 DATE FINISH: 01/30/14
 DRILLER: M. Gonzales
 OVERSIGHT: C. Suddeth

GROUNDWATER**DRILLING INFORMATION**

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| | | | | | Asphalt (0-0.25) SOIL CLASSIFICATION: USCS |
| | 0.1 | | | | SAND (SP), brown, fill, fine grained, poorly graded, damp |
| | 0.3 | | | | SILTY SAND (SM), fill, tan, fine grained, well graded, damp |
| 5.0 | 0.2 | | | | SANDY SILT (ML), fill, tan, medium stiff, damp |
| | 0.2 | | | | |
| | | | | | SANDY SILT (ML), ^{saprolite} tan to red, medium stiff, little fine to medium sand, moist |
| 10.0 | | | | | SANDY SILT (ML), saprolite, tan to red, medium stiff, little fine to medium sand, moist. |
| | | | | | SANDY SILT (ML), saprolite ^{soft} , as above except wet |
| 15.0 | 0.1 | | | | SANDY SILT (ML), saprolite, tan to gray, soft, little fine sand, wet, granitic texture |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-5C B-11
PAGE 1 OF 1

PROJECT: Phase # ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/31/14
DATE FINISH: 01/31/14
DRILLER: M. Gozales
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | | | | | SOIL CLASSIFICATION: USCS |
| | | | | | CONCRETE |
| | | | | | SAND (SW), Fill, brown, fine to medium grained, well graded, few clay, wet |
| | | | | | SILTY SAND (SM), Fill, fine to medium grained, well graded, damp. |
| 5.0 | | | | | SAND (SW), Fill, dark gray, fine to medium grained, well graded, wet. |
| | | | | | SILTY SAND (SM), Fill, tan to gray, well graded, trace clay, moist |
| 10.0 | | | | | SANDY SILT (ML), Fill, tan to gray, medium stiff, trace clay, moist. |
| | | | | | SANDY SILT (ML), Fill, as above |
| 15.0 | | | | | Boring terminated at 15 ft |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REC-8A B-12
PAGE 1 OF 1

PROJECT: Phase II ESA-Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/30/14
DATE FINISH: 01/30/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| | ↑ | | | | SAND AND GRAVEL 0-0.25 SANDY SILT (ML), brown, medium stiff, fill, few clay, damp, no chemical odor, fill. |
| | 17.4 | | | | |
| | ↓ | | | | SAND (SP), fill, brown, fine grained, poorly graded, no chemical odor, damp |
| 5.0 | 19.9 | | | | |
| 10.0 | | | | | |
| 15.0 | | | | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. REG86 B-13
 PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
 CLIENT: Shakespeare
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 01/30/14
 DATE FINISH: 01/30/14
 DRILLER: M. Gonzalez
 OVERSIGHT: C. Sublett

GROUNDWATER**DRILLING INFORMATION**

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|--|
| | | | | | SOIL CLASSIFICATION: USCS | |
| | | | | | CONCRETE (0-0.15 FT) | |
| | ↑ | | | | CLAYEY SAND (SC), fill, fine to medium grained, well graded, damp | |
| | 1.6 | | | | | |
| | ↓ | | | | | |
| 5.0 | | | | | Boring terminated at 3.5 ft | |
| 10.0 | | | | | | |
| 15.0 | | | | | | |
| 20.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | | DESCRIPTIONS | | NOTES | |
|-----------|--------------|-----------|--------------|-------------|-------------|--------------|---------|-------|-----------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY | 50-100% | WD | WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME | 30-45% | NE | NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE | 15-25% | UR | NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW | 5-10% | NR | NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE | <5% | | |
| | | 31+ | HARD | | | | | | |



Test Boring Report

BORING NO. TMW-1
PAGE 1 OF 2

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313 892
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 01/28/14
DATE FINISH: 01/30/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Swobeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| | | | | | SOIL CLASSIFICATION: USCS |
| | 0.3 | | | | SAND (SW), fill, brown, fine to medium grained, well graded, damp. |
| | 0.2 | | | | SILTY SAND (SM), fill, tan to red, fine grained dense, well graded, damp. |
| 5.0 | 0.2 | | | | |
| | 0.2 | | | | |
| | 0.5 | | | | CLAYEY SAND (SC), fill, dark gray, fine to medium grained, roots, well graded, little silt, moist |
| | 0.3 | | | | Partially weathered rock, hard, gray, igneous texture, dry. |
| 10.0 | 0.2 | | | | SANDY SILT (ML), fill, tan to red, medium stiff, some fine sand, moist |
| | 0.7 | | | | Partially weathered rock |
| | 0.3 | | | | SAND (SW), fill, fine to medium grained, well graded, saturated |
| 15.0 | 0.2 | | | | CLAYEY SAND (SC), fill, tan to gray, little silt, fine grained, well graded, moist |
| | 0.2 | | | | |
| | 0.3 | | | | SILTY SAND (SM), fill, tan to gray, fine grained, well graded, wet |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------------|--|-------------------------------------|------------------|--------------------------|--|
| 20.0 | ↑ | | | | <i>SANDY SILT (ML), Saprolite, tan, medium stiff, little fine sand, wet.</i> |
| | <i>oil</i> | | | | |
| | ↓ | | | | |
| | ↑ | | | | |
| | <i>oil</i> | | | | |
| | ↓ | | | | |
| 25.0 | | | | | <i>Boring terminated at 25 ft.</i> |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-2
 PAGE 1 OF 2

PROJECT: Phase II ESA - Shakespeare
 CLIENT: Shakespeare
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 01/28/14
 DATE FINISH: 01/30/14
 DRILLER: M. Gonzales
 OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| | | | | | SOIL CLASSIFICATION: USCS |
| | ↑ 0.0 | | | | SAND (SP), Fill, fine grained, poorly graded, damp |
| | ↓ | | | | |
| | ↑ 0.0 | | | | SANDY SILT (ML), Fill, red to tan, medium stiff, some fine sand, plant roots, damp. |
| | ↓ | | | | |
| 5.0 | ↑ 0.1 | | | | SANDY SILT (ML), as above. |
| | ↓ | | | | |
| | ↑ 0.0 | | | | SAND (SP), Fill, brown, fine grained, poorly graded, damp. |
| | ↓ | | | | |
| 10.0 | ↑ 0.0 | | | | SANDY SILT (ML), Fill, tan, medium stiff, some fine sand, moist |
| | ↓ | | | | |
| | ↑ 0.0 | | | | SILTY SAND (SM), Fill, fine grained, well graded, moist. |
| | ↓ | | | | |
| 15.0 | ↑ 0.0 | | | | SILTY SAND (SM), Saprolite, gray, fine grained, some silt, moist |
| | ↓ | | | | |
| | ↑ 0.0 | | | | |
| | ↓ | | | | |
| 20.0 | ↑ 0.0 | | | | |
| | ↓ | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. T.M.W-2
PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------------|--|-------------------------------------|------------------|--------------------------|--|--|
| | | | | | | |
| 20.0 | ↑ | | | | SILTY SAND (SM), Saprolite, gray to tan, fine grained, well graded, moist to wet | |
| | 0.0 | | | | | |
| | ↓ | | | | | |
| | ↑ | | | | | |
| | 0.0 | | | | | |
| 25.0 | ↓ | | | | Boring terminated at 25 ft. | |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | | DESCRIPTIONS | | NOTES | |
|-----------|--------------|-----------|--------------|-------------|-------------|--------------|---------|-------|-----------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY | 50-100% | WD | WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME | 30-45% | NE | NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE | 15-25% | UR | NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW | 5-10% | NR | NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE | <5% | | |
| | | 31+ | HARD | | | | | | |

(MW-4)
TMW-3 (MW)

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|--|-------------------------------|----------------------------|----------------------|---------------------------|--|-------------------------------|-------------|-----------------------------|--|--|
| AECOM | | | | Test Boring Report | | | | BORING NO. <u>REL-3 B-7</u> | | |
| | | | | PAGE <u>1</u> OF <u>2</u> | | | | | | |
| PROJECT: <u>Phase II ESA - Shakespeare</u> | | | | | | PROJECT NO: <u>60313892</u> | | | | |
| CLIENT: <u>Shakespeare</u> | | | | | | LOCATION: <u>Newberry, SC</u> | | | | |
| CONTRACTOR: <u>AE Drilling</u> | | | | | | ELEVATION: _____ | | | | |
| EQUIPMENT: <u>Geoprobe 3040</u> | | | | | | NORTHING: _____ | | | | |
| GROUNDWATER | | | DRILLING INFORMATION | | | | | | | |
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | | TEMP / PERM | | | |
| | | | HOLE DIA. | | CASING DIA. | | CASING TYPE | | | |
| | | | TOTAL DEPTH | | CASING DEPTH | | GROUT TYPE | | | |
| | | | SAMPLING | | HAMMER WT | | HAMMER FALL | | | |
| | | | | | | EASTING: _____ | | | | |
| | | | | | | DATE START: <u>01/27/14</u> | | | | |
| | | | | | | DATE FINISH: <u>01/27/14</u> | | | | |
| | | | | | | DRILLER: <u>M. Gonzales</u> | | | | |
| | | | | | | OVERSIGHT: <u>C. Suddeth</u> | | | | |
| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | | | | |
| | | | | | | SOIL CLASSIFICATION: USCS | | | | |
| | ↑ | | | | SANDY SILT (ML), fill, tan to red, stiff, some fine grained sand, damp. | | | | | |
| | 0.0 | | | | | | | | | |
| | ↓ | | | | SANDY SILT (ML), ^{fill} tan to red, stiff, some fine grained sand, trace clay, plant roots, moist | | | | | |
| 5.0 | ↑ | | | | | | | | | |
| | 0.0 | | | | SILTY SAND (SM), fill, dark gray, fine grained, little silt, trace clay, plant roots, moist | | | | | |
| | ↓ | | | | | | | | | |
| | 0.7 | | | | SILTY SAND (SM), fill, as above except wet | | | | | |
| 10.0 | ↑ | | | | | | | | | |
| | 0.9 | | | | SILTY SAND (SM), fill, tan to gray, fine grained, trace clay, well graded, moist. | | | | | |
| | ↓ | | | | | | | | | |
| | 0.3 | | | | SAND (SW), fill, tan, fine to medium grained, well graded, wet | | | | | |
| 15.0 | ↑ | | | | | | | | | |
| | 0.1 | | | | SANDY SILT (ML), Saprolite, tan, medium stiff, some fine sand, saturated, occasional granitic texture | | | | | |
| | ↓ | | | | | | | | | |
| | 0.1 | | | | | | | | | |
| 20.0 | ↓ | | | | | | | | | |
| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES | | | | |
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING | | | | |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED | | | | |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ | | | | |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY | | | | |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | | | | | |
| | | 31+ | HARD | | | | | | | |



Test Boring Report

BORING NO. REC-3 B-7

PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| 20.0 | ↑ | | | | SANDY SILT (ML), Saprolite, tan, medium stiff, some fine sand, granitic texture, saturated. |
| | oil ↓ | | | | |
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| | oil ↓ | | | | |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|-------------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-4
 PAGE 1 OF 2

PROJECT: Phase II ESA - Shakespeare
 CLIENT: Shakespeare
 CONTRACTOR: A&E Drilling
 EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 01/27/13
 DATE FINISH: 01/28/13
 DRILLER: M. Gonzales
 OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS (Fill) SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | ↑ | | | | SAND (SP), brown, medium grained, poorly graded, damp |
| | 0.1 | | | | SAND (sw), ^{tan to red} fill, fine to medium grained, well graded, dry few clay, damp. |
| | ↓ | | | | |
| | 0.1 | | | | |
| 5.0 | ↑ | | | | CLAYEY SAND (SC), brown, fine to coarse grained, well graded, moist |
| | 1.0 | | | | |
| | ↓ | | | | |
| | 0.3 | | | | CLAYEY SAND (SC) (Fill), dark gray, fine to medium grained, well graded, soft, wet, plant roots |
| 10.0 | ↓ | | | | |
| | 0.4 | | | | |
| | ↓ | | | | |
| | 0.3 | | | | SAND (sw), fill, tan to gray, fine to medium grained, well graded, damp |
| | 0.2 | | | | |
| 15.0 | ↓ | | | | |
| | 0.3 | | | | SILTY SAND (SM), Saprolite, tan to gray, fine to medium grained, well graded, moist, few clay |
| | ↓ | | | | |
| | 0.2 | | | | |
| 20.0 | ↓ | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|--|
| | | | | | | |
| 20.0 | ↑ 0.2 | | | | <p><i>Saprolite</i> SANDY SILT (ML), tan to red, stiff, some very fine grained sand, damp to moist.</p> | |
| | ↓ 0.2 | | | | | |
| | ↑ 0.2 | | | | | |
| | ↓ 0.4 | | | | | |
| 25.0 | ↓ 0.4 | | | | <p>SANDY SILT (ML), <i>Saprolite</i>, tan, stiff, some very fine grained sand, granitic texture, moist to wet.</p> | |
| | ↓ | | | | | |
| | ↑ 0.4 | | | | | |
| | ↓ | | | | | |
| 30.0 | | | | | <p>Boring terminated at 30 ft.</p> | |
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| 45.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |

(NW-6)
T10W-5 (NW6)

AECOM **Test Boring Report**

BORING NO. REC-10 B-16
PAGE 1 OF 2

PROJECT: Phase II ESA-Shakespeare PROJECT NO: 60313092
 CLIENT: Shakespeare LOCATION: _____
 CONTRACTOR: AE Drilling ELEVATION: _____
 EQUIPMENT: Geoprobe 8040 NORTHING: _____
 EASTING: _____

| GROUNDWATER | | | DRILLING INFORMATION | | | |
|-------------|----------------|-------|----------------------|----------------|-------------|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM | |
| | | | HOLE DIA. | CASING DIA. | CASING TYPE | |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE | |
| | | | SAMPLING | HAMMER WT | HAMMER FALL | |

DATE START: 01/31/14
 DATE FINISH: 01/31/14
 DRILLER: M. Gonzales
 OVERSIGHT: C. Suddeth

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|---------|
| | | | | | SOIL CLASSIFICATION: USCS | REMARKS |
| | 2.1 | | | | SAND (SW), Fill, brown, fine to medium grained, well graded, damp | |
| | 2.1 | | | | CLAYEY SAND (SC), Fill, brown, fine to medium grained, well graded, damp | |
| | 1.6 | | | | SAND (SW), Fill, dark gray, fine to medium grained, well graded, damp | |
| | ↑ | | | | SANDY SILT (ML), Fill, medium stiff, little fine sand, damp | |
| | 10.4 | | | | | |
| 5.0 | ↑ | | | | SANDY SILT (ML), Fill, as above | |
| | 22.9 | | | | | |
| | ↓ | | | | | |
| | ↑ | | | | | |
| | 17.9 | | | | | |
| | ↓ | | | | Plant material and pine bark at 9.5 ft | |
| 10.0 | ↑ | | | | SANDY SILT (ML), Fill, tan to brown, soft to medium stiff, moist. | |
| | 8.6 | | | | | |
| | ↓ | | | | | |
| | 19.1 | | | | SAND (SW), Fill, fine to medium grained, plant roots, wet | |
| | ↑ | | | | CLAYEY SILT (MH), Fill, red to gray, stiff, damp to moist. | |
| | 19.4 | | | | | |
| 15.0 | ↓ | | | | SAND (SW), Fill, tan, fine to medium grained, trace silt, well graded, wet. | |
| | 15.3 | | | | | |
| | ↓ | | | | | |
| | 17.9 | | | | | |
| | ↓ | | | | SANDY SILT (ML), Fill, tan tan to gray, medium stiff, little fine sand, wet | |
| | 13.8 | | | | | |
| 20.0 | ↓ | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

TMW-5 (MWL)



Test Boring Report

BORING NO. REC-10 B-16

PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | | | | | |
|---------------------|--|-------------------------------------|------------------|--------------------------|--|--------------|---------|-------|-----------------|--|--|
| 20.0 | ↑ | | | | SANDY SILT (ML), Saprolite, tan to gray, soft, little fine sand, saturated | | | | | | |
| | (3.1) | | | | | | | | | | |
| | ↓ | | | | | | | | | | |
| | ↑ | | | | | | | | | | |
| | 2.3 | | | | Boring terminated at 25 ft. | | | | | | |
| | ↓ | | | | | | | | | | |
| 25.0 | | | | | | | | | | | |
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| 30.0 | | | | | | | | | | | |
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| 35.0 | | | | | | | | | | | |
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| 40.0 | | | | | | | | | | | |
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| 45.0 | | | | | | | | | | | |
| | | | | | | | | | | | |
| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | | DESCRIPTIONS | | NOTES | | | |
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY | 50-100% | WD | WHILE DRILLING | | |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME | 30-45% | NE | NOT ENCOUNTERED | | |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE | 15-25% | UR | NOT READ | | |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW | 5-10% | NR | NO RECOVERY | | |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE | <5% | | | | |
| | | 31+ | HARD | | | | | | | | |

TMW-6

| | | | | | | | | | |
|---|-------------------------------|----------------------------|----------------------|---------------------------|---|-------------------------------|-------|------------------------------|--|
| AECOM | | | | Test Boring Report | | | | BORING NO. <u>REC-SA B-9</u> | |
| | | | | | | | | PAGE <u>1</u> OF <u>2</u> | |
| PROJECT: <u>Phase # ESA-Shakespeare</u> | | | | | | PROJECT NO: <u>60313892</u> | | | |
| CLIENT: <u>Shakespeare</u> | | | | | | LOCATION: _____ | | | |
| CONTRACTOR: <u>AE Drilling</u> | | | | | | ELEVATION: _____ | | | |
| EQUIPMENT: <u>Geoprobe 8040</u> | | | | | | NORTHING: _____ | | | |
| GROUNDWATER | | | DRILLING INFORMATION | | | | | | |
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | | CASING INSTALL | | TEMP / PERM | |
| | | | HOLE DIA. | | | CASING DIA. | | CASING TYPE | |
| | | | TOTAL DEPTH | | | CASING DEPTH | | GROUT TYPE | |
| | | | SAMPLING | | | HAMMER WT | | HAMMER FALL | |
| | | | | | | DATE START: <u>01/31/14</u> | | | |
| | | | | | | DATE FINISH: <u>01/31/14</u> | | | |
| | | | | | | DRILLER: <u>M. Gonzalez</u> | | | |
| | | | | | | OVERSIGHT: <u>C. Subletch</u> | | | |
| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | | | |
| | | | | | SOIL CLASSIFICATION: USCS | | | | |
| | ↑ | | | | CONCRETE | | | | |
| | 0.0 | | | | SAND (SW), fill, brown, fine to medium grained, well graded, damp. | | | | |
| | ↓ | | | | | | | | |
| | ↑ | | | | SANDY SILT (ML), fill, red, medium stiff, little fine sand, damp. | | | | |
| | 0.0 | | | | | | | | |
| | ↓ | | | | | | | | |
| | ↑ | | | | SAND (SP), fill, brown, fine grained, poorly graded, moist. | | | | |
| | 0.0 | | | | | | | | |
| 5.0 | ↓ | | | | SANDY SILT (ML), fill, red to tan, medium stiff, little fine sand, damp | | | | |
| | ↑ | | | | | | | | |
| | 0.0 | | | | | | | | |
| | ↓ | | | | SANDY SILT (ML), Saprolite, red to tan, medium stiff, little fine sand, granitic texture, moist | | | | |
| 10.0 | ↑ | | | | | | | | |
| | 0.0 | | | | | | | | |
| | ↓ | | | | | | | | |
| | ↑ | | | | wet at 13 ft. | | | | |
| | 0.0 | | | | | | | | |
| | ↓ | | | | | | | | |
| | ↑ | | | | SANDY SILT (ML), Saprolite, tan to brown, little fine sand, granitic texture, saturated. | | | | |
| 15.0 | 0.1 | | | | | | | | |
| | ↓ | | | | | | | | |
| | ↑ | | | | | | | | |
| | 0.0 | | | | | | | | |
| | ↓ | | | | | | | | |
| 20.0 | | | | | | | | | |
| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | | NOTES | | |
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | MOSTLY | 50-100% | WD | WHILE DRILLING | |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SOME | 30-45% | NE | NOT ENCOUNTERED | |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | LITTLE | 15-25% | UR | NOT READ | |
| 31-50 | DENSE | 9-15 | STIFF | MC | FEW | 5-10% | NR | NO RECOVERY | |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE | <5% | | | |
| | | 31+ | HARD | | | | | | |

TMW-6



Test Boring Report

BORING NO. REC-5A B-9

PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|----------------|-------|-----------------|
| 20.0 | | | | | <p>Acetate sample sleeve stuck in barrel. Unable to see full sample. Note: SANDY SILT (ML), Saprolite as above at top and bottom of the sample.</p> | | | |
| 25.0 | | | | | | | | |
| 30.0 | | | | | | | | |
| 35.0 | | | | | | | | |
| 40.0 | | | | | | | | |
| 45.0 | | | | | | | | |
| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | | NOTES | |
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% | WD | WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% | NE | NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% | UR | NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% | NR | NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% | | |
| | | 31+ | HARD | | | | | |

(MW-2)



Test Boring Report

BORING NO. TMW-7 (MW 2)
PAGE 1 OF 2

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 02/01/14
DATE FINISH: 02/01/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | HOLE DIA. | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|-------------|----------------|-------------|
| | | | | | CASING DIA. | CASING TYPE |
| | | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | ↑ 0.0 | | | | SANDY SILT (ML), Fill, tan, soft, some fine sand, dry. |
| | ↓ | | | | |
| | ↑ 0.0 | | | | SANDY SILT (ML), Saprolite, tan to gray, soft, some fine sand, granitic texture, damp. |
| | ↓ | | | | |
| 5.0 | ↑ 0.1 | | | | SANDY SILT (ML), Saprolite, as above, moist at 8 ft. |
| | ↓ | | | | |
| | ↑ 0.0 | | | | SANDY SILT (ML), Saprolite, tan, soft, granitic, little fine sand, wet to saturated. |
| | ↓ | | | | |
| | ↑ 0.0 | | | | SANDY SILT (ML), Saprolite, as above. |
| | ↓ | | | | |
| 15.0 | ↑ 0.0 | | | | |
| | ↓ | | | | |
| | ↑ 0.0 | | | | |
| | ↓ | | | | |
| 20.0 | ↑ 0.0 | | | | |
| | ↓ | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |



Test Boring Report

 BORING NO. TMB-7 (W 2)
 PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------------|--|-------------------------------------|------------------|--------------------------|---|-----------------------------|
| 20.0 | ↑ 0.0 | | | | SANDY SILT (ML), Saprolite, tan, soft, granitic, little fine sand, less weathered at 24.5 ft. | |
| | ↓ | | | | | |
| | ↑ 0.0 | | | | | |
| | ↓ | | | | | |
| 25.0 | | | | | | Boring terminated at 25 ft. |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

(14W-1)



Test Boring Report

BORING NO. TMW-8 (14W)
PAGE 1 OF 1

PROJECT: Phase II ESA - Shakespeare
CLIENT: Shakespeare
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040

PROJECT NO: 60313892
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____

GROUNDWATER

DRILLING INFORMATION

DATE START: 02/01/14
DATE FINISH: 02/01/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | HOLE DIA. | CASING INSTALL | CASING DIA. | TEMP / PERM | CASING TYPE | TOTAL DEPTH | CASING DEPTH | GROUT TYPE | SAMPLING | HAMMER WT | HAMMER FALL |
|------|----------------|-------|--------------|-----------|----------------|-------------|-------------|-------------|-------------|--------------|------------|----------|-----------|-------------|
| | | | | | | | | | | | | | | |
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| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|---------|
| | | | | | SOIL CLASSIFICATION: USCS | REMARKS |
| 0.0 | ↑ | | | | SANDY (SW), Fill, brown, fine to medium grained, well graded, dry | |
| 0.0 | ↓ | | | | SANDY SILT (ML), Fill, red, soft, some fine to medium sand, well graded, damp | |
| 0.0 | ↑ | | | | SANDY SILT (ML), Saprolite, soft, tan to red, some fine to medium sand, damp. | |
| 5.0 | ↓ | | | | SANDY SILT (ML), Saprolite, as above, moist. | |
| 0.0 | ↑ | | | | SANDY SILT (ML), Saprolite, tan, soft, little fine sand, moist. | |
| 0.0 | ↓ | | | | Wet at 10 ft. | |
| 10.0 | ↑ | | | | SANDY SILT (ML), Saprolite, stiff, tan to white, little fine to medium sand, wet | |
| 0.0 | ↓ | | | | Refusal at 13 ft. | |
| 0.0 | ↑ | | | | Boring terminated at 13 ft. | |
| 15.0 | ↓ | | | | | |
| 20.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318302
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/8/14
DATE FINISH: 4/8/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | HOLE DIA | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------|----------------|-------------|
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| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE |
|---------------|-------------------------------|----------------------------|---------------|--------------------|
| | | | | |
| | 0.0 | | | |
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| | 0.0 | | | |
| 5.0 | | | | |
| | 0.0 | | | |
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| | 0.0 | | | |
| 10.0 | | | | |
| | 0.0 | | | |
| | | | | |
| | 0.0 | | | |
| 15.0 | | | | |
| | 0.0 | | | |
| | | | | |
| | 0.0 | | | |
| 20.0 | | | | |

FIELD CLASSIFICATION AND REMARKS

SOIL CLASSIFICATION: USCS

SANDY SILT (Fill), gray, medium stiff, no chemical odor, damp.
(NL)
SANDY SILT (saprolite), tan to red, medium stiff, little fine to medium sand, no chemical odor, damp

SANDY SILT (ML), saprolite, tan to red, medium stiff, little fine to medium sand, no chemical odor damp

SANDY SILT (ML), saprolite, gray to pink, soft, little fine to medium sand, granitic texture, wet to saturated, no chemical odor (12-13)

SILT (SW), white, very fine to medium grained, well graded, no chemical odor, saturated.

SANDY SILT (ML), saprolite, gray to tan, soft, little fine to medium sand, granitic texture, no chemical odor, saturated.

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 15-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| 20.0 | 0.0 | | | | ML SANDY SILT (ML), Saprolite, gray to tan, soft, little fine to medium sand, no chemical odor, saturated |
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| | 0.0 | | | | |
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| 25.0 | 0.0 | | | | boring terminated at 25 ft |
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| 45.0 | | | | | |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|-------------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-10
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: _____
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040 DT

PROJECT NO: _____
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/8/14
DATE FINISH: 4/8/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | HOLE DIA. | CASING DIA. | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|-----------|-------------|----------------|-------------|
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| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE |
|---------------|-------------------------------|----------------------------|---------------|--------------------|
| | 0.2 | | | |
| | | | | |
| | 0.1 | | | |
| | | | | |
| 5.0 | 0.2 | | | |
| | | | | |
| | 0.3 | | | |
| | | | | |
| | 0.3 | | | |
| | | | | |
| 10.0 | 0.2 | | | |
| | | | | |
| | 0.0 | | | |
| | | | | |
| | 0.0 | | | |
| | | | | |
| 15.0 | 0.0 | | | |
| | | | | |
| | 0.0 | | | |
| | | | | |
| 20.0 | 0.0 | | | |

FIELD CLASSIFICATION AND REMARKS

SOIL CLASSIFICATION: USCS

SAND (SP), fill, brown, medium grained, poorly graded, no chemical odor, damp

SANDY SILT (ML), red to tan, stiff, little fine to medium sand, no chemical odor, damp. (Possible native soils placed as fill).

SANDY SILT (ML), as above. (Possible fill)

SANDY SILT (ML), Saprolite, light brown to tan, soft, little fine to medium sand, no chemical odor, saturated at 7.5 ft.

SANDY SILT (ML), Saprolite, light brown, soft, some fine to medium sand, no chemical odor, saturated.

SANDY SILT (ML), Saprolite, light brown, some fine to medium sand, soft, no chemical odor, saturated.

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-10
PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | | | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|--------------|---------|-------|-----------------|
| 20.0 | 0.2 | | | | SANDY SILT (ML), Saprolite, light brown, soft, little fine to medium sand, no chemical odor, saturated, granitic texture. | | | | |
| | 0.2 | | | | | | | | |
| | 0.2 | | | | | | | | |
| 25.0 | | | | | SANDY SILT (ML), Saprolite, light brown, very hard, some fine to medium sand, granitic texture, hard drilling 23-25, no chemical odor, wet. | | | | |
| | | | | | | | | | |
| | | | | | Boring terminated at 25 ft. | | | | |
| 30.0 | | | | | | | | | |
| 35.0 | | | | | | | | | |
| 40.0 | | | | | | | | | |
| 45.0 | | | | | | | | | |
| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | | DESCRIPTIONS | | NOTES | |
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY | 50-100% | WD | WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME | 30-45% | NE | NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE | 15-25% | UR | NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW | 5-10% | NR | NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE | <5% | | |
| | | 31+ | HARD | | | | | | |



Test Boring Report

BORING NO. TMW-12
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry, SC
CLIENT: _____
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040 DT

PROJECT NO: _____
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/8/14
DATE FINISH: 4/8/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Sibley

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|---------------------------|
| | 0.0 | | | | SAND (SP), light brown, fine to medium grained, well graded, no chemical odor, damp | (Fill) |
| | 0.0 | | | | | |
| 5.0 | 0.0 | | | | SANDY SILT (ML), fill, red to tan, stiff, few fine sand, no chemical odor, damp | |
| | 0.0 | | | | | |
| | 0.0 | | | | SANDY SILT (ML), Saprolite, tan, medium stiff, little fine to medium sand, no chemical odor, moist | |
| 10.0 | 0.0 | | | | SANDY SILT (ML), Saprolite, tan to gray, medium stiff, little fine to medium sand, no chemical odor, moist | |
| | 0.0 | | | | | |
| | 0.0 | | | | SANDY SILT (ML), Saprolite, as above with a granitic texture | |
| 15.0 | 0.0 | | | | | |
| | 0.0 | | | | | |
| | 0.0 | | | | | |
| 20.0 | 0.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-12
PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|
| 20.0 | 0.0 | | | | SANDY SILT (ML), Saprolite, tan to gray, soft, little fine sand, no chemical odor, saturated. |
| | | | | | |
| | 0.0 | | | | |
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| | 0.0 | | | | |
| 25.0 | | | | | |
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| 30.0 | | | | | Boring terminated at 25 ft |
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| 45.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

(MW-8)



Test Boring Report

BORING NO. TMW-13 (MW8)
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: _____
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040 DT

PROJECT NO: _____
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/9/14
DATE FINISH: 4/9/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | 0.0 | | | | SAND (SW) Fill, light brown, fine to medium grained, well graded, no chemical odor, moist |
| | 0.0 | | | | SANDY SILT (ML), fill, red, stiff, little fine sand, few clay, no chemical odor, damp |
| | 0.0 | | | | SAND (SW), fill, light brown, fine to medium grained, well graded, no chemical odor, damp |
| 5.0 | 0.5 | | | | SANDY SILT (ML), fill, red to gray, mottled, stiff, little fine sand, few clay, slightly plastic, no chemical odor, damp |
| | 4.8 | | | | SAND (SW), fill, gray, fine to medium grained, well graded, slight degraded chemical odor, damp |
| | 0.0 | | | | SANDY SILT (ML), fill, red to tan, mottled, stiff, little fine sand, few clay, slightly plastic, no chemical odor, damp |
| 10.0 | 0.0 | | | | |
| | 0.1 | | | | |
| | 0.3 | | | | SANDY SILT (ML), Saprolite, red to tan, medium stiff, little fine sand, no chemical odor, moist. |
| 15.0 | 0.4 | | | | Wet at 14 ft |
| | 1.0 | | | | SANDY SILT (ML), Saprolite, tan, soft, little fine sand, no chemical odor, saturated |
| | 3.2 | | | | |
| | 3.6 | | | | |
| 20.0 | 2.7 | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-14
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: _____
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/9/14
DATE FINISH: 4/9/14
DRILLER: M. Gonzalez
OVERSIGHT: C. Subbath

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | HOLE DIA. | CASING INSTALL | CASING DIA. | TEMP / PERM | CASING TYPE |
|------|----------------|-------|--------------|-----------|----------------|-------------|-------------|-------------|
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| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE |
|---------------|-------------------------------|----------------------------|---------------|--------------------|
| | 0.1 | | | |
| | | | | |
| | 5.7 | | | |
| | | | | |
| 5.0 | 1.4 | | | |
| | 0.0 | | | |
| | 0.0 | | | |
| 10.0 | 0.0 | | | |
| | 0.0 | | | |
| | 0.0 | | | |
| | 0.0 | | | |
| 15.0 | 0.0 | | | |
| | 0.0 | | | |
| | 0.0 | | | |
| | 0.0 | | | |
| 20.0 | 0.0 | | | |

FIELD CLASSIFICATION AND REMARKS

SOIL CLASSIFICATION: USCS

SAND (SW), fill, brown, fine to medium grained, few clay, well graded, no chemical odor, moist

SANDY SILT (ML), fill, light red, stiff, little fine to coarse sand, slight chemical odor, damp

SAND (SW), fill, brown, fine to medium grained, few clay, well graded, slight chemical odor, damp

SANDY SILT (ML), fill, tan, stiff, little fine sand, plant roots, no chemical odor, damp

SANDY SILT (ML), fill, as above

SANDY SILT (ML), Saprolite light red to tan, soft to medium stiff, micaceous, no chemical odor, saturated at 16 ft.

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-14PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|--|--|
| 20.0 | 0.0 | | | | <i>SANDY SILT (ML), Saprolite, tan, soft, little fine to median sand, granitic texture, no chemical odor, saturated</i> | | |
| | 0.0 | | | | | | |
| | 0.0 | | | | | | |
| | | | | | | | |
| | 0.12 | | | | | | |
| 25.0 | | | | | <i>Boring terminated at 25 ft.</i> | | |
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| 30.0 | | | | | | | |
| 35.0 | | | | | | | |
| 40.0 | | | | | | | |
| 45.0 | | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | | DESCRIPTIONS | | NOTES | |
|-----------|--------------|-----------|--------------|-------------|-------------|--------------|---------|-------|-----------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY | 50-100% | WD | WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME | 30-45% | NE | NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE | 15-25% | UR | NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW | 5-10% | NR | NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE | <5% | | |
| | | 31+ | HARD | | | | | | |



Test Boring Report

BORING NO. TMW-15
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: _____
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 8040 DT

PROJECT NO: _____
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/9/14
DATE FINISH: 4/9/14
DRILLER: M. Gonzales
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | 0.3 | | | | SAND AND GRAVEL (SW), fill, fine grained to cobble size, well graded, no chemical odor, damp. |
| | 0.3 | | | | SANDY SILT (ML), fill, light red, stiff, little fine to medium sand, no chemical odor, damp. |
| | 0.0 | | | | SAND (SW), fill, brown, fine to medium grained, few clay, no chemical odor, damp |
| 5.0 | | | | | |
| | 0.4 | | | | SAND (SW), fill, dark gray, fine to medium grained, few clay, well graded, no chemical odor, moist |
| | 0.2 | | | | |
| 10.0 | | | | | |
| | 0.3 | | | | SAND (SW), as above, saturated |
| | 0.4 | | | | SANDY SILT (ML), ^{sublithite} light red, soft, little fine to medium sand, micaceous, no chemical odor, saturated |
| 15.0 | | | | | |
| | 0.0 | | | | SANDY SILT (ML), ^{sublithite} tan, soft, little fine sand, micaceous, no chemical odor, saturated |
| | 0.0 | | | | |
| 20.0 | | | | | |

SOIL CLASSIFICATION: USCS

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-15
PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| 20.0 | 0.0 | | | | SANDY SILT (ML), ^{Supralite} tan, soft, little fine sand, micaceous, granitic, no chemical odor, saturated. |
| | | | | | |
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| | 0.0 | | | | |
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| 25.0 | | | | | Boring terminated at 25 ft |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |
| | | | | | MOSTLY 50-100% | |
| | | | | | SOME 30-45% | |
| | | | | | LITTLE 15-25% | |
| | | | | | FEW 5-10% | |
| | | | | | TRACE <5% | |

(MW-7)

AECOM

Test Boring Report

BORING NO. TMW-16 (MW7)
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 4/11/14
DATE FINISH: 4/11/14
DRILLER: _____
OVERSIGHT: C. Subbath

| GROUNDWATER | | | DRILLING INFORMATION | | | |
|-------------|----------------|-------|----------------------|--|----------------|-------------|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | TEMP / PERM |
| | | | HOLE DIA. | | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | 116 | | | | |
| | 0.3 | | | | |
| | 0.4 | | | | |
| 5.0 | 116 | | | | SAND (sw), Fill, brown, fine to medium grained, low clay, well graded, damp |
| | 0.3 | | | | |
| | 0.4 | | | | SANDY SILT (ML), Fill, red to tan, stiff, little fine sand, roots at 8 ft, no chemical odor, damp |
| | | | | | |
| 10.0 | 1.5 | | | | SANDY SILT (ML), Saprolite, tan to gray, medium stiff, little fine sand, granitic texture, no chemical odor, moist |
| | 0.0 | | | | |
| | 0.0 | | | | |
| | 0.0 | | | | |
| 15.0 | 0.0 | | | | SANDY SILT (ML), Saprolite, as above except saturated |
| | 0.1 | | | | |
| | 0.2 | | | | |
| | 0.2 | | | | |
| | | | | | |
| 20.0 | 0.2 | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-3 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

(MW-9)

AECOM **Test Boring Report** BORING NO. TMW-17 (MW9)
 PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
 CLIENT: _____
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 8040 DT

PROJECT NO: _____
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 4/14/14
 DATE FINISH: 4/14/14
 DRILLER: M. Gonzalez
 OVERSIGHT: C. Suddeth

| GROUNDWATER | | | DRILLING INFORMATION | | | | | |
|-------------|----------------|-------|----------------------|--|----------------|--|-------------|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | | TEMP / PERM | |
| | | | HOLE DIA. | | CASING DIA. | | CASING TYPE | |
| | | | TOTAL DEPTH | | CASING DEPTH | | GROUT TYPE | |
| | | | SAMPLING | | HAMMER WT | | HAMMER FALL | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|--|
| | | | | | SOIL CLASSIFICATION: USCS | |
| 5.0 | | | | | SAND (SW), brown, fill, fine to medium grained, well graded, no chemical odor, damp | |
| | | | | | SANDY SILT (ML), fill, stiff, red, little fine sand, no chemical odor, damp | |
| | 0.0 | | | | CLAYEY SAND (SC), fill, brown, fine to medium grained, well graded, little clay, vegetation at 6 ft, no chemical odor, damp | |
| | | | | | SAND (SW), fill, fine to medium grained, well graded, no chemical odor, damp, plant roots | |
| | 0.0 | | | | SILTY CLAY (CL), fill, stiff, slightly plastic, few medium sand, little silt, no chemical odor, damp | |
| | | | | | | |
| 10.0 | | | | | | |
| | | | | | | |
| | | | | | SANDY SILT (ML), red to gray saprolite, medium stiff, little fine sand, no chemical odor, moist. | |
| | | | | | | |
| 15.0 | | | | | | |
| | | | | | | |
| | | | | | SANDY SILT (ML), saprolite, light red to gray, soft, little fine sand, no chemical odor, wet at 17 ft. | |
| | | | | | | |
| 20.0 | | | | | | |
| | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMMW-19
 PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
 CLIENT: Phillips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe

PROJECT NO: 6051838C
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 4/14/14
 DATE FINISH: 4/14/14
 DRILLER: _____
 OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|
| | | | | | SAND (SW), Fill, brown, fine to medium grained, little clay, well graded, no chemical odor, damp |
| | 0.5 | | | | SAND AND GRAVEL (SW), Fill, white, fine grained to gravel, no chemical odor, dry |
| | 5.0 | | | | SANDY SILT (ML), Fill, red, medium stiff, little fine to medium sand, no chemical odor, moist |
| 5.0 | | | | | X |
| | 0.4 | | | | |
| | 0.8 | | | | |
| | 0.1 | | | | CLAYEY SAND (SC), Fill, brown, fine to medium grained, little clay, well graded, degraded chemical odor at 8 ft. |
| 10.0 | | | | | X |
| | 0.3 | | | | SAND (SW), Fill, gray, fine to medium grained, well graded, degraded chemical or sewer odor, saturated, plant roots. |
| | 0.4 | | | | |
| | 0.6 | | | | |
| 15.0 | | | | | CLAYEY SAND (SC), Fill, gray fine to medium grained, well graded, moist |
| | 0.4 0.3 | | | | |
| | 0.3 | | | | |
| | 0.3 | | | | |
| | 0.4 | | | | SAND (SW), Fill, tan, fine to medium grained, plant roots, well graded, no chemical odor, saturated |
| 20.0 | | | | | SANDY SILT (ML), Saprolite, tan, stiff, little fine sand, no chemical odor, saturated |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. TMW-18
 PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|--|--|--|
| 20.0 | 0.1 | | | | SANDY SILT (ML), Saprolite, tan, stiff, little fine to medium sand, no chemical odor, saturated. | | |
| | 0.2 | | | | | | |
| | 0.4 | | | | | | |
| | | | | | | | |
| | 0.3 | | | | | | |
| 25.0 | 0.4 | | | | | | |
| | 0.4 | | | | | | |
| | | | | | | | |
| | 0.1 | | | | | | |
| | 0.3 | | | | | | |
| 30.0 | | | | | Drilling refusal at 30 ft. | | |
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| 40.0 | | | | | | | |
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| 45.0 | | | | | | | |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |

SI BORING LOGS



Test Boring Report

BORING NO. B-20
PAGE 1 OF 1

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Phillips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/20/14
DATE FINISH: 5/20/14
DRILLER: G. Winbourn
OVERSIGHT: C. Suddeth

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COVP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color red SAMPLE NUMBER ppm | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|-----------------------------------|--------------------|--|
| | 0.0 | | ND | | SAND (SW) Fill, brown, fine to medium grained, well graded, damp |
| | 0.0 | | ND | B-20-2 | SANDY SILT (ML), Fill, red, stiff, little fine sand, no chemical odor, damp. |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| 5.0 | 0.0 | | ND | | CLAYEY SAND (SC), Fill, brown, fine to medium grained, well graded, no chemical odor, damp. |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| 10.0 | 0.0 | | ND | B-20-11 | CLAYEY SAND (SC), Fill, tan to brown, fine to medium grained, well graded, no chemical odor, damp. |
| | 1.8 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| 15.0 | 0.0 | | ND | B-20-15 | Boring terminated at 15 ft |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

Test Boring Report

BORING NO. B-21
PAGE 1 OF 1

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/20/14
DATE FINISH: 5/20/14
DRILLER: G. W. A. Bourn
OVERSIGHT: C. S. Sudath

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | Color Test SAMPLE NUMBER ppm | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|------------------------------|-----------------------------|--|
| | 0.0 | | ND | B-21-2 175 | SANDY SILT (ML), Fill, red, stiff, little fine sand, damp |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| 50 | 0.0 | | ND | B-21-9 1135 | SAND (SW), Fill, gray, fine to medium grained, well graded, damp SANDY SILT (ML) Fill, tan, stiff, little fine sand, no chemical odor, damp |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 1.5 | | ND | | |
| 100 | 0.0 | | ND | B-21-15 1145 | SAND (SW), Fill, brown, fine to medium, plant roots, well graded, damp SANDY SILT (ML) Fill, tan, medium stiff, little fine sand, no chemical odor, damp. |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| | 0.0 | | ND | | |
| 150 | 0.0 | | ND | Boring terminated at 15 ft. | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-22
PAGE 1 OF 1

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/20/14
DATE FINISH: 5/20/14
DRILLER: Ge. Winbourn
OVERSIGHT: C. Suddeth

| GROUNDWATER | | | DRILLING INFORMATION | | | | | |
|-------------|----------------|-------|----------------------|-----------|----------------|-------------|--|--|
| DATE | HRS AFTER COMP | WATER | DRIL. METHOD | HOLE DIA. | CASING INSTALL | TEMP / PERM | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | 6 in. EC SAMPLE NUMBER (ppm) | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|------------------------------|--------------------|---|
| 0.0 | | | | | SAND (sw) Fill, brown, fine to medium grained, well graded, damp. B-22-7 1400 |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 5.0 | | | | | SANDY SILT (ML), Fill, red, stiff, little fine sand, damp. B-22-8 1410 |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 10.0 | | | | | SAND (sw), Fill, brown, fine to medium grained, well graded, no chemical odor, damp. B-22-15 1415 |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 15.0 | | | | | SANDY SILT (ML), Fill, red to tan, medium stiff, little fine sand, no chemical odor, damp. Boring terminated at 20 ft. |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 0.0 | | | ND | | |
| 20.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-3 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |

Test Boring Report

BORING NO. B-23
PAGE 1 OF 1

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/20/14
DATE FINISH: 5/20/14
DRILLER: G. Winborn
OVERSIGHT: C. Suddeth

GROUNDWATER **DRILLING INFORMATION**

| DATE | HRS AFTER COMP | WATER | DRIL. METHOD | HOLE DIA | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------|----------------|-------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color Tech SAMPLE NUMBER (PPM) | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|--------------------------------|--------------------|--|--|
| | | | | | SOIL CLASSIFICATION: USCS | |
| 5.0 | 0.0 | | ND | B-23-2 1810 | SAND (SW), Fill, brown, fine to medium grained, well graded, damp. | |
| | 0.0 | | ND | | SANDY SILT (ML), Fill, red, stiff, little fine sand, damp. | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | CLAYEY SAND (SC), Fill, gray, fine to medium grained, well graded, damp. | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| 10.0 | 0.0 | | ND | B-23-8 1630 | SAND (SP), Fill, gray, fine grained, poorly graded, damp. | |
| | 0.0 | | ND | | CLAYEY SILT (MH), Fill, tan to red, stiff, little clay, damp. | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| 15.0 | 0.0 | | ND | | SANDY SILT (ML), Fill, red to tan, medium stiff, little fine sand, damp. | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| | 0.0 | | ND | | | |
| 20.0 | | | | | Boring terminated at 15 ft. | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | MOSTLY | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SOME | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | LITTLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | FEW | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO B 24
PAGE 1 OF 2

PROJECT: Shakespeare Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/20/14
DATE FINISH: 5/20/14
DRILLER: G. Winbourn
OVERSIGHT: C. Suddeth

GROUNDWATER **DRILLING INFORMATION**

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | PCF LAB. NUMBER (PPM) | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|-----------------------|--------------------|--|
| 4.3 | | | | | SANDY SILT (ML), Fill, red to gray, stiff, little fine sand, damp. |
| 1.2 | | | | | |
| 1.0 | | | | 0.0 | |
| 5.7 | | | | 0.0 | CLAYEY SAND (SC), Fill, fine to medium grained, little clay, well graded, damp |
| 3.5 | | | B-24-4 1845 | | |
| 1.0 | | | | 0.0 | SAND (SW), Fill, dark gray, fine to medium grained, well graded, moist. |
| 7.3 | | | | | |
| 9.1 | | | | 0.5 | |
| 2.1 | | | B-24-2 1855 | | CLAYEY SAND (SC), Fill, tan, fine to medium grained, well graded, moist. wet to saturated at 12 ft. |
| 3.0 | | | | 0.2 | |
| 0.6 | | | | | |
| 1.7 | | | | 0.0 | SANDY SILT (ML), Saprolite, tan to gray, medium stiff, little fine sand, saturated |
| 1.4 | | | | | |
| 0.6 | | | | 0.5 | |
| 0.1 | | | | | SANDY SILT (ML) Saprolite, as above. |
| 4.2 | | | | 1.0 | |
| 2.2 | | | | | |
| 1.1 | | | | | |
| 3.5 | | | | | |
| 0.6 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-3 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-25
PAGE 1 OF 2

PROJECT: ShaKespere Composite Structures - Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/21/14
DATE FINISH: 5/21/14
DRILLER: G. Winburn
OVERSIGHT: C. Suddeth

GROUNDWATER DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|------------------|----------------|-------------|
| | | | HOLE DIA | CASING DIA | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING LOGS | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | PCF SAMPLE RANGE (PPM) | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: USCS |
|---------------|-------------------------------|----------------------------|---------------------------------|--------------------|---|
| 0.6 | | | | | SAND (SW), Fill, brown, fine to medium grained, well graded, damp |
| 0.4 | | | ND | | SANDY SILT (ML), Fill, red, stiff, little fine sand, damp |
| 1.5 | | | | | |
| 0.9 | | | ND | B-25-4 1015 | |
| 0.4 | | | | | |
| 0.5 | | | ND | | |
| 0.7 | | | | | CLAYEY SAND (SC), brown, Fill, fine to medium grained, well graded, damp. |
| 0.9 | | | ND | | |
| 0.7 | | | | | SANDY SILT (ML), Fill, red, stiff, little fine sand, damp |
| 2.1 | | | 0.12 | B-25-10 1025 | SAND (SW), Fill, brown, fine to medium grained, well graded, moist |
| 1.3 | | | | | CLAYEY SAND (SC), Fill, brown, fine to medium grained, little clay, moist |
| 1.0 | | | ND | | SANDY SILT (ML), Fill, tan, medium stiff, little fine sand, moist. |
| 0.8 | | | | | |
| 0.6 | | | 0.12 | | SANDY SILT (ML), Saprolite, tan to red, medium stiff, wet at 15 ft. |
| 0.9 | | | | | |
| 2.1 | | | 0.15 | | SANDY SILT (ML), Saprolite, as above. |
| 1.6 | | | | | |
| 1.7 | | | | | |
| 1.5 | | | 1.10 | | |
| 0.8 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | |
|---------------|-------------------------------|----------------------------|---------------|--------------------|---|--|--|
| 20.0 | 1.1 | | 2.5 | B-25-25 1070 | SANDY SILT (ML), Saprolite, tan to gray, soft, little fine sand, saturated. | | |
| | 1.6 | | | | | | |
| | 2.0 | | | | | | |
| | 1.1 | | | | | | |
| | 1.3 | | | | | | |
| 25.0 | | | | | | | |
| 30.0 | | | | | | | |
| 35.0 | | | | | | | |
| 40.0 | | | | | | | |
| 45.0 | | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

Test Boring Report

BORING NO. B-26
PAGE 1 OF 2

PROJECT: Source Area Invest. - Sharkespace Newberry
CLIENT: Philips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 6620

PROJECT NO: 60318382
LOCATION: _____
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/22/14
DATE FINISH: 11
DRILLER: C. Winbourn
OVERSIGHT: S. Cross

| GROUNDWATER | | | DRILLING INFORMATION | | | | |
|-------------|----------------|-------|----------------------|--|----------------|-------------|-------------|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | TEMP / PERM | |
| | | | HOLE DIA. | | CASING DIA. | | CASING TYPE |
| | | | TOTAL DEPTH | | CASING DEPTH | | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|--|
| | | | | | SOIL CLASSIFICATION: | |
| 5 | 0.4 | | | | (SP) POORLY GRADED SAND - Pale brown, moist, mostly med to fine sand, red dense | |
| | 0.8 | | 0.0 | | (SC) CLAYEY SAND - Reddish brown, mostly med to fine sand, few chy, trace silt, stiff | |
| | 0.2 | | 0.0 | | | |
| | 3.2 | | 0.0 | B-26-4 | similar to above | |
| | 0.0 | | 0.0 | | | |
| 10 | 0 | | 0.0 | | | |
| | 1.3 | | 0.0 | 7.0' | | |
| | 2.1 | | 0.0 | | similar to above | |
| | 1.7 | | 0.0 | | | |
| | 1.0 | | 0.0 | | OK similar to above except pale brown on | |
| 14 | 2.5 | | 0.0 | | | |
| | 1.6 | | 0.0 | | | |
| | 1.1 | | 0.5 | B-26-14 | (SM-SP) SILTY SAND TO POORLY GRADED SAND Gray to greenish gray, mostly med sand, little silt, few chy, dense, dry to moist | |
| 15 | 0.8 | | 0.5 | | | |
| | 0.5 | | 0.5 | | (OM-SC) Silty to CLAYEY SAND - Brown, mostly med to fine sand, dense, dry, little silt, few chy, dense, dry | |
| 16 | 0.5 | | 0.5 | | | |
| | 0.5 | | 0.5 | | (SM-SC) SILTY TO CLAYEY SAND - Pale yellow to reddish yellow to light gray (mottled), mostly fine sand, little silt, few chy dense, dry to moist | |
| | 0.4 | | | | similar to above except increasing sand less clay | |
| | 0.7 | | | | moist | |
| 20 | 1.0 | | | | | |
| | 1.3 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-27
 PAGE 1 OF 2

PROJECT: Source Investigation - Shakespear Newberry
 CLIENT: Philips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 6620

PROJECT NO: 60318382
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 5/22/14
 DATE FINISH: .
 DRILLER: G. Wimbourn
 OVERSIGHT: S. [unclear]

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS SOIL CLASSIFICATION: |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|
| 50 | 1.0 | | | | (SP) Poorly Graded Sand yellowish red, mostly med to fine sand, few clay, (SM-SC) SILTY TO CLAYEY SAND red to reddish brown to yellowish brown, mostly fine sand, little silt, little clay, dry, dense B-27-4 B-27-5 B-27-6 |
| | 1.0 | | 1.0 | | |
| | 0.1 | | | | |
| | 1.0 | | 1.0 | | |
| | 0.2 | | 1.5 | | |
| | 0.3 | | 1.5 | | |
| | 0.0 | | 1.5 | | |
| | 0.4 | | 0.25 | B-27-8 | |
| 10 | 0.0 | | 1.25 | | (SP) Poorly Graded sand, gray, mostly med sand, few silt (SC) CLAYEY SAND gray to pale brown, mostly fine sand, little to few clay, silt, dense (SP-SC) Poorly Graded SAND - red to yellowish red, mostly med to fine sand, few clay, dense, dry B-27-8 B-27-9 |
| | 0.3 | | ND | | |
| | 2.0 | | 1.5 | | |
| | 0.1 | | 0.5 | | |
| | 0.8 | | 2.30 | | |
| | 0.6 | | 2.30 | | |
| 15 | 5.0 | | 2.75 | B-27-14 | (SM) SILTY SAND yellowish red, to pale yellow, mostly med to fine sand, little silt, trace clay, trace mica, (eolitic granitic structure w/ depth) similar to above B-27-14 |
| | 4.5 | | 2.75 | | |
| | 1.6 | | | | |
| | 0.4 | | | | |
| | 0.3 | | 1.0 | | |
| | 0.1 | | | | |
| 20 | 0.1 | | | | similar to above |
| | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-27a

PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | Mitsubishi Pilot BLOWS PER 6 INCHES | Color SAMPLE NUMBER TCC | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|-------------------------------------|-------------------------|--------------------|--|
| 20.0 | 0.0 | | | | Similar to above except p.c. red to light gray to pale brown |
| | 1.8 | | | | |
| | 0.2 | | 0.5 | | |
| | 1.0 | | | | |
| 25.0 | 0.3 | | NO | B-27-5 | similar to above, wet, soft |
| 30.0 | | | | | |
| 35.0 | | | | | |
| 40.0 | | | | | |
| 45.0 | | | | | |
| 50.0 | | | | | |
| 55.0 | | | | | |
| 60.0 | | | | | |
| 65.0 | | | | | |
| 70.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES | |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% | |
| | | 31+ | HARD | | | | |



Test Boring Report

BORING NO. B-29
 PAGE 1 OF 2

PROJECT: Source Investigation - Shakespeare Newberry
 CLIENT: Philips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 6570

PROJECT NO: 60318382
 LOCATION: Main Bldg
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 5/22/04
 DATE FINISH: 11
 DRILLER: G. Nimbom
 OVERSIGHT: S. Cross

| GROUNDWATER | | | DRILLING INFORMATION | | | | | |
|-------------|----------------|-------|----------------------|--|----------------|-------------|--|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | TEMP / PERM | | |
| | | | HOLE DIA. | | CASING DIA. | CASING TYPE | | |
| | | | TOTAL DEPTH | | CASING DEPTH | GROUT TYPE | | |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | SOIL CLASSIFICATION: |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|----------------------|
| 5 | 1.5 | | | | (SP) Poorly Graded Sand brown to pale red, mostly sandy, med dense, dry | |
| | 1.5 | | 0.5 | | (SC-SM) SILTY TO CLAYEY SAND yellowish red to gray (mottled) mostly fine sand, little clay, little silt, dense | |
| | 1.1 | | 0.5 | | | |
| | 1.1 | | | | (SC-SM) SILTY TO CLAYEY SAND | |
| | 0.4 | | 1.0 | B-28-6 | similar to above | |
| | 0.7 | | | | | |
| | 1.0 | | 1.25 | | | |
| 10 | 0.9 | | | | (SM) SILTY SAND pale brown to pale red, mostly med to fine sand, some silt, trace clay, med dense | |
| | 0.6 | | 2.0 | B-28-10 | | |
| | 0.4 | | | | | |
| | 0.5 | | 1.0 | | similar to above | |
| | 2.1 | | | | | |
| 15 | 0.6 | | 2.0 | B-28-14 | | |
| | 0.4 | | | | similar to above | |
| | 3.5 | | 2.5 | | | |
| | 2.7 | | | | | |
| 20 | 0.1 | | | | (SM-SF) POORLY GRADED SAND WITH SILT yellowish red to pale yellow, mostly med to fine sand, few silt, dense, wet | |
| | 0.4 | | 2.0 | | | |
| | 0.3 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-28PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | Mitsubishi Pilot BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|-------------------------------------|---------------------|---------------------|---|
| 15.0 | 1.3 | | | | <i>(5.4) SILTY SAND Pale yellow to pale brown, mostly fine sand, some silt, loose, wet</i> <i>similar to above</i> |
| 20 | 0.6 | | | <i>1.75 B-28-22</i> | |
| | 1.1 | | | | |
| | 0.4 | | | | |
| | 0.2 | | | | |
| 25.0 | | | <i>NO</i> | | |
| 30.0 | | | | | |
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| 55.0 | | | | | |
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| 60.0 | | | | | |
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| 65.0 | | | | | |
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| | | | | | |
| | | | | | |
| 70.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | | NOTES | | |
|-----------|--------------|-----------|--------------|-------------|--------------|--------|---------|----|-----------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY | 50-100% | WD | WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME | 30-45% | NE | NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE | 15-25% | UR | NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW | 5-10% | NR | NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE | <5% | | |
| | | 31+ | HARD | | | | | | |



Test Boring Report

BORING NO. B-29
 PAGE 1 OF 2

PROJECT: Source Investigation - Newberry
 CLIENT: Philips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 6620

PROJECT NO: 6038382
 LOCATION: Newberry, SC
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 5/23/14
 DATE FINISH: "
 DRILLER: G. Winbourn
 OVERSIGHT: SR

| GROUNDWATER | | | DRILLING INFORMATION | | | | |
|-------------|----------------|-------|----------------------|----------------|-------------|--|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM | | |
| | | | HOLE DIA. | CASING DIA. | CASING TYPE | | |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE | | |
| | | | SAMPLING | HAMMER WT | HAMMER FALL | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | COLOR SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|
| 50 | 0.3 | | | | <p>(SP) Poorly graded sand. reddish yellow yellowish red, mostly med to fine sand, few clay, loose</p> <p>(SC) CLAYEY silty sand red to gray to pale brown mostly fine sand, little clay, few silt, dense</p> |
| | 0 | | NO | | |
| | 0 | | NO | B-29-4 | |
| | 0 | | NO | | |
| | 0 | | NO | | |
| 10 | 0.1 | | | | <p>similar to above</p> |
| | 0.1 | | NO | | |
| | 0.4 | | | | |
| | 0.5 | | 0.2 | B-29-10 | |
| | 0.5 | | | | |
| 15 | 0.9 | | NO | | <p>similar to above except olive green</p> |
| | 1.2 | | | | |
| | 0.5 | | 2.5 | B-29-14 | |
| | 0.9 | | | | |
| | 1.2 | | 3.0 | | |
| 20 | 0.9 | | | | <p>(SM) silty sand pale brown to pale red (mottled), mostly med to fine sand, little silt, trace clay, trace mica, moist, med dense</p> |
| | 3.1 | | >3.0 | B-29-18 | |
| | 2.0 | | | | |
| | 1.2 | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-29
PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | Mitsubishi Pilot BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|-------------------------------------|---------------------|--------------------|---|
| 45.0 | 2.9 | | 73.0 | | similar to above |
| | 0.5 | | | | |
| | 0.2 | | | | |
| | 0.1 | | | | |
| 25.0 | 0.1 | | ND | | similar to above except pale red to pale yellow |
| 50.0 | | | | | |
| 55.0 | | | | | |
| 60.0 | | | | | |
| 65.0 | | | | | |
| 70.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|----------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-30
PAGE 2 OF 2

PROJECT: Source Investigation - Shakespear Newbery
CLIENT: Phillips
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 6620

PROJECT NO: 60318382
LOCATION: Main Bldg
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/23/14
DATE FINISH: 11
DRILLER: C. Wimbrown
OVERSIGHT: S. Ross

| GROUNDWATER | | | DRILLING INFORMATION | | | |
|-------------|----------------|-------|----------------------|----------------|-------------|--|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM | |
| | | | HOLE DIA. | CASING DIA. | CASING TYPE | |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE | |
| | | | SAMPLING | HAMMER WT | HAMMER FALL | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|
| 5 | 2.1 | | 7cc | | (SP) POORLY GRADED SAND pale yellow mostly med sand, few silt, trace clay |
| | 0.9 | | ND | | (SC) CLAYEY SAND Red to reddish brown, mostly med to fine sand, little clay, dense trace silt, dense, dry |
| | 1.3 | | | | |
| | 0.9 | | ND | | |
| | 0.8 | | | | |
| | 7.0 | | 0.2 | | similar to above |
| | 2.8 | | | | |
| 10 | 2.7 | | ND | | similar to above except grayish brown with few clay, trace silt |
| | 1.6 | | | | |
| | 1.0 | | 2.0 | | (SC) CLAYEY SAND light brown to reddish brown, mostly med to fine sand, little clay, trace silt, dense, dry |
| | 1.2 | | | | |
| | 1.1 | | 1.0 | | (ML-CL) SILTY CLAY pale brown to reddish brown (mottled) mostly silt, little clay, trace fine sand, stiff, dry |
| 15 | 1.2 | | | | |
| | 1.0 | | 1.75 | | (SM) SILTY SAND pale yellow to yellow reddish yellow to gray (mottled), mostly fine sand, little silt, few to trace clay, dry dense |
| | 0.7 | | | | |
| | 1.8 | | | | |
| | 0.2 | | >3.0 | | |
| 20 | 0.1 | | | | similar to above except moist to wet, med stiff |
| | 0.1 | | | | |
| | 0.1 | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-30

PAGE 2 OF 2

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | Mitsubishi Pilot BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | | |
|-------------------|-------------------------------|-------------------------------------|---------------------|--------------------------|----------------------------------|---|--------------------|
| | | | | | Soils | Remarks | |
| 50.0 | 0.2 | | 7cc | | (SM) SILTY SAND | pale yellow to yellowish red to yellowish brown, mostly fine sand, little silt, trace clay, wet, soft | |
| 20 | 0.2 | | | | | Trace mica below 19' present below 23' | |
| | 0.1 | | | | | Relict banding / granitic structure below 23' | |
| 25.0 | 0.1 | | | | | | |
| 50.0 | | | | | | Boring Boring Terminated @ 25' | |
| | | | | | | | |
| | | | | | | | |
| 55.0 | | | | | | | |
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| | | | | | | | |
| 60.0 | | | | | | | |
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| 65.0 | | | | | | | |
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| | | | | | | | |
| 70.0 | | | | | | | |
| | | | | | | | |
| BLOWS/FT. DENSITY | | BLOWS/FT. CONSISTENCY | | SAMPLER ID. DESCRIPTIONS | | NOTES | |
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | TRACE <5% | |
| | | 31+ | HARD | | | | |



Test Boring Report

BORING NO. B-22
 PAGE 1 OF 2

PROJECT: AECOM - Source Investigation
 CLIENT: Shaleco - Philips
 CONTRACTOR: HE Drilling
 EQUIPMENT: Geoprobe 6620

PROJECT NO: 00310302
 LOCATION: Main Bldg
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 5/22/14
 DATE FINISH: 11
 DRILLER: A. Nubauer
 OVERSIGHT: S. Ross

GROUNDWATER **DRILLING INFORMATION**

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|--|----------------|-------------|
| | | | HOLE DIA. | | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|----------------------------------|---|
| | | | | | USCS | REMARKS |
| | 2.8 | | | | (SP) POORLY GRADED SAND | pale red to pale yellow, mostly med to fine sand, few silt, med dense. |
| | 0.9 | | ND | | (SM-SC) SILTY TO CLAYEY SAND | pale yellowish red to red to pale brown, mostly med to fine sand, some silt, little clay, dry dense |
| | 1.0 | | ND | B-32-3 | | |
| | 0.3 | | ND | | | |
| 5.0 | 2.0 | | ND | | | similar to above except less sand, more silt |
| | 6.6 | | ND | B-32-7 | | |
| | 1.1 | | ND | | (SP) POORLY GRADED SAND | dk gray to olive gray, mostly med to fine sand, few silt, dry, med dense |
| | 1.8 | | ND | | (SC) CLAYEY SAND | pale brown to reddish brown mostly med to fine sand, little clay, few silt, dense, dry |
| 10.0 | 2.7 | | ND | | | |
| | 5.8 | | ND | B-32-11 | | |
| | 4.1 | | ND | | | similar to above except grades to silty sand (SM) |
| | 1.2 | | ND | | (SM) SILTY SAND | pale red to pale brown to pale green mostly fine sand, little silt, few clay, soft, moist |
| 15.0 | 0.6 | | ND | | | |
| | 2.4 | | ND | | | similar to above |
| | 0.7 | | ND | | | |
| | 0.3 | | ND | | | |
| | 0.9 | | ND | | | |
| | 0.0 | | ND | | | similar to above with relict granitic structure evident, wet |
| 20.0 | 0.0 | | ND | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | COLOR SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|---|
| 20.0 | EB | | 252 | | <p>(SM) SILTY SAND Pale brown to pale red (mottled) mostly med to fine sand, some silt, trace clay, wet, soft</p> <p>(SP-SM) POORLY GRADED SAND WITH SILT pale brown mostly med to fine sand, little to few silt, trace clay, trace mica, soft, wet</p> |
| | 0.0 | | | | |
| | 0.2 | | | | |
| | 0.2 | | | | |
| | 0.3 | | ND | | |
| 25.0 | | | | | Boring Terminated @ 25' |
| 30.0 | | | | | |
| 35.0 | | | | | |
| 40.0 | | | | | |
| 45.0 | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|-------------|--------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. 8-33
 PAGE 1 OF 2

PROJECT: Source Investigation
 CLIENT: Shakespeare Phillips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 6620

PROJECT NO: 6031838E
 LOCATION: Outside Main Bldg
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 5/29/14
 DATE FINISH: 11
 DRILLER: G. Winbourn
 OVERSIGHT: S. Ross

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|
| | | | <u>Tec</u> | |

FIELD CLASSIFICATION AND REMARKS

SOIL CLASSIFICATION:

| | | | | |
|-----------|------------|--|-----------|--|
| | | | | <u>Topsoil</u> |
| | <u>1.1</u> | | | |
| | <u>0.6</u> | | <u>ND</u> | <u>(2-3) CLAYEY SAND red to pink red to light brown</u> |
| | <u>0.4</u> | | | |
| | <u>0.1</u> | | <u>ND</u> | |
| <u>5</u> | <u>1.1</u> | | | <u>similar to above</u> |
| | <u>1.5</u> | | <u>ND</u> | <u>B-33-6</u> |
| | <u>0.4</u> | | | |
| | <u>1.0</u> | | <u>ND</u> | |
| | <u>0.2</u> | | | <u>(3m) SILTY SAND Gray, mostly med to fine sand, some silt, trace clay, (trace organic material (bark, etc) @ 9.0'), med dense, moist</u> |
| <u>10</u> | <u>1.1</u> | | <u>ND</u> | |
| | <u>2.7</u> | | <u>ND</u> | <u>B-33-12</u> |
| | <u>0.3</u> | | | |
| | <u>0.7</u> | | <u>ND</u> | <u>(5-6m) CLAYEY TO SILTY SAND, Gray to pink red (mottled)</u> |
| <u>15</u> | <u>0.7</u> | | <u>ND</u> | <u>B-33-15</u> |
| | <u>0.0</u> | | <u>ND</u> | |
| | <u>0.0</u> | | | |
| | <u>0.0</u> | | | |
| | <u>0.0</u> | | | <u>(5m) SILTY SAND Gray to light gray, mostly med to fine sand, some silt, few clay, med dense, wet</u> |
| <u>20</u> | <u>0.5</u> | | <u>ND</u> | <u>light greenish gray</u> |
| | | | | <u>similar to above except trace mica</u> |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. 0
PAGE OF

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 8 INCHES | Color SAMPLE NUMBER Tel | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|-------------------------|--------------------|---|--|
| | | | | | | |
| 20.0 | 2.2 | | | | <i>(SM) Silty sand lite brown</i> | |
| | 0.6 | | | | | |
| | 4.2 | | | | | |
| | 1.1 | | | | | |
| | 9.5 | | | | | |
| 25.0 | | | <i>0.2</i> | <i>B-33-25</i> | <i>poorly Graded Sand w/ silt gpk red to gpk brown,</i> | |
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| 45.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|--------------|--------------------|-------------|--------------|-------------------------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS | SPLIT SPOON | MOSTLY 50-100% WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST | SHELBY TUBE | SOME 30-45% NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G | GRAB SAMPLE | LITTLE 15-25% UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC | MACRO-CORE | FEW 5-10% NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 31+ | VERY STIFF HARD | | TRACE <5% | |



Test Boring Report

BORING NO. B-34
 PAGE 1 OF 2

PROJECT: Source Investigation
 CLIENT: Shakespeare - Phillips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 6610

PROJECT NO: 60318582
 LOCATION: Pale Windows Bldg
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: 5/25/14
 DATE FINISH: "
 DRILLER: G. Wimbrown
 OVERSIGHT: S. Goss

| GROUNDWATER | | | DRILLING INFORMATION | | | |
|-------------|-----|-------|----------------------|--|--------------|-------------|
| DATE | HRS | WATER | METHOD | | CASING | TEMP / PERM |
| | | | HOLE DIA. | | CASING DIA. | CASING TYPE |
| | | | DEPTH | | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | Color SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS | |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|------|
| | | | | | SOIL CLASSIFICATION: | USCS |
| 0 | | 1 | Te | 1-3 | (sc-sm) Concrete | |
| 1.2 | | ND | | B-34-2 | mostly med to fine sand, little silt, few clay, dense, dry | |
| 1.0 | | ND | | | | |
| 5.0 | | | | | No recovery | |
| 10.0 | | | | B-34-10 | (sc-sm) CLAYEY TO SILTY SAND | |
| | | | | | reddish yellow, mostly med sand, little clay, few silt, med dense | |
| | | | | B-34-13 | | |
| | | | | | similar to above | |
| 15.0 | | | | | (sm) SILTY SAND | |
| | | | | | reddish yellow, mostly med to fine sand, with some silt, few clay, trace mica, wet, med dense. Streaks of dk brown through this interval appeared to be weathered zones of mica | |
| 20.0 | | | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-34
 PAGE 2 OF 2

PROJECT: Source Investigation
 CLIENT: Shakespeare - Philips
 CONTRACTOR: AE Drilling
 EQUIPMENT: Geoprobe 6610

PROJECT NO: _____
 LOCATION: _____
 ELEVATION: _____
 NORTHING: _____
 EASTING: _____
 DATE START: _____
 DATE FINISH: _____
 DRILLER: _____
 OVERSIGHT: _____

GROUNDWATER

DRILLING INFORMATION

| DATE | HRS AFTER COMP | WATER | DRILL METHOD | CASING INSTALL | TEMP / PERM |
|------|----------------|-------|--------------|----------------|-------------|
| | | | HOLE DIA. | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | SAMPLE NUMBER | SAMPLE DEPTH RANGE |
|---------------|-------------------------------|----------------------------|---------------|--------------------|
|---------------|-------------------------------|----------------------------|---------------|--------------------|

FIELD CLASSIFICATION AND REMARKS

SOIL CLASSIFICATION: USCS

| | | | | |
|------------|-----|--|--|--|
| 25 6.0 | 0.7 | | | <u>(SM) SILTY SAND</u> Pale brown, mostly med to fine sand, some silt, trace clay, trace mica, wet, soft (black, pale brown) |
| | 0.5 | | | |
| | 0.0 | | | |
| | 0.8 | | | |
| 30 10.0 | 0.4 | | | <u>(SM) SILTY SAND</u> Pale brown, mostly med (white, ^{folded} black) sand, little silt, red dinge, moist |
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| 40 20.0 | | | | |
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| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |



Test Boring Report

BORING NO. B-35
PAGE 1 OF 2

PROJECT: Source Investigation
CLIENT: Skidmore - Newberry
CONTRACTOR: AE Drilling
EQUIPMENT: Geoprobe 2610

PROJECT NO: 60318572
LOCATION: Pole Window Bldg
ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE START: 5/28/14
DATE FINISH: "
DRILLER: S. Ross
OVERSIGHT: G. Winborn

| GROUNDWATER | | | DRILLING INFORMATION | | | |
|-------------|----------------|-------|----------------------|--|----------------|-------------|
| DATE | HRS AFTER COMP | WATER | DRILL METHOD | | CASING INSTALL | TEMP / PERM |
| | | | HOLE DIA. | | CASING DIA. | CASING TYPE |
| | | | TOTAL DEPTH | | CASING DEPTH | GROUT TYPE |
| | | | SAMPLING | | HAMMER WT | HAMMER FALL |

| DEPTH IN FEET | ORGANIC VAPOR SCREENING (PPM) | SAMPLER BLOWS PER 6 INCHES | COLOR SAMPLE NUMBER | SAMPLE DEPTH RANGE | FIELD CLASSIFICATION AND REMARKS |
|---------------|-------------------------------|----------------------------|---------------------|--------------------|--|
| | | | <u>TC</u> | | SOIL CLASSIFICATION: USCS |
| | <u>P</u> | | | | <u>Concrete</u> |
| | <u>P</u> | | <u>ND</u> | | <u>(S-SM) CLAYEY TO SILTY SAND</u> yellowish brown, mostly med to fine sand, little silt, few clay, med dense |
| | <u>0</u> | | | | |
| | <u>-</u> | | <u>ND</u> | | |
| | <u>-</u> | | | | |
| 5.0 | <u>0.0</u> | | <u>ND</u> | <u>B-35-6</u> | <u>similar to above</u> |
| | <u>0.1</u> | | | | |
| | <u>0.1</u> | | <u>ND</u> | | |
| | <u>0.5</u> | | | | |
| 10.0 | <u>0.0</u> | | <u>ND</u> | <u>B-35-11</u> | <u>(SM) SILTY SAND</u> reddish yellow, mostly med sand, little silt, moist, med dense |
| | <u>0.4</u> | | | | |
| | <u>0</u> | | <u>ND</u> | | |
| | <u>0</u> | | <u>ND</u> | <u>B-35-14</u> | <u>similar to above</u> |
| | <u>0</u> | | | | |
| 15.0 | <u>0</u> | | <u>NP</u> | | <u>(SM) SALTY SAND</u> reddish yellow, mostly med to fine sand, some silt, few clay, trace mica, wet, med dense. streaks of dk brown (s-sm) through this interval appears to be weathered zones of mica. |
| | <u>0</u> | | | | |
| | <u>0</u> | | | | |
| | <u>0</u> | | | | |
| 20.0 | <u>0</u> | | | | |

| BLOWS/FT. | DENSITY | BLOWS/FT. | CONSISTENCY | SAMPLER ID. | DESCRIPTIONS | NOTES |
|-----------|--------------|-----------|--------------|----------------|----------------|--------------------|
| 0-4 | VERY LOOSE | 0-2 | VERY SOFT | SS SPLIT SPOON | MOSTLY 50-100% | WD WHILE DRILLING |
| 5-10 | LOOSE | 3-4 | SOFT | ST SHELBY TUBE | SOME 30-45% | NE NOT ENCOUNTERED |
| 11-30 | MEDIUM DENSE | 5-8 | MEDIUM STIFF | G GRAB SAMPLE | LITTLE 15-25% | UR NOT READ |
| 31-50 | DENSE | 9-15 | STIFF | MC MACRO-CORE | FEW 5-10% | NR NO RECOVERY |
| 50+ | VERY DENSE | 16-30 | VERY STIFF | | TRACE <5% | |
| | | 31+ | HARD | | | |

