# APPENDIX A
# ANNEX G -1
Continued

**G-1:** Geological Investigations North of the Redline

Please refer to the pdf bookmarks for direct access to each annex

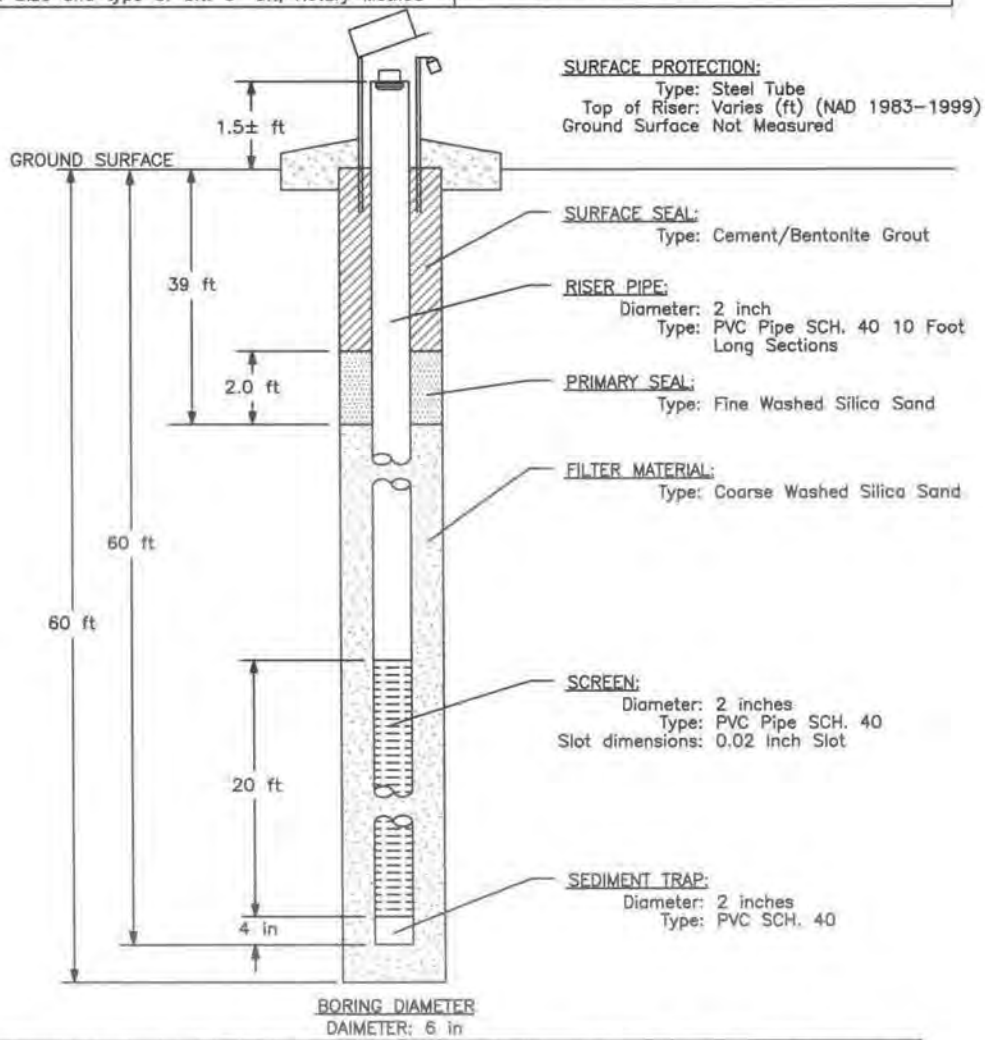
# APPENDIX 2

# APPENDIX 2

## SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 255-260

Hole No. CP05-EAARS-TW-0226

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774070, E 759360 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0226 | | 11. Date Hole: Started 3-10-05 Completed 3-10-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.25 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



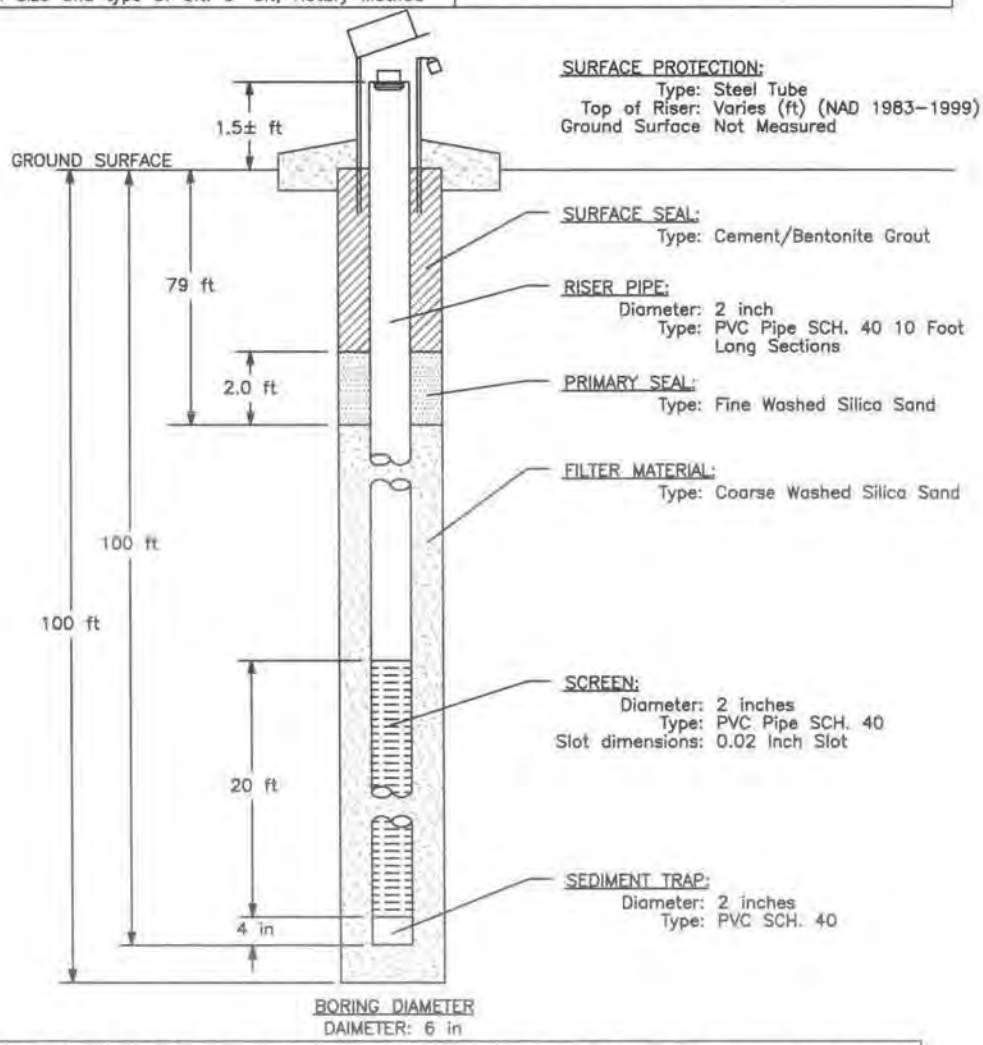

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0227

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774070, E 759350 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0227 | | 11. Date Hole: Started 3-10-05 Completed 3-10-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.38 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

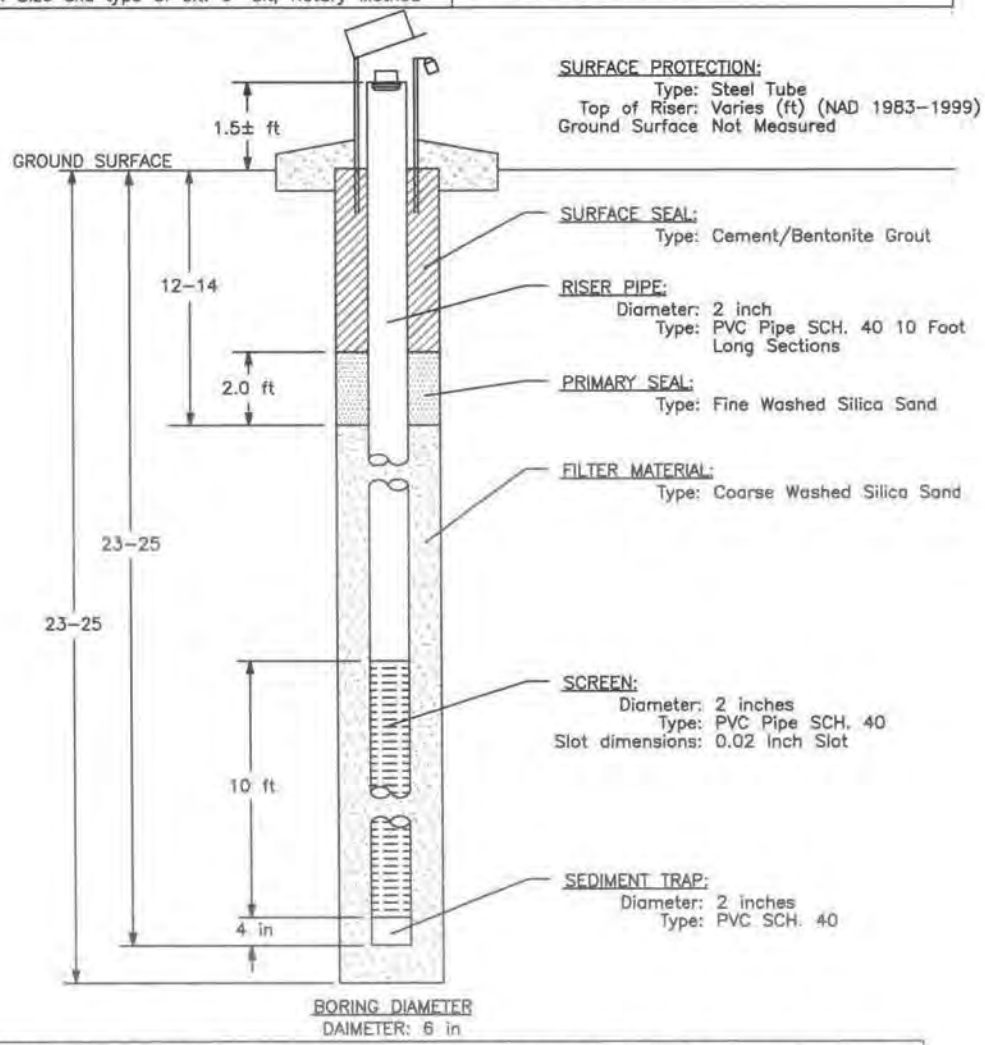



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No. CP05–EAARS–TW–0228

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774070, E 759280 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0228 | | 11. Date Hole: Started 3–10–05 Completed 3–10–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.52 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

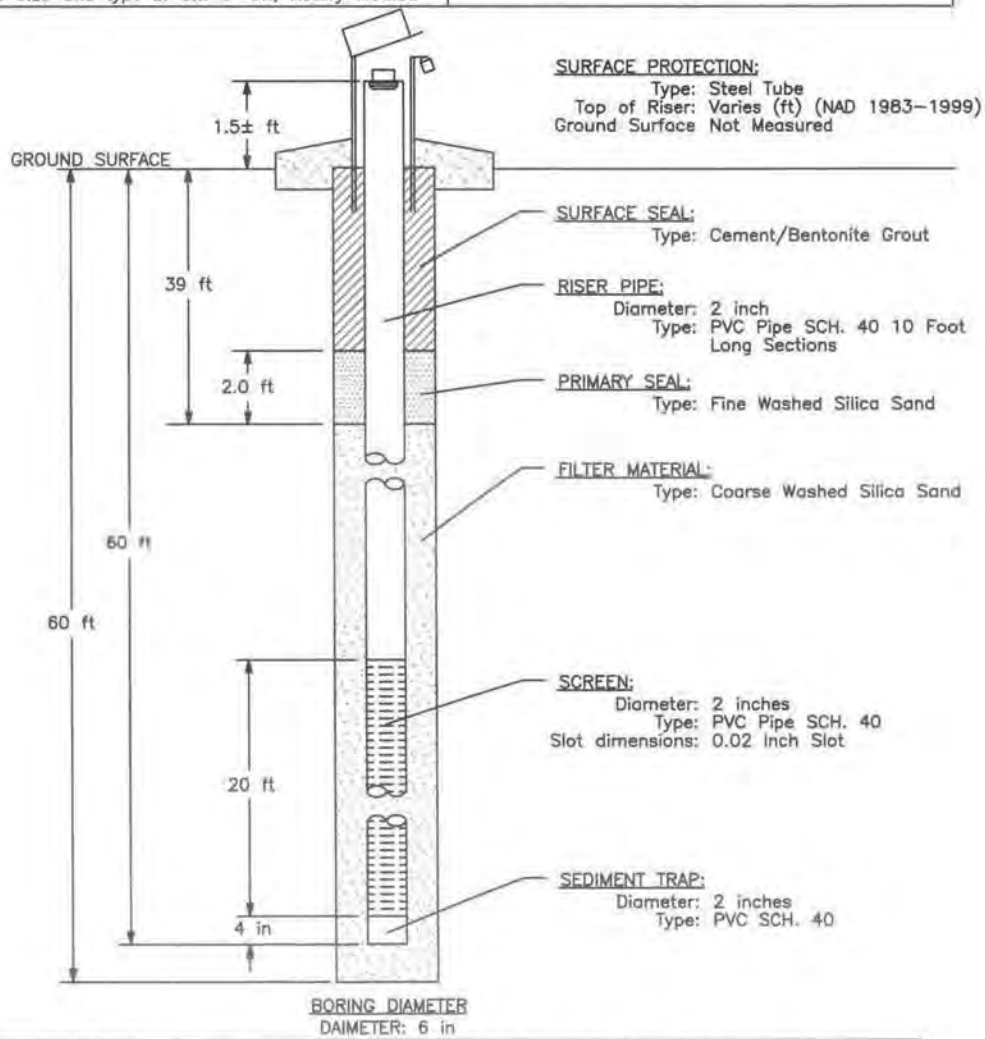



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No, CP05-EAARS-TW-0229

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774070, E 759270 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 229 | | 11. Date Hole: Started 3-10-05 Completed 3-10-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.23 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

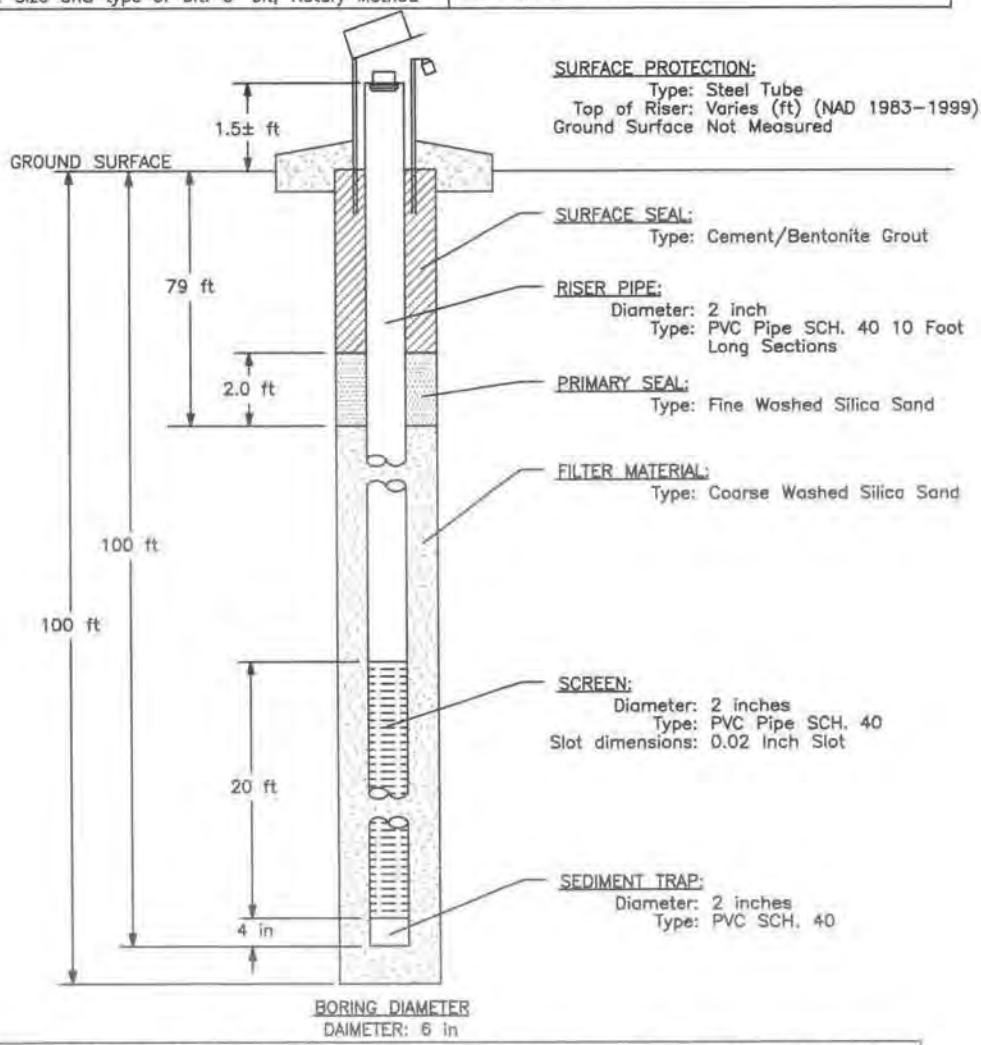



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0230

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774070, E 759260 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0230 | | 11. Date Hole: Started 3-10-05 Completed 3-10-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.47 |
| 6. Depth of Piezometer: 100 ft | | 13. Inspector: Norm Holst |
| 7. Size and type of bit: 6" bit, Rotary Method | | |

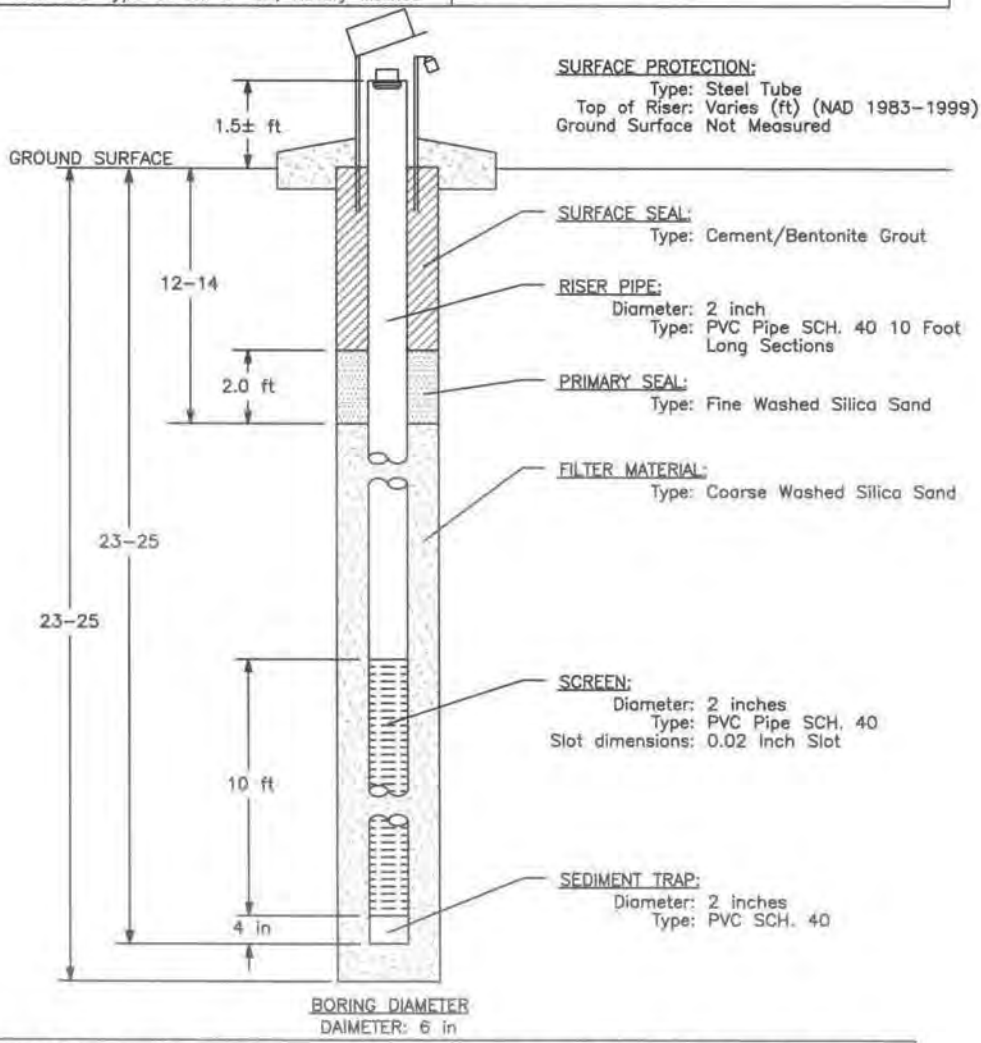



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No, CP05–EAARS–TW–0231

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774415, E 781772 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0231 | | 11. Date Hole: Started 3–21–05 Completed 3–21–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.23 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

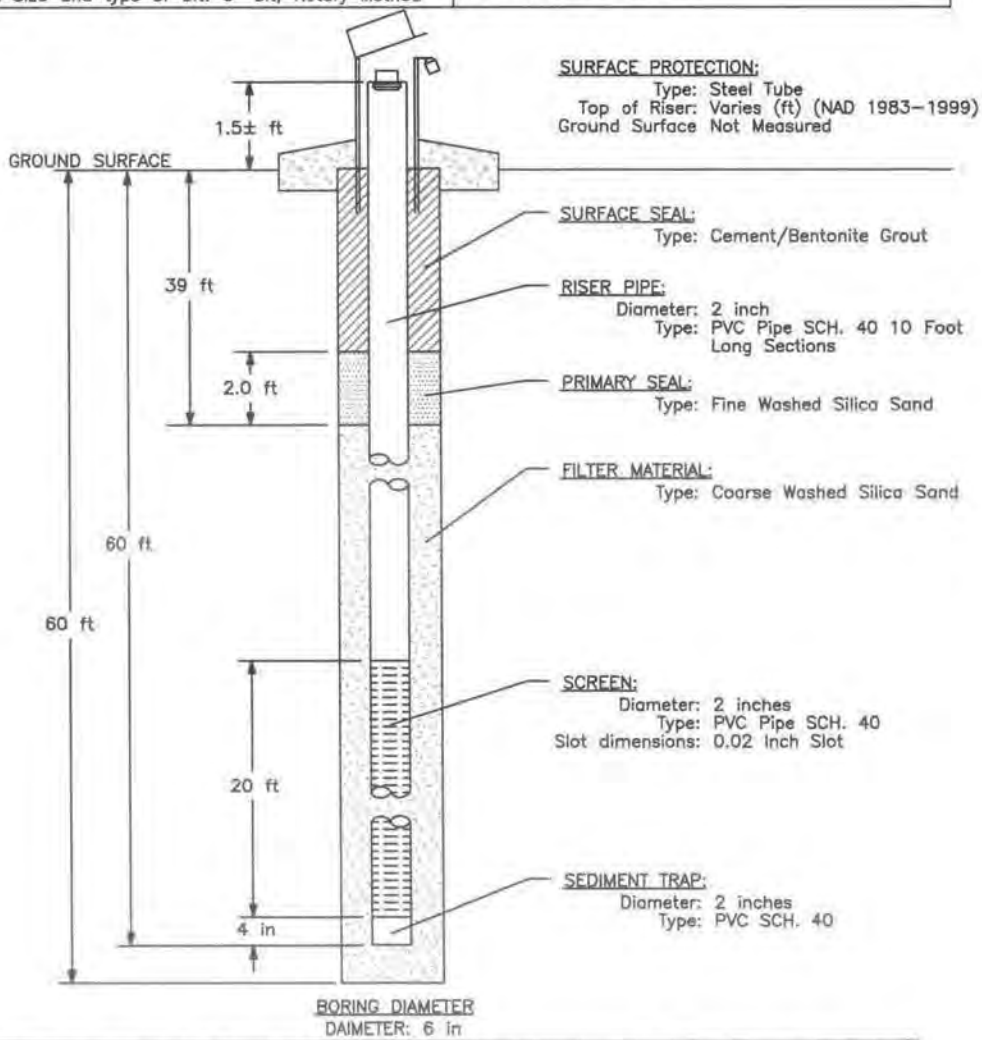



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05–EAARS–TW–0232

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774415, E 761782 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0232 | | 11. Date Hole: Started 3–21–05 Completed 3–21–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.09 |
| 6. Depth of Piezometer: 60 ft | | 13. Inspector: Norm Holst |
| 7. Size and type of bit: 6" bit, Rotary Method | | |

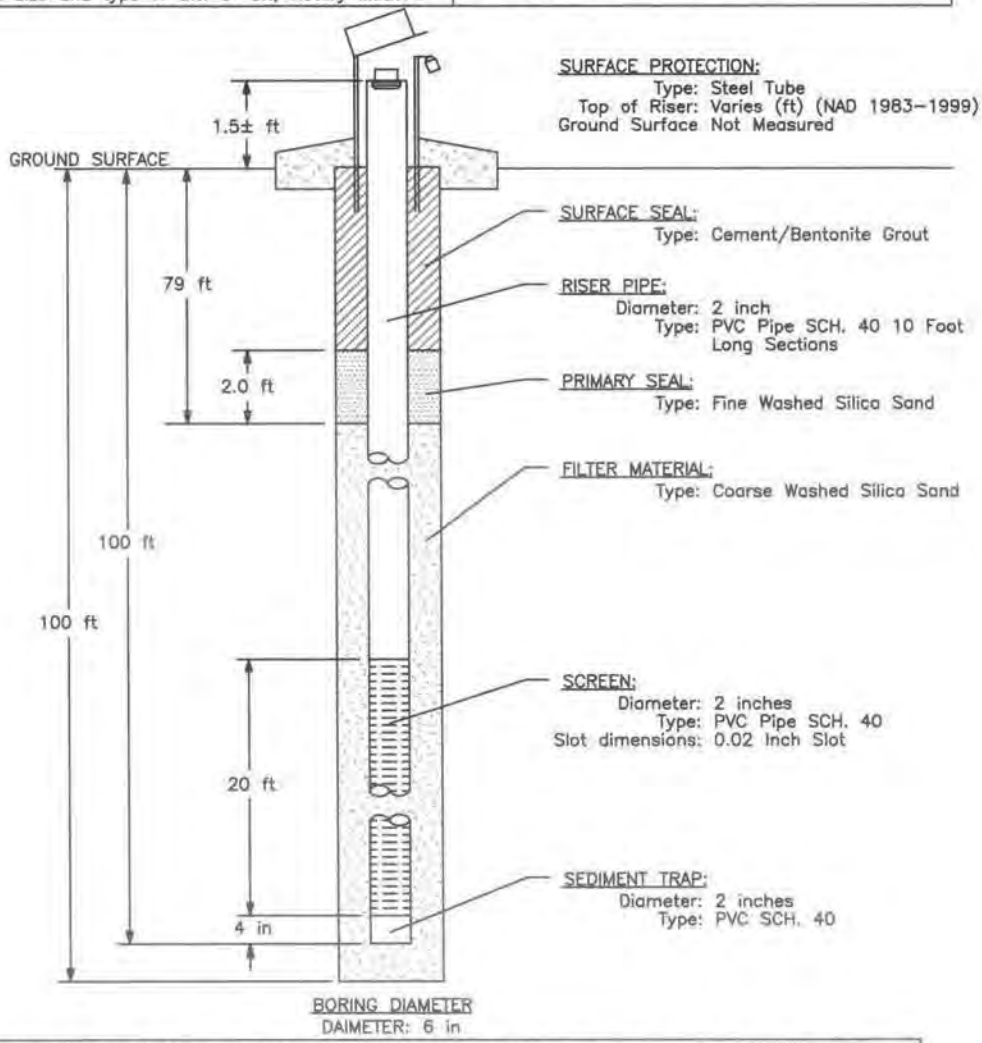



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0233

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774415, E 761792 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0233 | | 11. Date Hole: Started 3-21-05 Completed 3-21-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.06 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

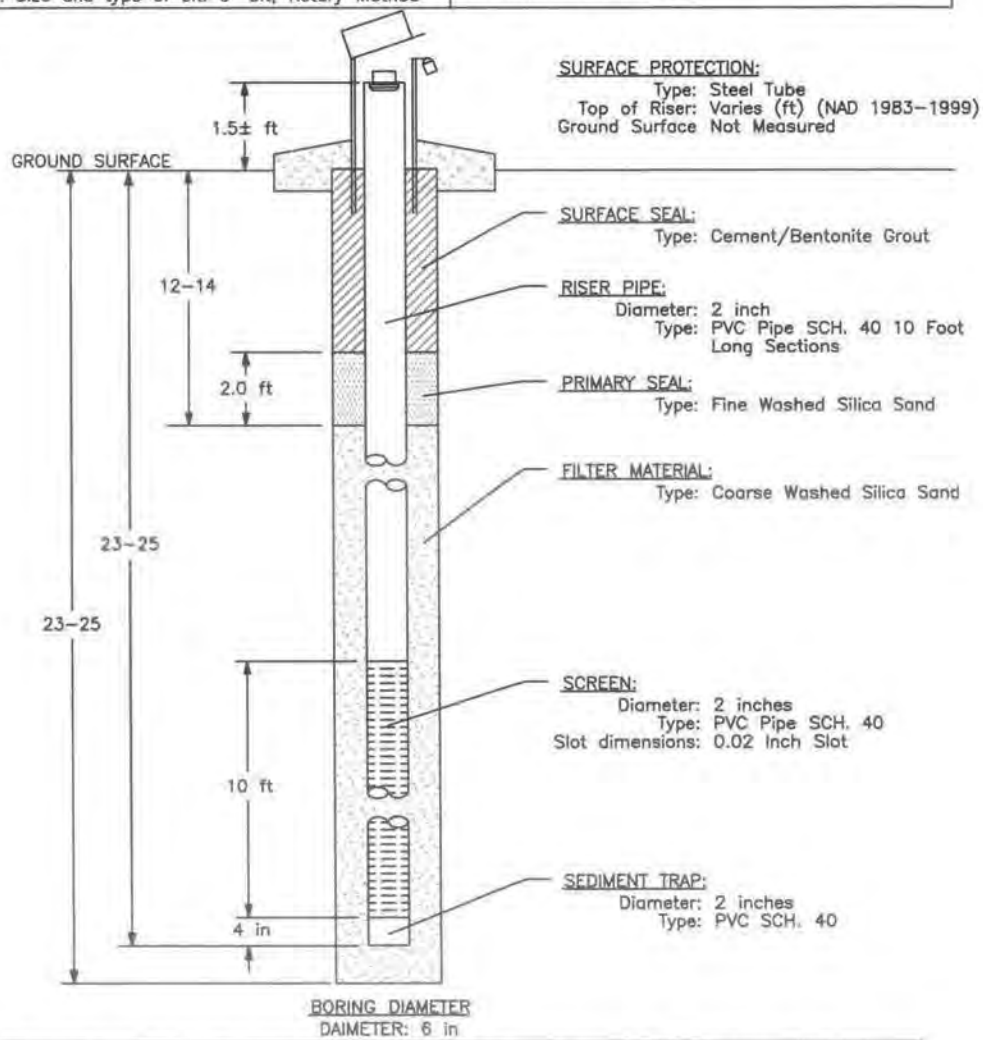



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5 feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No, CP05–EAARS–TW–0234

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774515, E 761772 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0234 | | 11. Date Hole: Started 3–17–05 Completed 3–17–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 10.09 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



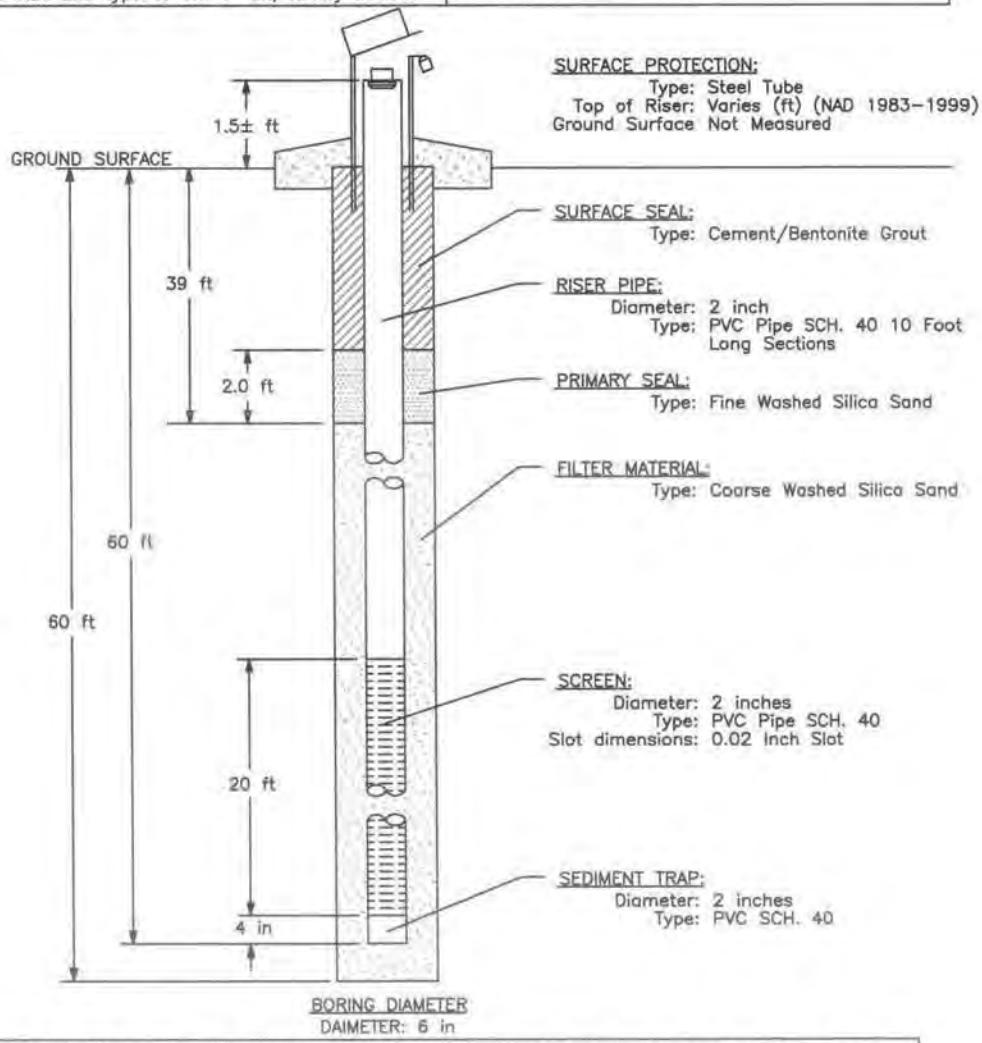

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0235

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774515, E 761782 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0235 | | 11. Date Hole: Started 3-16-05 Completed 3-16-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.98 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

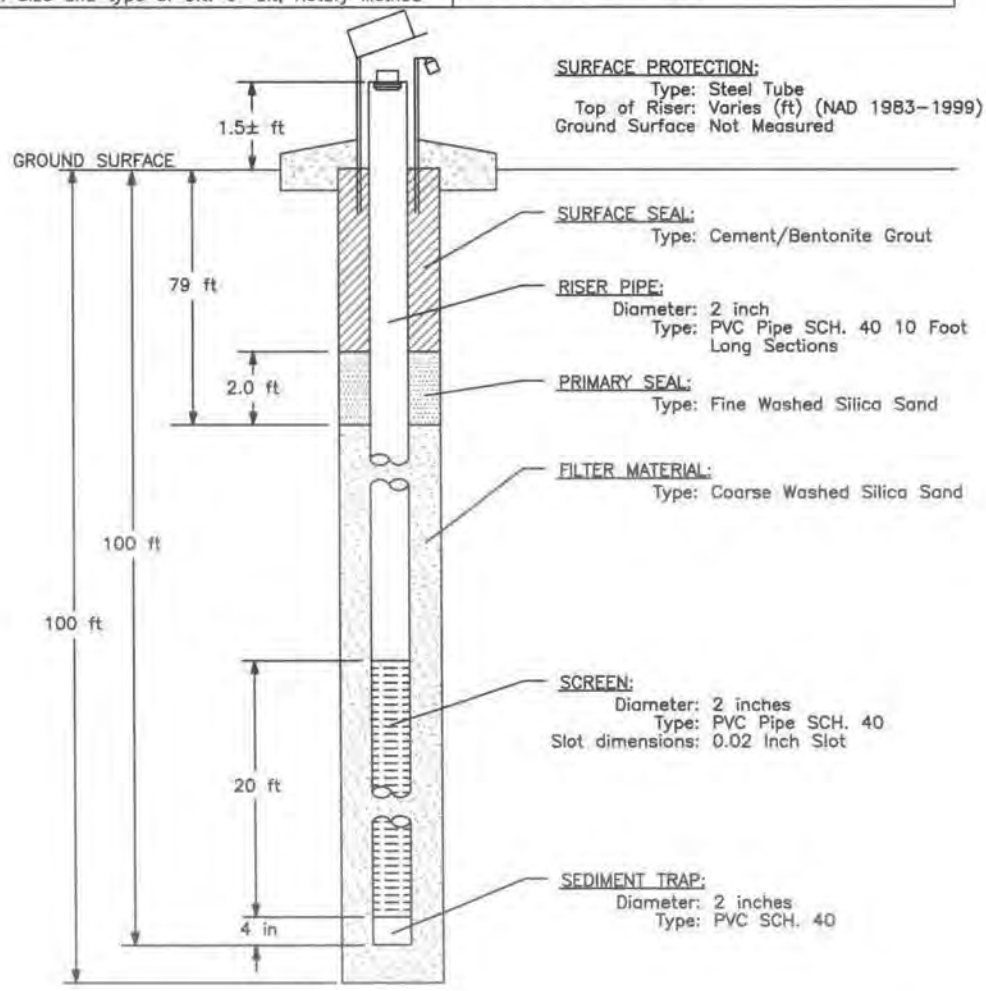



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0236

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774515, E 761792 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0236 | | 11. Date Hole: Started 3-17-05 Completed 3-17-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.90 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



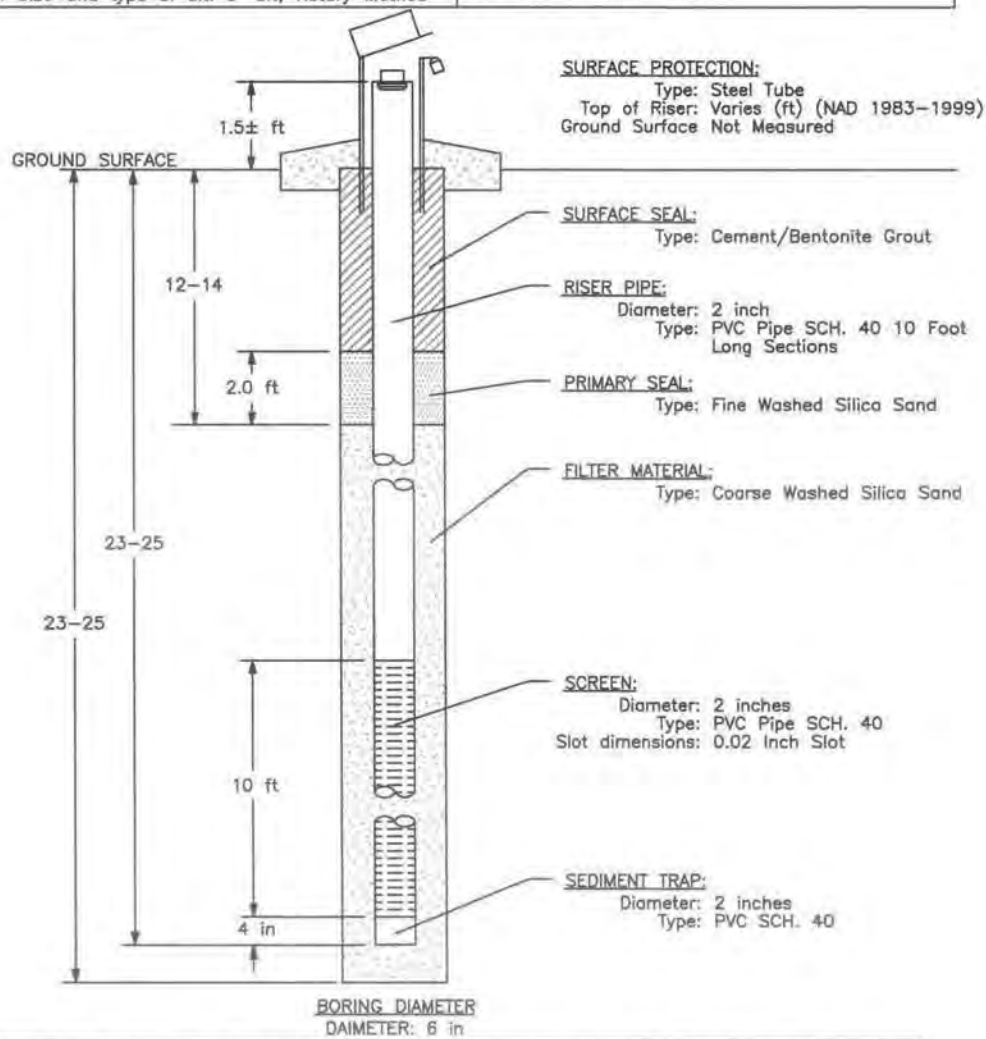

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0237

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774071, E 762123 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0237 | | 11. Date Hole: Started 12/7/2004 Completed 12/7/2004 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.04 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

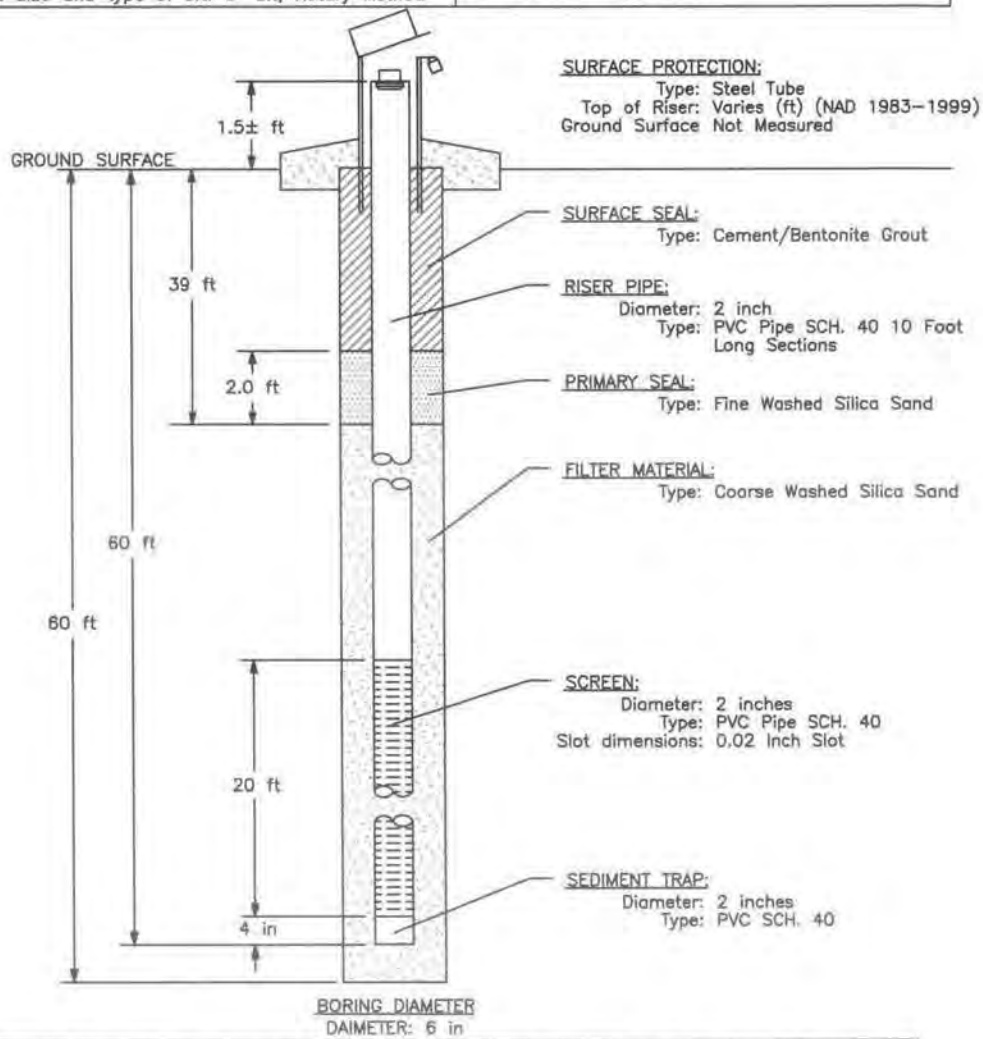



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No, CP05-EAARS-TW-0238

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774081, E 762123 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0238 | | 11. Date Hole: Started 3-26-05 Completed 3-26-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.87 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

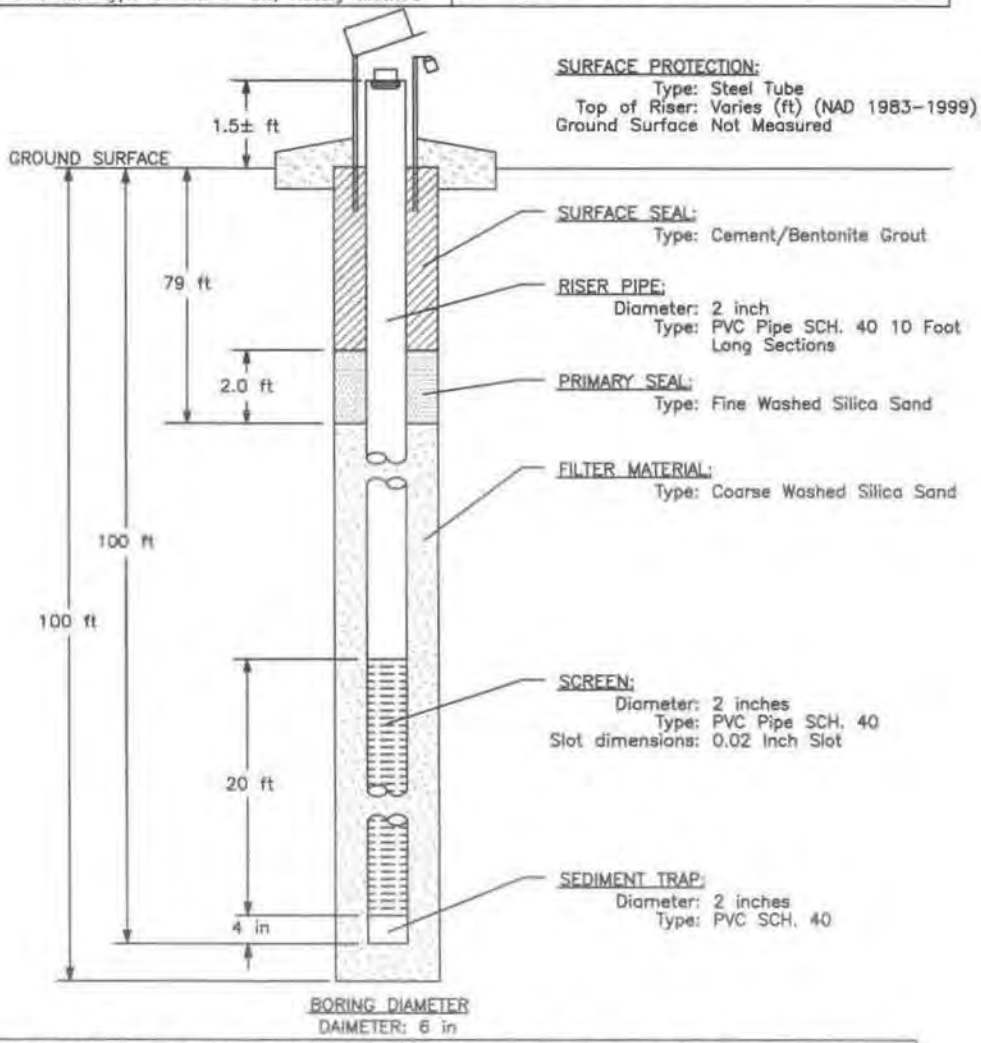



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0239

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774091, E 762123 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0239 | | 11. Date Hole: Started 3-26-05 Completed 3-26-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.95 |
| 6. Depth of Piezometer: 100 ft | | 13. Inspector: Norm Holst |
| 7. Size and type of bit: 6" bit, Rotary Method | | |

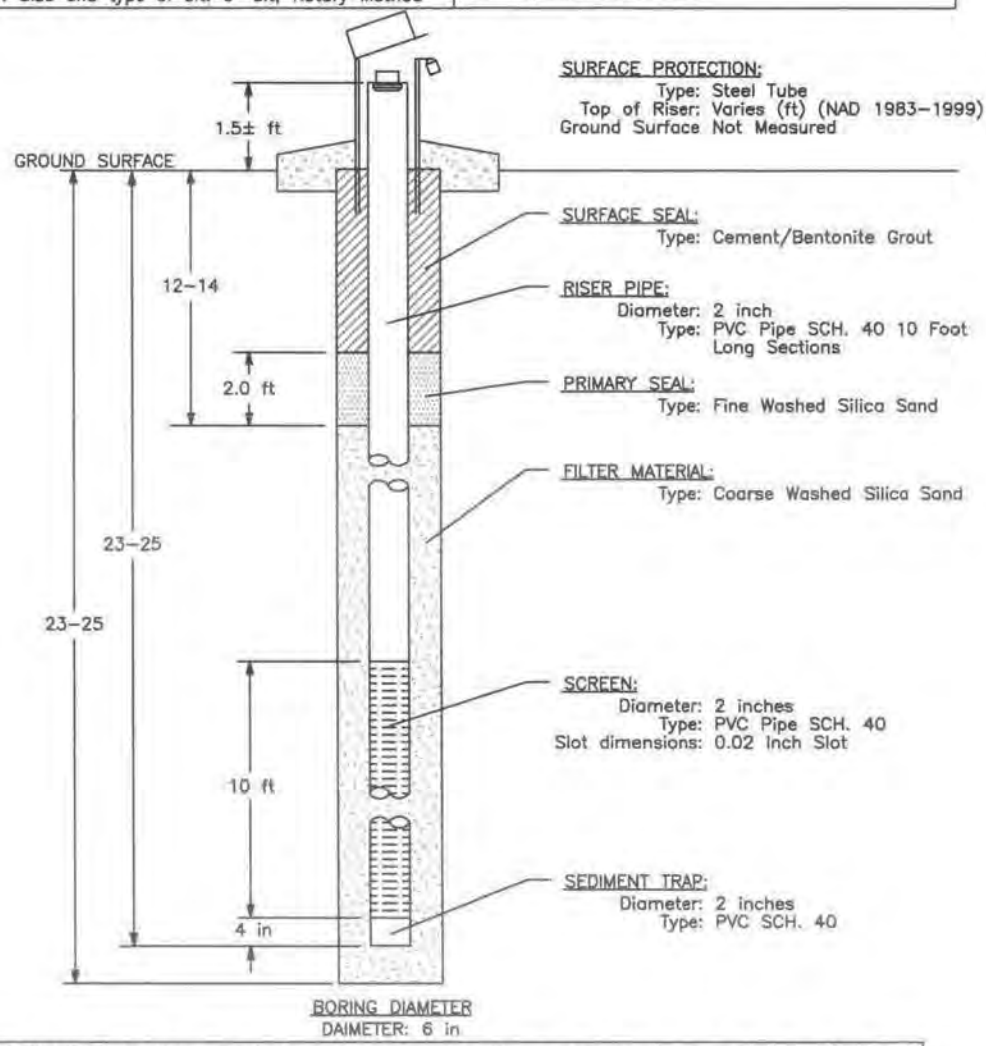



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0240

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774071, E 762223 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0240 | | 11. Date Hole: Started 3-16-05 Completed 3-16-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.11 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |




INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

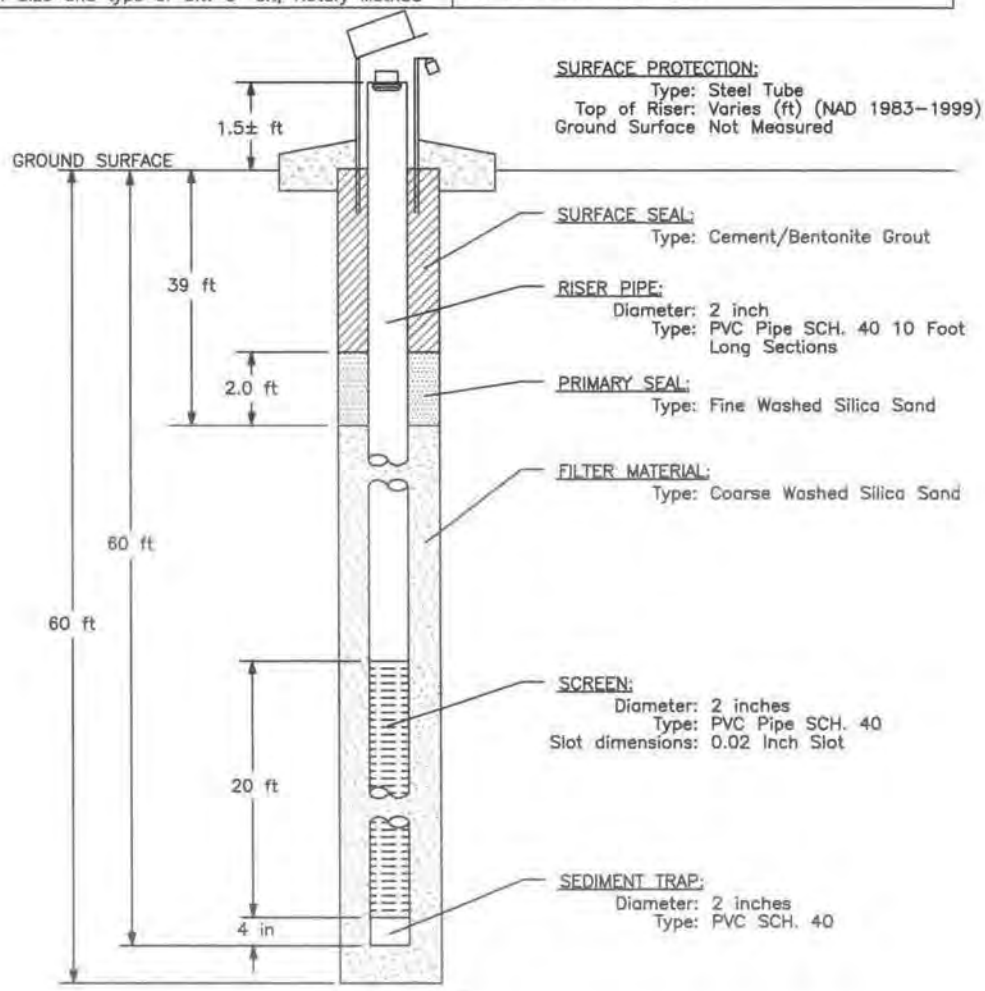
NOTES: Typical 25 foot Piezometer Installation

# APPENDIX 1

## TEST CELL BORINGS AND PIEZOMETER INSTALLATION LOGS: 241-254

Hole No, CP05–EAARS–TW–0241

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N, E | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0 | | 11. Date Hole: Started 3–16–05 Completed 3–16–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.11 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



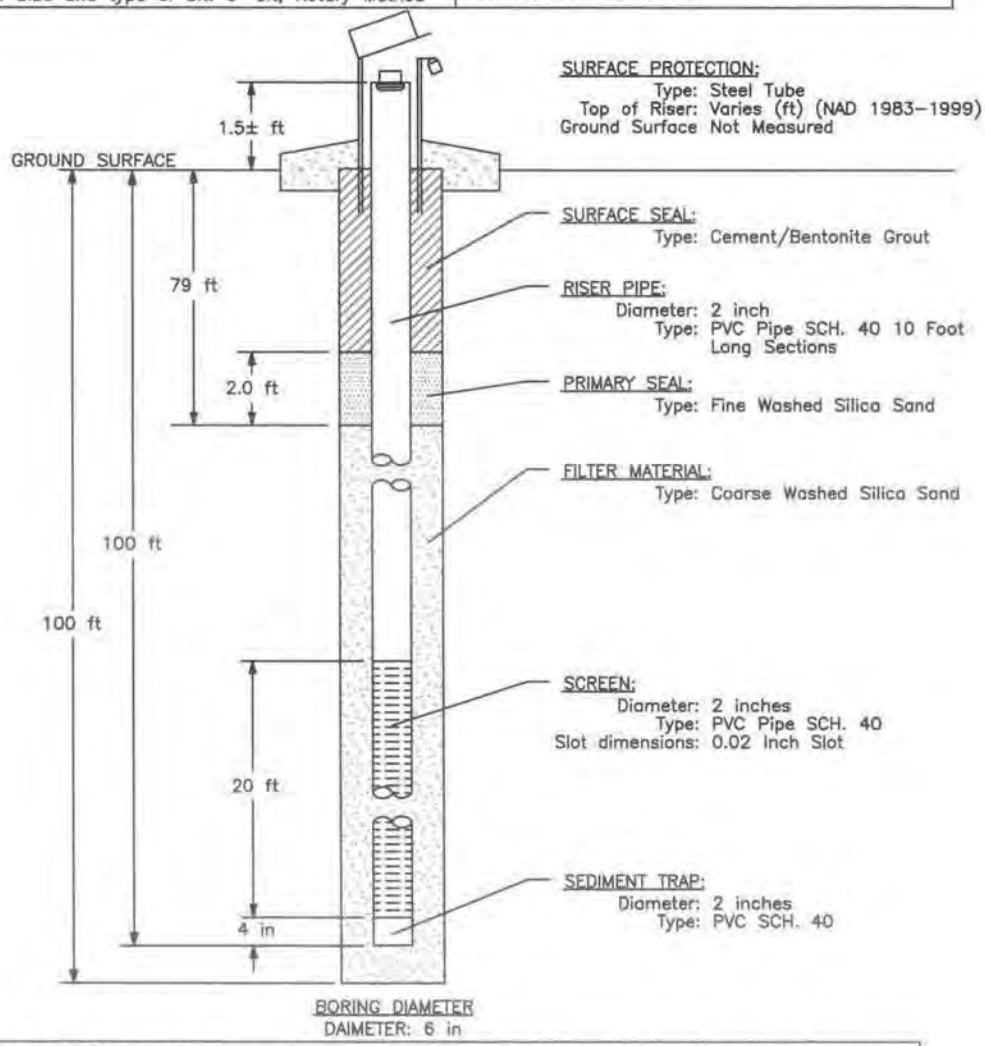

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0242

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774091, E 762223 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0242 | | 11. Date Hole: Started 3-16-05 Completed 3-16-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 7.99 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

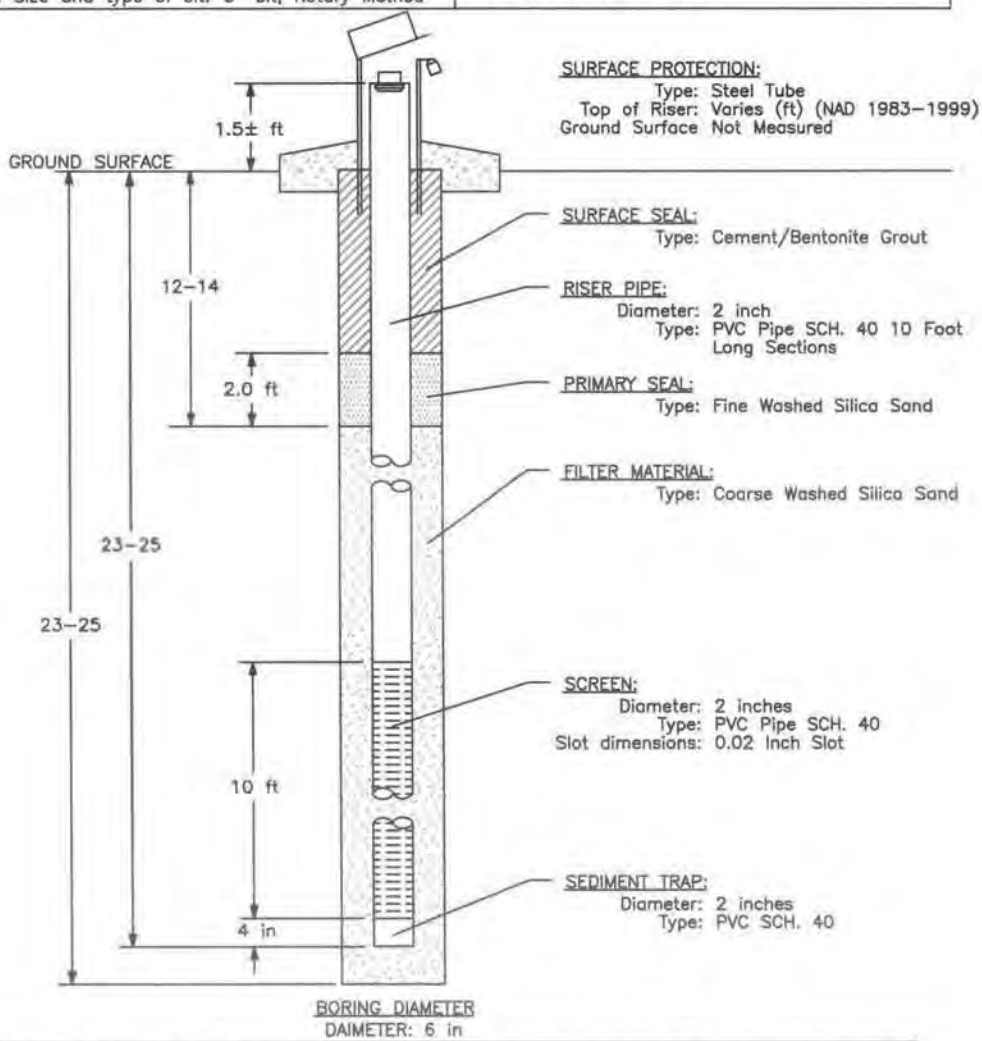



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0243

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 773743, E 761776 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0243 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.91 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

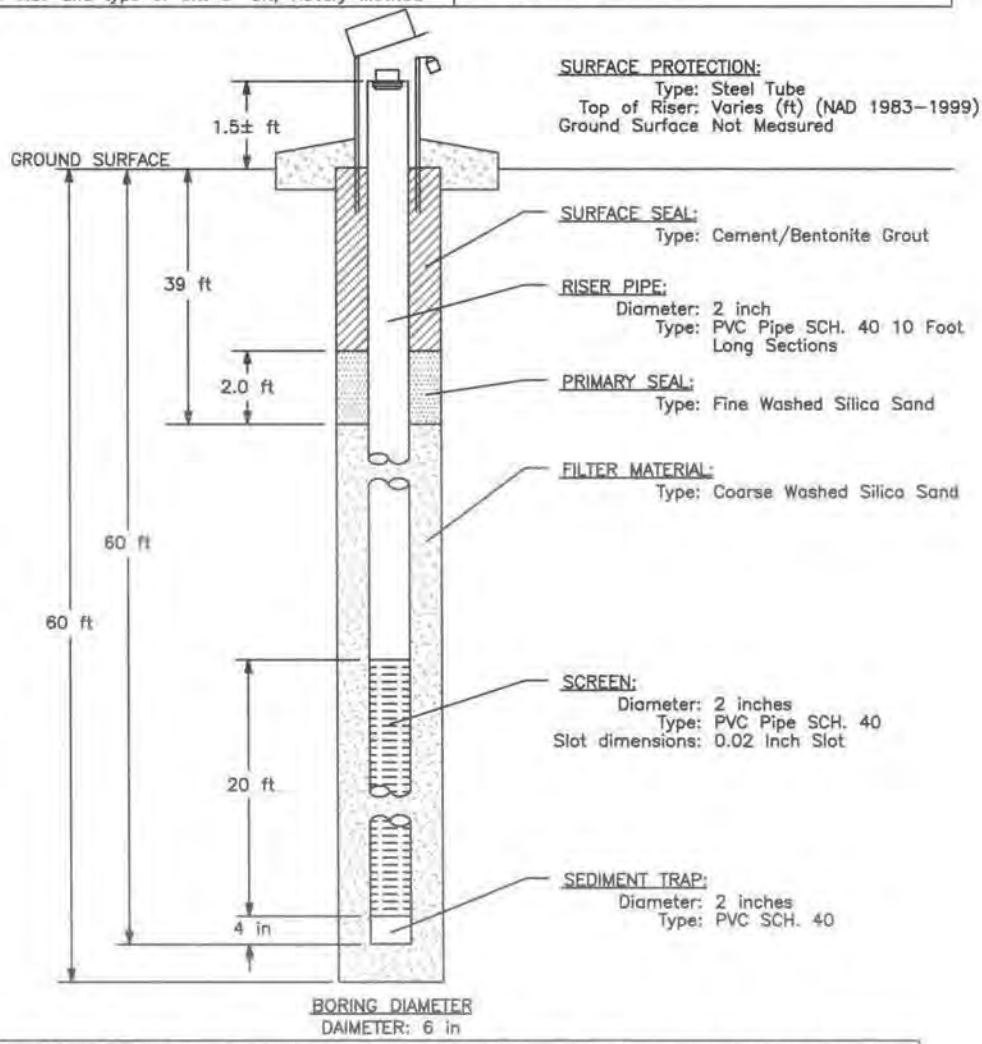



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0244

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 773743, E 761786 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0244 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.12 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

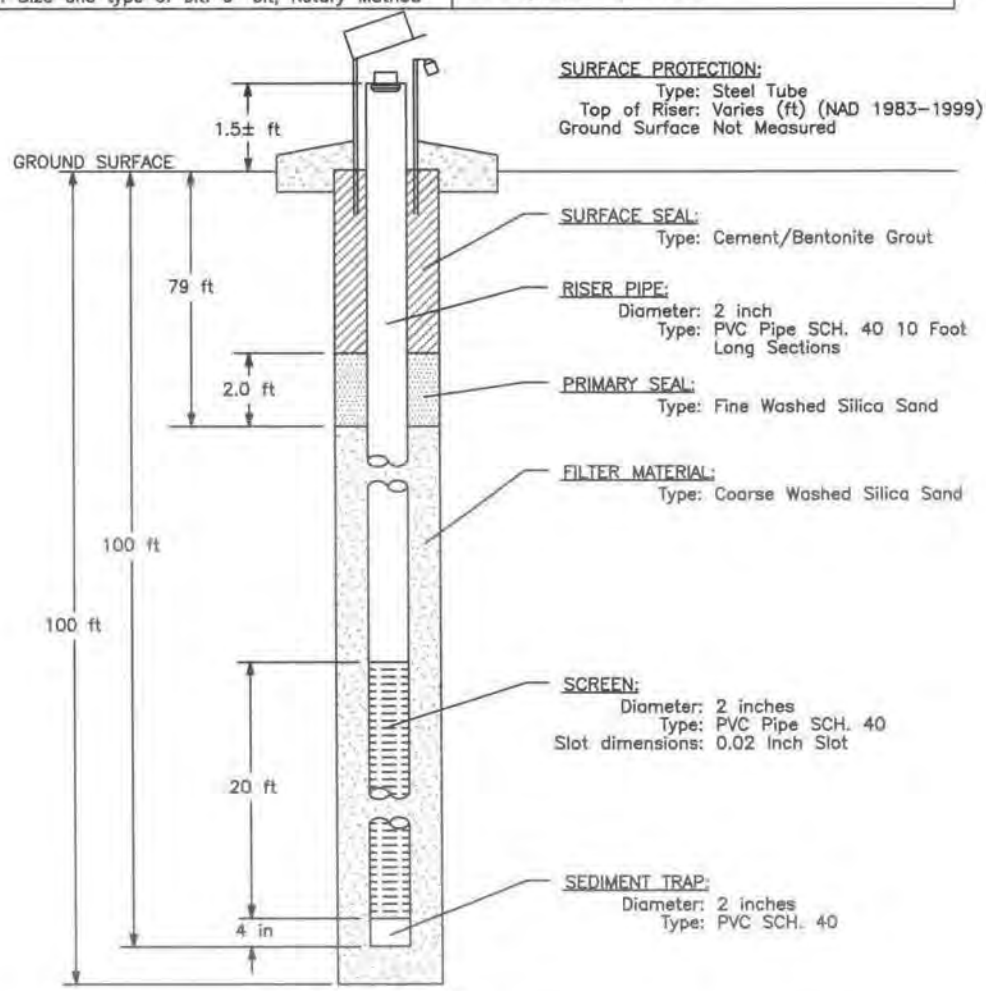



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0245

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 773743, E 761796 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0245 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.63 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



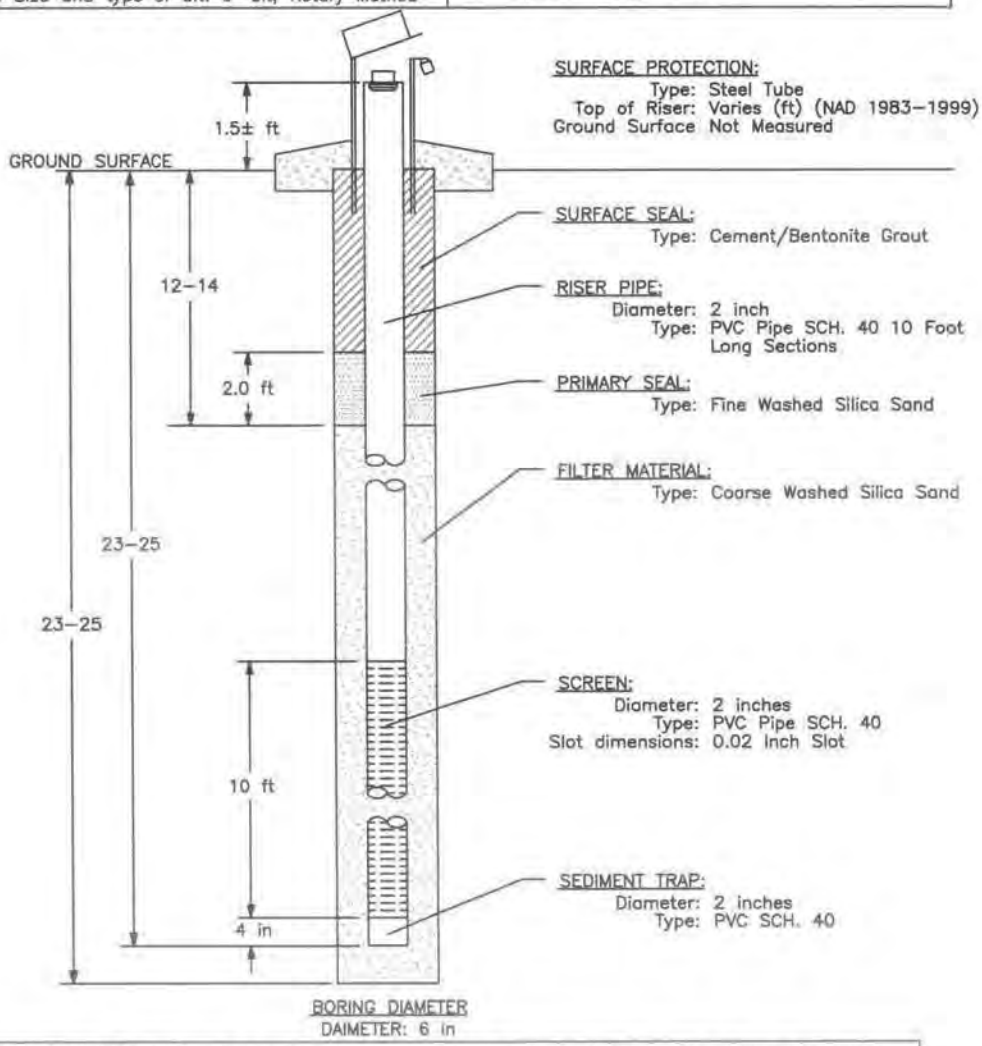

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No, CP05-EAARS-TW-0246

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 773643, E 761776 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0246 | | 11. Date Hole: Started 3-24-05 Completed 3-24-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.19 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

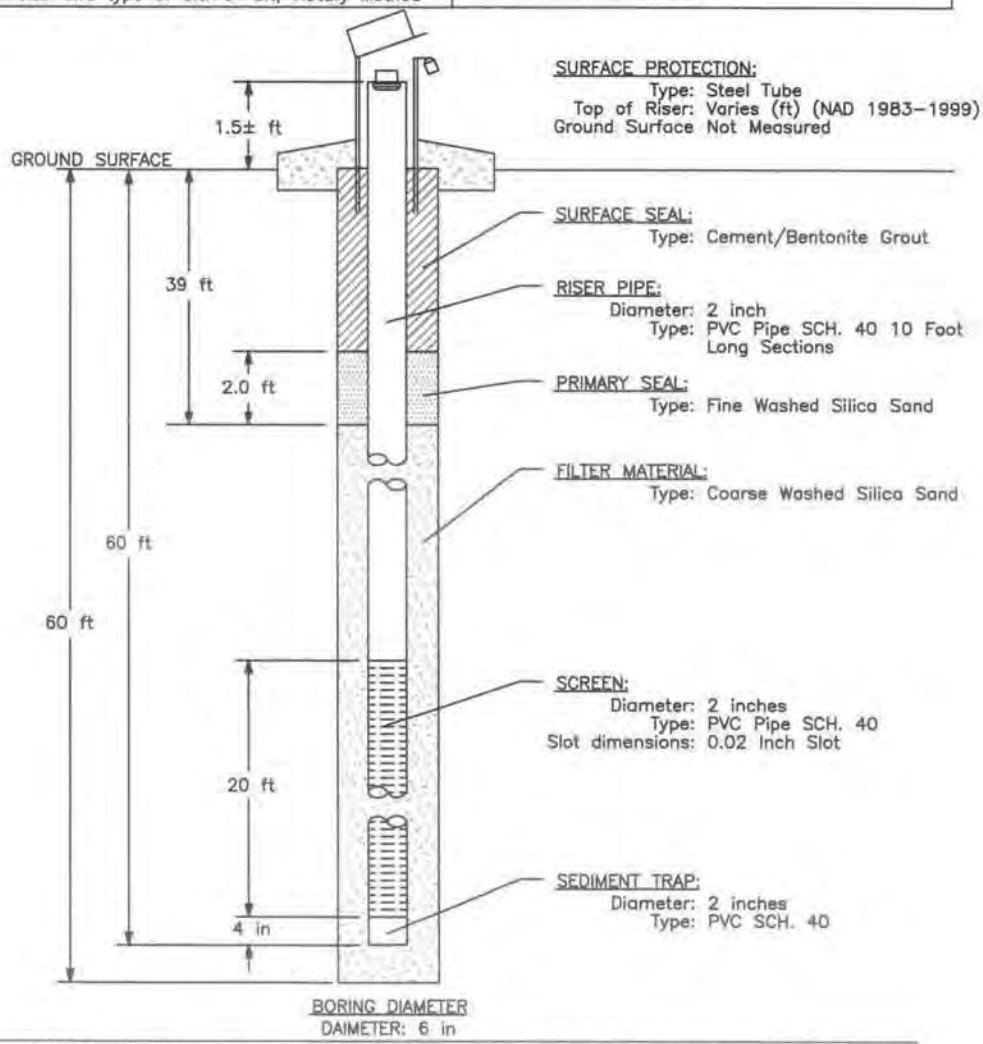



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No, CP05–EAARS–TW–0247

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 773643, E 761786 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0247 | | 11. Date Hole: Started 3–25–05 Completed 3–25–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.02 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

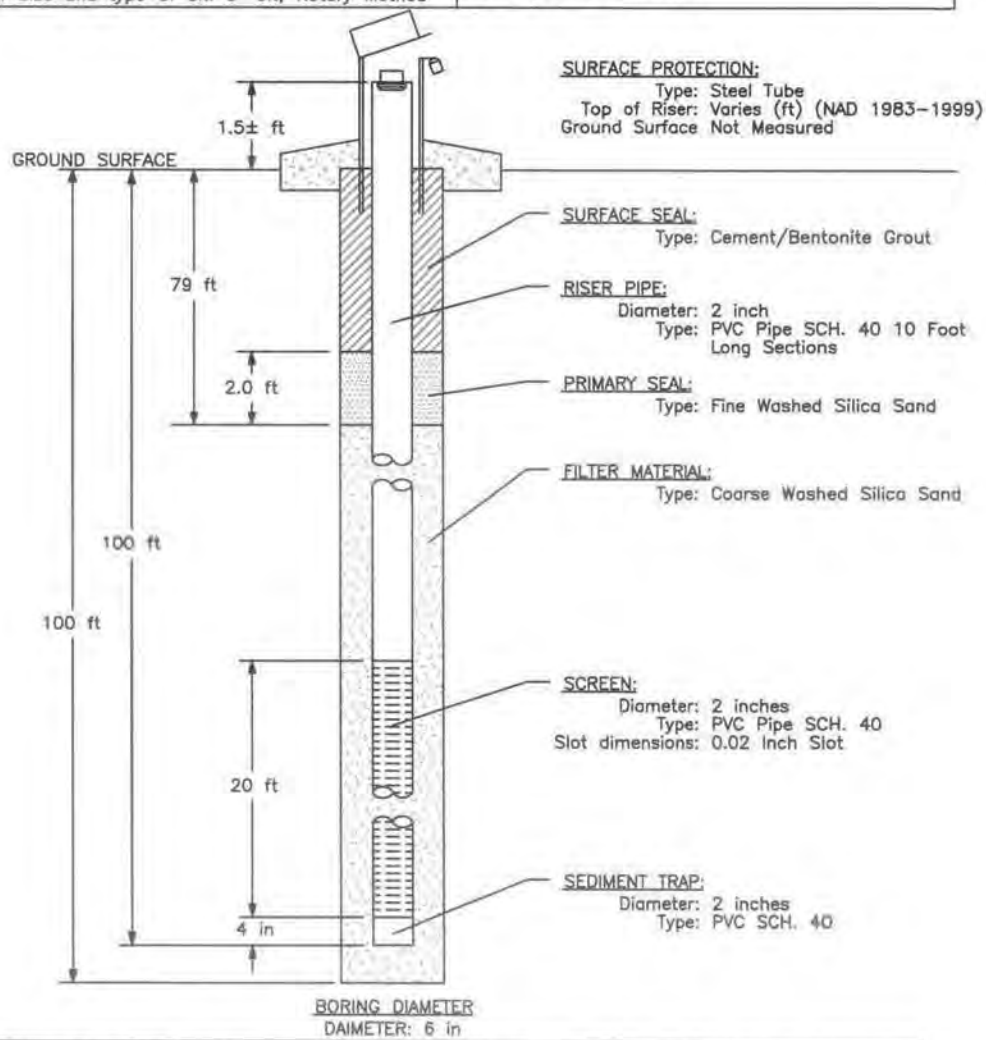



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0248

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 773643, E 761786 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0248 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 8.63 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

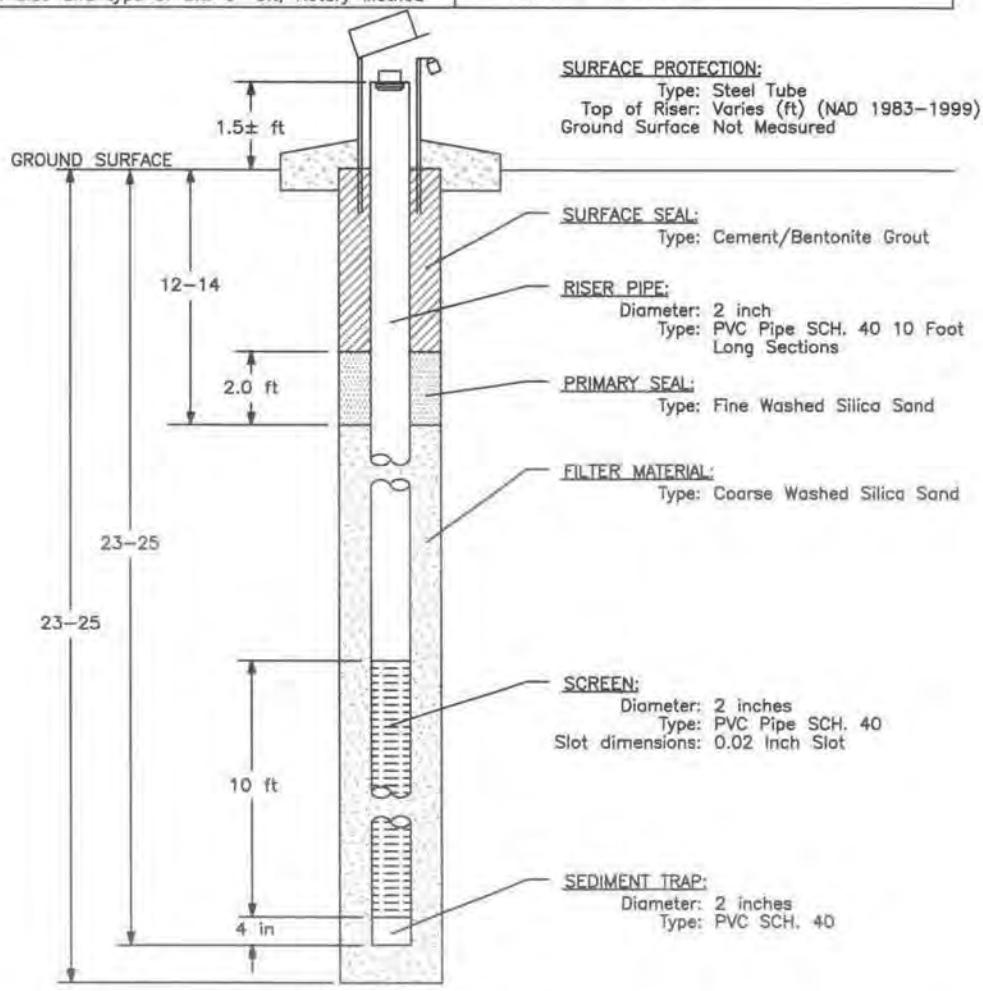



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0249

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774067, E 774825 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0249 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.81 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



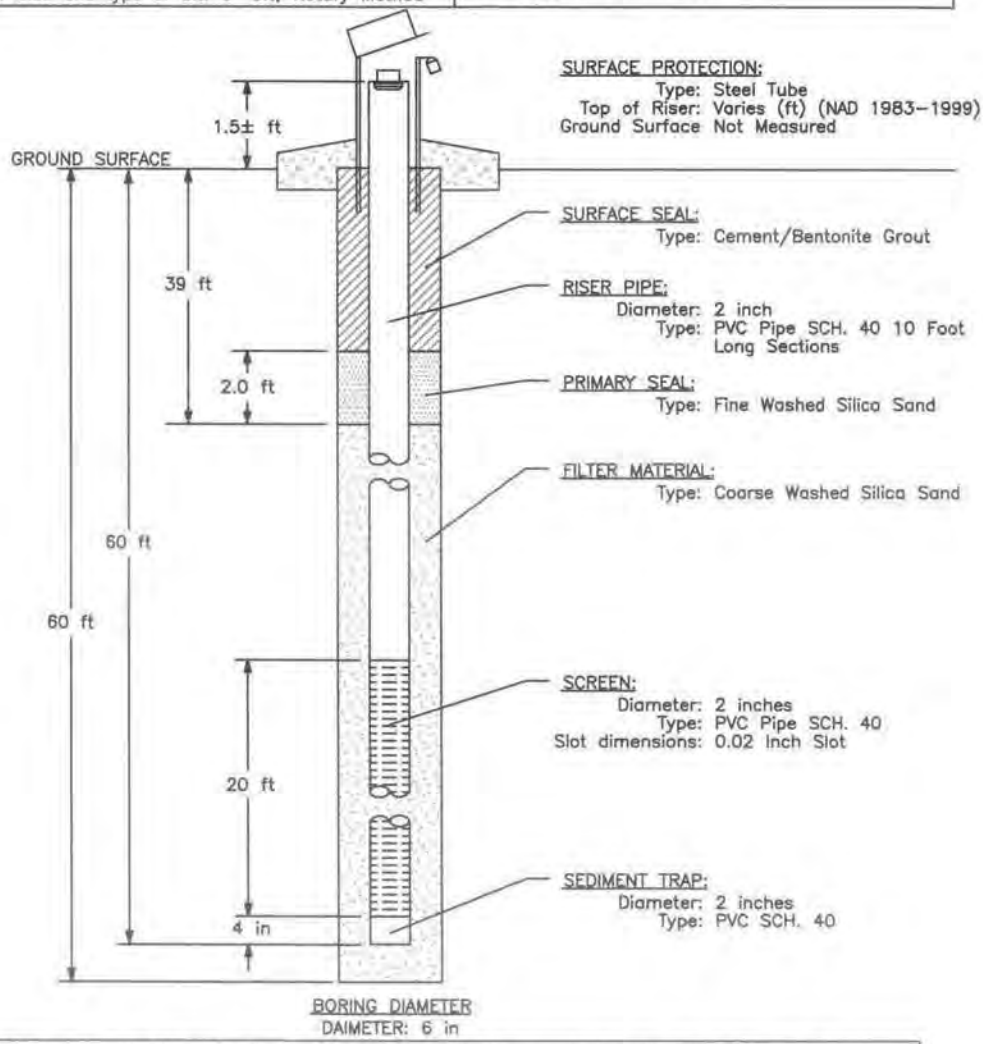

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0250

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774077, E 774825 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0250 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.60 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

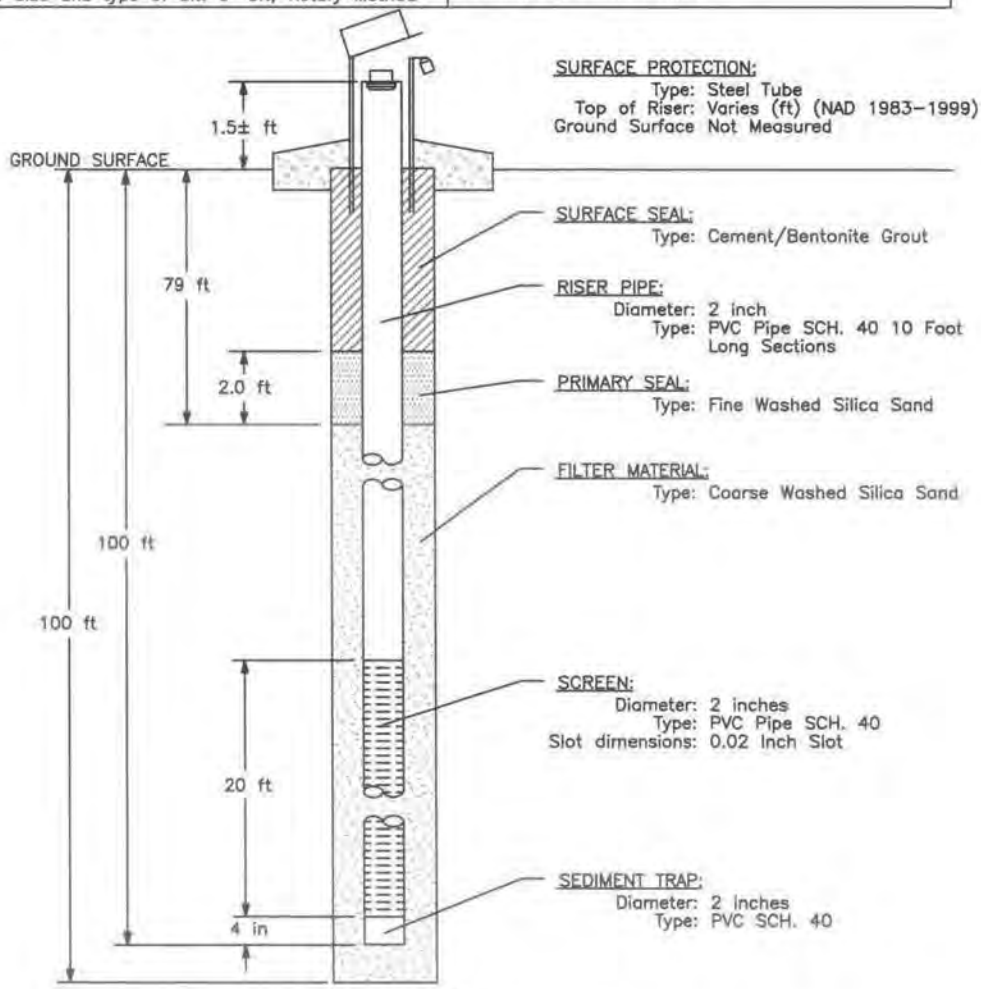



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05–EAARS–TW–0251

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774087, E 774825 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0251 | | 11. Date Hole: Started 3–25–05 Completed 3–25–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.59 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |



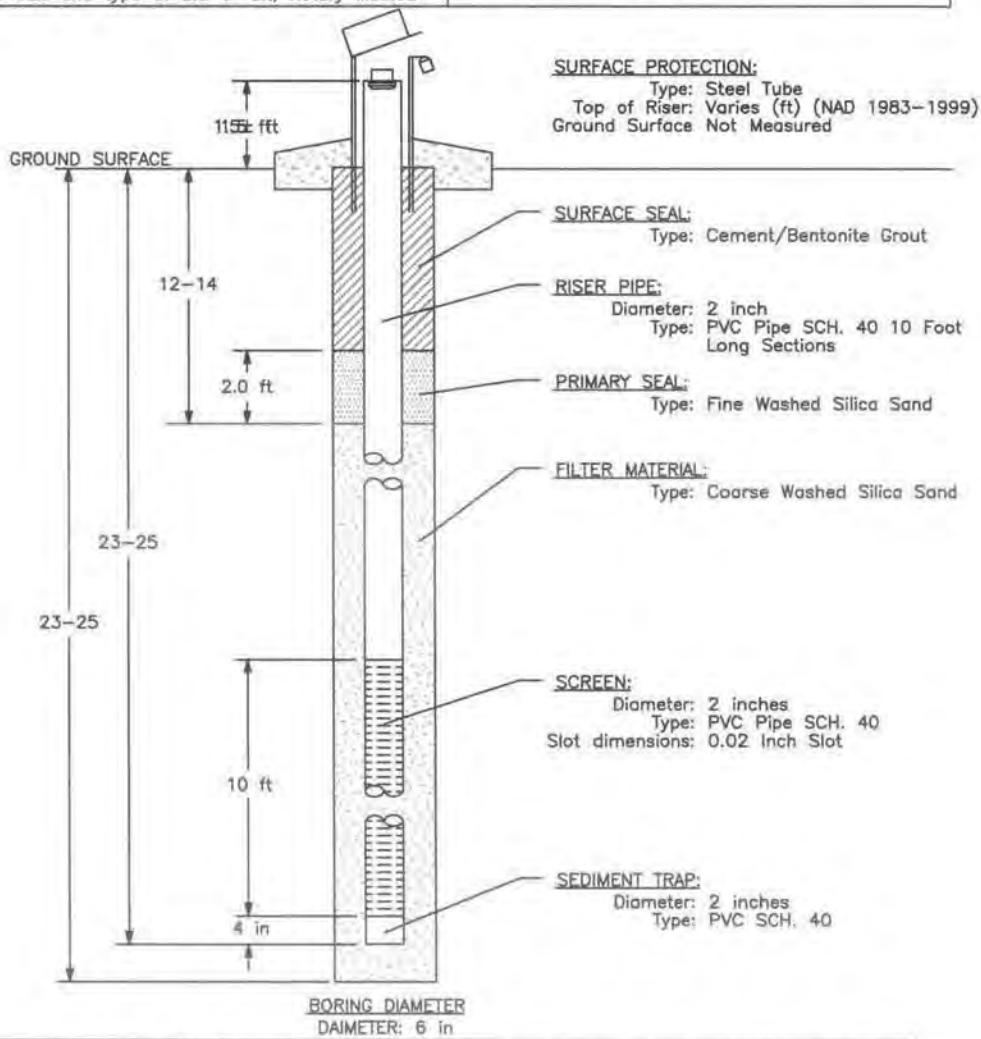

BORING DIAMETER
DAIMETER: 6 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer Installation

Hole No, CP05-EAARS-TW-0252

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774067, E 774725 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0252 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.35 |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

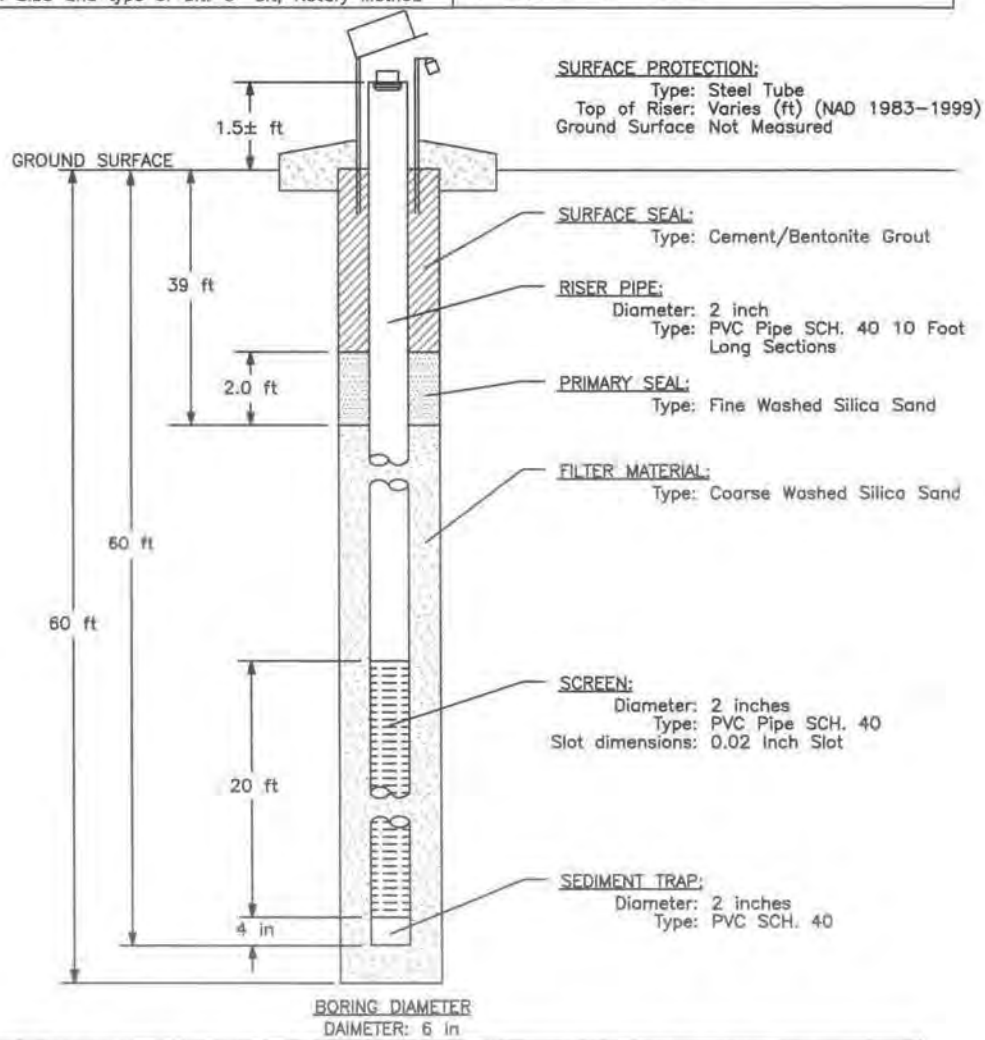



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No, CP05–EAARS–TW–0253

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774077, E 774725 | | 9. Manufacture's Designation for Drill: Diedrich D–50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0253 | | 11. Date Hole: Started 3–25–05 Completed 3–25–05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.20 |
| 6. Depth of Piezometer: 60 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |

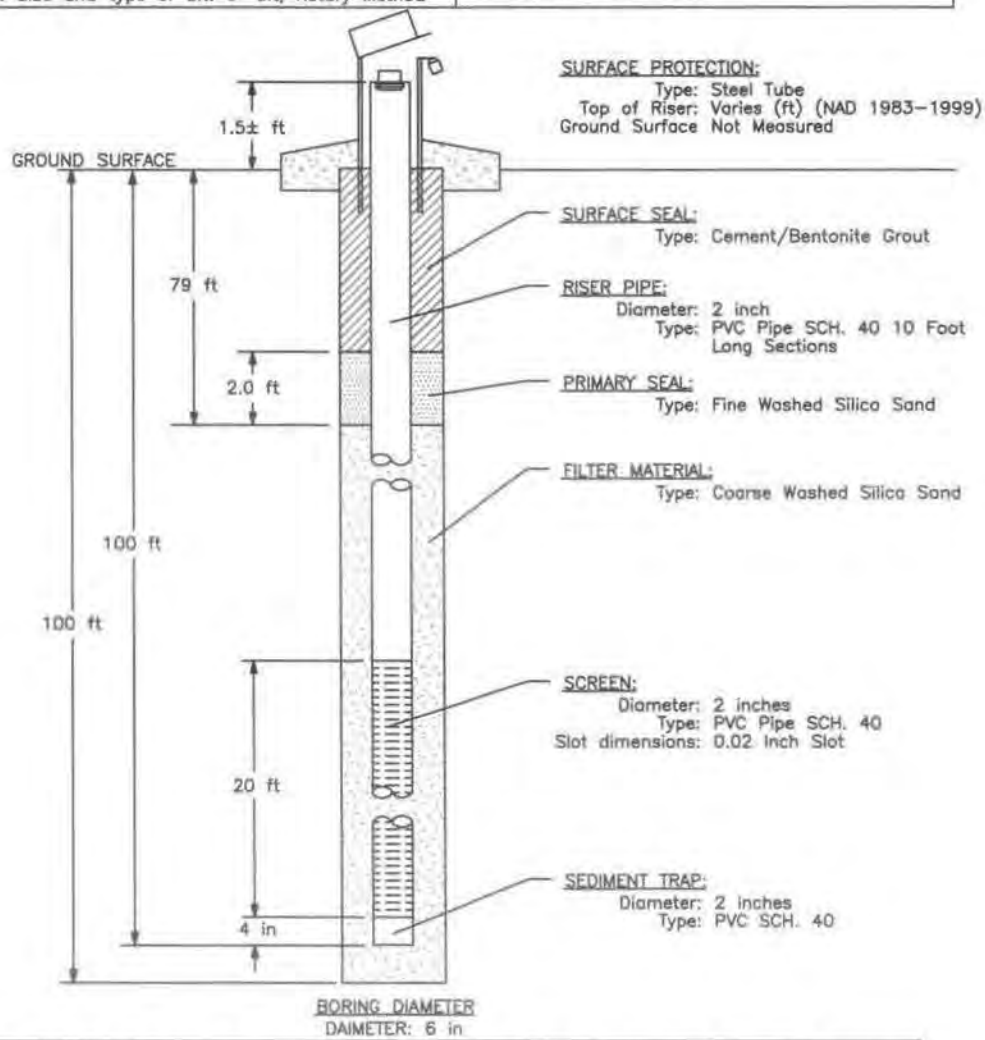



INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 60 foot Piezometer Installation

Hole No. CP05-EAARS-TW-0254

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 774087, E 774725 | | 9. Manufacture's Designation for Drill: Diedrich D-50 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0254 | | 11. Date Hole: Started 3-25-05 Completed 3-25-05 |
| 5. Name of Driller: Nodarse & Associates, Inc. | | 12. Elevation Top of Riser: 9.45 |
| 6. Depth of Piezometer: 100 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: Norm Holst |




INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 100 foot Piezometer installation

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# SOIL CLASSIFICATION CHART

| MAJOR DIVISIONS | | | SYMBOLS GRAPH | SYMBOLS LETTER | TYPICAL DESCRIPTIONS |
|---|---|---|---|---|---|
| COARSE GRAINED SOILS<br>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE | GRAVEL AND GRAVELLY SOILS<br>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE | CLEAN GRAVELS<br>(LITTLE OR NO FINES) | | GW | WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES |
| | | | | GP | POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES |
| | | GRAVELS WITH FINES<br>(APPRECIABLE AMOUNT OF FINES) | | GM | SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES |
| | | | | GC | CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES |
| | SAND AND SANDY SOILS<br>MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE | CLEAN SANDS<br>(LITTLE OR NO FINES) | | SW | WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES |
| | | | | SP | POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES |
| | | SANDS WITH FINES<br>(APPRECIABLE AMOUNT OF FINES) | | SM | SILTY SANDS, SAND - SILT MIXTURES |
| | | | | SC | CLAYEY SANDS, SAND - CLAY MIXTURES |
| FINE GRAINED SOILS<br>MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE | SILTS AND CLAYS | LIQUID LIMIT LESS THAN 50 | | ML | INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY |
| | | | | CL | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |
| | | | | OL | ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY |
| | SILTS AND CLAYS | LIQUID LIMIT GREATER THAN 50 | | MH | INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS |
| | | | | CH | INORGANIC CLAYS OF HIGH PLASTICITY |
| | | | | OH | ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS |
| HIGHLY ORGANIC SOILS | | | | PT | PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS |

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

Hole No. CP05-EAARS-CB-0255

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N781906.1, E758378.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0255 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 6/30/2005 Completed 6/30/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: N. Holst and A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.7 | 0.0 | | | | | | |
| | | | PEAT | | | 8.7 | 7 |
| 7.7 | 1.0 | | | | 1 | 7.7 SPT; At least part of the calcitic material noted below is shell fragments | 50 |
| | | | LIMESTONE: tan to light brown, mostly fine grained with some shells, thinly bedded, hard, strong, vuggy | 22 (RQD 16%) | 1 | HQ coring | |
| 2.7 | 6.0 | | | | | 2.7 | |
| | | | SAND: very pale brown, wet, medium dense, well graded, fine to medium grained, angular, calcitic, trace silt | | | 2.2 | 2 |
| | | | | | 2 | SPT | 7 |
| | | | | | | | 11 |
| -0.3 | 9.0 | | | | | -0.3 | |
| | | | Silty SAND: white, wet, loose, well graded, fine to coarse grained, angular, calcitic | | 3 | SPT; SM; Silty sand with gravel; Moisture=33% | 5 4 3 |
| | | | | | | -4.8 | |
| | | | Silty SAND: as above but medium dense | | 4 | SPT; SM; Silty sand with gravel; Moisture=27% | 4 7 6 |

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0255 |

Hole No. CP05-EAARS-CB-0255

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.3 | 15.0 | | | | | -6.3 | |
| -9.8 | 18.5 | | | | | -9.8 | |
| | | | SAND: very pale brownish grey, wet, dense, well graded, fine to coarse grained, angular, calcitic, some silt, trace fine gravel | | 5 | SPT; SW-SM; Well graded sand with silt and gravel; Moisture=19% | 17, 23, 10 |
| | | | | | | -14.8 | |
| | | | SAND: as above but medium dense | | 6 | SPT | 9, 13, 10 |
| -18.3 | 27.0 | | | | | -19.8 | |
| | | | Only one limestone chip recovered; hard, grey, shelly | | 7 | SPT; Hard drilling from 27 to 30 feet; spoon bouncing | 50/1" |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0255

Hole No. CP05-EAARS-CB-0255

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.7 | 33.4 | | | | | -24.7 | |
| -24.8 | 33.5 | | SAND: pale brownish grey, wet, medium dense, mostly fine grained, subrounded quartz sand with some fine-coarse grained calcitic sand and some fine gravel | | 8 | -24.8<br>SPT; Hard drilling from 30.5 to 33.5 feet; Caloosahatchee Formation | 7<br>8<br>9 |
| | | | | | | -29.8 | |
| | | | SAND: light brownish grey, wet, medium dense, mostly fine quartz sand, traces of calcitic sand, very gravelly sand | | 9 | SPT | 5<br>7<br>4 |
| -34.8 | 43.5 | | | | | -34.8 | |
| | | | Gravelly SAND: greenish grey, wet, medium dense, mostly fine subangular sand, traces of calcitic sand | | 10 | SPT | 4<br>10<br>6 |
| | | | | | | -39.8 | |
| | | | Same as above except more coarse and large particle size gravel | | 11 | SPT | 9<br>12<br>6 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0255

Hole No. CP05-EAARS-CB-0255

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 8.7 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -43.1 | 51.8 | | | | | -43.1 | |
| | | | 2 Chips of stone recovered, hard, dark grey | | | -44.8 | |
| | | | | | 12 | SPT; Soil caving in a; Slightly hard drilling; Temporary casing from 0 to 55 feet | 2, 3, 12 |
| | | | Gravelly SAND: light brownish grey, wet, dense, fine quartz, calcitic sand particles, more coarse | | | -49.8 | |
| | | | | | 13 | SPT | 21, 25, 19 |
| -54.8 | 63.5 | | | | | -54.8 | |
| | | | Chips of limestone - hard, dark grey, shelly and shell fragments recovered | | 14 | SPT; Spoon bouncing; Soil caving in; Temporary casing from 55 to 70 feet | 14, 50/0" |
| -56.3 | 65.0 | | | | | | |
| | | | SAND: greenish grey, wet, very dense, a few big chips of limestone, calcitic sand particles are larger and angular | | | -59.8 | |
| | | | | | 15 | SPT | 21, 33, 19 |

52 54 56 58 60 62 64 66 68 70

(CONTINUED)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0255

Hole No. CP05-EAARS-CB-0255

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 5 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -61.5 | 70.2 | | | | | -61.5 | |
| -64.8 | 73.5 | | Gravelly SAND: grey, wet, dense, fine angular quartz | | 16 | SPT | 32, 25, 20 |
| | | | | | | -69.8 | |
| | | | Same as above except a couple of limestone chips recovered | | 17 | SPT | 13, 20, 21 |
| | | | | | | -74.8 | |
| | | | SAND: greenish grey, wet, dense, clearly visible semi rounded quartz, trace phosphate | | 18 | SPT | 8, 15, 20 |
| | | | | | | -79.8 | |

(continued)

72 74 76 78 80 82 84 86 88

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0255

Hole No. CP05-EAARS-CB-0255

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -79.9 | 88.6 | | Grades medium dense | | 19 | -79.9 SPT | 9, 12, 12 |
| | | | SAND: greenish grey, wet, medium dense, mostly quartz sand, semiangular | | 20 | -84.8 SPT | 11, 12, 15 |
| -89.8 | 98.5 | | Gravelly SAND: greenish grey, wet, medium dense, semi angular quartz sand | | 21 | -89.8 SPT | 11, 11, 9 |
| -91.3 | 100.0 | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

EAD FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0255

Hole No. CP05-EAARS-CB-0256

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N781911.1, E761965 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0256 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 6/28/2005 Completed 6/29/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: P. Petrey and A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.5 | 0.0 | | | | | | |
| 8.0 | 0.5 | | Peat layer | | | 8.5 | 2 |
| | | | Hard LIMESTONE | | 1 | 7.5 SPT | 24 |
| | | | | | | 7.5 | 50 |
| | | | | 61 (RQD 35%) | 1 | SPT HQ coring; UCS=2600psi | |
| 3.0 | 5.5 | | | | | 3.0 | |
| | | | | | 3 | SPT 1.5 | 50 |
| | | | | | 4 | SPT 0.0 | 4 6 6 |
| | | | Soft LIMESTONE (wet) | | 5 | SPT -1.5 | 4 3 5 |
| | | | | | 6 | SPT -3.0 | 3 4 3 |
| | | | | | 7 | SPT -4.5 | 6 9 11 |
| | | | Medium LIMESTONE with shells | | 8 | SPT -6.0 | 50 |
| -6.0 | 14.5 | | Shell / LIMESTONE fragments | | | | 18 |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0256 |

Hole No. CP05-EAARS-CB-0256

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.5 | 15.0 | | | | | -6.5 | |
| | | | Grey fine SAND with silt / shell | | 9 | -7.5 SPT; GP-GM; Poorly graded gravel with silt+sand; Moisture=26% | 11, 8, 4 |
| | | | | | 10 | SPT | 5, 4 |
| | | | Grey fine SAND with cemented sand and silt | | | -9.0 | |
| | | | | | 11 | SPT | 22, 50 |
| | | | Grey fine SAND with large shell fragments | | | -10.5 | |
| | | | | | 12 | SPT | 33, 32, 28 |
| | | | Grey coarse SAND with cemented sand, shell | | | -12.0 | |
| | | | | | 13 | -13.0 SPT; cemented sand | 9, 9 |
| | | | Grey fine SAND with fine shell fragments | | | -13.5 | |
| | | | | | 14 | SM; Silty sand with gravel; Moisture=21% | 11, 27, 20 |
| | | | | | | SPT | 31 |
| | | | Brown grey SAND with cemented sand | | | -15.0 | |
| | | | | | 15 | SPT; SM; Silty sand with gravel; Moisture=29% | 17, 21, 10 |
| -16.5 | 25.0 | | Grey fine SAND, silt, shell | | | -16.5 | |
| | | | | | 16 | SPT | 5, 7, 9 |
| -18.0 | 26.5 | | Grey fine SAND with cemented sand with shell fragments | | | -18.0 | |
| | | | | | 17 | SPT | 34, 15, 12 |
| -19.5 | 28.0 | | Color change<br>Grey / brown fine SAND, cemented sand | | | -19.5 | |
| | | | | | 18 | SPT | 4, 50 |
| | | | Grey / brown SAND, cemented sand, shell fragments | | | -21.0 | |
| | | | | | 19 | SPT; hard fragments | 50 |
| | | | shells, cemented SAND | | | -22.5 | |
| | | | | | 20 | SPT | 50 |
| | | | same shell / cement SAND fragments | | | -24.0 | |
| | | | | | | | 23, 29 |

(continued)

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0256

Hole No. CP05-EAARS-CB-0256

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 3 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' | |
|---|---|---|---|---|---|---|---|---|
| -24.9 | 33.4 | | | | | -24.9 | | |
| | | | shell fragments to fine grey SAND with small shell fragmens / cemented sands | | 21 | -25.5 SPT | 20, 18 | 34 |
| | | | | | 22 | SPT | 27, 46 | |
| | | | grey fine SAND - shell fragment and cemented sand | | 23 | -27.0 SPT | 29, 40, 33 | 36 |
| | | | Large rock (cemented SAND) with shell / sand (grey, brown) | | 24 | -28.5 SPT | 12, 16, 12 | 38 |
| | | | grey / brown fine sand with small shells | | 25 | -30.0 SPT; SM; Silty sand with gravel; Moisture=22% | 3, 3, 4 | |
| | | | grey / brown silty fine sand with cemented sand | | 26 | -31.5 SPT | 3, 6, 5 | 40 |
| -33.0 | 41.5 | | dark brown silghtly sandy CLAY | | 27 | -33.0 SPT | 2, 3, 4 | 42 |
| | | | same | | 28 | -34.5 SPT | 3, 3, 2 | 44 |
| | | | dark brown slightly CLAY, trace sand | | 29 | -36.0 SPT; SP-SM; Poorly graded sand with silt; Moisture=31% | 4, 4, 5 | |
| -37.5 | 46.0 | | dark brown silty fine SAND with shell | | 30 | -37.5 SPT | 10, 29, 31 | 46 |
| -39.0 | 47.5 | | greyish brown fine SAND with shell | | 31 | -39.0 SPT | 11, 10, 12 | 48 |
| | | | SAND: greenish grey, wet, fine to coarse angular calcetic sand, with some fine grained rounded quartz, trace silt | | | -42.0 | | 50 |
| | | | | | 32 | SPT | 10, 15 | |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0256

Hole No. CP05-EAARS-CB-0256

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -43.3 | 51.8 | | | | | -43.3 | |
| | | | SAND: grey, wet dense, semiangular | | | -43.5 | 13 16 18 18 |
| | | | | | 33 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=19% | |
| | | | missed a sample | | | -45.0 | |
| | | | | | 34 | SPT | |
| | | | | | | -46.5 | |
| | | | | | 35 | SPT; SP-SM; Poorly graded sand with silt; Moisture=23% | 13 18 13 12 |
| | | | | | | -47.8 | |
| | | | SAND: greenish grey, wet, dense, trace gravel and silt | | 36 | SPT | 22 27 |
| | | | | | | -49.5 | |
| | | | SAND: more fine gravel and bigger shells | | 37 | SPT | 22 14 11 |
| | | | | | | -51.0 | |
| | | | very dense, carbonate sand particles, getting bigger | | 38 | SPT; very hard drilling from 60 to 62.5 feet | 10 50 |
| | | | | | | -52.5 | |
| | | | very dense | | 39 | SPT | 50 |
| | | | | | | -54.0 | |
| | | | very dense, grey, wet, mostly calcitic | | 40 | SPT | 8 21 32 |
| | | | | | | -55.5 | |
| | | | SAND: grey, wet, medium dense, semi angular carbonate sand | | 41 | SPT | 18 16 11 |
| | | | | | | -57.0 | |
| | | | | | 42 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=21% | 19 18 16 8 |
| | | | | | | -58.5 | |
| | | | SAND: grey, wet, very dense, more quartz sand | | 43 | SPT; hard drilling | 42 44 |
| | | | | | | -60.0 | |
| | | | semi angular quartz sand | | 44 | SPT | 6 19 10 |
| | | | | | | -61.5 | |

(CONCLUDED)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0256 |

Hole No. CP05-EAARS-CB-0256

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' | |
|---|---|---|---|---|---|---|---|---|
| -61.7 | 70.2 | | | | | -61.7 | | |
| | | | darker shade of grey, semiangular carbonate and quartz sand | | 45 | SPT; SP-SM; Poorly graded sand with silt; Moisture=28% | 5, 5, 4 | |
| | | | | | | -63.0 | | |
| | | | Loose sand | | 46 | SPT | 3, 4, 6 | 72 |
| | | | | | | -64.5 | | |
| | | | medium dense, semi round quartz and carbonte sand, traces of phosphate | | 47 | SPT | 4, 16, 13 | 74 |
| | | | | | | -66.0 | | |
| | | | semi round quartz and carbonate sand | | 48 | SPT | 13, 21, 17 | |
| | | | | | | -67.5 | | |
| | | | SAND: pale greenish grey, wet, medium dense, semiangular carbonate sand | | 49 | SPT; SP-SM; Poorly graded sand with silt+gravel; Moisture=28% | 9, 14, 10, 6 | 76 |
| | | | | | | -69.0 | | |
| | | | | | 50 | SPT | 12, 12 | 78 |
| | | | | | | -70.5 | | |
| | | | bigger quartz sand crystalls, semi rounded | | 51 | SPT | 9, 16, 15 | 80 |
| | | | | | | -72.0 | | |
| | | | Dense SAND, traces of phosphate | | 52 | SPT; SP-SM; Poorly graded sand with silt; Moisture=20% | 15, 20, 17 | |
| | | | | | | -73.5 | | |
| | | | Dense, wet, semi round quartz and carbonate sand | | 53 | SPT | 15, 18, 20 | 82 |
| | | | | | | -75.0 | | |
| | | | | | 54 | SPT | 12, 16, 16 | 84 |
| | | | | | | -76.5 | | |
| | | | SAND: wet, medium dense, carbonate sand particle size is bigger | | 55 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=26% | 11, 13, 15, 13 | 86 |
| | | | | | | -78.0 | | |
| | | | | | 56 | SPT | 17, 19 | |
| | | | | | | -79.5 | | |
| | | | medium dense, light brown angular carbonate SAND | | | | 8 | 88 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0256

Hole No. CP05-EAARS-CB-0256

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 8.5 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -80.1 | 88.6 | | | | | -80.1 | |
| | | | | | 57 | -81.0 SPT | 9, 12 |
| | | | | | 58 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=22% | 9, 11, 11 |
| | | | SAND: greenish grey, wet, medium dense, angular calcitic sand, trace, phosphate | | | -82.5 | 11 |
| | | | | | 59 | SPT; SM; Silty sand with gravel; Moisture=21% | 8, 10 |
| | | | | | | -84.0 | |
| | | | | | 60 | SPT | 9, 9, 8 |
| | | | | | | -85.5 | |
| | | | pale grey, more silt content | | 61 | SPT | 14, 15, 13 |
| | | | | | | -87.0 | |
| | | | dense | | 62 | SPT; SM; Silty sand with gravel; Moisture=19% | 12, 17, 16 |
| -88.5 | 97.0 | | | | | -88.5 | |
| | | | medium dense, fine grained silt | | 63 | SPT | 10, 15, 12 |
| -90.0 | 98.5 | | | | | -90.0 | |
| | | | SAND: grey, wet, medium dense, a lot of fine particles | | 64 | SPT; SM; Silty sand with gravel; Moisture=22% | 8, 8, 13 |
| -91.5 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0256

Hole No. CP05-EAARS-CB-0257

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N783712.2, E767710.3 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0257 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/14/2005 Completed 7/18/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.4 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: J. Petrie | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.4 | 0.0 | | | | | | |
| 10.2 | 0.2 | | Asphalt with sub base beneath, comprising sandy GRAVEL, light grey to creamy white, very dense, fine gravel occasional, dry, subangular | | | 9.9 | |
| 8.4 | 2.0 | | Gravelly SAND, light grey, dense, well graded, fine to coarse, subangular, dry, trace of shell frequently | | 1 | SPT 8.4 | 15, 31, 26 |
| 6.4 | 4.0 | | SAND: light grey and black, medium dense, fine to medium, well graded, some subangular to subrounded fine gravel, dry, calcareous, trace medium quartz sand | | 2 | SPT 6.4 | 11, 19, 17 |
| 5.7 | 4.8 | | GRAVEL: light creamy grey, hard, angular, flakes of limestone | | 3 | 5.7 SPT | 9, 50/3" |
| -1.4 | 11.8 | | Light creamy grey, medium bedded, moderately strong to strong, fine grained occasionally shelly LIMESTONE with some voids Yellowish greenish grey, thinly bedded, moderately strong, fine grained, shelly LIMESTONE and SILTSTONE interbedded, shells included, silty partings Light grey moderately strong becoming weak at depth, medium bedded, fine grained, shelly LIMESTONE with vugs/voids, silty partings | 76 (RQD 48%) | 1 | HQ coring, UCS=1250psi 0.7 | |
| | | | Light creamy grey, medium bedded, moderately strong to strong, fine grained, occasionally shelly LIMESTONE, bottom 0.5 ft with some voids/vugs and becoming weaker | 100 (RQD 92%) | 2 | HQ coring -1.4 | |
| | | | Silty SAND, light grey, loose, well graded, fine to coarse, subangular, wet | | | -3.6 | |
| | | | | | 4 | SPT | 2, 3 |

0 2 4 6 8 10 12 14

continued

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0257 |

Hole No. CP05-EAARS-CB-0257

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.6 | 15.0 | | | | | -4.6 | |
| | | | | | | | 2 |
| | | | | | | | 16 |
| | | | | | | | 18 |
| -8.6 | 19.0 | | | | | -8.6 | |
| | | | Cemented SILT, light grey, hard, fine grained, wet | | | | 5 |
| -9.4 | 19.8 | | | | 5 | SPT | 50/3" |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -13.6 | |
| | | | SAND: light grey and light brown, medium dense, fine to coarse, well graded, subangular | | | | 9 |
| | | | | | 6 | SPT | 9 |
| | | | | | | | 10 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -18.6 | |
| | | | SAND: light grey, medium dense, fine to coarse, well graded, subangular, silty with 3" beds of gravel, dark grey, medium dense, fine some coarse subangular, sandy | | | | 12 |
| | | | | | 7 | SPT | 11 |
| | | | | | | | 6 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0257

Hole No. CP05-EAARS-CB-0257

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 3 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.0 | 33.4 | | | | | -23.0 | |
| | | | SAND: light brown, dense, well graded, fine to coarse, subangular, wet | | | -23.6 | |
| | | | | | 8 | SPT; 36 to 40 feet-cemeted horizon | 19, 15, 42 |
| | | | No recovery | | | -28.6 | |
| | | | | | 9 | SPT | 50 |
| | | | SAND: light grey green, medium dense, well graded, fine to coarse, wet, shells, some intact | | | -33.6 | |
| | | | | | 10 | SPT | 4, 5, 7 |
| -38.6 | 49.0 | | | | | -38.6 | |
| | | | GRAVEL: grey, medium dense, well graded, fine and coarse, wet, cemented, fine to coarse sand with shell fragments, quartz, subrounded | | 11 | SPT | 2, 5, 8 |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0257 |

Hole No. CP05-EAARS-CB-0257

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.4 | 51.8 | | | | | -41.4 | |
| -43.6 | 54.0 | | | | | -43.6 | |
| | | | Gravelly SAND: grey, loose, well graded, fine to coarse, wet, cemented, fine to coarse sand gravel sized with shell fragments, mainly medium sand sized, quartz, subrounded, fine to medium sand | | 12 | SPT | 3, 4, 5 |
| -48.6 | 59.0 | | | | | -48.6 | |
| | | | SAND: greenish grey, medium dense, well graded, fine to coarse, wet, fine cemented sand gravel, some shell fragments, mailny medium sand sized | | 13 | SPT | 8, 9, 8 |
| | | | | | | -53.6 | |
| | | | SAND: olive grey green, medium dense, well graded, fine to coarse, wet, coarse sand, shell fragments, black mineral and quartz, subrounded, fine to medium size | | 14 | SPT | 8, 11, 9 |
| | | | | | | -58.6 | |
| | | | Shelly SAND: greenish grey, medium dense, well graded, fine to coarse with angular shell fragments, some fine to | | 15 | SPT | 4, 5 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0257 |

Hole No. CP05-EAARS-CB-0257

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.8 | 70.2 | | | | | -59.8 | |
| | | | medium black mineral and quartz subrounded | | | | 9 |
| -63.6 | 74.0 | | | | | -63.6 | |
| | | | Sandy GRAVEL: creamy light grey, very dense, well graded fine occasional coarse, angular to subangular cemented sand (fine to coarse), shell fragments included "Gravelly drilling" | | 16 | SPT; "Gravelly drilling" | 3, 23, 45 |
| | | | | | | -68.6 | |
| | | | As above, except grey, dense | | 17 | SPT | 10, 20, 26 |
| -73.6 | 84.0 | | | | | -73.6 | |
| | | | SAND: light grey, loose, well graded, fine to medium occasional coarse, wet, shelly fragments | | 18 | SPT | 6, 3, 4 |

Elevations: 72, 74, 76, 78, 80, 82, 84, 86, 88

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0257

Hole No. CP05-EAARS-CB-0257

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.4 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.2 | 88.6 | | | | | -78.2 | |
| | | | | | | -78.6 | |
| | | | SAND: light grey, medium dense, well graded, fine to coarse, wet, quartz, black mineral medium sand size | | 19 | SPT | 13, 15, 16 |
| | | | | | | -83.6 | |
| | | | SAND: some gravel, grey, medium dense, well graded, fine to coarse, subangular to subrounded, cemented sand, angular to subangular, wet, quartz subrounded medium sand | | 20 | SPT | 8, 8, 6 |
| | | | | | | -88.6 | |
| | | | SAND: some gravel, light grey, medium dense, well graded, fine to coarse, subangular to angular, pieces cemented sand, shell flakes, wet, quartz subrounded medium sand | | 21 | SPT | 9, 7, 7 |
| -90.1 | 100.5 | | | | | | |
| | | | End of Boring at 100.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0257

Hole No. CP05-EAARS-CB-0258

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N780135.8, E770597.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0258 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| 7. Thickness of Burden: N/A | 16. Date Hole Started 8/5/2005 Completed 8/9/2005 |
| 8. Thickness of cap rock: N/A | 17. Elevation Top of Hole: 10.4 (ft) |
| 9. Depth of hole: 100 ft | 18. Total Core Recovery for hole: N/A |
| | 19. Inspector: N. Hoist |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.4 | 0.0 | | | | | | |
| | | | PEAT: brownish black, moist, loose, fine grained, non-plastic, organic, roots | | 1 | 10.4 SPT, All calcitic material noted below is at least in part shells. | 3, 3, 3 |
| | | | | | 2 | 8.9 SPT | 2, 2, 3 |
| | | | | | 3 | 7.4 SPT | 2, 27, 50/4" |
| 5.9 | 4.5 | | | | | 5.9 | |
| | | | LIMESTONE: tan to light gray and light brown, thinly bedded, fine to coarse grained, fossiliferous, vuggs, strong and hard to soft, weak and porous | 54 (RQD 22%) | 1 | HQ coring; Ranges from wackestone to grainstone | |
| 1.9 | 8.5 | | | | | | |
| | | | Gravelly SAND: light brownish gray, very dense, wet, well graded, fine to coarse grained, angular,calcitic, some silt | | 4 | 0.9 SPT, Hard drilling from 10 to 11.5 feet | 33, 50/3" |
| -3.1 | 13.5 | | | | | -3.1 | |
| | | | SAND: light grey, medium dense, wet, moderately graded, fine to medium grained, angular, calcitic , some silt | | 5 | SPT | 14, 12, 14 |

continued

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0258 |

Hole No. CP05-EAARS-CB-0258

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5 |
|---|---|---|---|---|---|---|---|
| -4.6 | 15.0 | | | | | -4.6 | |
| | | | SAND: greenish grey, medium dense, wet, poorly graded, fine grained, sub rounded, calcitic, trace silt | | | -8.1 | |
| | | | | | 6 | SPT | 40, 16, 14 |
| -13.1 | 23.5 | | | | | -13.1 | |
| | | | GRAVEL: pale brownish grey, very dense, wet, well graded, fine to coarse, angular, limestone, trace sand | | 7 | SPT | 47, 12, 40 |
| -18.1 | 28.5 | | | | | -18.1 | |
| | | | Gravelly SAND: pale brownish grey, medium dense, well graded, fine to coarse, calcitic, angular with gravel as above, trace silt | | 8 | SPT | 22, 14, 12 |

16 18 20 22 24 26 28 30 32

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0258

Hole No. CP05-EAARS-CB-0258

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.0 | 33.4 | | | | | -23.0 | |
| -23.1 | 33.5 | | SAND: as above but very dense and less (trace) gravel; no silt | | 9 | -23.1<br>SPT; Hard drilling from 35.5 to 37 feet | 30<br>38<br>50/2" |
| -28.1 | 38.5 | | | | | -28.1 | |
| | | | Calcareous SANDSTONE or Sandy LIMESTONE: only coarse sand to fine gravel sized angular fragments | | 10 | SPT; Caloosahatchee Formation | 50/3" |
| -33.1 | 43.5 | | | | | -33.1 | |
| | | | SAND: pale brownish gray, medium dense, wet, uniform, fine grained, subrounded, quartzose with traces, fine to medium, calcitic sand and fine gravel | | 11 | SPT | 10<br>8<br>6 |
| | | | | | | -38.1 | |
| | | | SAND: as above but more (some) fine to coarse, angular, calcitic sand, no gravel and dense | | 12 | SPT | 19<br>24<br>25 |

34 36 38 40 42 44 46 48 50

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0258

Hole No. CP05-EAARS-CB-0258

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.4 | 51.8 | | | | | -41.4 | |
| | | | SAND: pale greenish grey, wet, medium dense, uniform, fine grained, quartzose, subrounded, with trace calcitic, angular, fine to coarse sand and some gravel | | 13 | SPT | 7, 12, 16 |
| | | | SAND: pale brownish grey, wet, medium dense, subequal amounts of fine to coarse, angular, calcitic and fine, subangular, quartzose, trace silt | | 14 | SPT | 11, 13, 11 |
| | | | SAND: as above but some gravel | | 15 | SPT | 13, 14, 14 |
| | | | SAND: as above but dense and mostly fine to coarse, angular, and calcitic, some fine, subrounded and quartzose, some gravel | | 16 | SPT: Ochopee layer | 11, 15, 20 |

-43.1 -48.1 -53.1 -58.1

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0258

Hole No. CP05-EAARS-CB-0258

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.8 | 70.2 | | | | | -59.8 | |
| | | | | | | | 72 |
| | | | | | | -63.1 | |
| | | | SAND: pale brownish grey, wet, medium dense, well graded, fine to coarse, angular, calcitic with trace fine, subrounded quartz, trace silt and fine gravel | | 17 | SPT | 11<br>11<br>10 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | | | | -68.1 | |
| | | | SAND: as above but more (some) silt, still traces quartz sand and gravel | | 18 | SPT | 13<br>13<br>20 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | | | | -73.1 | |
| | | | SAND: light greenish grey, wet, medium dense, almost all uniform, fine grained, subrounded and quartzose, trace fine to coarse, angular, calcitic | | 19 | SPT | 4<br>7<br>10 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |
| | | | | | | -78.1 | |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0258

Hole No. CP05-EAARS-CB-0258

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 6 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.2 | 88.6 | | | | | -78.2 | |
| | | | SAND: light gray, dense, wet, well graded, fine to medium, subangular to subrounded, subequal parts quartz and calcitic sand | | 20 | SPT | 14<br>16<br>28 |
| | | | | | | -83.1 | |
| | | | SAND: as above but fine to coarse with a trace silt and some gravel, some coarse sand and gravel is aggregates of finer particles | | 21 | SPT | 13<br>17<br>18 |
| | | | | | | -88.1 | |
| | | | SAND: as above | | 22 | SPT | 15<br>10<br>18 |
| -89.6 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0258

Hole No. CP05-EAARS-CB-0259

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N776942.1, E772726.6 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No. CP05-EAARS-CB-0259 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/15/2005 Completed 7/18/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Hoist | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.0 | 0.0 | | Gravelly SAND: tan to light brown, dry, very dense, well graded, fine to coarse grained, angular calcitic, road fill | | 1 | 10.0 SPT 8.5 | 35, 37, 37 |
| | | | | | 2 | SPT 7.0 | 43, 34, 21 |
| 7.0 | 3.0 | | LIMESTONE: caprock, tan to light brown, fine grained, fossiliferous, thinly bedded, vuggy, strong and hard to soft, weak and porous | 56 (RQD 24%) | 1 | 6.5 SPT HQ coring; UCS=1430psi | 50/6" |
| 4.0 | 6.0 | | No recovery: probably sand as below | | | | |
| 2.0 | 8.0 | | LIMESTONE: as above, but pale yellowish grey. Longest cylindrical piece is 0.15 ft between 8 and 10 ft. | 55 (RQD 0%) | 2 | 2.0 SPT HQ coring; very hard 8.0 to 8.5 feet 0.5 | 50/0" |
| 0.0 | 10.0 | | SAND: pale brownish grey, wet, loose angular, calcitic, with some silt, well graded, fine to coarse grained | | 5 | -3.5 SPT | 3, 3, 1 |

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EWO FORM 1836 (Reproduced on Sheet 1 of 6)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0259 |

Hole No. CP05-EAARS-CB-0259

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.0 | 15.0 | | | | | -5.0 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -8.5 | |
| | | | SAND: as above but pale greenish grey and medium dense | | 6 | SPT | 7, 8, 8 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -13.5 | |
| | | | SAND: as above but dense with some fine gravel | | 7 | SPT | 16, 16, 21 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -18.5 | |
| | | | SAND: as above but very dense | | 8 | SPT | 18, 21, 31 |
| | | | | | | | 30 |
| | | | | | | | 32 |

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ENG FORM 1836 Previous editions are obsolete

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0259

Hole No. CP05-EAARS-CB-0259

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.4 | 33.4 | | | | | -23.4 | |
| -23.5 | 33.5 | | Gravelly SAND: as above but more gravel and very dense | | 9 | -23.5 SPT | 4, 6, 50/2" |
| -28.5 | 38.5 | | SAND: pale greenish grey, wet, medium dense, well graded, fine to coarse grained, mostly fine, subrounded and quartzose or angular cemented | | 10 | -28.5 SPT; Caloosahatchee Formation | 13, 8, 7 |
| | | | SAND: pale brownish grey, wet, loose, subrounded, poorly graded, fine grained, trace of fine to coarse grained, angular, calcitic | | 11 | -33.5 SPT | 2, 2, 3 |
| | | | SAND: as above | | 12 | -38.5 SPT | 4, 4, 6 |

34 36 38 40 42 44 46 48 50

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0259

Hole No. CP05-EAARS-CB-0259

| DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10 | Sheet 4 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.8 | 51.8 | | | | | -41.8 | |
| | | | SAND: pale greenish grey, wet, dense, poorly graded, fine to coarse grained, mostly fine subrounded and quartzose, some cemented _____ and angular, calcitic | | 13 | -43.5 SPT | 9, 10, 24 |
| | | | SAND: pale greenish grey, wet, medium dense, well graded, subequal amounts of fine subrounded quartzose and fine to coarse, angular, calcitic | | 14 | -48.8 SPT | 14, 10, 9 |
| | | | SAND: as above but mostly fine to coarse grained, angular and calcitic, trace fine gravel, trace silt | | 15 | -53.5 SPT | 8, 13, 13 |
| | | | SAND: pale greenish grey, wet, dense, poorly graded, mostly fine grained, subrounded, quartzose, trace fine to coarse, angular, calcitic, trace silt | | 16 | -58.5 SPT | 22, 22, 17 |

52 54 56 58 60 62 64 66 68 70

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0259 |

Hole No. CP05-EAARS-CB-0259

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10 | Sheet 5 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -60.2 | 70.2 | | | | | -60.2 | |
| | | | | | | | 72 |
| | | | SAND: as above but trace gravel | | | -63.5 | |
| | | | | | 17 | SPT | 9, 9, 21 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | SAND: as above but subequal amounts of fine, subrounded, quartzose and fine to coarse, angular, calcitic, some fine gravel and trace silt | | | -68.5 | |
| | | | | | 18 | SPT; Ochopee layer | 15, 11, 10 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| -73.5 | 83.5 | | | | | -73.5 | |
| | | | Only one LIMESTONE fragment | | | | 50/0" |
| -74.5 | 84.5 | | | | 19 | SPT; hard from 83.5 to 84.5 feet | |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |
| | | | | | | -78.5 | |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0259

Hole No. CP05-EAARS-CB-0259

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 6 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.6 | 88.6 | | | | | -78.6 | |
| | | | SAND: pale greenish grey, wet, medium dense, well graded, fine to coarse grained, mostly fine grained, subrounded quartzose or calcitic cemented clasts of the same | | 20 | SPT | 12, 10, 6 |
| | | | | | | -83.5 | |
| | | | SAND: as above but trace fine gravel | | 21 | SPT | 12, 11, 10 |
| | | | | | | -88.5 | |
| | | | SAND: as above but more (some) fine gravel | | 22 | SPT | 7, 5, 7 |
| -90.0 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0259 |

Hole No. CP05-EAARS-CB-0260

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N773583.6, E775194.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0260 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/28/2005 Completed 8/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.5 | 0.0 | | | | | | |
| | | | PEAT: black, loose, poorly graded, fine grained, dry, mostly organic | | 1 | 10.5 SPT 9.0 | 1, 3, 3 |
| | | | Same as above except medium dense, wet | | 2 | SPT 7.5 | 3, 6, 7 |
| | | | Same as above with some stone chips | | 3 | SPT 5.5 | 2, 2, 14 |
| | | | Same as above | | 4 | SPT: Casing 0 to 5 feet due to rocks obstructing borehole advancement 3.5 | 4, 10, 9 |
| 2.5 | 8.0 | | | | 5 | 2.5 SPT | 50/4" |
| | | | A few small pieces of limestone recovered LIMESTONE: traces of shells, voids do not appear very common | 48 (RQD 22%) | 1 | HQ coring; UCS=9768psi; Core: 7 to 12 feet; 22" of total recovery, one piece each of 4.5", 4.75", 9" and 5.75" -1.5 | |
| -1.5 | 12.0 | | | | | | |
| | | | SAND: light brown, very dense, medium graded, fine to coarse grained, angular, cemented, wet, with traces of shell fragments | | 6 | SPT -3.0 | 29, 50/6" |
| | | | SAND: light grey, dense, poorly gradett, fine to medium grained, subangular, wet | | 7 | SPT; pieces of limestone recovered | 9, 14, 19 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0260 |

Hole No. CP05-EAARS-CB-0260

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 2 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.5 | 15.0 | | | | | -4.5 | |
| | | | SAND: greenish grey, medium dense, moderately graded, fine to medium grained, subangular calcitic sand, wet | | 8 | -8.0 SPT | 9<br>2<br>20 |
| | | | Only a few shells recovered | | 9 | -13.0 SPT; Spoon bouncing; No recovery; Hard drilling from 24 to 24.5 feet | 50/5" |
| | | | SAND: greenish grey, very dense, moderately graded, fine to medium grained, subangular, wet | | 10 | -18.0 SPT; Spoon bouncing; lost 20% circulation | 19<br>40<br>50/4" |

16 18 20 22 24 26 28 30 32

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0260

Hole No. CP05-EAARS-CB-0260

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.9 | 33.4 | | | | | -22.9 | |
| | | | SAND; greenish grey, very dense, poorly graded, fine grained, subangular calcitic sand, rounded quartz sand, wet, trace phosphate | | 11 | -23.0<br>SPT; Caloosahatchee Formation; one limestone chip recovered | 50/5" |
| | | | SAND: greenish to light grey, dense, poorly graded, fine grained, subangular calcitic sand, rounded quartz, wet, trace phosphate | | 12 | -28.0<br>SPT | 22<br>24<br>18 |
| | | | SAND: greenish grey, medium dense, poorly graded, fine grained, subrounded, calcitic sand, rounded quartz | | 13 | -33.0<br>SPT | 13<br>13<br>15 |
| | | | Same as above except very dense | | 14 | -38.0<br>SPT | 19<br>21<br>29 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0260

Hole No. CP05-EAARS-CB-0260

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.3 | 51.8 | | | | | -41.3 | |
| | | | | | | | 52 |
| | | | | | | -43.0 | |
| | | | Same as above except dense, few gravelly pieces at sample bottom | | 15 | SPT | 17, 15, 15 |
| | | | | | | | 54 |
| | | | | | | | 56 |
| | | | | | | -48.0 | 58 |
| | | | Same as above except very dense. One Limestone piece recovered at sample bottom. | | 16 | SPT | 16, 32, 38 |
| | | | | | | | 60 |
| | | | | | | | 62 |
| | | | | | | -53.0 | |
| | | | SAND: greenish grey, dense, moderately graded, fine to medium grained, subangular, calcitic sand, subrounded quartz, wet, shells present, a couple of stone chips recovered at sample top | | 17 | SPT | 24, 24, 15 |
| | | | | | | | 64 |
| | | | | | | | 66 |
| -58.0 | 68.5 | | | | | -58.0 | 68 |
| | | | Gravelly SAND: greenish grey, medium dense, poorly graded, fine to coarse grained, angular calcitic sand, sub-rounded quartz, cemented, wet | | 18 | SPT | 10, 14, 11 |
| | | | | | | (continued) | 70 |

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0260

Hole No. CP05-EAARS-CB-0260

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 5 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.7 | 70.2 | | | | | -59.7 | |
| | | | | | | | 72 |
| | | | Same as above | | | -63.0 | |
| | | | | | 19 | SPT | 6, 8, 11 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| -68.0 | 78.5 | | | | | -68.0 | 78 |
| | | | SAND, greenish grey, very dense, poorly graded, fine to coarse grained, subangular calcitic sand, rounded quartz, cemented, wet, brace shells, couple stone pieces recovered | | 20 | SPT | 12, 10, 50/5" |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | Same as above - except medium dense | | | -73.0 | |
| | | | | | 21 | SPT | 9, 14, 12 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | -78.0 | 88 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0260

Hole No. CP05-EAARS-CB-0260

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 6 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.1 | 88.6 | | | | | -78.1 | |
| | | | SAND; greenish grey, medium dense, poorly graded, fine to medium grained, subangular calcitic, subrounded quartz, wet | | 22 | SPT; trace shell | 17<br>14<br>13 |
| | | | | | | -83.0 | |
| | | | SAND; greenish grey, medium dense, moderately graded, fine to medium grained, wet, quite gravelly, few small chips of limestone | | 23 | SPT | 7<br>7<br>8 |
| | | | | | | -88.0 | |
| | | | | | 24 | SPT | 10<br>17<br>13 |
| -89.5 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0260 |

# APPENDIX 2

## SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 261-280

Hole No. CP05-EAARS-CB-0261

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N770311.3, E777073.7 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0261 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/18/2005 Completed 7/18/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: J. Petrie and A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.1 | 0.0 | | | | | | |
| 8.6 | 1.5 | | ROADFILL: Sandy GRAVEL, dense, creamy grey, well graded, fine and coarse, subangular to angular, dry | | 1 | 10.1 SPT 8.6 | 22, 33, 12 |
| 6.6 | 3.5 | | PEAT: black, very loose, fine grained, clayey<br>Sample jar # 3) Peat | | 2 | SPT 7.1 | 1, 1, 1 |
| 4.6 | 5.5 | | 3a) Gravelly SAND: greenish grey, dense, angular calcitic sand, wet | | 3 | SPT 5.6 | 1, 6, 27 |
| | | | Same as above - but very dense, limestone chips | | 4 | 4.6 SPT | 12, 50/4" |
| -0.4 | 10.5 | | LIMESTONE: light grey to white, very hard, shell fragments, quite porous | 32 (RQD 14%) | 1 | HQ coring. UCS=4340psi; Core 5.5 to 10.5 feet -0.4 | |
| | | | SAND: greenish grey, medium dense, moderately graded, angular calcitic sand, wet, trace gravel | | 5 | SPT; 2 limestone chips recovered -3.4 | 8, 8, 8 |
| | | | SAND: light grey, medium dense, moderately graded, angular calcitic sand, wet | | 6 | SPT, Hard drilling from 12 to 13.5 feet | 12, 8, 5 |

continued

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0261 |

Hole No. CP05-EAARS-CB-0261

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.9 | 15.0 | | | | | -4.9 | |
| | | | SAND: light grey, medium dense, poorly graded, subangular calcitic sand, wet, fine sand present, trace silt | | 7 | SPT | 16<br>15<br>10 |
| | | | | | | -8.4 | |
| | | | Same as above, but greenish grey color | | 8 | SPT | 15<br>10<br>18 |
| | | | | | | -13.4 | |
| | | | SAND: light grey, very dense, poorly graded, subrounded calcitic sand, wet, fine sand present | | 9 | SPT | 50/5" |
| | | | | | | -18.4 | |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0261

Hole No. CP05-EAARS-CB-0261

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.3 | 33.4 | | | | | -23.3 | |
| -23.4 | 33.5 | | Some shells and stone fragments recovered | | | -23.4 | 50/2" |
| | | | | | 10 | SPT; Hard drilling from 33.5 to 36.5 feet | |
| -26.9 | 37.0 | | | | | -26.9 | |
| | | | | | | Caloosahatchee Formation | |
| | | | | | | -28.4 | |
| | | | SAND: greenish grey, medium dense, poorly graded, subrounded calcitic sand, a little rounded quartz, fine sand, trace silt, wet | | 11 | SPT | 8, 14, 12 |
| | | | | | | -33.4 | |
| | | | Same as above | | 12 | SPT | 9, 10, 11 |
| -38.4 | 48.5 | | | | | -38.4 | |
| | | | Gravelly SAND: olive grey, medium dense, moderately graded, subangular calcitic sand, rounded quartz, wet | | 13 | SPT | 6, 6, 5 |

(continued)

DHG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0261 |

Hole No. CP05-EAARS-CB-0261

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.7 | 51.8 | | | | | -41.7 | |
| | | | | | | -43.4 | |
| | | | Same as above - chips of stone recovered | | 14 | SPT | 6, 5, 8 |
| -48.4 | 58.5 | | | | | -48.4 | |
| | | | SAND: light grey, dense, poorly graded, rounded quartz, fine sand present, trace silt, wet | | 15 | SPT | 12, 23, 17 |
| | | | | | | -53.4 | |
| | | | SAND: light grey, medium dense, poor to moderate gradation, rounded quartz, subrounded calcitic sand, wet, fine sand | | 16 | SPT | 9, 10, 17 |
| | | | | | | -58.4 | |
| | | | SAND: greenish grey, medium dense, poorly graded, subangular, platey, calcitic sand | | 17 | SPT | 11, 7, 14 |

52 54 56 58 60 62 64 66 68 70

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0261

Hole No. CP05-EAARS-CB-0261

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 5 of 9 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -60.1 | 70.2 | | | | | -60.1 | |
| | | | | | | | 72 |
| | | | | | | -63.4 | |
| | | | SAND: greenish grey, medium dense, poorly graded, subrounded calcitic sand, rounded quartz, wet | | 18 | SPT; one piece of limestone recovered | 7, 11, 14 |
| | | | | | | | 74, 76, 78 |
| | | | | | | -68.4 | |
| | | | SAND: greenish grey, medium dense, moderately graded, subangular calcitic sand, rounded quartz, wet, shell fragments recovered | | 19 | SPT | 11, 12, 14 |
| | | | | | | | 80, 82 |
| | | | | | | -73.4 | |
| | | | SAND: olive grey, medium dense, poorly graded, subangular calcitic sand, rounded quartz, wet, fine sand, trace silt | | 20 | SPT | 9, 7, 10 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -78.4 | |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0261

Hole No. CP05-EAARS-CB-0261

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.5 | 88.6 | | | | | -78.5 | |
| | | | SAND: greenish grey, medium dense, poor to moderate, more gravelly gradation, subrounded quartz, subangular calcitic sand, wet, trace phosphate | | 21 | SPT; more gravelly | 13, 11, 16 |
| | | | | | | -83.4 | |
| | | | SAND: greenish grey, medium dense, poorly graded, subrounded quartz, subangular calcitic sand, wet, trace phosphate | | 22 | SPT | 9, 7, 9 |
| | | | | | | -88.4 | |
| | | | SAND: greenish grey, medium dense, poorly graded, rounded quartz, subangular calcitic sand, wet | | 23 | SPT | 11, 12, 17 |
| -89.9 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1838

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0261

Hole No. CP05-EAARS-CB-0262

| DRILLING LOG | Division: | Installation: | Sheet 1 of 8 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N763551, E781692.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0262 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| 7. Thickness of Burden: N/A | 16. Date Hole Started 7/18/2005 Completed 7/20/2005 |
| 8. Thickness of cap rock: N/A | 17. Elevation Top of Hole: 11.8 (ft) |
| 9. Depth of hole: 100.5 ft | 18. Total Core Recovery for hole: N/A |
| | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.8 | 0.0 | | | | | | |
| | | | GRAVEL; light creamy grey, medium dense, fine, some coarse, angular to subangular, dry, silty and sandy | | 1 | 11.8 SPT; Road base | 15, 13, 4 |
| 9.8 | 2.0 | | | | | 9.8 | |
| | | | 2' to 4.5' under our weight - no recovery Peat on side of SPT | | 2 | SPT | 0 |
| | | | | | | 6.8 | |
| | | | 3" soft brown PEAT, then organic CLAY, very soft, brown black, wet | | 3 | SPT | 0, 0, 3 |
| 5.3 | 6.5 | | | | | 5.3 | |
| | | | Light grey, thinly bedded, moderately strong to strong, fine grained LIMESTONE with rodent/worm holes Light grey and creamy brown, molted, medium bedded, moderately strong to strong, fine grained, shelly LIMESTONE becoming porous for bottom 0.3' | 48 (RQD 30%) | 1 | HQ coring; UCS=3690psi | |
| 0.3 | 11.5 | | | | | 0.3 | |
| | | | Gravelly SAND: light grey, medium dense, well graded, fine to coarse, angular to subangular, wet, gravel flakes (fine size), limestone shell fragments | | | -2.2 | |
| | | | | | 4 | SPT | 10, 15 |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0262 |

Hole No. CP05-EAARS-CB-0262

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 2 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.2 | 15.0 | | | | | -3.2 | 8 |
| -7.2 | 19.0 | | Clayey SAND: light grey, medium dense, well graded, fine to coarse, subangular, wet, shelly, fine quartz, calcareous sand | | 5 | -7.2 SPT; soft and hard bands 0.5' thick | 7, 11, 8 |
| -12.2 | 24.0 | | SAND: light grey, medium dense, well graded, fine to medium, subangular with some fine gravel sized cemented sand, pieces and traces of clay, black rounded grains, fine medium sand | | 6 | -12.2 SPT; thin cemented horizons less than 0.5' thick | 2, 3, 11 |
| -17.2 | 29.0 | | Clayey SAND: dark brown, loose, well graded, fine o coarse, some hard cemented fine gravel, subangular, shelly | | 7 | -17.2 SPT | 5, 4, 14 |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0262 |

Hole No. CP05-EAARS-CB-0262

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8' | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.6 | 33.4 | | | | | -21.6 | |
| -22.2 | 34.0 | | | | | -22.2 | |
| | | | Only gravel pieces recovered | | 8 | SPT | 50/5" |
| -27.2 | 39.0 | | | | | -27.2 | |
| | | | Gravelly SAND: light grey, medium dense, well graded, fine to coarse, angular to subangular, fine, some coarse strong cemented sand, with subrounded quartz grain, shells and fragments | | 9 | SPT | 12, 8, 6 |
| -32.2 | 44.0 | | | | | -32.2 | |
| | | | SAND: light creamy grey, medium dense, well graded, fine to coarse, subangular, mostly quartz, subrounded | | 10 | SPT; Quick drilling, occasional rattle | 4, 10, 16 |
| | | | | | | -37.2 | |
| | | | As above, shelly fine to medium, sand fragments. (50/50 quartz shells), some subangular gravel, cemented sand | | 11 | SPT | 4, 5, 6 |

34 36 38 40 42 44 46 48 50

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0262

Hole No. CP05-EAARS-CB-0262

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.8 | Sheet 4 of 9 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -40.0 | 51.8 | | | | | -40.0 | |
| -42.2 | 54.0 | | | | | -42.2 | |
| | | | Gravelly SAND: light grey, medium dense, well graded, fine to coarse, subrounded, rounded, wet, moderately cemented sand (fine gravel size), shell fragments and quartz | | 12 | SPT | 3, 5, 5 |
| | | | | | | -47.2 | |
| | | | Gravelly SAND: light grey, medium dense, well graded, fine to medium, some coarse, subangular, wet, some subangular, angular cemented sand (fine gravel size), trace black mineral, subrounded medium sand, shelly fragments (quartz/shells, 50/50) | | 13 | SPT | 13, 4, 8 |
| -52.2 | 64.0 | | | | | -52.2 | |
| | | | SAND: light grey, medium dense, well graded, fine to medium, some coarse, subangular, with some moderately cemented sand (angular fine occasional coarse gravel size) shell fragments (quartz/shell 50/50) | | 14 | SPT; Occasional cemented horizon 3" thick | 12, 10, 10 |
| | | | | | | -57.2 | |
| | | | SAND: light greenish grey, medium dense, well graded, fine and medium, subangular, mostly quartz, occasional | | 15 | SPT; Occasional | 7, 7 |

(CONTINUED)

EH2 FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0262

Hole No. CP05-EAARS-CB-0262

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -58.4 | 70.2 | | | | | -58.4 | |
| | | | shelly fragments | | | | 9 |
| | | | | | | cemented horizon 3" thick | |
| | | | | | | | 72 |
| | | | | | | -62.2 | |
| | | | SAND: as above for 0.7' then Sandy GRAVEL, grey, medium dense, fine occasional coarse, subangular, cemented (moderately) fine to medium, some coarse sand with shelly fragments, mostly quartz sand | | 16 | SPT | 3 |
| | | | | | | | 6 |
| | | | | | | | 22 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| -67.2 | 79.0 | | | | | -67.2 | |
| | | | Sandy GRAVEL, grey, dense, fine, coarse, well graded, subangular, cemented (Hard) fine to coarse sand with shell fragments | | 17 | SPT; "Gravelly drilling" | 33 |
| | | | | | | | 50/1" |
| | | | | | | | 80 |
| | | | | | | | 82 |
| -72.2 | 84.0 | | | | | -72.2 | |
| | | | No recovery | | | | 50/1" |
| | | | | | 18 | SPT; 1 ft thick hard cemented band | |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0262

Hole No. CP05-EAARS-CB-0262

DRILLING LOG (Cont Sheet) | Elevation Top of Hole 11.8 | Sheet 8 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -76.8 | 88.6 | | | | | -76.8 | |
| | | | | | | -77.2 | |
| | | | SAND: grey, medium dense, fine to coarse, well graded, subangular, some angular cemented sand, (fine gravel size) mostly quartz, trace shells | | 19 | SPT | 7, 9, 11 |
| | | | | | | -82.2 | |
| | | | SAND: grey, medium dense, fine to coarse, well graded, subangular to angular, pieces cemented sand (fine grained), quartz/shells 50/50 | | 20 | SPT | 11, 8, 10 |
| | | | | | | -87.2 | |
| | | | SAND: grey, medium dense, well graded, subangular to subrounded, mostly quartz, some shell fragments | | 21 | SPT | 5, 8, 8 |
| -88.7 | 100.5 | | | | | | |
| | | | End of Boring at 100.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

RWQ FORM 1938

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0262 |

Hole No. CP05-EAARS-CB-0263

| DRILLING LOG | Division: | Installation: | Sheet 1 of 8 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N759777, E784912.6 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0263 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/29/2005 Completed 8/2/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.0 | 0.0 | | | | | | |
| | | | PEAT: black, dry, medium dense, fine grained, organic, with some fine to coarse, angular limestone gravel. Moist at 3.6 ft | | 1 | 11.0 SPT; Fill 9.5 | 5, 5, 6 |
| | | | | | 2 | SPT 8.0 | 10, 7, 4 |
| | | | | | 3 | SPT 6.5 | 4, 2, 3 |
| 6.5 | 4.5 | | | | | | |
| | | | Silty SAND: light brownish grey, wet, medium dense, well graded, fine to coarse, angular, calcitic, slightly plastic with some angular, fine to coarse, limestone, gravel | | 4 | SPT 5.0 | 16, 10, 14 |
| 4.6 | 6.4 | | | | | | |
| | | | LIMESTONE caprock | | 5 | SPT; Limestone caprock from 6.4 to 11 ft 3.5 | 50/5" |
| | | | | | 6 | 2.5 SPT; Only limestone chips at 7.5 ft; Hard drilling from 7.5 to 8.5 ft | 50/2" |
| | | | | 20 (RQD 0%) | 1 | HQ coring | |
| 0.0 | 11.0 | | | | | | |
| | | | Sandy GRAVEL: light brownish grey, very dense, wet, well graded, fine to coarse, angular, limestone | | | -2.5 | |
| | | | | | 7 | SPT; Quit at 13.5 ft on 7/29/05; Resumed 8/2/05; Hard drilling | 30, 50/3" |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0263 |

Hole No. CP05-EAARS-CB-0263

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.0 | 15.0 | | | | | -4.0 | |
| | | | | | | from 13.5 to 14.5 ft | 16 |
| -7.5 | 18.5 | | | | | -7.5 | 18 |
| | | | SAND: pale brownish grey, medium dense, wet, well graded, fine to coarse grained, angular, calcitic, trace silt | | 8 | SPT | 12<br>4<br>7 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -12.5 | 23.5 | | | | | -12.5 | |
| | | | Gravelly SAND: as above but pale greenish grey with fine to coarse, subangular limestone gravel | | 9 | SPT | 7<br>6<br>6 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| -17.5 | 28.5 | | | | | -17.5 | 28 |
| | | | SAND: as above but less (some) gravel and a trace very fine, subrounded, quartzose sand | | 10 | SPT | 10<br>50/3" |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0263

Hole No. CP05-EAARS-CB-0263

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.4 | 33.4 | | | | | -22.4 | |
| | | | SAND: as above but very dense and no gravel | | 11 | -22.5<br>SPT; Hard drilling from 34 to 38.5 ft | 50/6" |
| | | | No recovery | | 12 | -27.5<br>SPT; Spoon bouncing | 50/0" |
| | | | SAND: pale greenish grey, dense, wet, most uniform, fine grained, subrounded and quartzose, trace fine to coarse, angular, calcitic sand | | 13 | -32.5<br>SPT; Caloosahatchee Formation | 10<br>18<br>17 |
| | | | SAND: as above but medium dense | | 14 | -37.5<br>SPT | 10<br>11<br>12 |

34 36 38 40 42 44 46 48 50

(continued)

DWG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0263

Hole No. CP05-EAARS-CB-0263

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -40.8 | 51.8 | | | | | -40.8 | |
| | | | SAND: as above, medium dense | | | -42.5 | |
| | | | | | 15 | SPT | 8, 6, 8 |
| | | | SAND: as above but loose | | | -47.5 | |
| | | | | | 16 | SPT | 6, 3, 5 |
| | | | SAND: as above | | | -52.5 | |
| | | | | | 17 | SPT | 3, 4, 5 |
| | | | SAND: as above but very loose | | | -57.5 | |
| | | | | | 18 | SPT | 1 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0263

Hole No. CP05-EAARS-CB-0263

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 5 of 5 Sheets

Project: EAA Reservoir A-1 | Installation:

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.2 | 70.2 | | | | | -59.2 | |
| -62.5 | 73.5 | | Sandy GRAVEL: pale greenish grey, very dense, wet, well graded, fine to coarse, angular, sandy limestone and calcareous sandstone | | 19 | SPT; Intermittent hard drilling from 75 to 78.5 ft | 38, 42, 20 |
| | | | | | | -67.5 | |
| | | | Sandy GRAVEL: as above | | 20 | SPT | 50/3" |
| -72.5 | 83.5 | | | | | -72.5 | |
| | | | SAND: light greenish grey, dense, wet, well graded, fine to medium grained, equal parts subrounded quartz and angular, calcitic sand | | 21 | SPT | 14, 16, 14 |
| | | | | | | -77.5 | |

72 74 76 78 80 82 84 86 88

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0263

Hole No. CP05-EAARS-CB-0263

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.6 | 88.6 | | | | | -77.6 | |
| | | | SAND: light greenish grey, dense, wet, well graded, fine to coarse grained, mostly angular, calcitic, trace subrounded quartzose | | 22 | SPT | 14, 15, 16 |
| | | | | | | -82.5 | |
| | | | SAND: as above but with some fine gravel and medium dense | | 23 | SPT | 11, 12, 11 |
| | | | | | | -87.5 | |
| | | | SAND: as above with some fine gravel but dense | | 24 | SPT | 14, 19, 14 |
| -89.0 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0263

Hole No. CP05-EAARS-CB-0264

| DRILLING LOG | Division: | Installation: | Sheet 1 of 9 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N756489.3, E786955.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0264 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/19/2005 Completed 7/19/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 13 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 13.0 | 0.0 | | | | | | |
| | | | Gravelly SAND: yellowish grey to light brown, dry, very dense, well graded, fine to coarse grained, angular, calcitic, roadfill | | 1 | 13.0 SPT 11.5 | 39, 40, 33 |
| | | | | | 2 | SPT 9.5 | 18, 18, 23 |
| 9.5 | 3.5 | | PEAT at 3.5 ft to 5.7 ft | | 3 | SPT 6.0 | 1, 2, 2 |
| 7.3 | 5.7 | | | | 4 | SPT 6.5 | 2, 1, 50/5" |
| 6.5 | 6.5 | | Gravelly CLAY: dark gray, plastic, soft | | | | |
| | | | LIMESTONE: pale yellow grey, grey and light brown, fine grained, thinly bedded, fossiliferous, vuggy, moderately strong and hard to soft and weak | 64 (RQD 40%) | 1 | HQ coring, UCS=1530psi 1.5 | |
| 3.0 | 10.0 | | | | | | |
| | | | GRAVEL: pale brownish grey, wet, loose, angular, calcitic, trace sand | | 5 | SPT -0.5 | 2, 2, 5 |
| | | | GRAVEL: as above but very dense | | 6 | SPT; Hard drilling from 13.9 to 18 ft, then intermittent hard (continued) | 50/4" |

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0264 |

Hole No. CP05-EAARS-CB-0264

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13 | Sheet 2 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.0 | 15.0 | | | | | -2.0 | |
| | | | | | | drilling to 16.5 and partial loss of drilling fluid | 16 |
| -5.5 | 18.5 | | | | | -5.5 | 18 |
| | | | SAND: pale brownish grey, wet, loose, well graded, fine to medium grained, angular, calcitic, some gravel and some silt | | 7 | SPT | 3, 1, 6 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -10.5 | |
| | | | SAND: as above but loose and no gravel | | 8 | SPT | 5, 5, 4 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | -15.5 | 28 |
| | | | SAND: as above but dense with a trace fine gravel | | 9 | SPT | 13, 18, 17 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0264 |

Hole No. CP05-EAARS-CB-0264

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13 | Sheet 3 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.4 | 33.4 | | | | | -20.4 | |
| -20.5 | 33.5 | | Gravelly SAND: as above but more gravel | | 10 | -20.5 SPT | 50/3" |
| -25.5 | 38.5 | | Only one angular fragment of LIMESTONE recovered | | 11 | -25.5 SPT; Spoon bouncing; Hard drilling from 38.5 to 42 ft | 50/0" |
| -29.0 | 42.0 | | SAND: pale brownish grey to grey, wet, dense, poorly graded, fine grained, subrounded, quartzose with a trace to some fine to coarse, angular, calcitic sand | | 12 | -30.5 SPT; Caloosahatchee Formation | 20, 17, 17 |
| | | | SAND: as above but pale greenish grey and medium dense, very little calcitic sand <1% | | 13 | -35.5 SPT | 9, 7, 11 |

34, 36, 38, 40, 42, 44, 46, 48, 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0264

Hole No. CP05-EAARS-CB-0264

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -38.8 | 51.8 | | | | | -38.8 | |
| | | | SAND: as above with very little calcitic sand | | | -40.5 | |
| | | | | | 14 | SPT | 6, 8, 12 |
| | | | SAND: as above | | | -45.5 | |
| | | | | | 15 | SPT | 5, 5, 8 |
| | | | SAND: as above but loose | | | -50.5 | |
| | | | | | 16 | SPT | 2, 2, 2 |
| | | | SAND: pale greenish grey, wet, dense, gap graded, fine to coarse grained, subequal amounts of fine grained, subrounded, quartzose and fine to coarse, angular, calcitic, some gravel | | 17 | -55.5 SPT; Ochopee Limestone | 13, 18, 14 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0264

Hole No. CP05-EAARS-CB-0264

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -57.2 | 70.2 | | | | | -57.2 | |
| | | | SAND: as above but medium dense, mostly calcitic, fine to coarse grained, angular with trace silt | | 18 | SPT | 8, 8, 11 |
| -65.5 | 78.5 | | | | | -65.5 | |
| | | | Only Sandy LIMESTONE chips recovered | | 19 | SPT; Intermittent hard drilling from 78.5 to 83.3 ft | 50/2" |
| -70.3 | 83.3 | | | | | -70.5 | |
| | | | SAND: pale greenish grey, wet, medium dense, poorly graded, mostly fine to coarse grained, angular, calcitic with fine grained, subrounded, quartzose in lesser amount | | 20 | SPT | 29, 18, 11 |
| | | | | | | -75.5 | |

(CONTINUED)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0264 |

Hole No. CP05-EAARS-CB-0264

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -75.6 | 88.6 | | | | | -75.6 | |
| | | | SAND: as above but medium grey | | 21 | SPT | 9<br>5<br>6 |
| | | | | | | -80.5 | |
| | | | SAND: light greenish grey, wet, dense, poorly graded, fine to coarse grained, fine sand is subrounded and quartzose, medium to coarse is angular, calcite cemented aggregates of the fine | | 22 | SPT | 16<br>16<br>16 |
| | | | | | | -85.5 | |
| | | | SAND: as above but trace calcitic (shell fragments) sand | | 23 | SPT | 13<br>23<br>26 |
| -87.0 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

Depth scale: 90, 92, 94, 96, 98, 100, 102, 104, 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0264 |

Hole No. CP05-EAARS-CB-0265

| DRILLING LOG | Division: | Installation: | Sheet 1 of 8 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N753196.9, E789525.6 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0265 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/28/2005 Completed 7/28/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.9 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.9 | 0.0 | | | | | | |
| | | | PEAT: black, fine grained, moist, loose to moderately dense, organic | | | 10.9 | 4 |
| | | | | | 1 | SPT | 4 |
| | | | | | | 9.4 | 9 |
| | | | | | | | 5 |
| | | | | | 2 | SPT | 5 |
| | | | | | | 7.9 | 3 |
| | | | Wet at 3.0 ft, limestone chips | | | | 0 |
| | | | | | 3 | SPT | 0 |
| 6.5 | 4.4 | | | | | 6.5 | 18 |
| | | | LIMESTONE: tan, fine to coarse, thinly bedded, fossiliferous, vuggy, strong and hard to soft, weak, porous, friable | | | 6.4 | 50/0" |
| | | | | | 4 | 5.7 SPT | |
| | | | | | | HQ coring; GW; Well graded gravel with sand; Hard drilling at 4.4 ft; Spoon bouncing | |
| | | | Limestone above is probably a boulder in Fill | | | | |
| 3.9 | 7.0 | | | | | Limestone is probably a boulder in Fill | |
| | | | PEAT: as above and limestone chips | | | | |
| | | | | | | 1.4 | |
| | | | | | | | 50/5" |
| | | | | | 5 | SPT | |
| -2.1 | 13.0 | | | | | | |
| | | | Silty SAND: pale greenish grey, well graded, fine to coarse grained, angular, calcitic, loose, trace limestone gravel, wet | | | -2.6 | |
| | | | | | | | 3 |
| | | | | | 6 | SPT: Hard drilling from 12.5 to 13 ft | 5 |
| | | | | | | | 3 |

(continued)

ENG FORM 1836, previous editions are obsolete.

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0265 |

Hole No. CP05-EAARS-CB-0265

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 2 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.1 | 15.0 | | | | | -4.1 | |
| -7.6 | 18.5 | | | | | -7.6 | |
| | | | SAND: as above but pale brownish grey, medium dense, and less (trace) silt | | 7 | SPT | 6, 13, 15 |
| | | | | | | -12.6 | |
| | | | SAND: pale greenish grey, wet, well graded, fine to coarse, angular calcitic, loose, some silt, trace very fine quartz sand | | 8 | SPT | 7, 5, 4 |
| | | | | | | -17.6 | |
| | | | SAND: as above but pale brownish grey with trace plastic fines (clay?) and more (some) very fine quartz sand | | 9 | SPT; Spun 4" casing to 10 ft | 14, 5, 11 |
| | | | | | | -19.1 | |
| | | | | | | Caloosahatchee Formation | |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0265

Hole No. CP05-EAARS-CB-0265

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.5 | 33.4 | | | | | -22.5 | |
| | | | SAND: pale greenish grey, wet, medium dense, well graded, subequal amount, fine, quartz, subrounded and fine to coarse, angular, calcitic sand, trace gravel | | 10 | -22.6<br>SPT; Firm to hard drilling to 38.5 ft | 3<br>4<br>15 |
| | | | SAND: as above with limestone chips | | 11 | -27.6<br>SPT | 50/4" |
| -32.6 | 43.5 | | | | | -32.6 | |
| | | | Sandy GRAVEL: pale greenish grey, dense, wet, poorly graded, fine angular sandy limestone gravel with sand as above | | 12 | SPT | 13<br>17<br>21 |
| -37.5 | 48.5 | | | | | -37.5 | |
| | | | SAND: light olive grey, dense, wet, mostly uniform, fine grained, quartzose, some fine to coarse, angular, calcitic | | 13 | SPT | 9<br>11<br>20 |

34 36 38 40 42 44 46 48 50

(continued)

END FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0265

Hole No. CP05-EAARS-CB-0265

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -40.9 | 51.8 | | | | | -40.9 | |
| | | | | | | | 52 |
| | | | | | | -42.6 | |
| | | | SAND: as above but only a trace calcitic sand, almost all fine quartz and medium dense, trace silt | | 14 | SPT | 10, 9, 10 |
| | | | | | | | 54 |
| | | | | | | | 56 |
| | | | | | | -47.6 | |
| | | | SAND: as above | | 15 | SPT | 5, 6, 7 |
| | | | | | | | 58 |
| | | | | | | | 60 |
| | | | | | | | 62 |
| | | | | | | -52.6 | |
| | | | SAND: as above but loose | | 16 | SPT | 3, 3, 3 |
| | | | | | | | 64 |
| | | | | | | | 66 |
| | | | | | | -57.6 | |
| | | | SAND: pale greenish grey, wet, medium dense, poorly graded, subequal portions, fine subrounded, quartzose and fine to coarse, angular calcitic trace gravel | | 17 | SPT; Ochopee Limestone | 11, 10, 13 |
| | | | | | | | 68 |
| | | | | | | | 70 |

(continued)

ENG FORM 1836 previous editions are obsolete

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0265

Hole No. CP05-EAARS-CB-0265

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.9 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.3 | 70.2 | | | | | -59.3 | |
| -62.6 | 73.5 | | Gravelly SAND: asa above but very dense and more fine, angular gravel consisting of shell fragments and cemented aggregates | | 18 | SPT | 32, 30, 50/5" |
| | | | Gravelly SAND: as above, but medium dense and trace silt | | 19 | SPT | 28, 14, 14 |
| | | | Gravelly SAND: as above but very dense and light olive grey, trace silt | | 20 | SPT | 11, 50/4" |
| | | | | | | -67.6 | |
| | | | | | | -72.6 | |
| | | | | | | -77.6 | |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0265

Hole No. CP05-EAARS-CB-0265

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 6 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.7 | 88.6 | | | | | -77.7 | |
| | | | Gravelly SAND: as above but light greenish grey, medium dense | | 21 | SPT | 15, 10, 11 |
| | | | | | | -82.6 | |
| | | | Gravelly SAND: as above | | 22 | SPT | 23, 17, 25 |
| -87.6 | 98.5 | | | | | -87.6 | |
| | | | SAND: light grey, wet, medium dense, mostly uniform, fine grained, subrounded, quartzose, some fine to medium grained, angular, calcitic | | 23 | SPT | 8, 7, 7 |
| -89.1 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140lb hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0265

Hole No. CP05-EAARS-CB-0266

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750586, E791226.8 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0266 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Travis Williams | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/6/2005 Completed 7/6/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.3 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: A.M. Noronha | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.3 | 0.0 | | | | | | |
| 9.3 | 1.0 | | SAND: light brownish grey, wet, top 0.5 ft medium dense, semi angular calcitic sand, shell fragments, trace gravel and silt | | 1 | 10.3 SPT | 15, 50/5" |
| 6.3 | 4.0 | | CORE: only a few chips of limestone recovered, pale white, shell fragments in chips | 16 (RQD 0%) | 1 | HQ coring, Core: 1.0 to 4.0 ft 6.3 | |
| | | | Gravelly SAND: grey, wet, very dense, angular, carbonate sand | | 2 | 4.8 SPT: CO3=76.6%; SW-SM; Well graded sand with silt+gravel; Moisture=13% | 7, 32, 32 |
| | | | Same as above, except medium dense | | 3 | 3.3 SPT | 5, 6, 6 |
| | | | Gravelly SAND: dark greenish grey, wet | | 4 | 1.8 SPT | 50/4" |
| -1.2 | 11.5 | | Gravelly SAND: angular carbonate sand | | 5 | 0.3 SPT: spoon bouncing; Quite hard drilling from 9.0 to 15.5 ft | 22, 50/1" |
| | | | SAND: finer particles, trace silt, very dense | | 6 | -1.2 SPT, SM, Silty sand; Moisture=24% | 30, 50/4" |
| | | | Same as above, shelly fragments recovered | | 7 | -2.7 SPT | 39, 11, 42 |
| | | | SAND: greenish grey, wet, very dense | | | -4.2 | 50/5" |

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0266 |

Hole No. CP05-EAARS-CB-0266

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.7 | 15.0 | | | | | -4.7 | |
| | | | semiangular, carbonate sand | | | | |
| | | | SAND: light grey, wet, very loose, semi-angular carbonate sand | | 8 | -5.7 SPT; SM; Silty sand with gravel; Moisture=34% | 7 |
| | | | | | 9 | SPT; SM; Silty sand; Moisture=36% -7.2 | 4, 4 |
| | | | Same as above, but dense | | 10 | SPT -8.7 | 7, 17, 20 |
| | | | Same as above, except medium dense and more silt | | 11 | SPT -10.2 | 4, 3, 9 |
| | | | SAND: light grey, wet, medium dense, angular carbonate sand, trace phosphate | | 12 | SPT; SM; Silty sand; Moisture=87% -11.7 | 13, 5, 10 |
| | | | Same as above, shell fragments recovered | | 13 | SPT -13.2 | 8, 9, 7 |
| | | | Same as above | | 14 | SPT -14.7 | 4, 4, 5 |
| | | | Trace semi round quartz | | 15 | SPT -16.2 | 8, 7, 50/5" |
| | | | Sand: greenish grey, wet, dense, semiangular carbonate sand, semi round quartz, trace silt | | 16 | SPT; SW-SM; Well graded sand with silt; Moisture=22% -17.7 | 7, 30, 9 |
| | | | | | 17 | SPT -19.2 | 8, 9, 13 |
| | | | Shell fragments | | 18 | SPT; lost circulation at 30 ft -20.7 | 50/4" |
| | | | SAND: light grey, wet, medium dense, round quartz, semiangular carbonate sand | | 19 | SPT; SM; Silty sand; Moisture=22% -22.2 | 24, 13, 10 |
| | | | Same as above, except very dense | | | | 11, 50/4" |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0266

Hole No. CP05-EAARS-CB-0266

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5 | |
|---|---|---|---|---|---|---|---|---|
| -23.1 | 33.4 | | | | | -23.1 | | |
| | | | Same as above | | 20 | -23.7 SPT; spoon bouncing | 50/3" | 34 |
| | | | | | 21 | SPT; spoon bouncing -25.2 | | |
| | | | Same as above | | 22 | SPT -26.7 | 50/5" | 36 |
| | | | SAND: light grey, wet, dense, semi angular quartz and carbonate sand, trace silt and phosphate | | 23 | SPT; SW-SM; Well graded sand with silt; Moisture=27%; lost circulation at 37 ft -28.2 | 40 30 17 | 38 |
| | | | Same as above, except medium dense, shells recovered | | 24 | SPT | 11 6 6 | |
| -29.7 | 40.0 | | | | | -29.7 | | |
| | | | Hard dark fragments and shell pieces recovered | | 25 | SPT -31.2 | 50/4" | 40 |
| | | | | | 26 | SPT; spoon bouncing -32.7 | 50/5" | 42 |
| | | | Gravelly SAND: greenish grey, wet, very dense, angular, carbonate sand | | 27 | SPT -34.2 | 31 31 20 | 44 |
| -34.2 | 44.5 | | | | | | | |
| | | | SAND: greenish grey, wet, medium dense, mostly semiround quartz, trace silt and phosphate | | 28 | SPT; SP; Poorly graded sand; Moisture=25%; Caloosahatchee Formation -35.7 | 6 11 12 | |
| | | | Top part of sample as above. Bottom part chips of limestone | | 29 | SPT | 9 9 | 46 |
| -36.7 | 47.0 | | | | | | | |
| -37.2 | 47.5 | | Chips of limestone | | | -37.2 | | |
| | | | Same as above (top portion of above sample) | | 30 | SPT -38.7 | 8 9 20 | 48 |
| -38.7 | 49.0 | | | | | | | |
| | | | Gravelly SAND: greenish grey, wet, medium dense, semiround quartz and semi angular carbonate sand | | 31 | SPT; SW-SM; Well graded sand with silt; Moisture=21% -40.2 | 4 6 10 | 50 |
| | | | As above, but light grey color, fine sand present | | 32 | SPT; Borehole starting to cave in at | 6 9 | |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0266

Hole No. CP05-EAARS-CB-0266

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' | |
|---|---|---|---|---|---|---|---|---|
| -41.5 | 51.8 | | | | | -41.5 | | |
| | | | Dense, one big chip limestone and shell pieces recovered | | 33 | -41.7 50 ft; Temporary casing 0 to 45 ft SPT | 7, 15, 14, 20 | 52 |
| -43.2 | 53.5 | | | | | -43.2 | | |
| | | | SAND: greenish grey, wet, medium dense, semiround quartz, fine sand present | | 34 | SPT | 6, 7, 9 | 54 |
| | | | | | | -44.7 | | |
| | | | Same as above and shelly and subangular carbonate sand | | 35 | SPT; SM; Silty sand; Moisture=30% | 6, 5, 10 | 56 |
| | | | | | | -46.2 | | |
| | | | Same as above | | 36 | SPT | 5, 6, 10 | |
| | | | | | | -47.7 | | |
| | | | Same as above | | 37 | SPT | 15, 19, 22 | 58 |
| -49.2 | 59.5 | | | | | -49.2 | | |
| | | | Gravelly SAND: greenish grey, wet, medium dense | | 38 | SPT | 7, 17, 6 | 60 |
| -50.7 | 61.0 | | | | | -50.7 | | |
| | | | SAND: light grey, wet, medium dense, shell fragments, semi angular quartz and carbonate sand, trace phosphate | | 39 | -52.2 SPT; SW-SM; Well graded sand with silt+gravel; Moisture=30% | 2, 6, 7, 10 | 62 |
| | | | | | 40 | SPT | 11, 14 | |
| | | | | | | -53.7 | | |
| | | | | | 41 | SPT | 10, 20, 15 | 64 |
| | | | | | | -55.2 | | |
| | | | SAND: greenish grey, wet, dense, semiangular quartz and carbonate sand, fine sand present | | 42 | -56.7 SPT; SW-SM; Well graded sand with silt; Moisture=22% | 11, 17, 22 | 66 |
| | | | Same as above except medium dense | | 43 | SPT | 8, 14, 14 | 68 |
| | | | | | | -58.2 | | |
| | | | Shells recovered | | 44 | SPT; SW-SM; Well graded sand with silt+gravel; | 9, 15, 7 | |
| -59.7 | 70.0 | | | | | -59.7 | | 70 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0266 |

Hole No. CP05-EAARS-CB-0266

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.9 | 70.2 | | | | | -59.9 | |
| | | | Chips of limestone, semi angular carbonate sand, angular quartz, pieces of shell, trace phosphate | | 45 | Moisture=22% | 11, 50/4" |
| | | | | | | -61.2 SPT | |
| | | | Same as above, except dense | | 46 | SPT; spoon bouncing; Temporary casing from 45 to 70 ft | 20, 19, 15 |
| -62.7 | 73.0 | | | | | -62.7 | |
| | | | SAND: light grey, wet, medium dense. Chips of limestone recovered from bottom of sample | | 47 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=21% | 12, 13, 15, 16 |
| | | | | | | -64.2 | |
| | | | | | 48 | SPT; Hard drilling from 74 to 76 ft; spoon bouncing | 14, 50/6" |
| | | | | | | -65.7 | |
| | | | Gravelly SAND: greenish grey, wet, very dense | | 49 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=18%; spoon bouncing | 13, 50/4" |
| | | | | | | -67.2 | |
| | | | Gravelly SAND: olive grey, wet, dense, semi round quartz | | 50 | SPT | 20, 15, 21 |
| | | | | | | -68.7 | |
| | | | Same as above, except medium dense | | 51 | SPT | 17, 9, 9 |
| | | | | | | -70.2 | |
| | | | Same as above | | 52 | SPT | 14, 13, 15 |
| | | | | | | -71.7 | |
| | | | Same as above, except dense | | 53 | SPT | 14, 20, 20 |
| | | | | | | -73.2 | |
| | | | Same as above | | 54 | SPT | 17, 17, 19 |
| | | | | | | -74.7 | |
| | | | Gravelly SAND: olive grey, wet, dense, semiround quartz, trace silt | | 55 | SPT; GW-GM; Well graded gravel with silt and sand; Moisture=14% | 18, 21, 15, 17 |
| | | | | | | -76.2 | |
| | | | Same as above | | 56 | SPT | 18, 16 |
| | | | | | | -77.7 | |
| | | | Predominantly semi round quartz, fine sand present | | | | 21 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0266

Hole No. CP05-EAARS-CB-0266

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.3 | 88.6 | | | | | -78.3 | |
| | | | Gravelly SAND: olive grey, wet, medium dense, semi round quartz, angular carbonate sand,trace silt | | 57 | -79.2 SPT | 17, 20 |
| | | | | | 58 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=14% -80.7 | 31, 13, 11, 13 |
| | | | | | 59 | SPT -82.2 | 11, 8 |
| | | | SAme as above, except dense | | 60 | SPT -83.7 | 16, 25, 18 |
| | | | Same as above, except medium dense | | 61 | SPT -85.2 | 10, 10, 10 |
| | | | Same as above | | 62 | SPT -86.7 | 10, 12, 10 |
| | | | Same as above | | 63 | SPT -88.2 | 12, 12, 11 |
| | | | Same as above | | 64 | SPT | 15, 15, 15 |
| -89.7 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0266

Hole No. CP05-EAARS-CB-0267

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750246, E787702.1 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0267 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Travis Williams | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/14/2005 Completed 7/14/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.7 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: A.M. Noronha | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.7 | 0.0 | | | | | | |
| | | | SAND: greenish grey, very dense, moderate to well graded, angular calcitic sand, dry | | 1 | 10.7 SPT; chips of limestone recovered | 19, 38, 50/5" |
| | | | Same as above, except wet to dry | | 2 | 9.2 SPT; hard drilling from 1 to 3 ft | 27, 38, 50/5" |
| 7.7 | 3.0 | | | | | 7.7 | |
| | | | Gravelly SAND: pale to greenish grey, medium dense, poorly graded, angular, wet | | 3 | SPT | 5, 9, 8 |
| 6.2 | 4.5 | | | | | 6.2 | |
| | | | SAND: olive grey, very dense, moderately graded, angular calcitic sand, wet, fine sand, trace silt | | 4 | SPT | 6, 11, 50/3" |
| 4.7 | 6.0 | | | | | 4.7 | |
| | | | CORE LIMESTONE: white, very hard, quite porous, shells in upper core portion | 54 (RQD 29%) | 1 | HQ coring; Core: 6 to 9.5 ft | |
| 1.2 | 9.5 | | | | | 1.2 | |
| | | | SAND: greenish grey, dense, moderately graded, subangular calcitic sand, wet | | 5 | SPT; limestone chips recovered at the bottom of the sample | 1, 3, 32 |
| | | | | | | -2.8 | |
| | | | SAND: greenish grey, very loose, subangular calcitic sand, wet | | 6 | SPT | 1, 1, 3 |

0 2 4 6 8 10 12 14

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0267 |

Hole No. CP05-EAARS-CB-0267

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 10.7 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.3 | 15.0 | | | | | -4.3 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -7.8 | |
| | | | SAND: light grey, medium dense, moderately graded, subrounded, calcitic sand, wet | | 7 | SPT | 6<br>8<br>9 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -12.8 | |
| | | | Same as above, except very dense | | 8 | SPT; spoon bouncing | 38<br>50/1" |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -17.8 | |
| | | | SAND: greenish grey, very dense, angular, calcitic sand, gravel present, wet | | 9 | SPT; Hard drilling from 24.5 to 37.5 ft | 50/5" |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0267

Hole No. CP05-EAARS-CB-0267

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.7 | 33.4 | | | | | -22.7 | |
| | | | Nothing recovered | | | -22.8 | 50/0" |
| | | | | | 10 | SPT; spoon bouncing | |
| -27.3 | 38.0 | | | | | | |
| | | | Gravelly SAND: greenish grey, dense, poorly graded, subrounded calcitic sand, rounded quartz, wet | | | -27.8 | 8 |
| | | | | | 11 | SPT; Caloosahatchee Formation | 6 |
| | | | | | | | 28 |
| | | | Gravelly SAND: brownish grey, medium dense, subangular, calcitic sand, subrounded quartz, wet | | | -32.8 | 10 |
| | | | | | 12 | SPT | 13 |
| | | | | | | | 12 |
| -37.8 | 48.5 | | | | | -37.8 | |
| | | | SAND: greenish grey, very dense, rounded quartz, subrounded calcitic sand, poorly graded, wet | | | | 32 |
| | | | | | 13 | SPT | 50/4" |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0267

Hole No. CP05-EAARS-CB-0267

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.1 | 51.8 | | | | | -41.1 | |
| | | | | | | -42.8 | |
| | | | Same as above | | 14 | SPT | 28, 50/5" |
| | | | | | | -47.8 | |
| | | | SAND: greenish grey, dense, rounded quartz, subangular calcitic sand, wet | | 15 | SPT | 17, 15, 17 |
| | | | | | | -52.8 | |
| | | | SAND: greenish grey, dense, moderately graded, subangular calcitic sand, wet | | 16 | SPT | 15, 16, 16 |
| | | | | | | -57.8 | |
| | | | Same as above, except chips of limestone and shell fragments recovered | | 17 | SPT | 11, 14, 31 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0267

Hole No. CP05-EAARS-CB-0267

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.5 | 70.2 | | | | | -59.5 | |
| | | | | | | | 72 |
| | | | | | | -62.8 | |
| | | | SAND: greenish grey, very dense, poorly graded, subangular calcitic sand, rounded quartz, wet, fine sand present, trace silt | | 18 | SPT | 17<br>24<br>27 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | | | | -67.8 | |
| | | | Same as above | | 19 | SPT | 6<br>24<br>50/4" |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | | | | -72.8 | |
| | | | SAND: olive grey, loose, poorly graded, angular calcitic sand, subrounded quartz, wet, shells present | | 20 | SPT | 4<br>5<br>3 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |
| -77.8 | 88.5 | | | | | -77.8 | |

(continued)

BNC FORM 1898

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0267

Hole No. CP05-EAARS-CB-0267

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.9 | 88.6 | | | | | -77.9 | |
| | | | Silty SAND: olive grey, medium dense, poorly graded, rounded quartz, wet, predominately fine sand present, trace silt | | 21 | SPT; SM; Silty SAND; Moisture=21% | 3<br>6<br>8 |
| -82.8 | 93.5 | | | | | -82.8 | |
| | | | SAND: olive grey, dense, poorly graded, subrounded quartz, and calcitic sand, wet | | 22 | SPT | 25<br>11<br>24 |
| | | | | | | -87.8 | |
| -89.3 | 100.0 | | SAND: olive grey, dense, moderately graded, sub rounded quartz, sub angular calcetic sand, wet | | 23 | SPT | 21<br>20<br>15 |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

EWO FORM 1039

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0267 |

Hole No. CP05-EAARS-CB-0268

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750548.1, E784360.9 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0268 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Travis Williams | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/11/2005 Completed 7/11/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 8.2 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: A.M. Noronha | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.2 | 0.0 | | | | | | |
| | | | Silty SAND (Peat): black, loose, fine grain, dry to wet, mostly organic | | | 8.2 | 1 |
| | | | | | 1 | SPT | 2 |
| | | | | | | 6.7 | 4 |
| 6.5 | 1.8 | | | | | | 50/4" |
| | | | One piece of hardstone recovered, possibly limestone | | | 6.2 | |
| | | | LIMESTONE: white, a little porous, hard, shells present | | | SPT | |
| | | | | 50 (RQD 12%) | 1 | HQ coring | |
| 1.2 | 7.0 | | | | | 1.2 | |
| | | | Gravelly SAND: light grey, dense, wet, angular, carbonate sand, silt and shells present | | | | 4 |
| | | | | | 3 | SPT; CO3=81.6% | 25 |
| | | | | | | -0.3 | 22 |
| | | | Same as above, except loose | | | | 7 |
| | | | | | 4 | SPT | 4 |
| | | | | | | | 4 |
| -5.3 | 13.5 | | | | | -5.3 | |
| | | | SAND: white, loose, wet, angular, carbonate sand, fine sand present, trace silt | | | | 5 |
| | | | | | 5 | SPT; SM: Silty sand, Moisture=30% | 4 |
| | | | | | | | 3 |

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0268 |

Hole No. CP05-EAARS-CB-0268

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.2 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.8 | 15.0 | | | | | -6.8 | |
| | | | SAND: white, very dense, wet, angular carbonate sand, chips of limestone recovered | | 6 | -10.3<br>SPT; GP-GM; Poorly graded gravel with silt and sand; Moisture=22%; Hard drilling from 19 to 32 ft | 4<br>50/5" |
| | | | Nothing recovered | | 7 | -15.3<br>SPT; spoon bouncing | 50/2" |
| -20.3 | 28.5 | | | | | -20.3 | |
| | | | Chips of limestone recovered, white, porous, shelly | | 8 | SPT | 50/2" |
| -24.3 | 32.5 | | | | | | |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0268 |

Hole No. CP05-EAARS-CB-0268

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.2 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -25.2 | 33.4 | | | | | -25.2 | |
| | | | SAND: light grey, dense, wet, rounded quartz sand, angular carbonate sand, fine sand and silt | | 9 | -25.3<br>SPT; SW-SM; Well graded sand with silt+gravel; Moisture=18%; Caloosahatchee Formation | 15<br>18<br>14 |
| | | | | | | -30.3 | |
| | | | SAND: light grey, dense, wet, rounded quartz, semiangular carbonate sand, more fine sand present, shells present | | 10 | SPT | 11<br>22<br>26 |
| | | | | | | -35.3 | |
| | | | SAND: greenish grey, dense, wet, rounded quartz, angular carbonate sand, shells present | | 11 | SPT | 11<br>15<br>26 |
| -40.3 | 48.5 | | | | | -40.3 | |
| | | | Same as above, more gravelly | | 12 | SPT | 6<br>7<br>6 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0268

Hole No. CP05-EAARS-CB-0268

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.2 | Sheet 4 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -43.6 | 51.8 | | | | | -43.6 | |
| -45.3 | 53.5 | | SAND: greenish grey, dense, wet, angular carbonate sand, semiangular quartz | | 13 | -45.3 SPT | 11, 15, 16 |
| | | | SAND: light grey, very dense, wet, angular, carbonate sand | | 14 | -50.3 SPT | 10, 15, 50/5" |
| | | | SAND: brownish grey, dense, wet, semiangular carbonate and quartz sand, 3 chips of limestone recovered at the bottom of sample | | 15 | -55.3 -56.3 SPT; hard drilling from 61 to 62 ft | 14, 16, 31 |
| | | | | | | Hard drilling from 64.5 to 65.5 ft | |
| | | | SAND: olive grey, medium dense, wet, round quartz, angular carbonate sand, fine sand present | | 16 | -60.3 SPT; one chip of limestone recovered on the top of the | 10, 9, 5 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0268 |

Hole No. CP05-EAARS-CB-0268

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.2 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -62.0 | 70.2 | | | | | -62.0 | |
| | | | | | | sample | |
| | | | | | | -65.3 | |
| | | | SAND: olive grey, medium dense, angular carbonate sand, semi angular quartz, many shell fragments | | 17 | SPT; very shelly sample | 3, 5, 8 |
| -70.3 | 78.5 | | | | | -70.3 | |
| | | | Silty SAND: olive grey, loose, wet, round quartz, angular carbonate sand, fine sand present | | 18 | SPT; SM; Silty Sand; Moisture=26% | 3, 2, 4 |
| | | | | | | -75.3 | |
| | | | Silty SAND: loose, wet, round quartz, semiround carbonate sand | | | | 9 |
| -76.0 | 84.2 | | | | | | |
| -76.2 | 84.4 | | 2" yellowish orange limestone chips | | 19 | SPT; Ochopee Limestone | 3, 5 |
| | | | Gravelly SAND: loose, wet, round quartz, semiround carbonate sand | | | | |
| | | | | | | -80.3 | |

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0268 |

Hole No. CP05-EAARS-CB-0268

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.2 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -80.4 | 88.6 | | | | | -80.4 | |
| | | | Gravelly SAND: olive grey, dense, wet, round quartz, semiround carbonate sand | | 20 | SPT | 14<br>14<br>18 |
| | | | | | | -85.3 | |
| | | | Gravelly SAND: olive grey, medium dense, wet, semiround quartz, semiangular carbonate sand | | 21 | SPT | 14<br>8<br>14 |
| | | | | | | -90.3 | |
| | | | Same as above | | 22 | SPT | 12<br>13<br>19 |
| -91.8 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0268

Hole No. CP05-EAARS-CB-0269

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750200.6, E780370.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0269 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/13/2005 Completed 7/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: A.M. Noronha |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.6 | 0.0 | | | | | | |
| | | | Silty SAND (Peat): black, very loose, wet, mostly organic | | | 10.6 | 1 |
| | | | | | 1 | SPT; SM; Silty sand with gravel; Moisture=137%; mostly peat; one chip of limestone recovered | 1 |
| | | | | | | 9.1 | 1 |
| | | | Couple of limestone chips and peat | | | | 4 |
| 8.4 | 2.3 | | | | | | 50/3" |
| | | | LIMESTONE: mostly pale white, few pieces brownish grey, very hard, shell fragments | | 2 | 8.1 SPT | |
| | | | | 28 (RQD 10%) | 1 | HQ coring; UCS=1570psi; core: 2.5 to 7.5 ft | |
| 3.1 | 7.5 | | | | | 3.1 | |
| | | | SAND: light grey, dense, wet, semiangular carbonate sand, shell fragments | | | 2.1 | |
| | | | | | 3 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=24% | 10 |
| | | | | | | | 8 |
| | | | | | | | 35 |
| | | | | | | -2.9 | |
| | | | SAND: light grey, medium dense, wet, angular calcitic sand, shell fragments, fine sand present, trace silt | | 4 | SPT; SM; Silty sand with gravel; Moisture=32% | 5 |
| | | | | | | | 6 |
| | | | | | | | 6 |

Continued

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0269 |

Hole No. CP05-EAARS-CB-0269

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.4 | 15.0 | | | | | -4.4 | |
| | | | SAND: greenish grey, very dense, wet, angular calcitic sand, shell fragments, fine sand present, trace silt | | 5 | SPT; SW-SM; Well graded sand with silt; Moisture=23% | 17<br>15<br>50/6" |
| -12.9 | 23.5 | | | | | -12.9 | |
| | | | One piece of brownish grey stone recovered | | 6 | SPT; Hard drilling from 19.5 to 32 ft; Spoon bouncing | 50/2" |
| | | | | | | -17.9 | |
| | | | Chips of limestone recovered | | 7 | SPT | 50/2" |
| -21.6 | 32.2 | | | | | | |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0269

Hole No. CP05-EAARS-CB-0269

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.8 | 33.4 | | | | | -22.8 | |
| | | | SAND: light grey, medium dense, semiround quartz, semiangular calcitic sand, fine sand, trace silt | | 8 | -22.9<br>SPT; SP; Poorly graded sand with gravel; Moisture=16%; Caloosahatchee Formation | 16<br>8<br>8 |
| | | | SAND: light grey, dense, wet, angular calcitic sand, subrounded quartz, shells present | | 9 | -27.9<br>SPT; SW-SM; Well graded sand with silt+gravel; Moisture=21% | 5<br>13<br>22 |
| | | | SAND: greenish grey, dense, wet, subrounded quartz, angular calcitic sand, fine sand present, trace silt, 2 pieces of grey limestone recovered | | 10 | -32.9<br>SPT | 9<br>12<br>20 |
| | | | SAND: greenish grey, dense, wet, subangular calcitic sand | | 11 | -37.9<br>SPT | 12<br>15<br>15 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0269

Hole No. CP05-EAARS-CB-0269

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.2 | 51.8 | | | | | -41.2 | |
| | | | SAND: greenish grey, medium dense, wet rounded quartz, angular calcitic sand, more gravelly | | 12 | SPT | 7, 11, 12 |
| | | | SAND: greenish grey, medium dense, wet, angular calcitic sand, rounded quartz, shells present | | 13 | SPT | 22, 11, 7 |
| -52.4 | 63.0 | | Hard drilling from 63 ft to 66 ft<br>Some stone chips recovered | | 14 | SPT; Hard drilling from 63 to 66 ft | 50/1" |
| -55.4 | 66.0 | | | | | | |
| | | | SAND: olive grey, medium dense, wet, angular calcitic sand, rounded quartz, fine sand present | | 15 | SPT; Ochopee Limestone | 8, 7, 10 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0269

Hole No. CP05-EAARS-CB-0269

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.6 | 70.2 | | | | | -59.6 | |
| | | | | | | | 72 |
| | | | | | | -62.9 | |
| | | | SAND: olive grey, medium dense, wet, semiangular calcitic sand, semi rounded quartz | | 16 | SPT | 5, 14, 8 |
| | | | | | | | 74, 76 |
| | | | | | | -67.9 | |
| | | | Same as above | | 17 | SPT | 6, 6, 7 |
| | | | | | | | 78, 80, 82 |
| -72.9 | 83.5 | | | | | -72.9 | |
| | | | Silty SAND: olive grey, loose, wet, rounded quartz, semiangular calcitic sand, most of the sample fine sand and silt | | 18 | SPT | 7, 4, 6 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -77.9 | |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0269 |

Hole No. CP05-EAARS-CB-0269

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 6 of 8 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.0 | 88.6 | | Silty SAND: olive grey, loose, wet | | 19 | -78.0 SPT | 3, 3, 6 |
| -82.9 | 93.5 | | Gravelly SAND: olive grey, dense, wet semiround quartz, semiangular calcitic sand | | 20 | -82.9 SPT | 5, 16, 19 |
| -87.9 | 98.5 | | SAND: greenish grey, very dense, wet, semirounded quartz, semiangular calcitic sand, fine sand present, trace silt | | 21 | -87.9 SPT | 35, 34, 34 |
| -89.4 | 100.0 | | End of Boring at 100' | | | | |

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0269 |

Hole No. CP05-EAARS-CB-0270

| DRILLING LOG | Division: | Installation: Sheet 1 of 6 Sheets |
|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750191.9, E776521.6 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0270 | | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured |
| | | 16. Date Hole Started 7/7/2005 Completed 7/11/2005 |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.4 (ft) |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.4 | 0.0 | | | | | | |
| | | | Gravelly SAND: pale brownish grey, moist, medium dense, well graded, fine to coarse grained, calcitic, road fill | | 1 | 10.4 SPT 8.9 | 6, 10, 8 |
| | | | | | 2 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=158% | 6, 2, 2 |
| 7.9 | 2.5 | | | | | | |
| | | | Peat | | | | |
| 6.9 | 3.5 | | | | | 5.9 | |
| | | | Sandy GRAVEL: weathered LIMESTONE | | 3 | SPT 5.4 | 25, 17, 50/5" |
| 5.4 | 5.0 | | | | | | |
| | | | LIMESTONE: tan to light brown, fine grained, fossiliferous, vuggy, hard and strong to soft, weak and porous | 26 (RQD 22%) | 1 | HQ coring; UCS=1860psi; Cased to 5 ft | |
| 2.1 | 8.3 | | | | | 1.9 | |
| | | | SAND: pale brownish grey, wet, dense, well graded, fine to coarse grained, angular calcitic, trace silt and fine gravel | | 4 | SPT; GW; Silty gravel with sand; Moisture=27% | 4, 15, 34 |
| -3.1 | 13.5 | | | | | -3.1 | |
| | | | Silty SAND: as above but more silt | | 5 | SPT; SW; Well graded sand with gravel; Moisture=38% | 3, 5, 13 |

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0270 |

Hole No. CP05-EAARS-CB-0270

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.6 | 15.0 | | | | | -4.6 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -8.1 | |
| -8.6 | 19.0 | | | | | | 4 |
| | | | GRAVEL: pale brownish grey, wet, very dense, well graded, fine, angular, limestone gravel with some silt and some sand, mostly angular and calcitic, very little quartzose | | 6 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=26%; Hammer broke on SPT # 6 | 50/3" |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -13.1 | 23.5 | | | | | -13.1 | |
| | | | Only a few angular, platy chips of LIMESTONE recovered | | | | 50/1" |
| | | | | | 7 | SPT; Hard drilling to 31.5 ft | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -18.1 | |
| | | | Only a few chips of sandy LIMESTONE recovered | | | | 50/1" |
| | | | | | 8 | SPT; Caloosahatchee Formation | |
| | | | | | | | 30 |
| -21.1 | 31.5 | | | | | | |
| | | | Drilling faster 31.5 ft to 33.2 ft, then hard drilling 36.5 ft | | | | 32 |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0270

Hole No. CP05-EAARS-CB-0270

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.0 | 33.4 | | | | | -23.0 | |
| | | | Only a few Sandy LIMESTONE chips recovered | | 9 | -23.1<br>SPT; Drilling faster 31.5 to 33.2 ft, then hard drilling to 36.5 ft | 50/0" |
| -26.1 | 36.5 | | | | | | |
| -28.1 | 38.5 | | | | | -28.1 | |
| | | | SAND: pale brownish grey, wet, medium dense, uniform, fine grained, subrounded quartzose, trace calcitic, angular | | 10 | SPT | 7<br>8<br>12 |
| | | | | | | -33.1 | |
| | | | SAND: as above but with some fine, angular gravel | | 11 | SPT | 12<br>10<br>10 |
| -38.1 | 48.5 | | | | | -38.1 | |
| | | | Gravelly SAND: as above but more gravel | | 12 | SPT | 7<br>9<br>9 |

continued

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0270

Hole No. CP05-EAARS-CB-0270

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 4 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.4 | 51.8 | | | | | -41.4 | |
| -43.1 | 53.5 | | SAND: pale greenish grey, wet, medium dense, well graded, mostly fine to coarse grained, angular, calcitic, some fine and quartzose, trace fine gravel and silt | | 13 | -43.1 SPT | 10, 8, 12 |
| | | | SAND: as above, but pale brownish grey | | 14 | -48.1 SPT | 14, 12, 16 |
| -53.1 | 63.5 | | Gravelly SAND: as above but more gravel | | 15 | -53.1 SPT; Hole caving below 61 ft; Cased hole to 65 ft | 3, 6, 20 |
| -58.1 | 68.5 | | Only chips of hard calcareous SANDSTONE recovered, about one foot thick | | 16 | -58.1 SPT; Spoon bouncing | 50 |
| -59.1 | 69.5 | | SAND: olive grey, wet, loose, mostly uniform, fine grained, subrounded | | | | |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0270 |

Hole No. CP05-EAARS-CB-0270

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.8 | 70.2 | | | | | -59.8 | |
| | | | quartzose with trace angular, calcitic, fine to coarse sand and fine gravel | | | | 72 |
| | | | | | | -63.1 | |
| | | | | | 17 | SPT | 4, 5, 3 — 74, 76 |
| | | | | | | -68.1 | 78 |
| | | | SAND: as above but with a trace silt and medium dense | | 18 | SPT | 3, 15, 11 — 80, 82 |
| | | | | | | -73.1 | |
| | | | SAND: olive grey, loose, wet, uniform, very fine grained, subrounded, quartzose, trace silt | | 19 | SPT | 3, 4, 6 — 84, 86 |
| | | | | | | -78.1 | 88 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0270

Hole No. CP05-EAARS-CB-0270

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.4 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.2 | 88.6 | | | | | -78.2 | |
| | | | SAND: grey, medium dense, wet, mostly well graded, fine to coarse grained, angular and calcitic, some fine and quartzose, trace silt | | 20 | -78.9 SPT | 4, 9, 14 |
| | | | | | | Ochopee Limestone | 90, 92 |
| | | | SAND: grey as above but no silt | | 21 | -83.1 SPT | 21, 17, 12 |
| | | | | | | | 94, 96, 98 |
| -88.1 | 98.5 | | Gravelly SAND: sand as above but with fine, angular, calcareous gravel and very dense | | 22 | -88.1 SPT | 50 |
| -89.6 | 100.0 | | | | | | 100 |
| | | | End of Boring at 100' | | | NOTES: 1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93. 2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.) | 102, 104, 106 |

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0270

Hole No. CP05-EAARS-CB-0271

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750122.5, E769324.2 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0271 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/12/2005 Completed 7/13/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.7 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.7 | 0.0 | | | | | | |
| | | | Gravelly SAND: pale yellow grey, dry, medium dense, well graded, fine to medium grained, angular, calcitic, becomes wet at 3 ft | | 1 | 10.7 SPT; SM; Silty sand with gravel; Moisture=12% 8.7 | 16, 14, 9 |
| | | | | | 2 | SPT; SM; Silty sand with gravel; Moisture=20%; Road fill | 15, 7, 4 |
| 7.2 | 3.5 | | | | | 7.2 | |
| | | | LIMESTONE: caprock, tan to light brown, fine grained, fossiliferous, thinly bedded, vuggy, strong and hard to soft, weak and porous | 48 (RQD 45%) | 3 1 | 7.2 SPT HQ coring; UCS=4620psi; Drill fluid returned black at 3.5 ft | 50/0" |
| | | | | | | 4.2 | |
| | | | | 25 (RQD 9%) | 2 | HQ coring | |
| 0.7 | 10.0 | | | | | 0.2 | |
| | | | Sandy GRAVEL: pale brown-grey, wet, medium dense, well graded, fine to coarse, calcitic, with calcitic sand, trace silt | | 4 | SPT; SM; Silty sand with gravel; Moisture=24%; Soft at 10 ft; Intermitient hard drilling to 13.5 ft | 9, 8, 19 |
| -2.8 | 13.5 | | | | | -2.8 | |
| | | | SAND: pale brownish grey, wet, medium dense, well graded, fine to coarse grained, angular calcitic, some fine gravel and some silt | | 5 | SPT; CO3=81.8% | 3, 2, 20 |

(continued)

ENG FORM 1836 PROVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0271 |

Hole No. CP05-EAARS-CB-0271

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 2 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.3 | 15.0 | | | | | -4.3 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -7.8 | |
| | | | | | 6 | SPT; SM; Silty sand; Moisture=25% | 14 11 9 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -12.8 | 23.5 | | | | | -12.8 | |
| | | | Gravelly SAND; as above but more gravel and very dense | | 7 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=22%; 21.5 to 22.5-hard drilling | 17 15 50/6" |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| -17.8 | 28.5 | | | | | -17.8 | |
| | | | Only a few angular fragments of LIMESTONE recovered Hard drilling 28.5 to 32.0 ft | | 8 | SPT; 23.5 to 28.5 intermittent hard drilling | 50/2" |
| | | | | | | | 30 |
| -21.3 | 32.0 | | | | | | |
| | | | | | | | 32 |

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0271

Hole No. CP05-EAARS-CB-0271

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 3 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.7 | 33.4 | | | | | -22.7 | |
| -22.8 | 33.5 | | Only Calcareous SANDSTONE fragments recovered, fine grained, quartzose sand with calcite cement, fossiliferous | | 9 | -22.8<br>SPT; hard drilling 28.5 to 32 ft; Caloosahatchee Formation | 50/2" |
| -25.8 | 36.5 | | SAND: pale brownish grey, wet, medium dense, uniform, fine grained, subrounded, quartzose with trace fine to coarse grained, angular, calcitic, fine sand to fine gravel | | | -27.8 | |
| | | | | | 10 | SPT; SP-SM; Poorly graded sand with silt and gravel; Moisture=24%; Hard drilling 33.5 to 36.5 ft | 6<br>5<br>7 |
| | | | SAND: as above but dense and no calcitic sand or gravel | | | -32.8 | |
| | | | | | 11 | SPT | 12<br>14<br>30 |
| | | | SAND: as above but very dense and a trace calcitic, angular, fine to coarse sand | | | -37.8 | |
| | | | | | 12 | SPT | 16<br>50/4" |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0271

Hole No. CP05-EAARS-CB-0271

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.7 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.1 | 51.8 | | | | | -41.1 | |
| | | | SAND: pale brownish grey, wet, medium dense, well graded, mostly angular, fine to coarse grained calcitic with some fine, subrounded quartzose | | 13 | -42.8<br>SPT | 5<br>9<br>7 |
| -47.8 | 58.5 | | | | | -47.8 | |
| | | | Sandy GRAVEL: pale brownish grey, wet, medium dense, well graded, fine grained, angular with quartzose and calcitic sand as above | | 14 | SPT | 4<br>6<br>8 |
| -53.8 | 64.5 | | | | | -52.8 | |
| | | | SAND: pale greenish grey, wet, very dense, well graded, subequal parts of fine, subrounded, quartzose and fine to coarse, angular, calcitic sand | | 15 | SPT; Hard drilling from 64.5 to 67 ft | 13<br>18<br>50/2" |
| -58.0 | 68.7 | | | | | -57.8 | |
| | | | Only angular fragments of sandy LIMESTONE recovered | | 16 | SPT; Hard drilling from 68.7 to 72.5 ft | 50/3" |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0271

Hole No. CP05-EAARS-CB-0271

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.5 | 70.2 | | | | | -59.5 | |
| -61.8 | 72.5 | | SAND: olive grey, wet, loose, uniform, fine grained, subrounded, quartzose, trace silt | | | -62.8 | |
| | | | | | 17 | SPT | 2, 3, 6 |
| | | | SAND: as above but no silt and a trace fine to coarse grained, angular, calcitic sand | | | -67.8 | |
| | | | | | 18 | SPT | 3, 3, 5 |
| | | | SAND: as above but with more (some) angular, fine to coarse grained, calcitic sand, trace silt and medium dense | | | -72.8 | |
| | | | | | 19 | SPT; Ochopee Limestone | 7, 5, 8 |
| | | | | | | -77.8 | |

72 74 76 78 80 82 84 86 88

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE (Sheet 1)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0271

Hole No. CP05-EAARS-CB-0271

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 5 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.9 | 88.6 | | | | | -77.9 | |
| | | | SAND: greenish grey, wet, dense, well graded, subequal parts, angular, fine to coarse grained, calcitic and fine grained, subrounded quartzose | | 20 | SPT | 11, 16, 15 |
| | | | | | | | 90 |
| | | | | | | | 92 |
| | | | | | | -82.8 | |
| | | | SAND: as above but medium dense and trace fine, angular, calcitic gravel | | 21 | SPT | 11, 11, 13 |
| | | | | | | | 94 |
| | | | | | | | 96 |
| | | | | | | | 98 |
| | | | | | | -87.8 | |
| | | | SAND: as above but dense and no fine gravel | | 22 | SPT | 18, 21, 20 |
| -89.3 | 100.0 | | | | | | |
| | | | | | | | 100 |
| | | | End of Boring at 100' | | | | |
| | | | | | | | 102 |
| | | | | | | | 104 |
| | | | | | | | 106 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0271 |

Hole No. CP05-EAARS-CB-0272

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750226.1, E765882 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No. CP05-EAARS-CB-0272 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/6/2005 Completed 7/7/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 8.7 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.7 | 0.0 | | | | | | |
| 8.5 | 0.2 | | Peat: 2 inches | | | 8.7 | 50/2" |
| | | | LIMESTONE: caprock, tan to light brown, mostly fine grained, fossiliferous, vuggy, strong and hard to soft, weak and porous | | 1 | 7.7 SPT | |
| | | | | 46 (RQD 14%) | 1 | HQ coring; UCS=2550psi | |
| 3.7 | 5.0 | | | | | 3.7 | |
| | | | Gravelly SAND: pale brownish grey, very dense, wet angular, well graded, fine to coarse grained, calcitic, trace silt | | 2 | SPT; SM; Silty sand with gravel; Moisture=19% | 6, 11, 50/2" |
| 1.2 | 7.5 | | | | | 1.2 | |
| | | | Sandy Silty GRAVEL: as above but very dense and mostly fine, calcitic gravel | | 3 | SPT | 50 |
| -1.3 | 10.0 | | | | | -1.3 | |
| | | | SAND: as above but less dense (medium) with some silt and fine gravel | | 4 | SPT; SM; Silty sand with gravel; Moisture=29% | 8, 8, 6 |
| -4.8 | 13.5 | | | | | -4.8 | |
| | | | Only a few angular fragments of LIMESTONE recovered | | 5 | SPT; Hard drilling to 17.5 ft | 50/1" |

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0272 |

Hole No. CP05-EAARS-CB-0272

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.3 | 15.0 | | | | | -6.3 | |
| -8.8 | 17.5 | | Gravelly SAND: pale brownish grey, dense, wet, uniform, fine grained, mostly subrounded and quartzose, some fine to coarse, angular, calcitic sand, angular, calcitic gravel | | | -9.8 | |
| | | | | | 6 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=11% | 26, 26, 14 |
| -14.8 | 23.5 | | Sandy GRAVEL: pale brownish grey, medium dense, fine, angular limestone gravel with fine, subrounded, uniform, quartzose sand | | | -14.8 | |
| | | | | | 7 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=15%; Intermittent hard drilling | 6, 10, 10 |
| -19.8 | 28.5 | | SAND: pale brownish grey, medium dense, wet, uniform, fine grained, subrounded quartzose, trace fine to medium, angular, calcitic sand | | | -19.8 | |
| | | | | | 8 | SPT; SP; Poorly graded sand; Moisture=29% | 10, 14, 13 |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0272

Hole No. CP05-EAARS-CB-0272

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.7 | 33.4 | | | | | -24.7 | |
| -24.8 | 33.5 | | Sandy GRAVEL: like that at 23.5 ft but loose | | | -24.8 | |
| | | | | | 9 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=16% | 7, 5, 4 |
| -29.8 | 38.5 | | | | | -29.8 | |
| | | | SAND: like that at 28.5 ft but loose with a trace fine gravel | | 10 | SPT | 4, 4, 3 |
| -33.8 | 42.5 | | | | | | |
| | | | Sandy GRAVEL: like that at 33.5 ft but pale greenish grey | | | -34.8 | |
| | | | | | 11 | SPT; Hard drilling from 42.5 to 43.5 ft | 13, 6, 5 |
| -38.8 | 47.5 | | | | | | |
| | | | GRAVEL: pale greenish grey, wet, medium dense, well graded, fine grained, angular, limestone gravel with some fine quartzose sand, trace silt | | | -39.8 | |
| | | | | | 12 | SPT; Hard drilling from 47.5 to 49 ft; Loosing drilling mud; hole caving below 50 ft | 26, 13, 12 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0272

Hole No. CP05-EAARS-CB-0272

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 4 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -43.1 | 51.8 | | | | | -43.1 | |
| -43.3 | 52.0 | | Sandy GRAVEL: like that at 23.5 ft | | | | |
| | | | | | | -44.8 | |
| | | | | | 13 | SPT; Hard drilling from 50.5 to 52 ft | 6, 9, 10 |
| -49.8 | 58.5 | | | | | -49.8 | |
| | | | Silty SAND: olive grey, loose, wet, mostly uniform, fine subrounded, some calcitic, angular, fine sand to fine gravel, shell fragments | | 14 | SPT; SP-SM; Poorly graded SAND with silt; Moisture=21% | 5, 5, 5 |
| -54.8 | 63.5 | | | | | -54.8 | |
| | | | SAND: like that above but less (trace) silt | | 15 | SPT; 5" Cased hole to 65 ft | 4, 3, 4 |
| | | | | | | -59.8 | |
| | | | SAND: as above, no silt, pale greenish grey | | 16 | SPT | 10, 14, 14 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0272

Hole No. CP05-EAARS-CB-0272

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -61.5 | 70.2 | | | | | -61.5 | |
| | | | | | | | 72 |
| | | | | | | -64.8 | |
| | | | SAND: pale greenish grey, wet, very dense, uniform, fine grained, subrounded, quartzose with trace, angular, fine to medium grained calcitic sand | | 17 | SPT | 44<br>50 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | | | | -69.8 | |
| | | | SAND: pale greenish grey, wet, well graded, fine to coarse grained angular, calcitic with some fine, subrounded quartzose sand and trace silt, dense | | 18 | SPT; Calcitic sand predominates: Tamiami Formation | 24<br>22<br>27 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | | | | -74.8 | |
| | | | SAND: light greenish grey, wet, dense, as above | | 19 | SPT | 16<br>20<br>16 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |
| | | | | | | -79.8 | |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0272

Hole No. CP05-EAARS-CB-0272

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 8.7 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -79.9 | 88.6 | | | | | -79.9 | |
| | | | SAND: as above but with a trace fine gravel and very dense | | 20 | SPT | 27 27 27 |
| | | | | | | -84.8 | |
| | | | SAND: as above but subequal proportions of fine, uniform, subrounded, quartzose and fine to coarse, angular, calcitic | | 21 | SPT | 25 19 25 |
| | | | | | | -89.8 | |
| | | | SAND: as above | | 22 | SPT | 15 18 19 |
| -91.3 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0272

Hole No. CP05-EAARS-CB-0273

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750066.3, E762043.7 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No. CP05-EAARS-CB-0273 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/14/2005 Completed 7/14/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 12.4 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.4 | 0.0 | | | | | | |
| | | | Gravelly SAND and Peat: light brownish grey and black, dry to moist, medium dense, angular, calcitic sand and gravel, roadfill | | 1 | 12.4 SPT: All calcitic material noted below is at least partly shell fragments | 13, 15, 7, 3 |
| | | | | | 2 | 10.9 SPT | 5, 8 |
| | | | | | 3 | 9.4 SPT | 6, 4, 8 |
| 7.9 | 4.5 | | | | | 7.9 | |
| | | | LIMESTONE: caprock, tan to light brown, fine grained, fossiliferous, thinly bedded, vuggy, hard and strong to soft, weak and porous | 54 (RQD 30%) | 4 1 | 7.9 SPT HQ coring, UCS=3090psi | 50/0" |
| 3.9 | 8.5 | | | | | | |
| | | | Gravelly SAND: pale brownish grey, wet, very dense, well graded, fine to coarse grained, angular, calcitic | | | 2.9 | |
| | | | | | 5 | SPT: Set 10 ft casing | 30, 50/3" |
| | | | Gravelly SAND: as above but with some silt | | | -1.1 | |
| | | | | | 6 | SPT: Intermittent hard drilling to 18ft, then hard drilling to 19.5 ft | 5, 4, 13 |

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0273 |

Hole No. CP05-EAARS-CB-0273

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.6 | 15.0 | | | | | -2.6 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -6.1 | |
| | | | | | 7 | SPT | 50/0" |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -11.1 | 23.5 | | | | | -11.1 | |
| | | | SAND: pale brownish grey, wet, medium dense, uniform, fine grained, subrounded, quartzose, some gravel | | 8 | SPT; Caloosahatchee Formation | 21 10 7 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -16.1 | |
| | | | SAND: as above but loose and no gravel | | 9 | SPT | 4 3 3 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0273 |

Hole No. CP05-EAARS-CB-0273

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 3 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.0 | 33.4 | | | | | -21.0 | |
| -21.1 | 33.5 | | Only fine grained, calcareous sandstone fragments recovered, large fragments lodged in bits | | 10 | -21.1<br>SPT | 19<br>5<br>10 |
| -26.1 | 38.5 | | SAND: as above but pale greenish grey | | 11 | -26.1<br>SPT | 5<br>10<br>9 |
| -31.1 | 43.5 | | GRAVEL: medium grey, wet, loose, well graded, fine to medium grained, angular, calcareous sandstone gravel, fossiliferous, trace fine sand | | 12 | -31.1<br>SPT; Hole caving | 6<br>5<br>5 |
| | | | GRAVEL: as above but medium dense | | 13 | -36.1<br>SPT; Intermittent hard drilling 50.5 ft | 6<br>8<br>8 |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0273

Hole No. CP05-EAARS-CB-0273

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -39.4 | 51.8 | | | | | -39.4 | |
| -41.1 | 53.5 | | | | | -41.1 | |
| | | | Sandy Gravel: gravel as above but with fine subrounded quartzose and fine to coarse grained, angular, calcitic sand, trace silt | | 14 | SPT | 12, 11, 9 |
| -46.1 | 58.5 | | | | | -46.1 | |
| | | | Silty SAND: pale greenish grey, medium dense, wet, well graded, subequal parts, fine to coarse, angular, calcitic and fine grained, subrounded, quartzose, some gravel | | 15 | SPT | 8, 6, 10 |
| -51.1 | 63.5 | | | | | -51.1 | |
| | | | SAND: greenish grey, wet, dense, poorly graded, mostly fine grained, subrounded and quartzose with some fine to coarse grained angular and calcitic, trace silt | | 16 | SPT | 15, 17, 15 |
| | | | | | | -58.1 | |
| | | | SAND: as above just slightly lighter greenish grey and no silt | | 17 | SPT | 16, 16, 14 |

52 54 56 58 60 62 64 66 68 70

(continued)

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0273

Hole No. CP05-EAARS-CB-0273

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -57.8 | 70.2 | | | | | -57.8 | |
| | | | | | | | 72 |
| | | | | | | -61.1 | |
| | | | SAND: pale greenish grey, wet, very dense, uniform, fine grained, subrounded, quartzose, trace angular, fine to coarse, calcitic | | 18 | SPT | 22<br>29<br>30 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | | | | -66.1 | |
| | | | SAND: as above but dense and some silt | | 19 | SPT | 27<br>21<br>21 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | | | | -71.1 | |
| | | | SAND: light grey, wet, dense, well graded, mostly fine to coarse grained, angular and calcitic, some fine, subrounded and quartzose, trace fine gravel | | 20 | SPT; Calcitic sand predominates | 22<br>20<br>12 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |
| | | | | | | -76.1 | |

(continued)

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0273

Hole No. CP05-EAARS-CB-0273

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -76.2 | 88.6 | | | | | -76.2 | |
| | | | SAND: as above but medium dense | | 21 | SPT | 5<br>7<br>16 |
| | | | | | | -81.1 | |
| | | | SAND: as above but pale greenish grey and very dense | | 22 | SPT | 29<br>25<br>28 |
| | | | | | | -86.1 | |
| | | | SAND: as above but grey | | 23 | SPT | 21<br>26<br>32 |
| -87.6 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0273 |

Hole No. CP05-EAARS-CB-0274

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N750059.5, E758708.6 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc | | 12. Manufacturer's Designation for Drill: CME-55 | |
| 4. Hole No: CP05-EAARS-CB-0274 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/11/2005 Completed 7/14/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 13.6 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: J. Petrie | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 13.6 | 0.0 | | | | | | |
| 11.6 | 2.0 | | Gravelly Silty SAND, grey, dense, well graded, fine to coarse, subangular, dry, slightly organic, shelly fragments | | 1 | 13.6 SPT 11.6 | 6, 16, 15 |
| 9.6 | | | Gravelly SAND: light grey, medium dense, well graded, fine to coarse, subangular, moist, slightly organic, shelly fragments | | 2 | SPT 9.6 | 7, 14, 7 |
| 6.6 | | | Gravelly SAND: light grey, medium dense, well graded, fine to coarse, subangular, moist, shelly fragments | | 3 | SPT 6.6 | 4, 13, 7 |
| 5.6 | 8.0 | | | | 4 | 5.6 SPT | 50/1" |
| 4.4 | 9.3 | | Gravelly sandy CLAY, light grey, firm, fine to coarse, subangular sand, moist, shelly. Cobble stopped penetration | | 5 | SPT 4.4 | 6, 3, 50/1" |
| 1.6 | 12.0 | | Cobble and gravel size, grey light brown, shelly LIMESTONE, moderately strong | 30 (RQD 13%) | 1 | HQ coring, UCS=433psi 1.6 | |
| -0.4 | 14.0 | | Gravelly silty SAND, light grey, medium dense, well graded, fine to coarse, subangular, wet, shelly fragments | | 6 | SPT -0.4 | 7, 7, 20 |
| | | | Gravelly SAND, light grey, loose, well graded, fine to coarse, subangular, wet, shelly | | 7 | SPT | 4, 1 |

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0274 |

Hole No. CP05-EAARS-CB-0274

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 13.6 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5 |
|---|---|---|---|---|---|---|---|
| -1.4 | 15.0 | | | | | -1.4 | |
| -4.4 | 18.0 | | | | | | 8 |
| -8.4 | 22.0 | | Light grey shelly LIMESTONE, vuggy, angular fragments, moderately strong to strong. Softer seams - angular gravel size pieces recovered along | | | -4.9<br>-5.4<br>cored 18 to 22 feet<br>lost circulation<br>-8.4 | |
| | | | Gravelly SAND, light grey, medium dense, well graded, fine to coarse, angular to subangular, damp, shelly, occasional quartz subangular medium sand | | 8 | -10.4<br>SPT | 12<br>8<br>9 |
| -16.4 | 30.0 | | Gravelly SAND, light grey, medium dense, fine to coarse, well graded, angular to sub angular | | 9 | -15.4<br>SPT | 39<br>16<br>5 |
| | | | Silty SAND: light grey, medium dense, uniform, fine to medium, subangular to subrounded, wet, occasional subrounded gravel sized cemented sand | | | | |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0274

Hole No. CP05-EAARS-CB-0274

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.6 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -19.8 | 33.4 | | | | | -19.8 | |
| | | | Silty SAND, light grey, medium dense, uniform, fine to medium, occasional subrounded gravel of cemented sand with shell fragments and occasional fine grained quartz sand | | 10 | -20.4<br>SPT | 3<br>7<br>4 |
| | | | As above | | 11 | -25.4<br>SPT | 2<br>4<br>6 |
| | | | thin cemented horizons in sequence | | | | |
| -30.1 | 43.7 | | Sandy GRAVEL: light grey, medium dense, well graded, fine, some coarse angular to subangular pieces, cemented sand (fine to medium), some shell fragments | | 12 | -30.4<br>SPT | 4<br>8<br>8 |
| | | | thin cemented horizons | | | -35.4 | |
| | | | As above, with fine to coarse gravel sized calcareous (shells) subrounded included | | 13 | SPT, hard band at 48 ft, circulation loss at 49 ft | 5<br>9<br>10 |

34 36 38 40 42 44 46 48 50

(continued)

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0274

Hole No. CP05-EAARS-CB-0274

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.6 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -38.2 | 51.8 | | | | | -38.2 | |
| | | | | | | | 52 |
| | | | | | | -40.4 | |
| | | | As above, except refusal on cemented horizon | | | | 54 |
| | | | | | 14 | SPT | 50 |
| | | | | | | | 56 |
| | | | | | | | 58 |
| | | | | | | -45.4 | |
| | | | Sandy GRAVEL, light grey to grey, well graded, fine some coarse, angular to subangular calcareous cemented sand (fine to medium) sand (fine to medium size), hard, some shell fragments | | 15 | SPT | 13, 11, 9 |
| | | | | | | | 60 |
| | | | | | | | 62 |
| -50.4 | 64.0 | | | | | -50.4 | |
| | | | SAND, with some gravel sized calcareous cemented sand, light grey, medium dense, well graded, fine to coarse subangular to subrounded, shelly fragments and some quartz | | 16 | SPT | 16, 12, 12 |
| | | | | | | | 64 |
| | | | | | | | 66 |
| | | | | | | -54.4 | |
| | | | | | | | 68 |
| | | | As above except becoming dense | | | -55.4 cemented gravelly horizon | |
| | | | | | 17 | SPT | 22, 19 |
| | | | | | | | 70 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0274 |

Hole No. CP05-EAARS-CB-0274

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.6 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -56.6 | 70.2 | | | | | -56.6 | 13 |
| | | | | | | -58.4 | 72 |
| | | | | | | slightly harder drilling | |
| | | | | | | -60.4 | 74 |
| | | | SAND, with some gravel sized calcareous cemented sand, light grey, medium dense, well graded, fine to coarse, angular to subangular, wet, shelly fragments | | 18 | SPT | 11, 12, 11 |
| | | | | | | -63.4 | 76 |
| | | | | | | occasional gravelly cemented horizon | 78 |
| | | | | | | -65.4 | |
| | | | As above | | 19 | SPT | 6, 10, 12 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | | | | -70.4 | 84 |
| | | | As above, but with organic smell | | 20 | SPT | 11, 7, 10 |
| | | | | | | | 86 |
| | | | | | | -73.4 | |
| | | | | | | Hole caving | 88 |

(continued)

END FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0274

Hole No. CP05-EAARS-CB-0274

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.6 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation:

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -75.0 | 88.6 | | | | | -75.0 | |
| | | | As above, not organic | | | -75.4 | |
| | | | | | 21 | SPT | 15, 14, 9 |
| | | | | | | -80.4 | |
| | | | SAND, with some gravel sized calcareous cemented sand, light grey, medium dense, well graded, fine to coarse, angular to subangular, wet, shelly fragments | | 22 | SPT | 13, 11, 10 |
| | | | | | | -85.4 | |
| | | | As above | | | | 13 |
| -86.4 | 100.0 | | | | 23 | SPT | 13, 14 |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0274

Hole No. CP05-EAARS-CB-0275

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N756300.2, E758665.6 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0275 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/1/2005 Completed 7/5/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 8.5 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.5 | 0.0 | | | | | | |
| 8.0 | 0.5 | | Peat | | | 8.5 | 50/5" |
| | | | LIMESTONE, caprock, tan to light brown, mostly fine grained with shells, thinly bedded, strong, hard, vuggy, locally porous | 66 (RQD 24%) | 1 | 8.0 SPT; loosing drilling water; HQ coring; UCS=1676psi | |
| 3.0 | 5.5 | | | | | 3.0 | |
| | | | Sandy GRAVEL, pale brownish grey, wet, very dense, angular, calcitic with some silt, fine | | 2 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=24%; Rotary wash 3.875" bit to 50 ft then 2.875" below | 14; 50/2" |
| 1.0 | 7.5 | | | | | 1.0 | |
| | | | SAND, as above but mostly well graded, fine to coarse, angular, calcitic sand, some gravel and silt, loose | | 3 | SPT; SM; Silty sand with gravel; Moisture=25% | 7; 3; 4 |
| -5.0 | 13.5 | | | | | -5.0 | |
| | | | Sandy GRAVEL, as above. Gravel is shelly, vuggy limestone, probably limestone lenses broken by spoon, drill chatters intermittent | | 4 | SPT; SM; Silty sand with gravel; Moisture=18%; All | 6; 4; 50/3" |

(continued)

ENG FORM 1836 (Revised 10/01/2005 ...)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0275 |

Hole No. CP05-EAARS-CB-0275

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.5 | 15.0 | | | | | -6.5 | |
| | | | | | | calcitic material is at least partly shell fragments | 16 18 |
| -10.0 | 18.5 | | | | | -10.0 | |
| | | | Only LIMESTONE chips recovered | | 5 | SPT | 50/0" 20 22 |
| -15.0 | 23.5 | | | | | -15.0 | |
| | | | Sandy GRAVEL, pale brownish grey, wet, very dense, angular, limestone gravel, with subequal parts, fine to coarse grained, angular, calcitic and fine, quartzose sand, trace silt | | 6 | SPT; SW-SM; Well graded sand with silt+gravel; Moistue=14%; Caloosahatchee Formation | 7 5 50/1" 24 26 28 |
| -20.0 | 28.5 | | | | | -20.0 | |
| | | | Gravelly SAND, pale brownish grey, wet, loose, poorly graded, fine, subrounded, quartzose with fine, angular, limestone gravel and some fine to coarse, angular, calcitic sand, trace silt | | 7 | SPT; SP-SM; Poorly graded sand with silt+gravel; Moisture=15% | 6 4 7 30 32 |

EMG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0275

Hole No. CP05-EAARS-CB-0275

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 3 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.9 | 33.4 | | | | | -24.9 | |
| -25.0 | 33.5 | | SAND, pale brownish grey, wet, medium dense, poorly graded, fine, mostly quartzose and subrounded, trace angular, calcitic | | 8 | -25.0<br>SPT; SP-SM; Poorly graded sand with silt; Moisture=25% | 7<br>5<br>11 |
| | | | SAND: as above but with trace fine angular sandy limestone gravel | | 9 | -30.0<br>SPT; SP; Poorly graded sand with gravel; Moisture=21% | 8<br>8<br>11 |
| | | | SAND: as above | | 10 | -35.0<br>SPT | 10<br>9<br>10 |
| | | | SAND: pale greenish grey, wet, very dense, poorly graded, fine grained (uniform), subrounded, quartzose | | 11 | -40.0<br>SPT; SP-SM; Poorly graded sand with silt+gravel; Moisture=21% | 8<br>33<br>18 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0275

Hole No. CP05-EAARS-CB-0275

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -43.3 | 51.8 | | | | | -43.3 | |
| -45.0 | 53.5 | | | | | -45.0 | |
| | | | Sandy GRAVEL, pale greenish grey, wet, medium dense, well graded, fine, angular, shelly, limestone gravel with sand as above | | 12 | SPT; Intermittent hard drilling | 16, 6, 9 |
| -50.0 | 58.5 | | | | | -50.0 | |
| | | | Gravelly SAND: as above but less gravel and part of this is shell fragments, also some fine to coarse, angular, calcitic sand | | 13 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=23% | 7, 5, 5 |
| -55.0 | 63.5 | | | | | -55.0 | |
| | | | Silty SAND: olive gery, wet, loose, uniform, fine, subrounded, quartzose with some calcitic, fine sand to fine gravel (angular shell fragments) | | 14 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=28% | 9, 5, 4 |
| -60.0 | 68.5 | | | | | -60.0 | |
| | | | SAND: pale greenish grey, wet, very dense, uniform, fine grained, subrounded, quartzose with a trace fine angular, calcitic sand | | 15 | SPT | 23, 26, 24 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0275

Hole No. CP05-EAARS-CB-0275

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole 8.5 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -61.7 | 70.2 | | | | | -61.7 | |
| | | | | | | | 72 |
| | | | | | | -65.0 | |
| | | | SAND: as above | | 16 | SPT; SP-SM; Poorly graded sand with silt; Moisture=22% | 25, 23, 28 |
| | | | | | | | 74, 76, 78 |
| | | | | | | -70.0 | |
| | | | SAND: as above | | 17 | SPT | 30, 40, 50/5" |
| | | | | | | | 80, 82 |
| | | | | | | -75.0 | |
| | | | SAND: pale greenish grey, wet, medium dense, well graded, medium to coarse grained, angular, calcitic, with some silt and fine subrounded quartzose sand, trace fine gravel | | 18 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=20%; Calcitic sand predominates | 15, 12, 13 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -80.0 | |

(continued)

EMS FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0275

Hole No. CP05-EAARS-CB-0275

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -80.1 | 88.6 | | | | | -80.1 | |
| | | | SAND: as above but less (trace) silt and dense | | 19 | SPT | 17, 15, 16 |
| | | | SAND: as above | | | -85.0 | |
| | | | | | 20 | SPT; SW-SM; Well graded sand with silt; Moisture=18% | 27, 20, 24 |
| | | | SAND: as above | | | -90.0 | |
| | | | | | 21 | SPT | 24, 22, 16 |
| -91.5 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0275 |

Hole No. CP05-EAARS-CB-0276

| DRILLING LOG | Division: | Installation: | Sheet 1 of 8 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N764127.4, E758491.8 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0276 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 6/30/2005 Completed 6/30/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: E. Requejo | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.0 | 0.0 | | | | | 11.0 | |
| | | | Muck | | | | 2 |
| 10.0 | 1.0 | | | | 1 | 10.0 SPT | 50/2" |
| | | | Caprock | | | | |
| | | | | 21 (RQD 13%) | 1 | HQ coring | |
| 6.5 | 4.5 | | | | | 6.5 | |
| | | | | | | 5.0 | |
| | | | | | 2 | SPT | 4 30 50 |
| | | | | | | 3.0 | |
| | | | SAND: Pale, light brown fine to coarse grained, very dense, with cemented sands | | 3 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=17% | 7 39 7 |
| | | | SAND; Tan color, well sorted, fine to coarse grained, dense | | | | |
| | | | | | | -2.5 | |
| | | | SAND; Tan color; well sorted, coarser grains than above, very dense | | 4 | SPT; SM; Silty sand with gravel; Moisture=25% | 26 21 50/2" |

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0276 |

Hole No. CP05-EAARS-CB-0276

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.0 | 15.0 | | | | | -4.0 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -7.5 | |
| | | | SAND; Light brown, slightly SILTY, well sorted fine to medium grained, medium dense | | 5 | SPT; SP-SM; Poorly graded sand with silt; Moisture=26% | 10 9 6 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -12.5 | |
| | | | SAND; Brownish, very fine, well sorted, medium dense | | 6 | SPT; SP; Poorly graded sand; Moisture=25% | 7 7 7 |
| | | | | | | -14.0 | |
| | | | | | | Caloosahatchee Formation | |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -17.5 | |
| | | | SAND; Brownish, very fine, well sorted, with some traces of SILT, medium dense | | 7 | SPT; SP-SM; Poorly graded sand with silt; Moisture=27% | 14 10 15 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0276

Hole No. CP05-EAARS-CB-0276

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation:

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.4 | 33.4 | | | | | -22.4 | |
| | | | SAND; Brownish, fine grained, well sorted, slightly SILTY with few broken shell fragments | | 8 | -22.5<br>SPT; SP-SM; Poorly graded sand with silt; Moisture=27% | 8<br>5<br>7 |
| | | | | | | -25.0 | |
| | | | | | | All calcitic material noted below is at least partly shell fragments | |
| | | | | | | -27.5 | |
| | | | SAND: pale greenish grey, wet, medium dense, poorly graded, fine grained, subangular, quartzose, trace shells | | 9 | SPT | 7<br>9<br>6 |
| -32.5 | 43.5 | | | | | -32.5 | |
| | | | Sandy GRAVEL: pale greenish grey, wet, medium dense, poorly graded, fine angular, calcareous with shell fragments with fine quartz sand | | 10 | SPT | 5<br>7<br>5 |
| | | | | | | -37.5 | |
| | | | Sandy LIMESTONE gravel and Sandy GRAVEL: as above but very dense. Probably cemented layer broken by spoon | | 11 | SPT | 30<br>50 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836 (PREVIOUS EDITIONS ARE OBSOLETE)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0276

Hole No. CP05-EAARS-CB-0276

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 4 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -40.8 | 51.8 | | | | | -40.8 | |
| -42.5 | 53.5 | | SAND: pale greenish grey, wet, poorly graded medium dense, subequal amounts of fine, subrounded, quartzose sand and fine to coarse grained, angular, calcitic sand, trace fine gravel, calcitic | | 12 | -42.5<br>SPT | 12<br>8<br>6 |
| | | | SAND: as above but loose with some silt and trace fine, calcitic gravel | | 13 | -47.5<br>SPT | 5<br>3<br>4 |
| | | | SAND: pale greenish grey, wet dense, mostly well graded, fine to coarse grained, angular, calcitic, with some fine, rounded, quartzose sand | | 14 | -52.5<br>SPT, Ochopee Limestone | 7<br>18<br>15 |
| | | | SAND: as above but with some fine, angular, sandy limeston gravel, trace fine quartzose sand, some coarse sand is also sandy limestone | | 15 | -57.5<br>SPT | 33<br>22<br>23 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0276 |

Hole No. CP05-EAARS-CB-0276

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.2 | 70.2 | | | | | -59.2 | |
| | | | | | | | 72 |
| | | | | | | -62.5 | |
| | | | SAND: as above but medium dense and with trace sandy limestone gravel, trace fine quartzose sand | | 16 | SPT | 13, 13, 14 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | | | | -67.5 | |
| | | | SAND: as above but light grey | | 17 | SPT | 12, 13, 16 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| -72.5 | 83.5 | | | | | -72.5 | |
| | | | Gravelly SAND: pale grey, wet, very dense, mostly fine to coarse, angular, calcitic sand with some fine, subrounded, quartzose sand | | 18 | SPT | 35, 26, 24 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |
| -77.5 | 88.5 | | | | | -77.5 | |

(continued)

END FORM 1838

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0276

Hole No. CP05-EAARS-CB-0276

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.6 | 88.6 | | | | | -77.6 | |
| | | | SAND: as above but dense and some (less) gravel | | 19 | SPT | 15, 18, 18 |
| | | | | | | -82.5 | |
| | | | SAND: as above but with trace (less) fine gravel | | 20 | SPT | 26, 22, 20 |
| | | | | | | -87.5 | |
| | | | SAND: as above | | 21 | SPT | 22, 20, 19 |
| -89.0 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0276

Hole No. CP05-EAARS-CB-0277

| DRILLING LOG | Division: | Installation: Sheet 1 of 6 Sheets |
|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761542.5, E760486.8 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0277 | | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured |
| | | 16. Date Hole Started 6/29/2005 Completed 6/29/2005 |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 9.2 (ft) |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | | 19. Inspector: E. Requejo |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.2 | 0.0 | | | | | | |
| | | | Muck | | | 9.2 | 0 |
| | | | | | 1 | SPT | 2 |
| | | | | | | 7.7 | 2 |
| | | | | | | | 0 |
| | | | | | 2 | SPT | 2 |
| 6.2 | 3.0 | | | | | 6.2 | 10 |
| | | | Cap rock, pale yellowish, slightly bedded, calcitic with traces of shells | 13 (RQD 0%) | 1 | HQ coring; Core run from 1.5 to 6.5 ft; 8" collected from total length of core; no individual pieces over 4" | |
| 2.7 | 6.5 | | | | | 2.7 | |
| | | | | | | 0.7 | |
| | | | Pale yellowish sand with silts and shell fragments, lime rock with silts, very dense, wet | | 3 | SPT | 9 20 21 |
| | | | | | | -0.8 | |
| | | | | | 4 | SPT | 21 25 50/4" |
| | | | | | | -4.3 | |
| | | | Pale yellowish / brownish cemented sand with silts and few shell fragments, very dense | | 5 | SPT | 50/6" |

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0277 |

Hole No. CP05-EAARS-CB-0277

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 2 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.8 | 15.0 | | | | | -5.8 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -9.3 | |
| | | | Pale brownish cemented sands with shell fragments, very dense | | 6 | SPT | 50/2" |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -14.3 | |
| | | | Pale yellowish sand with few cemented sand pieces and broken shell fragments, slightly silty, loose, well sorted | | 7 | SPT; SM; Silty sand; Moisture=25%; Ground 30% circulation loss | 5 3 4 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -19.3 | |
| | | | Pale yellowish silty fine sand, medium dense | | 8 | SPT; SM; Silty sand with gravel; Moisture=24% | 4 13 7 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836 Previous Editions Are Obsolete

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0277

Hole No. CP05-EAARS-CB-0277

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.2 | 33.4 | | | | | -24.2 | |
| | | | Pale yellowish, slightly silty fine sand with shell fragments, loose | | 9 | -24.3<br>SPT; SM; Silty sand; Moisture=30% | 8<br>6<br>4 |
| | | | Grey cemented fine sand with broken shell fragments, medium dense | | 10 | -29.3<br>SPT | 12<br>10<br>10 |
| | | | Yellowish / brownish fine sand with great abundance of broken shell fragments (around 85%), medium dense | | 11 | -34.3<br>SPT | 14<br>8<br>8 |
| | | | Brown fine sand with cemented sands and shell fragments, medium dense | | 12 | -39.3<br>SPT; color darkens when compared to previous sample | 11<br>10<br>14 |

34 36 38 40 42 44 46 48 50

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0277

Hole No. CP05-EAARS-CB-0277

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 9.2 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5 |
|---|---|---|---|---|---|---|---|
| -42.6 | 51.8 | | | | | -42.6 | |
| | | | Light brown sand with cemented sand and shell fragments, medium dense | | 13 | -44.3<br>SPT | 14<br>11<br>14 |
| | | | Grey and brownish fine sand with cemented sands and lots of broken shell fragments (around 90%), medium dense | | 14 | -49.3<br>SPT | 3<br>4<br>7 |
| -54.3 | 63.5 | | | | | -54.3 | |
| | | | Dark grey, silty sand with few pieces of cemented sand and great abundance of shell fragments, loose | | 15 | SPT; Large pieces of shell fragments were found throughout the sample. Strong change in color from the previous sample | 4<br>2<br>3 |
| | | | Dark grey / greenish silty fine sand with shell fragments, slightly clayed, medium dense | | 16 | -59.3<br>SPT | 16<br>15<br>13 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0277

Hole No. CP05-EAARS-CB-0277

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 5 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -61.0 | 70.2 | | | | | -61.0 | |
| -64.3 | 73.5 | | | | | -64.3 | |
| | | | light grey cemented sand with shell fragments, dense | | 17 | SPT; Color changed to a much lighter grey; clay, silt, shell present | 15, 17, 17 |
| | | | | | | | 74, 76, 78 |
| | | | | | | -69.3 | |
| | | | light grey cemented sand with shell fragments, dense | | 18 | SPT | 18, 24, 20 |
| | | | | | | | 80, 82 |
| | | | | | | -74.3 | |
| | | | grey cemented sand with shell fragments, dense | | 19 | SPT; darker in color | 17, 18, 19 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -79.3 | |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE Sheet 11

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0277 |

Hole No. CP05-EAARS-CB-0277

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -79.4 | 88.6 | | | | | -79.4 | |
| | | | same as above | | 20 | SPT | 20, 19, 17 |
| | | | | | | -84.3 | |
| | | | Grey cemented sand with shell fragments, very dense | | 21 | SPT | 31, 23, 28 |
| | | | | | | -89.3 | |
| | | | Grey sand, medium to coarse grains, with cemented sand and shell fragments, dense | | 22 | SPT | 16, 17, 16 |
| -90.8 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

90 92 94 96 98 100 102 104 106

ENG FORM 1836 | PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0277

Hole No. CP05-EAARS-CB-0278

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N768835.2, E758022.2 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0278 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 6/24/2005 Completed 6/28/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 9.9 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: E. Requejo | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.9 | 0.0 | | | | | | |
| | | | Muck | | | 9.9 | 2 |
| | | | | | 1 | SPT | 2 |
| | | | | | | 8.4 | 2 |
| | | | | | | | 3 |
| | | | | | 2 | SPT | 3 |
| | | | | | | | 40 |
| 6.4 | 3.5 | | | | | 6.4 | |
| | | | Cap rock: Pale yellowish for the first 1.5 ft, then darkens in color. Slightly bedded, calcitic with traces of shells | 41 (RQD 7%) | 1 | HQ coring; Core run 3.5 to 8.5; set 5 ft of casing | |
| 1.4 | 8.5 | | | | | 1.4 | |
| | | | Lime silts with shell | | | | 13 |
| | | | | | 3 | SPT | 4 |
| | | | | | | | 4 |
| | | | | | | -3.6 | |
| | | | Lime silts with shell | | | | 6 |
| | | | | | 4 | SPT | 6 |
| | | | | | | | 9 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0278 |

Hole No. CP05-EAARS-CB-0278

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 2 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.1 | 15.0 | | | | | -5.1 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -8.6 | |
| | | | Lime silts with shell fragments, pale yellowish, very dense, wet | | 5 | SPT; SM; Silty sand with gravel; Moisture=21%; Pale yellowish very dense, wet | 18<br>18<br>50/6" |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -13.6 | |
| | | | Lime silts with shell fragments Pale yellowish, dense, wet | | 6 | SPT; SM; Silty sand with gravel; Moisture=24% | 15<br>19<br>13 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| -18.6 | 28.5 | | | | | -18.6 | |
| | | | Grey fine sand with cemented sands and shells, very dense | | 7 | SPT; SW-SM; Well graded sand with silt+gravel; Moisture=12% | 10<br>48<br>22 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0278

Hole No. CP05-EAARS-CB-0278

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 9.9 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.5 | 33.4 | | | | | -23.5 | |
| | | | Grey and brown fine sand, dense, wet, well sorted | | 8 | -23.6<br>SPT; SP-SM; Poorly graded sand with silt; Moisture=24% | 9<br>20<br>24 |
| | | | | | | -28.6 | |
| | | | Grey and brown fine sand, slightly silty with shell fragments, medium dense, wet | | 9 | SPT | 3<br>3<br>8 |
| -33.6 | 43.5 | | | | | -33.6 | |
| | | | Grey silty fine sand with cemented sand and shell fragments, loose, wet | | 10 | SPT | 5<br>3<br>3 |
| -38.6 | 48.5 | | | | | -38.6 | |
| | | | Cemented sand with shell fragments, loose, wet | | 11 | SPT | 12<br>9<br>9 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0278

Hole No. CP05-EAARS-CB-0278

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.9 | 51.8 | | | | | -41.9 | |
| | | | | | | -43.6 | |
| | | | Grey cemented sand with shell fragments, dense, wet | | 12 | SPT | 6, 6, 7 |
| | | | | | | -48.6 | |
| | | | Same as above, medium dense, wet | | 13 | SPT | 8, 15, 10 |
| | | | | | | -53.6 | |
| | | | Grey cemented sand with shell fragments, dense | | 14 | SPT | 13, 30, 13 |
| | | | | | | -58.6 | |
| | | | Grey fine sand with shell fragments, medium dense | | 15 | SPT | 6, 5, 10 |

52 54 56 58 60 62 64 66 68 70

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ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0278

Hole No. CP05-EAARS-CB-0278

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -60.3 | 70.2 | | | | | -60.3 | |
| | | | | | | | 72 |
| | | | | | | -63.6 | |
| | | | Grey cemented sand with shell fragments, dense | | 16 | SPT | 17, 19, 14 |
| | | | | | | | 74, 76 |
| | | | | | | -68.6 | |
| | | | Grey cemented sand with fragments of broken shells, dense | | 17 | SPT | 17, 21, 18 |
| | | | | | | | 78, 80, 82 |
| | | | | | | -73.6 | |
| | | | Grey cemented sand with fragments of broken shells, medium dense | | 18 | SPT | 14, 15, 14 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -78.6 | |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0278

Hole No. CP05-EAARS-CB-0278

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 6 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.7 | 88.6 | | | | | -78.7 | |
| | | | Grey fine sand with cemented fragments and shell fragments, medium dense | | 19 | SPT | 12<br>12<br>12 |
| | | | | | | -83.6 | |
| | | | Grey fine sand with cemented fragments and shell fragments, medium dense | | 20 | SPT | 16<br>14<br>15 |
| | | | | | | -88.6 | |
| | | | Grey fine sand with cemented fragments and shell fragments, dense | | 21 | SPT | 20<br>20<br>17 |
| -90.1 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0278 |

Hole No. CP05-EAARS-CB-0279

| DRILLING LOG | Division: | Installation: | Sheet 1 of 8 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N772219.8, E757976.7 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0279 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 6/21/2005 Completed 6/21/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11.3 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: P. Petrey | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.3 | 0.0 | | Rock fill (canal road) | | | 11.3 | 18 |
| | | | | | 1 | 10.3 SPT; GP-GM; Poorly graded GRAVEL with silt and sand; Moisture=11%; Spoon 1.5 ft weight 140 lbs | 36 |
| | | | | | | | 9 |
| 9.3 | 2.0 | | | | 2 | | 5 |
| | | | Peat | | | SPT | |
| | | | | | | 8.3 | |
| 7.8 | 3.5 | | | | | | 9 |
| | | | Lime Rock | | 3 | 7.3 SPT | 50 |
| | | | | 35 (RQD 18%) | 1 | HQ coring; UCS=1870psi | |
| | | | | | | 2.3 | |
| 1.8 | 9.5 | | | | | | 50 |
| | | | soft | | 4 | SPT | |
| -1.7 | 13.0 | | | | | | |
| | | | Limerock with limerock silt with shell | | | -2.2 | |
| | | | | | 5 | SPT: 11.5 to 13.5 ft soft | 21 |
| | | | | | | | 27 |
| | | | | | | | 20 |

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ENG FORM 1836 Replaces all previous editions

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0279 |

Hole No. CP05-EAARS-CB-0279

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.3 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.7 | 15.0 | | | | | -3.7 | |
| -7.2 | 18.5 | | Cemented SAND with limestone and shell | | 6 | -7.2<br>SPT | 7<br>7<br>31 |
| | | | Brown fine sand with cemented sand with shell | | 7 | -12.2<br>SPT; 21 to 22 ft hard limestone stringers | 35<br>50 |
| | | | change | | | | |

16 18 20 22 24 26 28 30 32

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ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0279

Hole No. CP05-EAARS-CB-0279

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.3 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.1 | 33.4 | | | | | -22.1 | |
| | | | Light grey fine sand with shell | | | -22.2 | |
| | | | | | 8 | SPT | 7, 7, 10 |
| | | | | | | -27.2 | |
| | | | Light grey fine sand with cemented sand with shell | | 9 | SPT | 6, 7, 8 |
| | | | | | | -32.2 | |
| | | | Light grey fine sand with cemented sand with shell | | 10 | SPT | 5, 7, 7 |
| | | | | | | -37.2 | |
| | | | Light grey brown, slightly silty, fine sand with cemented sand with shell | | 11 | SPT | 5, 7, 6 |

34 36 38 40 42 44 46 48 50

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ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0279

Hole No. CP05-EAARS-CB-0279

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 11.3 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5 |
|---|---|---|---|---|---|---|---|
| -40.5 | 51.8 | | | | | -40.5 | |
| | | | | | | -42.2 | |
| | | | Light grey brown fine sand with cemented sand with shell | | 12 | SPT | 5, 7, 7 |
| | | | | | | -47.2 | |
| | | | same | | 13 | SPT | 10, 3, 4 |
| | | | | | | -52.2 | |
| | | | Light brown / grey fine sand with cemented sand with shell | | 14 | SPT | 20, 18, 11 |
| | | | | | | -57.2 | |
| | | | Light grey / brown fine sand with cemented sand with shell | | 15 | SPT | 5, 8, 12 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0279

Hole No. CP05-EAARS-CB-0279

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.3 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -58.9 | 70.2 | | | | | -58.9 | |
| | | | Change | | | -62.2 | |
| | | | Darker grey coarse sand with fragments of shell | | 16 | SPT; color change at 73 ft | 24, 24, 17 |
| | | | (same) | | 17 | SPT | 23, 10, 13 |
| | | | (same) | | 18 | SPT | 16, 15, 15 |
| | | | | | | -77.2 | |

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ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0279

Hole No. CP05-EAARS-CB-0279

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.3 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.3 | 88.6 | | | | | -77.3 | |
| | | | (same) | | 19 | SPT | 21<br>18<br>19 |
| | | | | | | -82.2 | |
| | | | Dark grey sand with cemented sand with shells | | 20 | SPT | 13<br>16<br>10 |
| | | | (same) | | | | |
| -88.7 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.).

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0279 |

Hole No. CP05-EAARS-CB-0280

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N776150.9, E757940.8 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0280 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 6/22/2005 Completed 6/22/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 8.7 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: P. Petrey | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.7 | 0.0 | | | | | | |
| | | | Peat | | | 8.7 | 1 |
| | | | | | 1 | 7.7 SPT; PT; Moisture=184%, Organic Content=66%; spoon 1.5' weight 140 lbs | 2 |
| 7.2 | 1.5 | | | | | | 2 |
| | | | Caprock | | 2 | 6.7 | 50 |
| | | | | | | SPT | |
| | | | | 22 (RQD 0%) | 1 | HQ coring | |
| 1.7 | 7.0 | | | | | 1.7 | |
| | | | Cemented SAND with shells and silts | | | GW; Well graded GRAVEL; Moisture=18% | |
| | | | | | | -0.3 | |
| | | | | | 3 | SPT | 4 5 |
| -4.8 | 13.5 | | | | | -4.8 | |
| | | | Limerock with limerock silt | | 4 | SPT | 12 7 10 |

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EAHQ FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0280 |

Hole No. CP05-EAARS-CB-0280

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.3 | 15.0 | | | | | -6.3 | |
| -9.3 | 18.0 | | | | | | |
| | | | Grey fine SAND with cemented sand and shell fragments | | | -9.8 | |
| | | | | | 5 | SPT; 17.5 ft hard layer; shell fragments | 25, 50 |
| -13.8 | 22.5 | | | | | | |
| | | | Very hard thin layers | | | -14.8 | |
| | | | | | 6 | SPT; 22.5 ft very hard thin layers | 50 |
| -16.3 | 25.0 | | | | | | |
| | | | Light brown / grey fine SAND with cemented sand with shell | | | -19.8 | |
| | | | | | 7 | SPT; GP-GM; Poorly graded GRAVEL with silt and sand; Moisture=13% | 4, 4, 8 |

16 18 20 22 24 26 28 30 32

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ENG FORM 1838 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0280

Hole No. CP05-EAARS-CB-0280

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 3 of 8 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.7 | 33.4 | | | | | -24.7 | |
| | | | Light brown / grey fine SAND with cemented sand with shell | | 8 | -24.8 SPT; SM; Silty SAND; Moisture=28% | 7, 7, 8 |
| | | | ( same ) | | 9 | -29.8 SPT; SP-SM; Poorly graded SAND with silt; Moisture=24% | 8, 8, 12 |
| | | | ( same ) | | 10 | -34.8 SPT; SP-SM; Poorly graded SAND with silt; Moisture=25% | 7, 10, 13 |
| | | | ( same ) | | 11 | -39.8 SPT; SW-SM; Well graded SAND with silt; Moisture=29% | 5, 7, 8 |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0280 |

Hole No. CP05-EAARS-CB-0280

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 8.7 | Sheet 4 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -43.1 | 51.8 | | | | | -43.1 | |
| | | | | | | -44.8 | |
| | | | ( same ) | | 12 | SPT; SP-SM; Poorly graded SAND with silt; Moisture=23% | 7, 10, 7 |
| | | | | | | -49.8 | |
| | | | Light brown / grey fine SAND with cemented sand with fragments of shell | | 13 | SPT | 4, 50 |
| | | | | | | -54.8 | |
| | | | Light brown / light grey fine SAND with cemented sands with shell | | 14 | SPT | 10, 7, 7 |
| | | | | | | -59.8 | |
| | | | ( same ) | | 15 | SPT; SP-SM; Poorly graded SAND; Moisture=23% | 8, 13, 8 |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0280

Hole No. CP05-EAARS-CB-0280

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 5 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -61.5 | 70.2 | | | | | -61.5 | |
| -64.3 | 73.0 | | | | | | |
| | | | Darker grey SAND with cemented sand with shell | | | -64.8 | |
| | | | | | 16 | SPT; SM; Silty SAND with gravel; Moisture=26%; Color change at 73 ft | 9, 9, 9 |
| | | | Darker grey fine SAND with cemented sand with shell | | | -69.8 | |
| | | | | | 17 | SPT; SP-SM; Poorly graded SAND with silt and gravel; Moisture=19% | 12, 13, 15 |
| | | | ( same ) | | | -74.8 | |
| | | | | | 18 | SPT; SM; Silty SAND with gravel; Moisture=22% | 12, 13, 15 |
| | | | | | | -79.8 | |

72 74 76 78 80 82 84 86 88

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0280

Hole No. CP05-EAARS-CB-0280

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 6 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -79.9 | 88.6 | | | | | -79.9 | |
| | | | ( same ) | | 19 | SPT; SM; Silty SAND; Moisture=23% | 11, 9, 9 |
| | | | | | | | 90, 92 |
| | | | | | | -84.8 | |
| | | | Grey cemented SAND with shell | | 20 | SPT; SM; Silty SAND; Moisture=24% | 15, 20, 11 |
| | | | | | | | 94, 96 |
| | | | | | | -89.8 | |
| | | | ( same ) | | 21 | SPT; SP-SM; Poorly graded SAND with silt; Moisture=24% | 11, 11, 11 |
| -91.3 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0" splitspoon (1.3/8" I.D. x 2" O.D.).

100, 102, 104, 106

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0280 |

# APPENDIX 2

## SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 281-300

Hole No. CP05-EAARS-CB-0281

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N779807, E757880.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0281 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 6/23/2005 Completed 6/23/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.2 | 0.0 | | | | | | |
| | | | Muck (Peat) | | | 9.2 | 3 |
| | | | | | 1 | 8.2 SPT; spoon 1.5 ft; weight 140 lbs | 3 |
| | | | | | | | 4 |
| | | | | | 2 | 7.2 SPT | 4 |
| | | | | | | | 2 |
| | | | | | 3 | 6.2 SPT | 2 |
| | | | | | | | 2 |
| | | | | | 4 | 5.2 SPT | 2 |
| | | | | | | | 2 |
| | | | | | 5 | 4.2 SPT | 2 |
| | | | | | | | 3 |
| | | | | | 6 | 3.2 SPT | 6 |
| | | | | | | | 6 |
| 2.2 | 7.0 | | | | 7 | 2.2 SPT | 7 |
| | | | Limestone, hard then soft, hard layers of approx 2 inches, (no core recovered) | | | | 50 |
| | | | | | 8 | 1.2 SPT | |
| | | | | 0 (RQD 0%) | 1 | HQ coring | |
| -2.8 | 12.0 | | | | | -2.8 | |
| | | | Light grey SILT with shell fragments, Limerock | | | -4.3 | 9 |
| | | | | | 9 | SPT | 7 |
| | | | | | | | 8 |

(continued)

END FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0281 |

Hole No. CP05-EAARS-CB-0281

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 2 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.8 | 15.0 | | | | | -5.8 | |
| | | | Darker grey with brown fine sand, SILT with shell fragments | | 10 | SPT | 7, 7, 15 |
| -14.3 | 23.5 | | | | | -14.3 | |
| | | | Slightly lighter grey / brown SAND with shell fragments | | 11 | SPT | 11, 10, 10 |
| -19.3 | 28.5 | | | | | -19.3 | |
| | | | Hard layer, no recovery | | 12 | SPT; Hard layer | 50 |
| -20.8 | 30.0 | | | | | | |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0281

Hole No. CP05-EAARS-CB-0281

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.2 | 33.4 | | | | | -24.2 | |
| | | | Light brown / grey fine SAND with cemented sand with shells | | | -24.3 | |
| | | | | | 13 | SPT; CO3=34.7% | 9, 7, 8 |
| | | | | | | -29.3 | |
| | | | (same) light brown / grey fine SAND with cemented sands / shells | | | | |
| | | | | | 14 | SPT | 12, 20, 10 |
| | | | | | | -34.3 | |
| | | | ( same ) | | | | |
| | | | | | 15 | SPT | 11, 6, 6 |
| | | | | | | -39.3 | |
| | | | ( same ) | | | | |
| | | | | | 16 | SPT | 8, 9, 9 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0281

Hole No. CP05-EAARS-CB-0281

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -42.6 | 51.8 | | | | | -42.6 | |
| | | | | | | | 52 |
| | | | | | | -44.3 | |
| | | | ( same ) | | | | 9 |
| | | | | | 17 | SPT | 5 |
| | | | | | | | 5 |
| | | | | | | | 54 |
| | | | | | | | 56 |
| | | | | | | | 58 |
| | | | | | | -49.3 | |
| | | | ( same ) | | | | 8 |
| | | | | | 18 | SPT | 12 |
| | | | | | | | 10 |
| | | | | | | | 60 |
| | | | | | | | 62 |
| | | | | | | -54.3 | |
| | | | Light brown / grey fine SAND with cemented sand, no shell | | | | 18 |
| | | | | | 19 | SPT | 27 |
| | | | | | | | 15 |
| | | | | | | | 64 |
| | | | | | | | 66 |
| | | | | | | | 68 |
| | | | | | | -59.3 | |
| | | | ( same ) | | | | 10 |
| | | | | | 20 | SPT | 11 |
| | | | | | | | 11 |
| | | | | | | | 70 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0281

Hole No. CP05-EAARS-CB-0281

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -61.0 | 70.2 | | | | | -61.0 | |
| -62.8 | 72.0 | | Light grey SAND (gravel), silt, cemented sand with shell | | | | 72 |
| | | | | | | -64.3 | |
| | | | | | 21 | SPT; Color change at 72 ft | 15, 14, 14 |
| | | | | | | | 74, 76, 78 |
| | | | ( same ) | | | -69.3 | |
| | | | | | 22 | SPT | 16, 16, 15 |
| | | | | | | | 80, 82 |
| | | | ( same ) | | | -74.3 | |
| | | | | | 23 | SPT | 19, 17, 19 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -79.3 | |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0281 |

Hole No. CP05-EAARS-CB-0281

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 6 of 8 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -79.4 | 88.6 | | | | | -79.4 | |
| | | | ( same ) | | 24 | SPT | 17<br>14<br>14 |
| -84.3 | 93.5 | | | | | -84.3 | |
| | | | Light grey coarse SAND with cemented sands and shells | | 25 | SPT | 12<br>15<br>15 |
| | | | | | | -89.3 | |
| | | | ( same ) | | 26 | SPT | 12<br>10<br>13 |
| -90.8 | 100.0 | | | | | | |
| | | | End of Boring at 100' | | | | |

90 92 94 96 98 100 102 104 106

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0281 |

Hole No. CP05-EAARS-RB-0282

| DRILLING LOG | Division: | Installation: | Sheet 1 of 14 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 5 inch | |
| 2. Location: N766993.2, E778264.3 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse (sub-contracted to Prosonic) | | 12. Manufacturer's Designation for Drill: SRO-109 | |
| 4. Hole No: CP05-EAARS-RB-0282 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Fred Kruas | | 14. Total Number of Core Boxes: 23 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/29/2005 Completed 8/1/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.1 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 240 ft | | 19. Inspector: A.M. Noronha | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.1 | 0.0 | | | | | | |
| 8.9 | 1.2 | | ROADFILL: Gravelly SAND, tan brown, moderately graded, fine sand to coarse gravel, angular grains. | | | 10.1 Road fill material from 0 to 1 foot | |
| 7.4 | 2.7 | | PEAT: black, fine grained, mostly organic. | | | | |
| 6.6 | 3.5 | | Clayey SAND | | | | |
| 5.6 | 4.5 | | SAND: tan brown, poorly graded, fine to medium grained, subangular calcitic sand with Limestone chips. | | | | |
| 4.4 | 5.7 | | LIMESTONE: white, hard, flakey, quite porous, shelly (Caprock formation) | | | 5.1 | |
| 3.4 | 6.7 | | Clayey SAND | | | GM; Silty gravel with sand; Moisture=6%; Caprock-4.5 to 5.7 | |
| 2.9 | 7.2 | | LIMESTONE: white, hard, flakey, quite porous, shelly. | | | | |
| -2.9 | 13.0 | | SAND: light gray, moderately graded, fine to medium grained, subangular calcitic sand with shells (Fort Thompson Formation). | | | 0.1 SM; Silty SAND with gravel; Moisture=21% | |
| -3.3 | 13.4 | | LIMESTONE | | | | |
| | | | SAND: light brown, poorly graded, fine to medium grained | | | | |

0 2 4 6 8 10 12 14

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0282 |

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 2 of 14 Sheets

Project: EAA Reservoir A-1 | Installation:

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.9 | 15.0 | | | | | -4.9 | |
| | | | Grades to greenish gray fine grained calcitic sand. | | | | 16 |
| -7.9 | 18.0 | | | | | | |
| -8.4 | 18.5 | | LIMESTONE: vuggy, moderately hard, shelly. | | | | 18 |
| | | | SAND: greenish gray, poorly graded, fine to coarse grained, angular calcitic sand with gravelly shells and trace silt. | | | | 20 |
| | | | | | | | 22 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| -17.9 | 28.0 | | | | | -17.9 | |
| -18.4 | 28.5 | | LIMESTONE: dark gray, hard, vuggy, fossiliferous. | | | | 28 |
| | | | SAND: light gray, moderately graded, fine to coarse grained subangular calcitic sand, subrounded gravelly quartz. | | | Caloosahatchee Formation or Pinecrest sand of Tamiami Formation | |
| | | | | | | -19.9 | 30 |
| | | | | | | SM: Silty sand with gravel; Moisture=8% | |
| | | | Grades to tan brown, fine grained predominantly rounded quartz. | | | | 32 |

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ENG FORM 1836 Previous editions are obsolete.

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 3 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.3 | 33.4 | | | | | -23.3 | |
| -24.9 | 35.0 | | SAND: light brown, poorly graded, fine to medium, grained, equal parts of of angular calcitic sand and subrounded quartz, shell fragments present. | | | | |
| | | | | | | -29.9 | |
| | | | Grades to moderately graded, fine to coarse grained. | | | -34.9 | |
| | | | | | | SP; poorly graded sand with gravel; Moisture=14% | |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 4 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.7 | 51.8 | | | | | -41.7 | |
| | | | | | | -44.9 | |
| | | | | | | SP-SM; poorly graded sand with silt and gravel; Moisture=10%; Mostly fine quartz sand | |
| | | | Grades to light gray, fine to medium grained, rounded quartz, pieces of moderately hard stone with shell, trace phosphate. | | | | |
| | | | Grades to tan brown, moderately graded fine to coarse grained, predominantly angular calcitic sand , minor portion of rounded to subrounded quartz. | | | | |
| | | | Grades to light gray, well graded, fine to medium grained, with equal parts of subangular calcitic sand and rounded quartz, with trace phosphate and few peices of coarse gravel. | | | | |
| -58.9 | 69.0 | | | | | -58.9 | |
| | | | Grades to poorly graded, fine to coarse grained, predominantly angular calcitic sand, small portion of rounded quartz, | | | -59.9 Ochopee Limestone | |

52 54 56 58 60 62 64 66 68 70

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 5 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -60.1 | 70.2 | | quite gravelly, coarse gravel peices - cemented angular calcitic sand and shell fragments. | | | -60.1 of Tamiami Formation GP-GM; poorly graded gravel with silt; Moisture=7%; Top Ochopee Limestone, Tamiami at 69 ft | |
| -64.2 | 74.3 | | SAND: greenish gray, moderately graded, fine to coarse grained, angular calcitic sand, coarse gravel peices mostly cemented sands with shells, quite vuggy, trace quartz. | | | | |

72 74 76 78 80 82 84 86 88

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 5 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.5 | 88.6 | | | | | -78.5 | |
| | | | Grades to trace rounded quartz, the few gravel peices are weak to moderately hard and quite porous. | | | -84.9 | |
| | | | | | | SP-SM, poorly graded sand with silt; Moisture=22% | |

90
92
94
96
98
100
102
104
106

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 7 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -96.9 | 107.0 | | | | | -96.9 | |
| -99.9 | 110.0 | | Silty SAND: greenish gray, moderately graded, fine to medium grained, small percentage of coarse sand, angular calcitic sand, trace quartz, trace clay. | | | -104.9 | |
| | | | | | | SM; silty sand with gravel; Moisture=20% | |
| | | | | | | -109.9 | |
| | | | | | | SM; silty sand with gravel; Moisture=22% | |
| -111.9 | 122.0 | | SAND: dark greenish gray, mostly fine grained, subangular calcitic sand, trace fine rounded quartz. | | | | |

108 110 112 114 116 118 120 122 124

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 4 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -115.3 | 125.4 | | | | | -115.3 | |
| | | | Grades to greenish gray to tan brown, well graded, some medium grained sand to fine gravel. | | | -119.9<br>SM; silty sand; Moisture=21% | |
| | | | Grades to greenish gray, moderately graded, fine to coarse grained, angular calcitic sand, small percentage of rounded quartz, some silt, a few peices of fine to coarse gravel - mostly bedded calcitic sand and shells, trace phosphate. | | | -124.9<br>SM; silty sand with gravel; Moisture=21% | |

126 128 130 132 134 136 138 140 142

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 9 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -133.7 | 143.8 | | | | | -133.7 | |
| | | | Silt grades out. | | | -134.9<br>SP-SM; Poorly graded sand with silt and gravel; Moisture=13% | |

144
146
148
150
152
154
156
158
160
162

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0282 |

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 10 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -152.1 | 162.2 | | | | | -152.1 | |
| | | | Grades to greenish gray to pale olive gray, fine to medium grained, small percentage ofr coarse sand to fine gravel, gravel peices weak to moderately hard and quite porous, rounded quartz and phosphate grades out. | | | -154.9 | 164 |
| | | | | | | GP-GM; Poorly graded Gravel with silt and sand; Moisture=14% | 166 |
| | | | | | | | 168 |
| -159.9 | 170.0 | | SAND: dark greenish gray, moderately graded, mostly fine grained, small percentage of medium grained sand to fine gravel with trace phosphate. | | | | 170 |
| | | | | | | -161.9 | 172 |
| | | | | | | Top unamed Sand Formation at 177 ft; grades to mostly fine quartzose sand | 174 |
| | | | | | | | 176 |
| | | | | | | | 178 |
| | | | | | | -169.9 | 180 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 11 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -170.4 | 180.5 | | | | | -170.4 | |
| | | | | | | SM; Silty SAND with gravel; Moisture=20% | |
| | | | | | | | 182 |
| | | | | | | | 184 |
| | | | | | | | 186 |
| | | | | | | | 188 |
| | | | | | | | 190 |
| | | | | | | | 192 |
| | | | | | | | 194 |
| | | | | | | | 196 |
| | | | | | | | 198 |

(CONTINUED)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 12 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -188.8 | 198.9 | | | | | -188.8 | |
| -189.9 | 200.0 | | SAND: pale olive gray, well graded, very fine to fine grained, subangular calcitic sand, small percentage of fine subrounded quartz, trace phosphate. | | | -189.9<br>SM; silty sand; Moisture=20%; Top Peace River at 200 ft | |
| -203.4 | 213.5 | | Grades to olive gray, moderately graded, trace fine rounded quartz, phosphate grades out. | | | -204.9<br>SM; silty sand; Moisture=28% | |

200 202 204 206 208 210 212 214 216

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0282 |

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 13 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -207.2 | 217.3 | | | | | -207.2 | |
| -209.9 | 220.0 | | Clayey SAND: olive gray, moderately graded, very fine to fine grained, subangular calcitic sand, trace silt. | | | | |
| | | | | | | -214.9 | |
| | | | | | | ML; Inorganic silts and very fine sand; Moisture=38% | |
| | | | | | | -219.9 | |
| | | | | | | NOTES: (1) All calcitic material is at least in part shells and shell fragments. | |
| | | | | | | -222.9 | |
| | | | | | | (2) The sonic drill drives and vibrates a core barrel into the ground to obtain a sample. Hard, well cemented materials are generally | |

218 220 222 224 226 228 230 232 234

(continued)

END FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0282

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 14 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -225.6 | 235.7 | | | | | -225.6 | |
| | | | | | | fractured by the drilling and weakly cemented granular materials tend to be disaggregated. | |
| -229.9 | 240.0 | | | | | | |
| | | | End of Boring at 240' | | | NOTES: 1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93. | |

236 238 240 242 244 246 248 250 252 254

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0282

Hole No. CP05-EAARS-RB-0283

| DRILLING LOG | Division: | Installation: | Sheet 1 of 13 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 5 inch |
| 2. Location: N750067.1, E773030.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse (sub-contracted to Prosonic) | 12. Manufacturer's Designation for Drill: SRO-109 |
| 4. Hole No: CP05-EAARS-RB-0283 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Fred Kruas | 14. Total Number of Core Boxes: 22 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/12/2005 Completed 8/14/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 220 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.9 | 0.0 | | Sandy GRAVEL, light to dark brown, well graded, fine to coarse grained, dry (fill) | | | 10.9 26 23'49"N 80 38'35"W | |
| 8.4 | 2.5 | | Silty Gravelly SAND with cobbles, pale brownish grey, well graded, fine to coarse grained, moist, angular, calcitic, thin cemented nodules and layers common | | | 7.9 Fort Thompson Formation | |
| | | | | | | 5.9 CL-ML; Sandy silty clay with gravel; Moisture=10% | |
| | | | Grades wet at 10 ft | | | 0.9 CL-ML; Sandy silty clay with gravel; Moisture=23% | |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0283 |

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 2 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.1 | 15.0 | | | | | -4.1 | |
| -10.6 | 21.5 | | LIMESTONE, pale brownish grey, thinly bedded, coarse to very coarse (shells) grained (calcarenite), moderately hard and moderately strong, fossiliferous, porous (intergranular and moldic), grainstone | | | | |
| -11.6 | 22.5 | | Silty Gravelly SAND, as above but with a trace fine to very fine quartz sand | | | -12.1 | |
| | | | | | | Fort Thompson Formation | |
| -15.6 | 26.5 | | SAND: pale brownish grey, wet, well graded, fine to coarse grained, mostly angular and calcitic, some fine subrounded quartz sand; gravelly (cemented sand aggregates down to 28 ft. Grades fine grained at 29 ft; subequal parts angular, calcitic and subrounded, quartz sands. Grades fine to medium grained at 31.5 ft. Grades fine to coarse grained with gravel (cemented aggregates) at 32.5 ft. Grades to gravelly (shells) SAND, 36 to 38 ft, with fine, subrounded quartz sand predominating. Below 38 ft primarily fine, uniform subrounded, quartz sand with some sand to fine gravel sized shell fragments | | | -15.6 | |
| | | | | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 10.9 | Sheet 3 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.5 | 33.4 | | | | | -22.5 | |
| | | | | | | | 34 |
| | | | | | | | 36 |
| | | | | | | | 38 |
| | | | | | | -29.1 | |
| | | | | | | | 40 |
| | | | | | | SP-SM; Poorly graded SAND with silt; Moisture=17% | |
| | | | | | | | 42 |
| | | | | | | | 44 |
| -34.1 | 45.0 | | Sandy GRAVEL, light brownish grey, well graded, fine to coarse, angular, sandy limestone gravel with sand as above | | | | |
| | | | | | | | 46 |
| | | | | | | | 48 |
| -38.1 | 49.0 | | GRAVEL with small cobbles, light brownish grey, well graded, fine to coarse, angular, sandy limestone, fossiliferous, with moldic porosity, trace fine, subrounded, uniform, fine quartz sand | | | | |
| | | | | | | | 50 |

(CONTINUED)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 4 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -40.9 | 51.8 | | | | | -40.9 | |
| | | | | | | -49.1 | |
| -50.1 | 61.0 | | Silty SAND: pale brownish grey, wet, mostly uniform, fine, quartz sand with some angular, fine to coarse, calcitic sand, trace fine gravel (cemented aggregates of sand). Grades gravelly at 63.5 ft with trace cobbles. Grades light olive grey at 67.5 ft | | | SP-SM; Poorly graded sand with silt and gravel; Moisture=8% | |
| -57.6 | 68.5 | | SAND: olive grey, wet, mostly uniform, fine grained, subrounded and quartzose, some angular, calcitic (shells and fragments), fine sand to coarse gravel and cobbles, trace silt | | | | |

52 54 56 58 60 62 64 66 68 70

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 5 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.3 | 70.2 | | | | | -59.3 | |
| -63.1 | 74.0 | | SAND: light grey, well graded, fine to coarse grained, mostly well graded, fine to coarse, angular, calcitic, some uniform, fine, subrounded, quartzose, some fine to coarse, angular, calcitic gravel.<br>Between 81 and 83 ft moist gravel sized shelly matter, grades out and some fine to coarse gravel sized, subrounded to subangular cemented aggregates of the sand grade in. Grades lighter grey 84 to 90 ft, very light grey. | | | -63.1<br>Ochopee Limestone Member of Tamiami Formation | |
| | | | | | | -69.1<br>Calcitic material is shell and shell fragments | |

72 74 76 78 80 82 84 86 88

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 8 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.7 | 88.6 | | | | | -77.7 | |
| | | | | | | | 90 |
| | | | | | | | 92 |
| | | | | | | | 94 |
| | | | 95.5 ft to 113 ft no gravel, sand aggregates | | | | 96 |
| | | | | | | | 98 |
| | | | Grades back to light grey at 100 ft | | | -89.1 | 100 |
| | | | | | | SP-SM; Poorly graded sand with silt; Moisture=11%; CO3=71.7% | 102 |
| | | | | | | | 104 |
| | | | | | | | 106 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 7 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -96.1 | 107.0 | | | | | -96.1 | |
| | | | | | | -99.1 | |
| | | | | | | SM; Silty sand with gravel; Moisture=18%; CO3=75.5% | |
| | | | At 113 ft gravel, larger shell fragments and sand aggregates grade back in | | | | |
| | | | | | | -104.1 | |
| | | | Grades to some gravel 115 ft to 117 ft | | | | |
| | | | | | | SW-SM; Well graded sand with silt and gravel; Moisture=16%; CO3=75.9% | |
| | | | 120 ft to 121 ft grades light brownish grey with a trace silt. Some gravel (cemented sand aggregates grades in mostly coarse (poorly graded), calcitic sand | | | | |
| | | | | | | -114.1 | |

108 110 112 114 116 118 120 122 124

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.9 | Sheet 8 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -114.5 | 125.4 | | | | | -114.5 | |
| | | | | | | SW-SM; Well graded sand with silt and gravel; Moisture=13%; CO3=77.7% | 126 |
| | | | | | | | 128 |
| | | | | | | | 130 |
| | | | | | | | 132 |
| | | | | | | | 134 |
| | | | | | | | 136 |
| | | | | | | | 138 |
| | | | 139 ft, grades to mostly uniform, fine, subrounded quartzose sand with some fine to medium grained, angular calcitic sand, some coarse sand to coarse gravel sized aggregates of sand and shell fragments, no silt | | | -129.1 | 140 |
| | | | | | | SP-SM; Poorly graded sand with silt and gravel; Moisture=19%; CO3=53.0% | 142 |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 9 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -132.9 | 143.8 | | | | | -132.9 | |
| -139.1 | 150.0 | | Grades gravelly (aggregates of sand with shell molds) 150 ft to 161 ft | | | -139.1 | |
| | | | | | | SW-SM; Well graded sand with silt and gravel; Moisture=13%; CO3=68.3% | |
| -144.1 | 155.0 | | Grades yellow-grey at 155 ft | | | | |
| | | | | | | -149.1 | |
| | | | Below 161 ft. most gravel is fine and angular, shell fragments. 163 ft to 165 ft. most shells and cement | | | SW-SM, Well graded sand with silt and gravel; Moisture=14%; CO3=67.2% | |

144 146 148 150 152 154 156 158 160 162

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 10 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -151.3 | 162.2 | | | | | -151.3 | |
| | | | (gravel) grade out | | | | 164 |
| | | | SAND: yellow grey, uniform, fine grained, subrounded, quartzose, trace fine, angular, calcitic gravel (shell fragments), trace silt | | | -154.1<br>SM; Silty sand; Moisture=20%; CO3=41.2%; Unarned Sand Formation | 166<br>168<br>170<br>172 |
| | | | Color grades pale olive grey at 174 ft | | | | 174<br>176<br>178 |
| | | | | | | -169.1 | 180 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 11 of 13 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -169.6 | 180.5 | | | | | -169.6 | |
| | | | | | | SM; Silty sand; Moisture=20%; CO3=37.9% | 182 |
| | | | 183.5 ft, some silt grades in | | | | 184 |
| | | | | | | -174.1 | |
| | | | | | | CL-ML; Silty sand with clay; Moisture=20%; CO3=53.6% | 186 |
| | | | Grades light olive grey at 187.5 ft, silt grades out. | | | | 188 |
| | | | Grades medium olive grey at 190 ft. | | | | 190 |
| | | | Trace silt grades in at 192.5 ft | | | | 192 |
| | | | | | | | 194 |
| | | | | | | -184.1 | |
| | | | | | | SM; Silty sand with gravel; Moisture=17%; CO3=36.6% | 196 |
| -187.1 | 198.0 | | Grading more silty and darker olive grey below 198 ft | | | | 198 |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0283 |

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 12 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -188.0 | 198.9 | | | | | -188.0 | |
| -189.1 | 200.0 | | Silty SAND: dark olive grey, uniform, fine grained, wet, subrounded, quartzose. Grades medium olive grey 200 ft to 205 ft. Grades dark olive grey at 205 ft | | | -189.1 | 200 |
| | | | | | | SM; Silty sand; Moisture=25%; CO3=23.9%; Peace River Formation | 202 |
| | | | | | | | 204 |
| | | | | | | -194.1 | |
| | | | | | | SM; Silty sand; Moisture=26%; CO3=30.5%; appears to be extremely fine grained quartz | 206 |
| | | | | | | | 208 |
| | | | | | | -199.1 | 210 |
| | | | | | | NOTES: (1) All calcitic material is at least in part shells and shell fragments. | 212 |
| | | | | | | | 214 |
| | | | | | | -204.1 | |
| | | | | | | (2) The sonic drill drives and vibrates a core barrel into the ground to obtain a sample. Hard, well cemented materials | 216 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0283

Hole No. CP05-EAARS-RB-0283

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 13 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -206.4 | 217.3 | | | | | -206.4 | |
| -209.1 | 220.0 | | | | | are generally fractured by the drilling and weakly cemented granular materials tend to be disaggregated. | |
| | | | End of Boring at 220' | | | NOTES: 1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93. | |

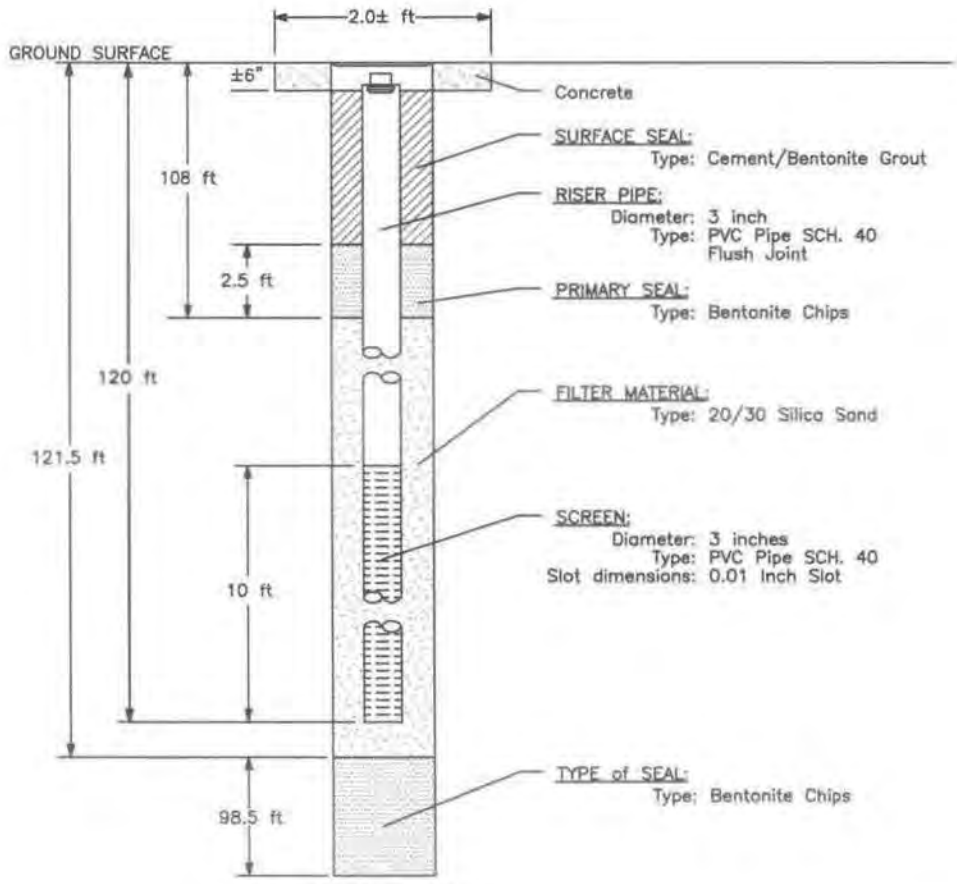
218 220 222 224 226 228 230 232 234

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0283 |

Hole No. CP05-EAARS-TW-0283

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 750072, E 773031 | | 9. Manufacture's Designation for Drill: SRO-109 |
| 3. Drilling Agency: Prosonic | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0283 | | 11. Date Hole: Started 8-14-05 Completed 8-14-05 |
| 5. Name of Driller: Fred Kruass | | 12. Elevation Top of Riser: ±10' |
| 6. Depth of Piezometer: 25 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: JP |

FLUSH MOUNT




BORING DIAMETER
DAIMETER: 5 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05-EAARS-RB-0284

| DRILLING LOG | Division: | Installation: | Sheet 1 of 14 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 5 inch | |
| 2. Location: N764450.8, E758066.4 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse (sub-contracted to Prosonic) | | 12. Manufacturer's Designation for Drill: SRO-109 | |
| 4. Hole No: CP05-EAARS-RB-0284 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Fred Kruas | | 14. Total Number of Core Boxes: 23 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/9/2005 Completed 8/11/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.6 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 240 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.6 | 0.0 | | | | | | |
| 10.1 | 0.5 | | ROADFILL | | | | |
| | | | PEAT: brownish black, fine grained, non-plastic, organic silt | | | | |
| 5.6 | 5.0 | | | | | 5.6 | |
| 4.1 | 6.5 | | Gravelly CLAY and Silty GRAVEL (Marl): gray, low plasticity Clay with subrounded limestone gravel to angular limestone with silt with depth. Lower part is weathered caprock. | | | Fort Thompson Formation | |
| 3.6 | 7.0 | | LIMESTONE (Caprock): tan, fine to coarse grained, thinly bedded, fossiliferous, hard and strong. | | | | |
| | | | SAND: pale brownish gray, well graded, fine to coarse grained, angular, calcitic, some fine to coarse angular limestone gravel, trace to some silt, trace tabular cobbles (limestone layers to 2" thick.) | | | 0.6 | |
| | | | | | | SM: silty sand with gravel; Moisture=18% | |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0284 |

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 2 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.4 | 15.0 | | | | | -4.4 | |
| | | | Fine uniform quartz sand grading in at 17.5'. | | | | 16, 18 |
| -9.4 | 20.0 | | SAND: pale brownish gray, uniform, fine grained, subrounded, quartz, with a trace fine angular calcitic sand. Trace rounded to angular, fine to coarse gravel (cemented sand) grades in at 21'. | | | -9.4 | 20 |
| | | | | | | SP: Poorly graded SAND; Moisture=26%; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 22, 24 |
| -15.4 | 26.0 | | Gravelly SAND: as above but more gravel. | | | | 26 |
| -17.4 | 28.0 | | Gravel grades out. | | | | 28 |
| -19.4 | 30.0 | | SAND: pale brownish gray, uniform, fine grained, subrounded, quartz, trace angular, calcitic fine sand to fine gravel (shells and fragments). | | | | 30, 32 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 3 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.8 | 33.4 | | | | | -22.8 | |
| -27.9 | 38.5 | | Grading trace silt | | | | |
| | | | GRAVEL: light brownish gray, well graded, fine to coarse grained, angular, trace cobbles, clasts consist of cemented quartz and calcitic sand with shell fragments and have a porous open fabric. | | | -29.4 | |
| | | | Grades with some silt and fine sand 38.5 to 41 ft. | | | GP; Poorly graded Gravel with sand; Moisture=2% | |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836 | PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 4 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.2 | 51.8 | | | | | -41.2 | |
| -44.4 | 55.0 | | Grades to sandy gravel as above with trace silt. | | | -44.4 | |
| -46.4 | 57.0 | | Gravelly SAND: pale brownish gray, well graded, mostly angular to subangular fine to coarse grained calcitic sand, some fine grained uniform subrounded quartz sand, trace silt grades out at 60 ft. Gravel clasts are angular, fine to coarse grained, cemented aggregates of sand and shell fragments. | | | SP-SM; Poorly graded sand with silt and gravel; Moisture=16% | |
| | | | | | | -50.4 | |
| | | | | | | Grades to trace quartz sand below 60 ft | |
| -59.4 | 70.0 | | | | | -59.4 | |

52 54 56 58 60 62 64 66 68 70

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 5 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.6 | 70.2 | | SAND (Ochopee Limestone member Tamiami): pale brownish gray, well graded, fine to coarse grained, angular to subrounded, calcitic with some gravel as above. Most coarse sand grains are aggregates of finer sand | | | -59.6<br>SP-SM; Poorly graded SAND with silt and sand; Moisture=9%; Most coarse sand grains are also aggregates of finer sands<br>-64.4 | 72<br>74 |
| | | | Grades medium gray with some quartz sand and trace gravel. | | | Top Ochopee Limestone Member Tamiami at 70 ft | 76<br>78<br>80<br>82<br>84<br>86<br>88 |

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 6 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -78.0 | 88.6 | | | | | -78.0 | |
| | | | Some gravel 90 to 93 ft. | | | -79.4 | 90 |
| | | | | | | SP-SM; Poorly graded SAND with silt and gravel; Moisture=15% | 92 |
| | | | | | | | 94 |
| | | | | | | | 96 |
| | | | | | | | 98 |
| | | | | | | -89.4 | 100 |
| | | | Some gravel grades in at 100.5 ft, less (trace) quartz sand. | | | GP-GM; Poorly graded Gravel with silt and sand; Moisture=11% | 102 |
| | | | | | | | 104 |
| | | | | | | | 106 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 7 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -96.4 | 107.0 | | | | | -96.4 | |
| | | | | | | | 108 |
| | | | | | | | 110 |
| | | | | | | | 112 |
| | | | | | | | 114 |
| | | | | | | | 116 |
| | | | | | | | 118 |
| | | | | | | -109.4 | 120 |
| | | | Grades trace silt 120 to 123 ft. | | | SM; Silty sand with gravel; Moisture=13% | |
| | | | | | | | 122 |
| | | | | | | | 124 |
| -114.4 | 125.0 | | Gravelly SAND; light brownish gray, well | | | -114.4 | |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 8 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -114.8 | 125.4 | | | | | -114.8 | |
| | | | graded, fine to coarse grained, mostly angular to sub rounded and calcitic, trace quartz sand, more gravel as above. | | | SP-SM; Poorly graded sand with silt and gravel; Moisture=10% | 126 128 130 132 134 136 |
| -127.4 | 138.0 | | | | | | |
| | | | Grading sand as above, but with less (some) gravel. | | | -129.4 | 138 140 |
| | | | | | | SP-SM; Poorly graded SAND with silt and gravel; Moisture=9% | 142 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 5 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -133.2 | 143.8 | | | | | -133.2 | |
| | | | Grades light gray with more (some) fine quartz sand. | | | | 144, 146, 148, 150, 152 |
| -142.4 | 153.0 | | | | | -142.4 | |
| | | | SAND: pale yellow gray, poorly graded mostly uniform, fine subrounded quartz; some fine to coarse angular calcitic; some fine to coarse angular gravel (cemented aggregates of sand and shell fragments). | | | Unnamed Sand Formation at 153 ft | 154 |
| | | | | | | -144.4 | |
| | | | | | | SP-SM; Poorly graded SAND with silt and gravel; Moisture=12% | 156, 158 |
| | | | Grades light yellow gray at 160 ft with no gravel. Some gravel grades back in at 162 ft. | | | | 160, 162 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.6 | Sheet 10 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -151.6 | 162.2 | | | | | -151.6 | |
| -155.4 | 166.0 | | Gravelly SAND: as abovel but more gravel in it. | | | | |
| -156.4 | 167.0 | | SAND: as above, but some gravel and trace silt. | | | | |
| -160.9 | 171.5 | | SAND: light yellow gray, fine to coarse grained, well graded, subequal amounts of fine uniform quartz and fine to coarse calcitic sand. | | | | |
| -162.4 | 173.0 | | SAND: light yellow gray, mostl;y uniform, fine fine grained subrounded quartz, trace fine to medium angular calcitic sand, some gravel as a bove, trace silt. | | | -164.4 | |
| | | | | | | SM: silty sand with gravel; Moisture=17% | |
| -169.4 | 180.0 | | GRAVEL: light gray, well graded, fine to | | | | |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.6 | Sheet 11 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -169.9 | 180.5 | | | | | -169.9 | |
| -170.4 | 181.0 | | coarse; subangular to rounded, calcereous sandstone. | | | | |
| | | | SAND: light yellow gray, uniform, fine grained quartz, some fine to medium angular calcitic sand, trace silt. | | | | 182 |
| | | | | | | | 184 |
| | | | Between 183 and 187.5: grades pale yellow gray, very fine grained and silty. | | | -174.4 | |
| | | | At 184.5: becomes uniform fine grained quartz sand. | | | | |
| | | | At 187.5: SAND: very fine grained quartz with trace silt. | | | SM; silty sand; Moisture=15% | 186 |
| | | | | | | | 188 |
| | | | | | | | 190 |
| | | | | | | | 192 |
| | | | | | | | 194 |
| | | | | | | | 196 |
| | | | Grades to light olive gray at 198 ft (Peace River Formation) | | | | 198 |

CONTINUED

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.6 | Sheet 12 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -188.3 | 198.9 | | | | | -188.3 | |
| | | | | | | -189.4 | |
| | | | | | | Peace River Formation at 198 ft | |
| | | | | | | -194.4 | |
| | | | | | | SM; silty sand; Moisture=23% | |
| | | | | | | -199.4 | |
| | | | Grades to medium olive gray at 210. More (some) silt. | | | SM; silty sand; Moisture=26% | |

200 202 204 206 208 210 212 214 216

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 10.6 | Sheet 13 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -206.7 | 217.3 | | | | | -206.7 | |
| -209.4 | 220.0 | | Silty SAND: as above but more silty. | | | | |
| -211.4 | 222.0 | | SILT: olive gray, non-plastic. | | | | |
| | | | | | | -214.4 | |
| | | | | | | ML: Inorganic silts and very fine sand; Moisture=75% | |
| | | | | | | -216.4 | |
| | | | | | | NOTES: (1) All calcitic material is at least in part shells and shell fragments. | |
| | | | | | | -219.4 | |
| | | | | | | (2) The sonic drill drives and vibrates a core barrel into the ground to obtain a sample. Hard, well cemented materials are generally fractured by the drilling and weakly cemented, granular materials tend to be disaggregated | |

218 220 222 224 226 228 230 232 234

(CONTINUED)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0284

Hole No. CP05-EAARS-RB-0284

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 14 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -225.1 | 235.7 | | | | | -225.1 | |
| -229.4 | 240.0 | | | | | | |
| | | | End of Boring at 240' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93. | |

236
238
240
242
244
246
248
250
252
254

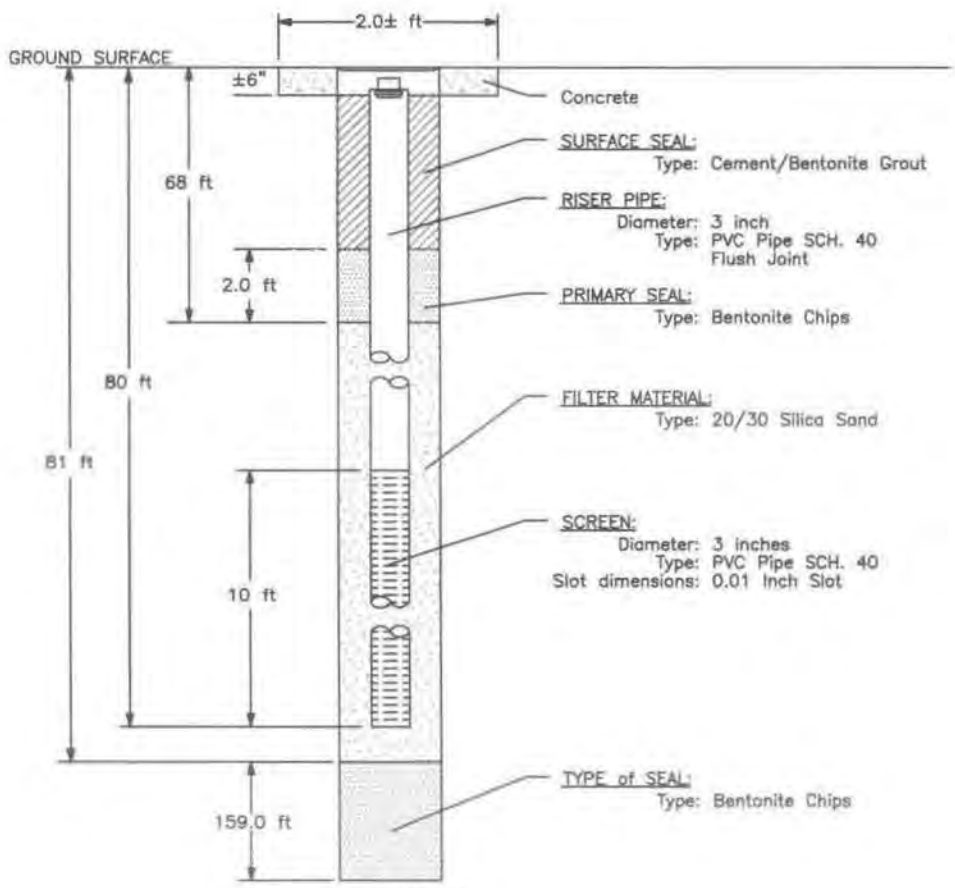
ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0284 |

Hole No, CP05–EAARS–TW–0284

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A–1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 784456, E 758050 | | 9. Manufacture's Designation for Drill: SRO–109 |
| 3. Drilling Agency: Prosonic | | 10. Elevation Groundwater: |
| 4. Hole No. CP05–EAARS–TW–0284 | | 11. Date Hole: Started 8–11–05 Completed 8–11–05 |
| 5. Name of Driller: Fred Kruass | | 12. Elevation Top of Riser: ±10' |
| 6. Depth of Piezometer: 25 ft | | 13. Inspector: JP |
| 7. Size and type of bit: 6" bit, Rotary Method | | |

FLUSH MOUNT




BORING DIAMETER
DAIMETER: 5 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG | Division: | Installation: | Sheet 1 of 14 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 5 inch | |
| 2. Location: N781917.3, E766194.9 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse (sub-contracted to Prosonic) | | 12. Manufacturer's Designation for Drill: SRO-109 | |
| 4. Hole No: CP05-EAARS-RB-0285 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Fred Kruas | | 14. Total Number of Core Boxes: 29 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/26/2005 Completed 7/28/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 12.5 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 250 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.5 | 0.0 | | ROADFILL (GRAVEL): tan, well graded, fine to coarse, angular, some sand, cobbles and boulders, trace silt. | | | | |
| 9.5 | 3.0 | | PEAT | | | | |
| 7.5 | 5.0 | | GRAVEL | | | | |
| 6.5 | 6.0 | | LIMESTONE (caprock): tan to light brown and gray, thinly bedded, fine to coarse grained, vuggy, strong and hard to porous, soft and weak. | | | | |
| 1.5 | 11.0 | | Silty SAND: as below but more silt. | | | | |
| 0.5 | 12.0 | | SAND: pale brownish gray, well graded, fine to coarse grained, angular, calcitic, some fine gravel (cemented sand and shells), trace to some silt. Limestone layer from 15' to 15.2'. | | | | |
| | | | | | | -2.5 (continued) | |

0 2 4 6 8 10 12 14

ENG FORM 1836 Replaces Ground Water Resource

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 2 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.5 | 15.0 | | | | | -2.5 | |
| | | | | | | Limestone layer 15 to 15.2 ft | 16 |
| | | | | | | | 18 |
| | | | | | | | 20 |
| -10.0 | 22.5 | | | | | | 22 |
| | | | Gravelly SAND: light brownish gray sand as above but no silt, fine to coarse subangular gravel clasts are cemented sand. | | | | 24 |
| -12.5 | 25.0 | | | | | | |
| | | | SAND: as above from 12 to 22.5 ft. | | | | 26 |
| | | | | | | | 28 |
| -17.0 | 29.5 | | | | | | |
| | | | Sandy GRAVEL: pale brownish gray, subangular, well graded, fine to coarse, limestone interbedded with sand as above. Limestone layers from 31.6 to 32.1, 32.1 to 32.4, and 33 to 33.3 ft. | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 3 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.9 | 33.4 | | | | | -20.9 | |
| -21.0 | 33.5 | | Sandy GRAVEL: as above but calcareous sandstone gravel with sand as below. | | | -21.0 | |
| | | | | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation at 33.5 ft | |
| -23.0 | 35.5 | | SAND: pale brownish gray, poorly graded, mostly uniform, fine grained subrounded quartz, some fine to coarse grained angular calcite, some silt, some fine to coarse grained subangular calcerous sandstone gravel. | | | | |
| | | | Grade to trace gravel below 42 ft, mostly shell fragments. | | | | |
| | | | Grades to larger portion of calcite versus quartz sand below 47 ft, subequal proportions | | | | |

34 36 38 40 42 44 46 48 50

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 4 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -39.3 | 51.8 | | | | | -39.3 | |
| | | | Grades in more (some) gravel at 57 ft, mostly shell. | | | | |
| | | | Grades to predominantly calcitic sand below 60 ft, becomes well graded. | | | -47.5 | |
| | | | | | | Ochopee Limestone Member Tamiami Formation at 70 ft | |
| -57.5 | 70.0 | | | | | | |

52 54 56 58 60 62 64 66 68 70

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 12.5 | Sheet 5 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -57.7 | 70.2 | | | | | -57.7 | |
| | | | Gravelly SAND (Ochopee Limestone member, Tamiami Formation): pale brownish gray, well graded, fine to coarse grained, angular, calcitic sand with a trace fine quartz sand, some silt. Gravel (fine to coarse) consists of shell and porous cemented angular frameworks of shell and sand. | | | | 72 74 76 78 |
| -67.5 | 80.0 | | | | | -67.5 | |
| | | | SAND: as above but grades light brownish gray, no silt and only trace fine gravel shells. | | | At 80 ft grades light brownish grey; gravel clasts; loose porosity | 80 |
| -69.5 | 82.0 | | | | | | |
| | | | Gravelly SAND: as above but gravel grades back in. Gravel clasts lose porosity. | | | | 82 |
| -71.0 | 83.5 | | | | | | |
| | | | SAND: as above with less (some) gravel. Grades fine to medium grained with proportion of quartz sand increasing and predominating below 85 ft. | | | | 84 86 |
| -75.5 | 88.0 | | | | | | |
| | | | Sandy GRAVEL: pale brownish gray, well graded, fine to coarse grained. | | | | 88 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 6 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -76.1 | 88.6 | | angular and tabular, cemented aggregates of sand, shell and shell fragments subequal amonts of quartz and calcitic sand, trace silt. | | | -76.1 | |
| | | | Below 90 ft, fine quartz predominates in the sand fraction. | | | | |

90

92

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102

104

106

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 7 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -94.5 | 107.0 | | | | | -94.5 | |
| -107.5 | 120.0 | | Gravelly SAND: as above but more sand. Quartz grades subrounded. | | | | |

108
110
112
114
116
118
120
122
124

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 8 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -112.9 | 125.4 | | | | | -112.9 | |
| -118.5 | 131.0 | | Sandy GRAVEL: as above but more gravel. | | | | |
| -120.5 | 133.0 | | GRAVEL: as above, but less (some) sand and very shelly. | | | | |
| -123.5 | 136.0 | | Sandy GRAVEL: as above. Grades tabular to platey, cemented aggregates of sand and shell fragments, with sand as above. | | | | |
| | | | Grades yellow at 140 ft. Unnamed sand formation. | | | -127.5 Grades yellow grey at 140 ft; Unamed Sand Formation | |

126 128 130 132 134 136 138 140 142

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 9 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -131.3 | 143.8 | | | | | -131.3 | |
| | | | Below 150 ft, increasing proportion of quartz to calcitic sand fraction. | | | | |
| -140.0 | 152.5 | | SAND: yellow gray, uniform, fine grained, subrounded, primarily quartzose, some calcitic some fine to coarse platey gravel (shells). | | | | |
| -147.5 | 160.0 | | SAND: grades as above with less (trace) and angular gravel. | | | | |

144 146 148 150 152 154 156 158 160 162

(continued)

EAO FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 12.5 | Sheet 10 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -149.7 | 162.2 | | | | | -149.7 | |
| -151.5 | 164.0 | | SAND: grades as above with more (some) gravel and trace medium grained angular calcitic sand. | | | | 164 |
| | | | | | | | 166 |
| | | | | | | | 168 |
| -157.5 | 170.0 | | SAND: grades as above with trace fine angular platey coarse sand to fine gravel. | | | | 170 |
| | | | | | | | 172 |
| | | | | | | | 174 |
| | | | | | | | 176 |
| | | | | | | | 178 |
| | | | | | | | 180 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 11 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -168.0 | 180.5 | | | | | -168.0 | |
| | | | All gravel grades out at 191 ft. | | | | |
| -182.5 | 195.0 | | SAND: olive gray, uniform, fine grained, subrounded quartzose, trace silt (Peace River Formation) | | | -183.5 | |
| | | | | | | Peace River Formation at 196 ft | |

182
184
186
188
190
192
194
196
198

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 12 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -186.4 | 198.9 | | | | | -186.4 | |
| | | | Grades to some silt at 207 ft. | | | | |
| -198.5 | 211.0 | | Silty SAND: olive gray, very fine grained, quartzose. | | | | |
| | | | | | | -202.5 | |
| | | | | | | CL; Sandy lean clay; Moisture=43% | |
| -204.0 | 216.5 | | SILT: olive gray, slightly plastic | | | | |

200 202 204 206 208 210 212 214 216

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0285

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 13 of 14 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -204.8 | 217.3 | | | | | -204.8 | |
| | | | | | | -207.5 | |
| | | | | | | CL; Sandy lean clay; Moisture=88% | |
| | | | | | | -212.5 | |
| | | | | | | CH; Sandy fat clay; Moisture=148%, LL=127; PL=61; PI=66 | |
| | | | | | | -217.5 | |
| | | | | | | Notes (1) All calcitic material is at least in part shells and shell fragments. | |
| | | | | | | -222.5 | |

218 220 222 224 226 228 230 232 234

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0285

Hole No. CP05-EAARS-RB-0285

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 14 of 14 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -223.2 | 235.7 | | | | | -223.2 | |
| | | | | | | (2) The sonic drill drives and vibrates a core barrel into the ground to obtain a sample. Hard, well cemented materials are generally fractured by the drilling and weakly cemented, granular materials tend to be disaggregated | |
| -237.5 | 250.0 | | | | | | |
| | | | End of Boring at 250' | | | NOTES: 1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93 | |

236 238 240 242 244 246 248 250 252 254

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0285 |

Hole No. CP05-EAARS-RB-0286

| DRILLING LOG | Division: | Installation: | Sheet 1 of 13 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 5 inch |
| 2. Location: N764302, E768597.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse (sub-contracted to Prosonic) | 12. Manufacturer's Designation for Drill: SRO-109 |
| 4. Hole No: CP05-EAARS-RB-0286 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Fred Kruas | 14. Total Number of Core Boxes: 21 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/1/2005 Completed 8/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 220 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.1 | 0.0 | | SAND (Road Fill): pale brownish gray, well graded, fine to coarse grained, angular, calcitic, some fine to coarse gravel, few cobbles. | | | | 0 |
| | | | | | | | 2 |
| 8.1 | 3.0 | | SAND: as above with dark gray color and organic contents (Peat) | | | | |
| 7.3 | 3.8 | | SAND: as above from 0 to 3 ft. | | | | 4 |
| | | | | | | 6.1 | |
| | | | | | | SM; silty sand with gravel; Moisture=14% | 6 |
| | | | | | | | 8 |
| 1.1 | 10.0 | | Sample missing (placed in bucket for Proctor testing) | | | | 10 |
| | | | | | | | 12 |
| -2.4 | 13.5 | | | | | | |
| | | | SAND: pale brownish gray, well graded fine to coarse, angular, calcitic, with trace silt. | | | | 14 |
| -3.9 | 15.0 | | | | | -3.9 | |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0286 |

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 2 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.9 | 15.0 | | | | | -3.9 | |
| -6.9 | 18.0 | | SAND: as above with tan color and more (some) silt. Becomes gravelly below 17 ft. | | | SM; silty sand with gravel; Moisture=18% | 16 |
| -13.9 | 25.0 | | Gravelly SAND: as above with light brownish gray color | | | -13.9 | 18, 20, 22, 24 |
| -16.9 | 28.0 | | Silty SAND: as above with tan color and less (some) gravel. Intermittent limestone layers 0.2 to 0.3 ft thick from 25.1 to 26.6. | | | Limestone layers 0.2 to 0.3 ft thick, 25.1 to 26.6 ft | 26 |
| -20.9 | 32.0 | | Gravelly SAND: tan, poorly graded, mostly uniform, fine, subrounded and quartzose, some fine to coarse angular and calcitic, fine to coarse angular sandy limestone gravel. | | | -16.9<br>Top of Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation at 28 ft<br>-18.9<br>SP-SM: poorly graded sand with silt and gravel: Moisture=18% | 28, 30 |
| | | | SAND: pale brownish gray, well graded, mostly fine to ocarse, angular and calcitic, some fine, subrounded and quartzose, some fine to coarse. | | | | 32 |

(continued)

ENG FORM 1836, PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0286 |

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.1 | Sheet 3 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.3 | 33.4 | | | | | -22.3 | |
| -23.9 | 35.0 | | SAND: pale brownish gray, uniform, fine grained, subrounded, quartzose, trace fine to coarse, angular calcitic sand. | | | -23.9<br>SP-SM; poorly graded sand with silt; Moisture=24% | |

34 36 38 40 42 44 46 48 50

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 4 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -40.7 | 51.8 | | | | | -40.7 | |
| -45.4 | 56.5 | | Sandy GRAVEL: pale brownish gray, fine to coarse grained, angular, slightly sandy limestone gravel with a few cobbles. Sand is well graded, fine to coarse, angular and calcitic with some uniform fine quartzose sand. Trace silt | | | -48.9 | |
| | | | | | | SP-SM: Poorly graded sand with silt and gravel; Moisture=14% | |
| | | | | | | -53.9 | |
| -54.9 | 66.0 | | Gravelly SAND: tan, poorly graded, mostly fine grained uniform subrounded quartzose, some fine to coarse angular calcitic, fine to coarse angular calcitic gravel (shells), trace silt | | | SM: silty sand; Moisture=21% | |

52 54 56 58 60 62 64 66 68 70

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 5 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.1 | 70.2 | | | | | -59.1 | |
| -59.9 | 71.0 | | | | | -59.9 | |
| | | | Sandy GRAVEL (Ochopee Limestone member of Tamiami formation): light brown to light gray, well graded, fine to coarse grained angular sandy limestone (cemented sand and shell) gravel with sand as below, trace silt. | | | Ochopee Limestone Member of Tamiami Formation at 71 ft | 72 |
| | | | | | | | 74 |
| | | | | | | -63.9 | |
| | | | | | | SM; silty sand with gravel; Moisture=13% | 76 |
| | | | | | | | 78 |
| -68.9 | 80.0 | | | | | -68.9 | |
| | | | Gravelly SAND: light gray, well graded, mostly fine to coarse grained, angular to subangular and calcitic, some fine grained, uniform, subrounded and quartzose, trace silt. 80 to 81: Most gravel is shell fragments. | | | SP-SM; poorly graded sand with silt and gravel; Moisture=12%; 80 to 81 ft most gravel is shell fragments | 80 |
| | | | | | | | 82 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

| DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.1 | Sheet 6 of 13 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -77.5 | 86.6 | | | | | -77.5 | |
| | | | | | | -83.9 | |
| | | | | | | SP-SM; poorly graded sand with sand; Moisture=17% | |
| -85.9 | 97.0 | | SAND: light gray, well graded, fine to medium grained, subrounded (mostly) to angular, subequal proportions of quartz and calcite, some fine to coarse gravel as below. | | | | |
| -90.9 | 102.0 | | Gravelly SAND: light gray, well grained, fine to coarse grained, mostly fine to coarse, subrounded to angular and calcitic, some fine subrounded and quartzose, fine to coarse, angular to subangular gravel (shell and cemented aggregates of shell and sand). | | | | |
| | | | | | | -93.9 | |
| | | | | | | SP-SM, poorly graded sand with silt and gravel; Moisture=14% | |

90 92 94 96 98 100 102 104 106

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0286 |

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.1 | Sheet 7 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -95.9 | 107.0 | | | | | -95.9 | |
| -98.4 | 109.5 | | | | | | |
| | | | Silty Gravelly SAND: light gray, well graded, fine to coarse grained, mostly fine to coarse, angular and calcitic, some uniform fine, subrounded and quartzose, fine to coarse, angular, platey gravel (shell). | | | -98.9<br>SM; silty sand with gravel; Moisture=20% | |
| -105.4 | 116.5 | | | | | | |
| | | | SAND: light gray, well graded, fine to coarse grained, angular to subrounded and calcitic, trace fine grained subrounded and quartzose, some fine to coarse angular gravel (shell and sand aggregates). | | | | |
| -108.9 | 120.0 | | | | | | |
| | | | Grades to Gravelly SAND (fine shell fragments). | | | | |
| -109.9 | 121.0 | | | | | | |
| | | | Grades to SAND: light brownish gray, some gravel (shell and aggregates), trace silt. | | | | |
| -111.9 | 123.0 | | | | | | |
| | | | Gravelly SAND: light gray, well graded, fine to coarse grained, subrounded to angular, calcitic, trace fine quartzose sand, trace silt, fine to coarse angular gravel (cemented aggregates of shell and sand). | | | -113.9 | |

108 110 112 114 116 118 120 122 124

(continued)

FORM 1835

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 8 of 13 Sheets

Project: EAA Reservoir A-1 | Installation:

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -114.3 | 125.4 | | | | | -114.3 | |
| | | | | | | SP-SM; poorly graded sand with silt and gravel; Moisture=17% | 126 |
| | | | | | | | 128 |
| | | | | | | | 130 |
| | | | | | | | 132 |
| | | | | | | | 134 |
| | | | | | | | 136 |
| -125.4 | 136.5 | | Gravelly SAND: poorly graded, subequal proportions of uniform fine subrounded quartzose and fine to coarse angular calcitic sand, mostly fine angular gravel (shells and aggregates of shells and sand). | | | | 138 |
| | | | | | | -128.9 | 140 |
| -129.4 | 140.5 | | Gravelly SAND: light gray, well graded, fine to coarse grained, subrounded to angular, calcitic; trace fine uniform subrounded quartz sand, fie to coarse angular gravel as above. | | | SP-SM; poorly graded sand with silt and gravel; Moisture=15% | 142 |

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE | PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 9 of 13 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -132.7 | 143.8 | | | | | -132.7 | |
| -137.4 | 148.5 | | SAND: pale brownish gray, mostly uniform, fine, subrounded quartzose, some fine to coarse angular and calcitic, some silt, trace fine angular gravel (shells). | | | | |
| -138.9 | 150.0 | | Gravelly SAND: like that from 140.5 to 148.5 | | | | |
| -145.9 | 157.0 | | Sandy GRAVEL: pale brownish gray, well graded, fine to coarse, angular sandy limestone (cemented aggregates of shell and sand), with sand like that from 148.5 to 150. | | | | |
| -148.9 | 160.0 | | Gravelly SAND and Sandy GRAVEL (unnamed sand formation): yellow gray, well graded fine sand to coarse gravel, fine, uniform, subrounded with some fine to coarse, angular, calcitic sand; fine sand cemented into aggregates | | | -148.9<br>SP-SM; poorly graded sand with silt and gravel; Moisture=20%; Unamed Sand | |

144 146 148 150 152 154 156 158 160 162

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-RB-0286 |

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 10 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -151.1 | 162.2 | | | | | -151.1 | |
| | | | with shells forming medium sand to gravel clasts, larger shell fragments with sand for coarse gravel, trace silt | | | Formation at 160 ft | |
| -161.9 | 173.0 | | | | | | |
| | | | SAND: yellow gray, uniform, fine grained, quartzose, trace fine to medium, angular, calcitic, some fine angular, platey calcitic gravel (shell), trace silt | | | -163.9 | |
| | | | | | | SM; silty sand with gravel; Moisture=18% | |
| | | | Grades to trace fine gravel and some | | | -168.9 | |

164 166 168 170 172 174 176 178 180

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 11 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -169.4 | 180.5 | | silt | | | -169.4 | |
| | | | | | | SM; silty sand; Moisture=21% | |
| | | | | | | | 182 |
| | | | | | | | 184 |
| | | | | | | | 186 |
| | | | | | | | 188 |
| | | | | | | | 190 |
| -179.9 | 191.0 | | SAND (Peace River Formation): pale olive gray, very fine grained, quartzose, some coarse non-plastic silt. | | | -179.9 | |
| | | | | | | Peace River Formation at 191 ft | 192 |
| | | | | | | | 194 |
| | | | | | | -183.9 | |
| | | | | | | SM; silty sand; Moisture=19% | 196 |
| | | | | | | | 198 |

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 12 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -187.8 | 198.9 | | | | | -187.8 | |
| | | | SAND as above but grades light olive gray. | | | | |
| | | | Grades olive gray, quartzose grades out. | | | | |
| | | | | | | -203.9 | |
| | | | | | | ML, Inorganic silts and very fine sand, Moisture=25% | |

200 202 204 206 208 210 212 214 216

(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-RB-0286

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.1 | Sheet 13 of 13 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -206.2 | 217.3 | | | | | -206.2 | |
| -208.9 | 220.0 | | | | | | |
| | | | End of Boring at 220'<br><br>Notes:<br>1. All calcitic material is at least in part shells and shell fragments.<br>2. The sonic drill drives aned vibrates a core barrel into the ground to obtain a sample. Hard well cemented materials are generally fractured by drilling and weakly cemented, granular materials tend to be dissaggregated. | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93. | |

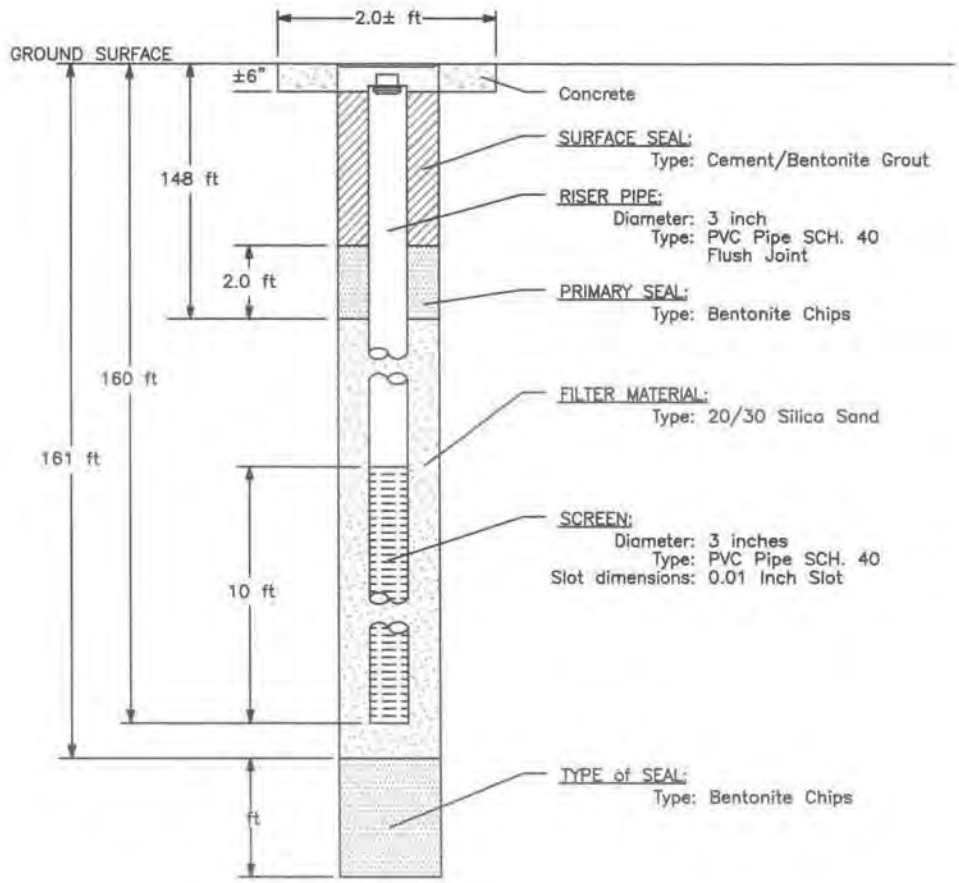
218 220 222 224 226 228 230 232 234

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-RB-0286

Hole No. CP05-EAARS-TW-0286

| PIEZOMETER LOG | Division: | Installation: |
|---|---|---|
| 1. Project EAA Reservoir A-1 | | 8. Datum of Elevation Shown: NAD83 |
| 2. Location N 764359, E 768550 | | 9. Manufacture's Designation for Drill: SRO-109 |
| 3. Drilling Agency: Prosonic | | 10. Elevation Groundwater: |
| 4. Hole No. CP05-EAARS-TW-0286 | | 11. Date Hole: Started 8-2-05 Completed 8-2-05 |
| 5. Name of Driller: Fred Kruass | | 12. Elevation Top of Riser: ±10' |
| 6. Depth of Piezometer: 161 ft | | |
| 7. Size and type of bit: 6" bit, Rotary Method | | 13. Inspector: JP |

FLUSH MOUNT




BORING DIAMETER
DAIMETER: 5 in

INSTALLATION METHOD: The boring was advanced to the required depth. The piezometer screen and riser were lowered to the bottom of the hole, and the sand pack was tremied into the hole to about 1 foot above the top of the screen. About 2 feet of fine sand was tremied on top, and cement/bentonite grout was tremied in to fill the rest of the hole. The riser was cut off about 1.5± feet above the ground surface, and the protective casing suspended over the riser into the ground until it set.

NOTES: Typical 25 foot Piezometer Installation

Hole No. CP05-EAARS-CB-0287

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N783418.8, E760201 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0287 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/20/2005 Completed 7/20/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 31.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.3 | 0.0 | | | | | | |
| | | | PEAT: black, very loose, wet to dry, highly organic, limestone chips recovered on sample bottom | | | 8.3 | 3 |
| 7.3 | 1.0 | | | | 1 | 7.3 SPT | 50/3" |
| | | | LIMESTONE: brownish white to white, very hard, quite porous, shell fragments, dry | 36 (RQD 18%) | 1 | HQ coring; UCS=1105psi | |
| 2.3 | 6.0 | | | | | 2.3 | |
| | | | SAND: pale white, very dense, poorly graded, subangular calcitic sand, wet | | 2 | SPT | 7<br>21<br>33 |
| | | | | | | -0.2 | |
| | | | SAND: white, very loose, poorly graded, subrounded calcitic sand, wet, fine sand present, trace silt, shell pieces recovered | | 3 | SPT, quite silty | 2<br>1<br>1 |
| | | | | | | -5.2 | |
| | | | Same as above, but loose and less silty, no shells | | 4 | SPT | 4<br>5<br>4 |

(continued)

EAG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0287 |

Hole No. CP05-EAARS-CB-0287

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.3 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.7 | 15.0 | | | | | -6.7 | |
| | | | SAND: greenish grey, dense, poorly graded, angular, calcitic sand,wet, shell pieces recovered | | 5 | -10.2<br>SPT; Hard drilling from 17 to 18 ft | 16<br>19<br>16 |
| | | | SAND: light grey, medium dense, poor to moderate gradation, subangular calcitic sand, wet | | 6 | -15.2<br>SPT | 8<br>7<br>7 |
| | | | SAND: greenish grey, very dense, quite porous, shell fragments, cemented sand | 62 (RQD 52%) | 2 | -16.7<br>HQ coring; UCS=2400psi; Hard drilling at 25 ft; Casing: 0 to 25 ft | |
| | | | SAND: greenish grey, medium dense, poorly graded, angular calcitic sand, wet | | 7 | -21.7<br>SPT | 4<br>4<br>25 |
| -23.2 | 31.5 | | End of Boring at 31.5' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified.

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0287 |

Hole No. CP05-EAARS-CB-0287

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.3 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -25.1 | 33.4 | | | | | -25.1 | |
| | | | | | | in accordance with the ASTM Designation: D 2488-93.<br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

34
36
38
40
42
44
46
48
50

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0287 |

Hole No. CP05-EAARS-CB-0288

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N782018.1, E762205.5 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0288 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Travis Williams | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/19/2005 Completed 7/19/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 8 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 30 ft | | 19. Inspector: A.M. Noronha | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| | | | PEAT: black loose, clayey, mostly organic, dry to wet | | | 8.0 | 3 |
| 7.0 | 1.0 | | | | 1 | 7.0 SPT; Limestone chips recovered | 50/5" |
| | | | LIMESTONE: pale white, very hard, quite porous, dry | 52 (RQD 38%) | 1 | HQ coring; UCS=650psi | |
| 2.0 | 6.0 | | | | | 2.0 | |
| | | | SAND: light grey, medium dense, poorly graded, subangular calcitic sand, wet | | 2 | SPT | 10, 5, 6 |
| | | | | | | -0.5 | |
| | | | SAND: pale white, loosely dense, poor to moderate gradation, angular calcitic sand, wet | | 3 | SPT | 2, 3, 7 |
| -5.5 | 13.5 | | | | | -5.5 | |
| | | | Chips of limestone recovered | | 4 | SPT: spoon bouncing for a few blows. On drilling found no rock | 50/5" |
| -7.0 | 15.0 | | | | | | |

0 2 4 6 8 10 12 14

PROJECT: EAA Reservoir A-1

HOLE NUMBER: CP05-EAARS-CB-0288

Hole No. CP05-EAARS-CB-0288

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |
| | | | SAND: light grey, very dense, moderately graded, angular calcitic sand, wet, trace phosphate, more gravelly | | | so did not core this part | 16 18 |
| | | | | | | -10.5 | |
| | | | | | 5 | SPT | 24 42 40 20 22 |
| | | | | | | -15.5 | |
| | | | SAND: greenish grey, medium dense, poorly graded, subrounded calcitic sand, wet | | 6 | SPT | 10 9 15 24 26 28 |
| | | | | | | -20.5 | |
| | | | Same as above, but very dense cemented sand, shells present | | 7 | SPT | 35 50 |
| -22.0 | 30.0 | | | | | | 30 |
| | | | End of Boring at 30' | | | NOTES: 1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93 2. 140# hammer with 30" drop used on 2.5" sampler (1.38" I.D. x 2" O.D.) | 32 |

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0288

Hole No. CP05-EAARS-CB-0289

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N783462.3, E764334.1 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0289 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Travis Williams | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 7/21/2005 Completed 7/21/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 7.8 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 30 ft | | 19. Inspector: A.M. Noronha | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.8 | 0.0 | | | | | | |
| 7.3 | 0.5 | | PEAT: black, loose, mostly organic, dry | | | 7.8 7.3 | 8 |
| | | | LIMESTONE: brownish white to pale white, hard, quite porous, dry, shells, cemented sand recovered between the top brownish limestone and the bottom pale white limestone layers | 42 (RQD 6%) | 1 | SPT; few limestonw chips recovered; spoon bouncing HQ coring | 50/2" |
| 2.3 | 5.5 | | | | | 2.3 | |
| 1.8 | 6.0 | | SAND: light grey, very dense, poorly graded subangular calcareous sand, wet | | | 1.8 | 50/5" |
| | | | LIMESTONE: white, very hard, quite porous, dry | 38 (RQD 26%) | 2 | HQ coring; 5 ft casing; spoon bouncing; couple of limestone chips recovered | |
| -2.7 | 10.5 | | | | | -2.7 | |
| | | | SAND: white, medium dense, poorly graded, subangular calcitic sand, wet | | 3 | SPT | 42 3 8 |
| -5.7 | 13.5 | | | | | -5.7 | |
| | | | SAND: greenish grey, very dense, poorly graded, subangular calcitic sand, wet, quite gravelly | | 4 | SPT | 40 50/3" |
| -7.2 | 15.0 | | | | | -7.2 | |

(continued)

ENG FORM 1836 PROJECT EAA Reservoir A-1 HOLE NUMBER CP05-EAARS-CB-0289

Hole No. CP05-EAARS-CB-0289

DRILLING LOG (Cont. Sheet) | Elevation Top of Hole 7.8 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.2 | 15.0 | | | | | -7.2 | |
| | | | Nothing recovered (core run) | 0 (RQD 0%) | 3 | HQ coring | |
| -12.2 | 20.0 | | | | | -12.2 | |
| -12.7 | 20.5 | | One stone chip recovered and other smaller pieces of stone | | | -12.7 | 50/3" |
| | | | Cemented SAND: greenish grey, dense, porous, shells | 14 (RQD 8%) | 4 | SPT: spoon bouncing<br>HQ coring; some kind of cemented shells recovered | |
| | | | | | | -17.7 | |
| | | | SAND: greenish grey, medium dense, poorly graded, subangular calcareous sand, wet | | 6 | SPT; quite gravelly | |
| -22.2 | 30.0 | | SAND: light grey, medium dense, poorly graded, subangular calcitic sand, wet, trace silt | | | | |
| | | | End of Boring at 30' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 | PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0289

Hole No. CP05-EAARS-CB-0290

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N782438.7, E768971.5 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0290 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/10/2005 Completed 8/10/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.5 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 40.5 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.5 | 0.0 | | PEAT: brownish black, loose, fine grained, moist, organic with angular limestone gravel | | 1 | 10.5 SPT; All calcitic material noted below is at least partly shell fragments; Fill to 3.2 ft; Hit something questionable at 4 ft; moved the hole approx 2 ft east | 5, 3, 4 |
| | | | | | 2 | 9.0 | 5, 4, 3 |
| 7.5 | 3.0 | | LIMESTONE: chips recovered, caprock, tan to light brown, thinly bedded, fine to coarse grained, fossiliferous, vuggy, moderately hard, moderately strong to weak and porous | | 3 | 7.5 SPT; Spun in 10 ft of 4" casing; 6.5 SPT | 50/5" |
| | | | | 60 (RQD 24%) | 1 | HQ coring | |
| | | | | 54 (RQD 24%) | 2 | 1.5 1.3 SPT; HQ coring; UCS=874psi | 50/2" |
| -1.0 | 11.5 | | SAND: pale brown, medium dense, well graded, fine to medium grained, moist, angular, calcitic with some gravel | | 5 | -3.5 SPT | 7, 10 |

(continued)

ENG FORM 1836 PROJECT EAA Reservoir A-1 HOLE NUMBER CP05-EAARS-CB-0290

Hole No. CP05-EAARS-CB-0290

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.5 | 15.0 | | | | | -4.5 | |
| | | | SAND: pale brownish grey, dense, well graded, fine to coarse grained, wet, angular, calcitic, some fine gravel, trace silt | | 6 | -8.0<br>SPT | 19<br>24<br>21<br>18 |
| -13.0 | 23.5 | | | | | -13.0 | |
| | | | Gravel: pale brownish grey, wet, very dense, well graded, fine grained, angular, cemented calcitic sand and shell fragments | 0 (RQD 0%) | 3 | -13.5<br>SPT<br>HQ coring; UCS=2215psi; Ran casing to 23.5 ft | 50/6" |
| -18.0 | 28.5 | | | | | -18.0 | |
| | | | SAND: pale brownish grey, wet, dense, well graded, fine to coarse, angular, calcitic, some gravel as above, trace silt and very fine quartz sand | | 8 | SPT | 13<br>26<br>17 |

16 18 20 22 24 26 28 30 32

(continued)

EBG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0290

Hole No. CP05-EAARS-CB-0290

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.9 | 33.4 | | | | | -22.9 | |
| -23.0 | 33.5 | | Sandy GRAVEL: pale brownish grey, wet, very dense, well graded, fine grained, angular, limestone, with sand as above | 28 (RQD 14%) | 4 | -23.0<br>-23.5<br>SPT; Ran in casing to 34.5 ft<br>HQ coring; Soft from 34 to 36 ft; then hard | 43<br>50/1" |
| -25.5 | 36.0 | | LIMESTONE: tan to browinsh grey and light brown, fine to coarse grained, thinly bedded, fossiliferous, vuggy, moderately hard and moderately strong, ranges from wackestone to porous grainstone (coquina) | | | | |
| -28.5 | 39.0 | | SAND: pale brownish grey, wet, loose, well graded, fine to coarse grained, angular, calcitic | | 10 | -28.5<br>SPT | 3<br>4<br>4 |
| -30.0 | 40.5 | | | | | | |

End of Boring at 40.5'

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0290 |

Hole No. CP05-EAARS-CB-0291

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N780906.2, E770045.4 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0291 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/11/2005 Completed 8/12/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.6 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 42.5 ft | | 19. Inspector: C. Brown | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.6 | 0.0 | | | | | | |
| | | | Silt, organic, black, soft, moist | | 1 | 10.6 SPT 9.1 | 3, 2, 2 |
| | | | Same as above with Limestone cobble | | 2 | SPT 7.6 | 4, 4, 4 |
| | | | Silt, organic, black, firm, wet | | 3 | SPT 6.1 | 3, 3, 3 |
| 5.1 | 5.5 | | | | 4 | SPT | 1, 23 |
| 4.6 | 6.0 | | SAND: gravelly, silty, dense, fine to coarse subangular, wet | | | 4.6 | 14 |
| | | | LIMESTONE: grey, hard, fractured, fossiliferous, fine grained | 60 (RQD 9%) | 1 | HQ coring 2.6 | |
| | | | LIMESTONE: light grey, moderately hard, sandy, fine grained, subrounded, fossiliferous, grades more sandy | | | Approximately 80% drill fluid loss at 8 ft; set casing to 8.5 ft | |
| -0.4 | 11.0 | | | | | -0.4 | |
| | | | SAND: silty with inter-bedded Limestone, dense, fine to coarse, fossiliferous, poorly cemented - V. poor recovery | 5 (RQD 0%) | 2 | HQ coring | |

0 2 4 6 8 10 12 14

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0291 |

Hole No. CP05-EAARS-CB-0291

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.4 | 15.0 | | | | | -4.4 | |
| | | | SAND: clayey, silty, light grey to tan, medium dense, wet, gravelly, fine to coarse, subrounded, calcareous, macrofossil (Mollushin) - Marl | | 5 | -5.4<br>SPT | 3<br>25<br>3 |
| | | | Same as above, dense | | 6 | -7.9<br>SPT | 19<br>26<br>13 |
| -11.9 | 22.5 | | Refusal - Limestone, dark grey to tan, very hard, sandy, silicious, brittle, quartz sand, fine grain, minor fossils | | | -12.9 | |
| -13.9 | 24.5 | | LIMESTONE, dark grey, hard, fine to crystalline, silicious, fossiliferous, interbedded cobbles (23.5 ft to 24.5 ft) | | | -13.0 | 50/1" |
| | | | No core recover at 24.5' - 28.5' | 15 (RQD 0%) | 3 | SPT<br>HQ coring; Advanced casing to 23.5 ft | |
| -17.9 | 28.5 | | | | | -17.9 | |
| | | | SAND, gravelly clayey, light grey, medium dense, wet, calcareous, fine to coarse, subrounded, fossiliferous, marl | | 8 | SPT | 20<br>14<br>11 |

(CONTINUED)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0291 |

Hole No. CP05-EAARS-CB-0291

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.8 | 33.4 | | | | | -22.8 | |
| | | | SAND: gravelly, silty, light grey, very dense, wet, fine to coarse, subangular, calcareous with fine shell fragments - Marl (advanced casing to 34) | | 9 | -22.9 SPT; Advanced casing to 34 ft | 37, 22, 50/4" |
| -25.4 | 36.0 | | | | | -25.4 | |
| | | | LIMESTONE: grey, hard, sandy, fine to medium, subangular, fossiliferous | 65 (RQD 17%) | 4 | HQ coring | |
| -29.4 | 40.0 | | LIMESTONE: grey to dark grey, moderately hard, coquindid, highly fossiliferous, high secondary porosity | | | -29.4 | |
| | | | SAND: grey to tan, dense, fine to coarse, subrounded, silicious (quartz) with minor shell fragments | | | -30.4 | |
| | | | | | 10 | SPT | 29, 26, 22 |
| -31.9 | 42.5 | | | | | | |
| | | | End of Boring at 42.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0291 |

Hole No. CP05-EAARS-CB-0292

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N779232.1, E771249.9 – NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: CME-55 | |
| 4. Hole No: CP05-EAARS-CB-0292 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/11/2005 Completed 8/12/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 12.1 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 42.5 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.1 | 0.0 | | Gravelly SAND and PEAT: tan, dry, fill, loose, well graded, fine to coarse, with angular limestone, gravel and some peat, grading to Sandy GRAVEL | | 1 | 12.1 SPT; Automati hammer; All calcitic material is at least in part shell fragments 10.1 | 9, 6, 7 |
| | | | | | 2 | SPT 8.1 | 3, 3, 1 |
| | | | | | 3 | SPT 6.1 | 50/3" |
| | | | Grades wet | | | | |
| 5.6 | 6.5 | | LIMESTONE: tan to light brownish grey, fine to coarse grained, fossiliferous, vuggy, hard and strong to soft, weak and porous | | 4 | 5.1 SPT | 12, 50/4" |
| | | | | 56 (RQD 19%) | 1 | HQ coring; Spun 4" casing to 7 ft | |
| 2.1 | 10.0 | | Last two feet of coring is soft | | | 0.1 | |
| 0.1 | 12.0 | | Gravelly SAND: pale brownish grey, medium dense, moist, well graded, medium to coarse grained, angular calcitic | | 5 | SPT; Spun casing to 12 ft -1.9 | 3, 2, 8 |
| -1.9 | 14.0 | | GRAVEL: pale brownish grey, medium dense, well graded, fine grained, wet angular, calcitic | | 6 | SPT; Hard drilling (continued) | 30, 11 |

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0292

Hole No. CP05-EAARS-CB-0292

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.1 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.9 | 15.0 | | | | | -2.9 | |
| | | | | | | 13.5 to 14 ft | 7<br>16<br>18 |
| -6.9 | 19.0 | | | | | -6.9 | |
| | | | Gravelly SAND: pale brownish grey, very dense, well graded, fine to coarse grained, angular, calcitic, with gravel as above and a trace silt | | 7 | SPT | 7<br>50/5"<br>20<br>22 |
| -11.9 | 24.0 | | | | | -11.9 | |
| | | | Silty SAND: pale greenish grey, loose, wet, well graded, fine to medium grained, angular, calcitic, trace fine, angular gravel (shell fragments) | | 8 | SPT | 24<br>4<br>4<br>3<br>26<br>28 |
| -16.9 | 29.0 | | | | | -16.9 | |
| | | | SAND: pale brownish grey, loose, wet, well graded, fine to coarse grained, angular, calcitic, trace very fine quartz sand and silt | | 9 | SPT | 4<br>3<br>4<br>30<br>32 |

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0292

Hole No. CP05-EAARS-CB-0292

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.1 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.3 | 33.4 | | | | | -21.3 | |
| -21.9 | 34.0 | | | | | -21.9 | |
| | | | Silty SAND: pale greenish grey, loose, wet, well graded, fine to coarse grained, angular, calcitic | | 10 | SPT | 5, 3, 4 |
| -26.9 | 39.0 | | | | | -26.9 | |
| | | | GRAVEL: pale brownish grey, very dense, wet, well graded, fine grained, angular, calcitic | | 11 | SPT | 50/1" |
| -28.9 | 41.0 | | | | | -28.9 | |
| | | | SAND: pale greenish grey, very dense, wet, uniform, fine grained, subrounded, quartzose with some fine to coarse, angular, calcitic sand, trace fine gravel | | 12 | SPT, Caloosahatchee Formation | 32, 23, 28 |
| -30.4 | 42.5 | | | | | | |
| | | | End of Boring at 42.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0292

Hole No. CP05-EAARS-CB-0293

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N777644.3, E772351.9 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: CME-55 | |
| 4. Hole No: CP05-EAARS-CB-0293 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/10/2005 Completed 8/11/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11.7 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 42 ft | | 19. Inspector: C. Brown | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.7 | 0.0 | | | | | | |
| | | | SILT: organics, black, firm, moist | | 1 | 11.7 SPT 9.7 | 2, 3, 3 |
| | | | SILT: organics, black, firm, moist with interbedded limestone gravel | | 2 | SPT 7.7 | 5, 2, 3 |
| 7.2 | 4.5 | | | | 3 | SPT 5.7 | 2, 8, 13 |
| | | | Refusal - SAND: gravelly, silty, very dense, fine to coarse, subangular, wet | | | | |
| 6.2 | 5.5 | | | | | | |
| | | | LIMESTONE: light grey, hard, sandy, fine, subangular<br>LIMESTONE: grey to light brown, hard, sandy, fine, subangular fractured fossiliferous, silicious seams | 80 (RQD 35%) | 1 | HQ coring; Set casing to 6 ft 3.2 | |
| | | | LIMESTONE: grey to light brown, moderately hard to soft, sandy, fine to medium, subangular to subrounded, poorly cemented, fossiliferous, porous | 92 (RQD 55%) | 2 | HQ coring -1.8 | |
| | | | LIMESTONE: light grey, hard, sandy, fine, subangular | 30 (RQD 10%) | 3 | HQ coring | |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0293 |

Hole No. CP05-EAARS-CB-0293

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.3 | 15.0 | | | | | -3.3 | |
| -4.8 | 16.5 | | LIMESTONE: light grey, hard, sandy, fine to medium , subangular to subrounded, vertical seam 16.5 ft to 17 ft | | | | 16 |
| | | | SAND: gravelly, clayey, light grey, very loose, calcareous, wet, fine to coarse, subrounded, fossiliferous, with moderate shell fragments (Marl) | | 4 | -5.8 SPT | 1, 1, 2 — 18; 20; 22 |
| | | | Same as above, loose with fine black heavy minerals | | 5 | -12.3 SPT | 4, 3, 4 — 24; 26; 28 |
| | | | Same as above | | 6 | -17.3 SPT | 5, 5, 5 — 30; 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0293

Hole No. CP05-EAARS-CB-0293

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.7 | 33.4 | | | | | -21.7 | |
| | | | SAND: clayey, grey, medium dense, fine to medium, subrounded, calcareous and fine quartz sand | | | -22.3 | 5 |
| | | | SAND: grey to dark grey, medium dense, fine, cemented, subrounded, (fine grain heavy minerals) | | 7 | SPT; Set casing to 36 ft | 6<br>18 |
| -25.3 | 37.0 | | | | | -25.3 | |
| | | | LIMESTONE: grey to tan, moderately hard, sandy, fine to medium, subangular, fossiliferous, cemented shell | 92 (RQD 47%) | 4 | HQ coring; UCS=1053psi | |
| | | | LIMESTONE: grey to dark grey, soft, highly fossiliferous, high secondary porosity, moldic | | | -29.3 | |
| -30.3 | 42.0 | | LIMESTONE: grey, hard, fine grain, vuggy, infilled with cemented sand, quartz, fine grain | | | 100% drill fluid loss at 41 ft | |
| | | | End of Boring at 42' | | | | |

34 36 38 40 42 44 46 48 50

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0293 |

Hole No. CP05-EAARS-CB-0294

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N776017.5, E773486.8 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0294 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Ralph Smith | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/10/2005 Completed 8/10/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11.2 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 40 ft | | 19. Inspector: A.M. Noronha | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.2 | 0.0 | | | | | | |
| | | | PEAT: black, medium dense, poorly graded, fine grain, dry, mostly organic | | 1 | 11.2 SPT | 4, 6, 20 |
| | | | Same as above - one limestone chip recovered, except dense | | 2 | 9.7 SPT | 12, 18, 22 |
| 7.5 | 3.8 | | Top part Peat. Bottom part of sample gravelly coarse sand, subangular, poorly graded, dry, light grey | | 3 | 8.2 SPT | 3, 2, 1 |
| | | | Bottom part of sample gravelly coarse sand, subangular, poorly graded, dry, light grey. Few pieces of limestone recovered | | 4 | 6.7 SPT, spoon bouncing | 1, 3, 50/5" |
| 5.7 | 5.5 | | | 54 (RQD 8%) | 1 | 5.2 HQ coring | |
| 0.2 | 11.0 | | LIMESTONE: pale white, hard fine gained, quite porous, shell present | | | 0.2 | |
| | | | SAND: greenish grey, very dense, moderately graded, fine to coarse grained, subangular, calcitic sand, wet, platty limestone flakes recovered, cemented sand | | 5 | -1.3 SPT: Around 6" of hard layer of cemented sand | 33, 40, 50/4" |
| | | | SAND: pale white, medium dense, poorly graded, fine grained, wet, small chips of limestone recovered | | 6 | SPT | 3, 8, 7 |

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0294 |

Hole No. CP05-EAARS-CB-0294

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.2 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.8 | 15.0 | | | | | -3.8 | |
| -7.3 | 18.5 | | Silty SAND: greenish grey, very dense, poorly graded, fine to coarse grained, subangular calcitic sand, wet | | 7 | SPT; Top portion of sample was quite gravelly | 11, 50, 18 |
| | | | | | | -11.3 | |
| -12.3 | 23.5 | | SAND: light grey, medium dense, moderately graded, fine to coarse grained, subangular calcitic sand, subrounded quartz, wet | | 8 | -12.3 Caloosahatchee Formation; SPT | 4, 7, 7 |
| | | | | | | -17.3 | |
| | | | SAND: greenish grey, medium dense, moderately graded, fine to medium grained, angular calcitic sand, wet | | 9 | SPT | 10, 16, 14 |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0294

Hole No. CP05-EAARS-CB-0294

DRILLING LOG (Cont Sheet) | Elevation Top of Hole: 11.2 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.2 | 33.4 | | | | | -22.2 | |
| | | | SAND: light grey, medium dense, moderately graded, fine to coarse grained, subangular calcitic sand, rounded quartz, wet | | 10 | -22.3<br>SPT | 13<br>10<br>8 |
| | | | | | | -27.3 | |
| | | | SAND: light grey to light brown, very dense, moderately graded, subangular calcitic sand, rounded quartz, wet | | 11 | SPT | 43<br>40<br>49 |
| -28.8 | 40.0 | | | | | | |
| | | | End of Boring at 40' | | | | |

NOTES
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0294

Hole No. CP05-EAARS-CB-0295

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N774364.1, E774663.4 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc | | 12. Manufacturer's Designation for Drill: CME-55 | |
| 4. Hole No: CP05-EAARS-CB-0295 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/9/2005 Completed 8/9/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11.2 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 30.5 ft | | 19. Inspector: C. Brown | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.2 | 0.0 | | | | | | |
| | | | Silt, organics, black, firm, moist | | | 11.2 | 3 |
| | | | | | 1 | SPT, Automatic hammer | 3 |
| | | | | | | | 3 |
| | | | | | | 9.2 | |
| | | | Silt, organics, black, soft, moist, with interbedded limestone gravel | | | | 1 |
| | | | | | 2 | SPT | 2 |
| | | | | | | | 2 |
| | | | | | | 6.7 | |
| | | | | | | | 1 |
| 5.7 | 5.5 | | | | 3 | SPT | 10 |
| 5.2 | 6.0 | | Refusal - SAND, gravelly, silty, very dense, fine to coarse, subangular, wet | | | 5.2 | 50/3" |
| | | | LIMESTONE: light grey, hard, fine to crystalline, slightly silicious, vertical seams at 7.5 ft | 80 (RQD 40%) | 1 | HQ coring; Set casing to 6 ft | |
| | | | | | | 3.2 | |
| 2.7 | 8.5 | | | | | | |
| | | | LIMESTONE: grey, soft, sandy, fine to coarse, subangular to subrounded, fossiliferous, grades softer, and poorly cemented with depth | | | Approx 25% drill fluid loss at 8 ft | |
| | | | | | | 0.2 | |
| | | | | 60 (RQD 23%) | 2 | HQ coring | |
| -2.3 | 13.5 | | | | | | |
| | | | No recovery - sand or gravel lense | | | | |
| -3.3 | 14.5 | | | | | | |
| | | | LIMESTONE: light grey, moderately | | | | |

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0295 |

Hole No. CP05-EAARS-CB-0295

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.2 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.8 | 15.0 | | | | | -3.8 | |
| -4.3 | 15.5 | | hard, sandy, fine to coarse, subangular, fossiliferous (single vug at 15 ft | | | | |
| | | | | | | -4.8 | |
| | | | SAND, gravelly, clayey, light grey, very loose, calcareous, wet, fine to coarse, subrounded, fossiliferous with moderate shell fragments (marl) | | 4 | SPT | 2, 1, 1 |
| | | | | | | -7.8 | |
| | | | SAND, clayey, grey, gravelly, very dense, calcareous, wet, fine to coarse, subrounded, fossiliferous, with moderate shell fragments (marl) | | 5 | SPT | 27, 58, 21 |
| | | | | | | -12.8 | |
| | | | Same as above, loose | | 6 | SPT | 3, 3, 4 |
| | | | | | | -17.8 | |
| -19.3 | 30.5 | | SAND, clayey, gravelly, grey to light brown, medium dense, calcareous, wet, fine to coarse, subrounded, slightly fossiliferous, trace to minor fine quartz sand | | 7 | SPT | 4, 6, 12 |
| | | | End of Boring at 30.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 5/8" I.D.

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0295 |

Hole No. CP05-EAARS-CB-0295

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.2 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC. % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.2 | 33.4 | | | | | -22.2 | |
| | | | | | | x 2" O.D.) | |

34
36
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42
44
46
48
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ENG FORM 1836 PROVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0295 |

Hole No. CP05-EAARS-CB-0296

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N773015.7, E775589.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0296 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/28/2005 Completed 7/28/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5 |
|---|---|---|---|---|---|---|---|
| 11.3 | 0.0 | | | | | | |
| | | | PEAT: black, medium dense, poorly graded, fine grained, dry, mostly organic | | 1 | 11.3 SPT 9.8 | 3, 4, 7 |
| | | | Same as above, but wet | | 2 | SPT 8.3 | 4, 4, 8 |
| | | | Same as above | | 3 | SPT 6.8 | 9, 6, 13 |
| | | | Same as above | | 4 | SPT 5.3 | 4, 16, 7 |
| | | | Same as above and limestone chips recovered | | 5 | 4.3 SPT; casing 0 to 5 ft | 12, 50/4" |
| 4.5 | 6.8 | | LIMESTONE: white hard, fine grained, quite porous, shelly | 42 (RQD 8%) | 1 | HQ coring; core 7 to 12 ft 1.3 | |
| | | | | | | Casing: 5 to 10 ft -0.2 | |
| -0.2 | 11.5 | | SAND: light grey, dense, moderately graded, fine to coarse grained, subangular, wet | | 6 | -0.7 SPT, quite gravelly | 2, 6, 25 |

0 2 4 6 8 10 12 14

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0296 |

Hole No. CP05-EAARS-CB-0296

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.3 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.7 | 15.0 | | | | | -3.7 | |
| | | | SAND: greenish grey, medium dense, poorly graded, fine to medium grained, subangular, wet | | 7 | -7.2<br>SPT; top part of sample was silty and bottom part was gravelly | 20<br>14<br>5 |
| -12.2 | 23.5 | | SAND: light grey, medium dense, poorly graded, fine grained, subrounded calcitic sand, wet, silty, shells recovered | | 8 | -12.2<br>SPT | 3<br>6<br>10 |
| -17.2 | 28.5 | | SAND: greenish grey, dense, moderately graded, fine to medium, subangular, wet, gravelly | | 9 | -17.2<br>SPT | 12<br>13<br>22 |
| -18.7 | 30.0 | | End of Boring at 30' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation D 2488-93.
2. Hole hammer with 30" drop used on 2.5" spiltwoods in 3/8" I.D. x 3" O.D.

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0296

Hole No. CP05-EAARS-CB-0297

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N771853.3, E776111.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0297 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/9/2005 Completed 8/9/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: C. Brown |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.3 | 0.0 | | SAND: gravelly, silty, light grey, medium dense, fine to medium, subangular to sub rounded, moist | | 1 | 10.3 SPT; Automatic Hammer 8.3 | 16, 15, 2 |
| 7.8 | 2.5 | | Organic, dark brown, silty, fibrous, sandy, soft, wet | | 2 | SPT 6.3 | 2, 2, 1 |
| 6.3 | 4.0 | | Refusal - LIMESTONE, gravel, grey, hard, subangular LIMESTONE, grey, hard, fine to crystalline, fossiliferous | 80 (RQD 50%) | 1 | 5.8 SPT; Set casing to 4 ft HQ coring | 50 |
| | | | LIMESTONE, grey to light grey, very hard, fine to crystalline, silicious, fossiliferous | | | | |
| | | | LIMESTONE, grey, hard, sandy, fine to medium, subangular to subrounded, fossiliferous, grades softer | | | 0.8 | |
| -2.7 | 13.0 | | LIMESTONE, light brown, soft sandy, poorly cemented, fine to coarse, fossiliferous (macro fossils) LIMESTONE, light grey, hard, fine, subangular, highly fossiliferous | 66 (RQD 31%) | 2 | HQ coring -2.7 | |
| -4.2 | 14.5 | | No recovery - sandy | | | -4.2 | |
| | | | SAND, light grey, silty, slightly gravelly, | | | | 3 |

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0297 |

Hole No. CP05-EAARS-CB-0297

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.7 | 15.0 | | medium dense, wet, fine to coarse, subangular, fossiliferous - fine shell fragments | | 4 | -4.7 SPT | 7, 4 |
| | | | SAND, clayey silty, light grey, medium dense, wet, fine to coarse, subrounded, calcareous, fossiliferous (marl) - slightly gravelly | | 5 | -8.7 SPT | 7, 7, 9 |
| | | | SAND, clayey, gravelly, light brown, medium dense, calcareous, wet, fine to coarse, subrounded, slightly fossiliferous, trace fine quartz sand | | 6 | -13.7 SPT | 5, 27, 14 |
| -20.2 | 30.5 | | SAND, silty, slightly clayey, grey to light brown, medium dense, fine to medium, subrounded quartz (sand), minor fine heavy minerals (29.0 to 29.5 ft - LIMESTONE gravel lense) | | 7 | -18.7 SPT; 29 to 29.5 ft Limestone gravel lense | 95, 20, 4 |
| | | | End of Boring at 30.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 3488-83
2. 140# hammer, with 30" drop, used on 2.0 splitspoon (1.3/8" I.D.)

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0297 |

Hole No. CP05-EAARS-CB-0297

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.1 | 33.4 | | | | | -23.1 | |
| | | | | | | x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0297

Hole No. CP05-EAARS-CB-0298

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit. Rotary Method | |
| 2. Location: N769639.7, E777981 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: CME-55 | |
| 4. Hole No: CP05-EAARS-CB-0298 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/5/2005 Completed 8/8/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11.6 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 30.5 ft | | 19. Inspector: C. Brown | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.6 | 0.0 | | | | | | |
| | | | SAND, Silty, gravelly, dark brown to black, loose, moist, fine to coarse, subangular | | 1 | 11.6 SPT, Automatic hammer | 3, 3, 4 |
| | | | | | | 9.6 | |
| | | | SAND, gravelly, silty, grey, loose, wet, fine to coarse, subangular | | 2 | SPT | 4, 6, 4 |
| 7.6 | 4.0 | | | | | 7.6 | |
| | | | SAND, gravelly, grey, very dense, wet, fine to coarse, subangular to angular | | 3 | SPT | 13, 24, 50 |
| 6.1 | 5.5 | | | | | 6.1 | |
| | | | LIMESTONE: grey, hard, sandy, subangular, silicious | | | | |
| 5.1 | 6.5 | | | 100 (RQD 38%) | 1 | 5.1 HQ coring | |
| | | | CLAY, gravelly, sandy, dark grey, calcareous, fine to coarse, subrounded, fossiliferous (marl) | | | | |
| 4.1 | 7.5 | | | | | 4.1 | |
| | | | Refusal - LIMESTONE, grey to tan, gravelly, slightly sandy, wet, hard, angular, fine grain to crystalline, platy | | | 3.6 SPT, Advanced casing to 7.5 ft HQ coring | 50/3" |
| | | | | 74 (RQD 46%) | 2 | | |
| | | | LIMESTONE, grey to light brown, moderately hard, sandy, fine grain, fossiliferous, subangular with interbedded sand lense (9.5 to10.0 ft) | | | | |
| | | | | | | -1.4 | |
| | | | Same as above, vertical seams (14.5 to 15.0 ft) | 28 (RQD 18%) | 3 | HQ coring | |
| | | | | | | -2.9 | |
| -3.4 | 15.0 | | | | | | |

continued

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0298 |

Hole No. CP05-EAARS-CB-0298

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.4 | 15.0 | | | | | -3.4 | |
| | | | No recovery | | | Vertical seams 14.5 to 15 ft | 16 |
| -5.4 | 17.0 | | | | | -5.4 | |
| | | | SAND, grey, clayey, silty, slightly gravelly, medium dense, wet, fine to coarse, subrounded, calcareous (marl) | | 5 | SPT | 4, 13, 13 |
| | | | | | | | 18, 20, 22 |
| | | | | | | -12.4 | |
| | | | SAND, gravelly, silty, grey to brown, medium dense, wet, fine to coarse, subangular | | 6 | SPT | 4, 5, 17 |
| | | | | | | | 24, 26, 28 |
| | | | | | | -17.4 | |
| | | | Same as above | | 7 | SPT | 25, 11, 19 |
| -18.9 | 30.5 | | | | | | 30 |
| | | | End of Boring at 30.5' | | | | 32 |

NOTES:
1. Soils are field visually-classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D.

(continued)

ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0298 |

Hole No. CP05-EAARS-CB-0298

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.8 | 33.4 | | | | | -21.8 | |
| | | | | | | x 2" O.D.) | |

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ENG FORM 1836

PROJECT: EAA Reservoir A-1

HOLE NUMBER: CP05-EAARS-CB-0298

Hole No. CP05-EAARS-CB-0299

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit, Rotary Method | |
| 2. Location: N768147.7, E779025.3 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: CME-55 | |
| 4. Hole No: CP05-EAARS-CB-0299 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Robert DeAngelis | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/5/2005 Completed 8/5/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 11.6 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 30.5 ft | | 19. Inspector: C. Brown | |

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.6 | 0.0 | | | | | | |
| 11.1 | 0.5 | | Silty, organic, dark brown to black | | | 11.6 | 3 |
| | | | SAND, gravelly, slightly silty, grey, medium dense, fine to coarse, moist, subrounded with shell fragments | | 1 | SPT; Automatic hammer | 8<br>10 |
| | | | | | | 9.6 | |
| | | | same as above | | 2 | SPT | 7<br>7<br>6 |
| | | | | | | 7.6 | |
| | | | same as above, wet | | 3 | SPT | 4<br>15<br>12 |
| | | | | | | 5.6 | |
| | | | SAND, clayey, silty, gravelly, dark grey, very dense, fine to coarse, wet, subangular to angular | | 4 | SPT | 3<br>3<br>14 |
| 3.8 | 7.8 | | | | | 3.6 | |
| | | | LIMESTONE, light grey, moderately hard to soft, sandy, fine to coarse, subrounded to subangular, fossiliferous, (macro fossils), grades softer with depth | 62 (RQD 13%) | 1 | HQ coring. Top of rock at 7.8 ft; Set casing to 8 ft. | |
| -0.4 | 12.0 | | | | | -1.4 | |
| | | | Sandy, gravelly, silty, light grey, medium dense, wet, fine to coarse, subangular, calcareous | | 5 | SPT | 11<br>5<br>7 |

(continued)

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0299 |

Hole No. CP05-EAARS-CB-0299

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.4 | 15.0 | | | | | -3.4 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -7.4 | |
| | | | Sandy, gravelly, silty, grey, medium dense, wet, fine to coarse, subangular to subrounded, calcareous with minor fine quartz sand | | 6 | SPT | 10, 19, 10 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -12.4 | |
| | | | SAND, gravelly, silty, light grey, medium dense, wet, fine to coarse, subrounded, calcareous with moderate fine quartz sand, trace fine black heavy mineral | | 7 | SPT | 7, 9, 11 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -17.4 | |
| | | | SAND, slightly silty, grey, medium dense, wet, fine to medium, subrounded, silica (quartz) with abundant fine to medium shell fragments, moderate fine black heavy minerals | | 8 | SPT | 36, 5, 12 |
| -18.9 | 30.5 | | | | | | |
| | | | | | | | 30 |
| | | | End of Boring at 30.5' | | | | |
| | | | | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93
2. 140# hammer with 30" drop used on 2.0" splitspoon (1 3/8" I.D.)

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0299

Hole No. CP05-EAARS-CB-0299

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.8 | 33.4 | | | | | -21.8 | |
| | | | | | | x 2" O.D.) | |

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ENG FORM 1836

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0299 |

Hole No. CP05-EAARS-CB-0300

| DRILLING LOG | Division: | Installation: | Sheet 1 of 8 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: 3" bit. Rotary Method | |
| 2. Location: N766340.5, E780295.1 - NAD 1983 | | 11. Datum for Elevation Shown: NAVD 1988 | |
| 3. Drilling Agency: Nodarse & Associates, Inc. | | 12. Manufacturer's Designation for Drill: Diedrich D-50 | |
| 4. Hole No: CP05-EAARS-CB-0300 | | 13. Total Number of Overburden Samples Taken: N/A | |
| 5. Name of Driller: Erik Bluemke | | 14. Total Number of Core Boxes: 1 | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: Not measured | |
| | | 16. Date Hole Started 8/4/2005 Completed 8/4/2005 | |
| 7. Thickness of Burden: N/A | | 17. Elevation Top of Hole: 10.8 (ft) | |
| 8. Thickness of cap rock: N/A | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 100 ft | | 19. Inspector: N. Holst | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.8 | 0.0 | | | | | | |
| | | | PEAT: brownish black, loose, fine grained, dry, organic, with many roots | | 1 | 10.8 SPT, Fill 9.3 | 3, 3, 3 |
| | | | | | 2 | SPT 7.8 | 3, 3, 2 |
| | | | same as above, but wet | | 3 | SPT 6.3 | 3, 4, 4 |
| | | | | | 4 | SPT 4.8 | 7, 12, 50/3" |
| 5.1 | 5.8 | | | | | | |
| | | | LIMESTONE: caprock, tan, thinly bedded, fine to coarse grained, fossiliferous, vuggy, strong and hard to soft and weak and porous, locally stained light brown | 62 (RQD 24%) | 1 | HQ coring; Mudstone to grainstone | |
| 0.1 | 10.7 | | | | | -0.2 | |
| | | | SAND: pale brownish grey, loose, wet, well graded, fine to coarse, angular, calcitic, some silt | | 5 | SPT -2.7 | 7, 5, 2 |
| -2.7 | 13.5 | | | | | | |
| | | | Silty SAND: as above but more silt and trace fine gravel | | 6 | SPT | 4, 4, 2 |

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0300 |

Hole No. CP05-EAARS-CB-0300

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.8 | Sheet 2 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.2 | 15.0 | | | | | -4.2 | |
| | | | Silty SAND: as above | | | -7.7 | |
| | | | | | 7 | SPT | 33, 16, 9 |
| -12.7 | 23.5 | | | | | -12.7 | |
| | | | SAND: pale brownish grey, very dense, wet, well graded, fine to coarse grained, angular, calcitic, some silt, some fine gravel | | 8 | SPT | 10, 50/5" |
| | | | | | | -17.7 | |
| | | | SAND: as above but dense with some gravel and a trace silt | | 9 | SPT | 17, 32, 10 |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0300

Hole No. CP05-EAARS-CB-0300

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.8 | Sheet 3 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.6 | 33.4 | | | | | -22.6 | |
| -22.7 | 33.5 | | Silty SAND: light brownish grey, very dense, wet, well graded, fine to coarse, angular, calcitic | | 10 | -22.7<br>SPT; Hard drilling from 34 to 37.5 ft | 50/5" |
| -27.7 | 38.5 | | Gravelly SAND: pale brownish grey, medium dense, wet, mostly uniform, fine grained, subrounded and quartzose, with some fine to coarse, subangular and calcitic | | 11 | -27.7<br>SPT; Caloosahatchee Formation | 21<br>16<br>9 |
| -32.7 | 43.5 | | SAND: as above but dense and only a trace gravel | | 12 | -32.7<br>SPT | 13<br>18<br>20 |
| | | | SAND: as above but subequal portions fine subrounded, quartzose and fine to coarse, angular, calcitic sands, trace gravel | | 13 | -37.7<br>SPT | 15<br>15<br>18 |

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(continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0300

Hole No. CP05-EAARS-CB-0300

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.8 | Sheet 4 of 5 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -41.0 | 51.8 | | | | | -41.0 | |
| -42.7 | 53.5 | | | | | -42.7 | |
| -47.7 | 58.5 | | Sandy GRAVEL: pale brownish grey, very dense, wet, well graded, fine to coarse, angular, limestone gravel with mostly calcitic sand | | 14 | SPT | 14, 38, 16 |
| -52.7 | 63.5 | | SAND: pale brownish grey, medium dense, wet, mostly uniform, fine grained, subrounded and quartzose, trace calcitic sand | | 15 | SPT | 16, 15, 13 |
| -55.2 | 66.0 | | Only limestone fragments recovered, large one plugged end of spoon | | 16 | SPT | 12, 6, 6 |
| | | | SAND: pale greenish grey, medium dense, wet, uniform, fine, quartzose with a trace fine to coarse, angular, calcitic sand | | | -57.7 | |
| | | | | | 17 | SPT | 6, 7, 12 |

52 54 56 58 60 62 64 66 68 70

(continued)

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0300

Hole No. CP05-EAARS-CB-0300

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.8 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -59.4 | 70.2 | | | | | -59.4 | |
| -60.7 | 71.5 | | | | | -60.7 | |
| | | | Gravelly SAND: pale brownish grey, dense, wet, well graded, fine to coarse, angular, calcitic with limestone gravel and some fine quartz sand | | | Hard drilling from 71.5 to 73 ft | 72 |
| | | | | | | -62.7 | |
| | | | | | 18 | SPT | 34, 14, 29 |
| | | | | | | | 74, 76, 78 |
| -67.7 | 78.5 | | | | | -67.7 | |
| | | | Sandy GRAVEL: like that from 53.5 to 55 ft | | 19 | SPT | 25, 50 |
| | | | | | | | 80, 82 |
| -72.7 | 83.5 | | | | | -72.7 | |
| | | | Gravelly SAND: light grey, dense, wet, well graded, fine to coarse, mostly fine to coarse, angular, calcitic, some fine, subrounded quartzose, trace silt, limestone gravel | | 20 | SPT | 14, 14, 16 |
| | | | | | | | 84, 86, 88 |
| | | | | | | -77.7 | |

(Continued)

ENG FORM 1836

PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0300

# APPENDIX 2

# SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 301-320

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N764973.7, E781256.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0301 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/4/2005 Completed 8/4/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: C. Brown |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.7 | 0.0 | | | | | | |
| 11.2 | 0.5 | | Silty, organic, black | | | 11.7 | 7 |
| | | | SAND, gravelly, silty, grey, well graded, fine to coarse, loose, moist, subangular to angular | | 1 | SPT | 4 4 |
| | | | | | | 9.7 | |
| | | | Same as above, medium dense, wet | | 2 | SPT | 8 8 6 |
| | | | | | | 7.7 | |
| | | | Same as above | | 3 | SPT | 10 4 10 |
| | | | | | | 5.7 | |
| | | | Same as above, (limestone, green-grey, hard, fine grain at tip) | | 4 | SPT | 8 7 50/1" |
| 4.6 | 7.1 | | | | | 3.7 | |
| | | | LIMESTONE, grey to green, fine grain to crystalline, hard, minor porosity, fossiliferous, silicious | 95 (RQD 85%) | 1 | HQ coring; partial loss of drilling fluid circulation at 7 ft | |
| | | | LIMESTONE, grey, hard, fine grain, highly fossiliferous and porous in lenses, silicious, grades softer | | | | |
| | | | | | | -0.3 | |
| | | | LIMESTONE, grey to green, fine grain to crystalline, hard, fossiliferous, (maybe dolomitic) | 34 (RQD 10%) | 2 | HQ coring | |

(continued)

Hole No. CP05-EAARS-CB-0301

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.3 | 15.0 | | | | | -3.3 | |
| -5.3 | 17.0 | | LIMESTONE, light grey, moderately hard, sandy, fine to medium, slightly fossiliferous, porous in lenses, grades softer | | | -5.3 | 16 |
| -12.3 | 24.0 | | SAND, gravelly, silty to clayey, grey, medium dense, fine to coarse, calcareous with moderate macro fossils, subangular - wet | | 5 | SPT | 3, 5, 12 |
| -17.3 | 29.0 | | SAND, gravelly, slightly silty, grey, dense, wet, fine to coarse, subangular to subrounded, calcareous, with fine quartz sand, some shell fragments | | 6 | SPT | 5, 8, 13 |
| -18.8 | 30.5 | | SAND, gravelly, silty, clayey, light grey, medium dense, wet, fine to coarse, subangular to subrounded, calcareous, (marl) with fine shell fragments | | 7 | SPT | 15, 11, 5 |
| | | | End of Boring at 30.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0301 |

Hole No. CP05-EAARS-CB-0301

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.7 | 33.4 | | | | | -21.7 | |
| | | | | | | x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0301 |

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N763912, E781642 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0302 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/3/2005 Completed 8/3/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: C. Brown |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.5 | 0.0 | | | | | | |
| 12.0 | 0.5 | | Asphalt Pavement | | | 12.0 | |
| | | | SAND: gravelly, silty, grey, dense, well graded, dry, fine to coarse, angular to subangular (FILL) | | 1 | SPT; Automatic hammer | 24, 27, 24 |
| | | | Same as above, moist | | 2 | SPT | 14, 23, 25 |
| | | | Same as above - medium dense, wet | | 3 | SPT | 13, 16, 10 |
| 6.5 | 6.0 | | | | | 6.5 | |
| 6.0 | 6.5 | | Refusal cuttings | | | 6.5 | 50/1" |
| | | | LIMESTONE: grey to light tan, hard, brittle, fine grained to crystalline, silicious, fossiliferous, vertical seams | 46 (RQD 28%) | 1 | SPT<br>Set casing to 6 ft | |
| | | | | | | 1.5 | |
| | | | LIMESTONE: light grey, hard, brittle, crystalline to microcrystalline, silicious | 48 (RQD 25%) | 2 | HQ coring; 100% drill fuid loss at 9 ft; Advanced casing to 11 ft | |
| -2.5 | 15.0 | | LIMESTONE, grey to light tan, hard, fine grain to crystalline, fossiliferous, slightly silicious | | | | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0302

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.5 | 15.0 | | | | | -2.5 | |
| | | | SAND: gravelly, slighty silt, light grey, very loose, well-graded, fine to coarse, wet, calcareous, angular to subangular with shell fragments | | | -3.5 | |
| | | | | | 5 | SPT; Advanced casing to 16 ft | 5, 2, 1 |
| | | | SAND: gravelly, silty, slight clayey, grey, calcareous, medium dense, wet, subangular with abundant shell fragments | | | -6.5 | |
| | | | | | 6 | SPT | 5, 10, 10 |
| -11.5 | 24.0 | | | | | -11.5 | |
| | | | SAND: slight silty, light brown to grey, fine to coarse, dense, wet, carbonate, with some silica (Quartz sand), partial cemented, subrounded, trace of fine black heavy minerals | | 7 | SPT | 5, 6, 34 |
| -16.5 | 29.0 | | | | | -16.5 | |
| | | | SAND: silty, grey, fine to medium, dense, wet, subrounded, with trace of fine black heavy minerals | | 8 | SPT | 10, 18, 21 |
| -18.0 | 30.5 | | | | | | |
| | | | End of Boring at 30.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0302

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.9 | 33.4 | | | | | -20.9 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0303

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761607.6, E783513.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0303 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/3/2005 Completed 8/3/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: C. Brown |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.8 | 0.0 | | | | | | |
| | | | SAND: gravelly, silty, grey, medium dense, well graded, fine to course, day, angular, to subangular | | 1 | 11.8 SPT | 12, 14, 10 |
| | | | Same as above, moist - fill | | 2 | 9.8 SPT | 8, 11, 9 |
| | | | Refusal at 5', top of caprock | | 3 | 7.8 SPT | 6, 12 |
| 6.8 | 5.0 | | | | | 6.8 | |
| | | | LIMESTONE. gray, hard, fossiliferous, porous, fine grain | 85 (RQD 78%) | 1 | HQ coring; set casing to 5 ft | 50/0" |
| | | | LIMESTONE, grey, hard to very hard, silicious, fine to crystalline | | | | |
| | | | LIMESTONE, grey, hard to moderately hard, vuggy, sandy, fine to coarse, subangular, highly fossiliferous and vuggy in lenses | | | 1.8 | |
| | | | LIMESTONE, light grey, hard, sandy, fine to crystallne, subangular, slightly silicious | 65 (RQD 52%) | 2 | HQ coring; UCS=8389psi | |
| | | | LIMESTONE, grey, moderately hard, sandy, fossiliferous, porous, grades softer with depth with macro-fossils | | | -3.2 | |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0303 |

Hole No. CP05-EAARS-CB-0303

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.2 | 15.0 | | | | | -3.2 | |
| -4.7 | 16.5 | | LIMESTONE, grey to light grey, hard brittle, fine to crystalline, fossiliferous, silicious, vertical seams | 37 (RQD 28%) | 3 | HQ coring | 16 |
| -11.2 | 23.0 | | SAND: gravelly, silty, light grey, dense, wet, well graded, fine to coarse, subangular to angular, calcareous, abundant shell fragments interbedded calcareous clay lenses - Marl | | | -6.2 | 18 |
| | | | | | | -7.2 | |
| | | | | | 4 | SPT | 4, 31, 17 — 20, 22 |
| -18.7 | 30.5 | | SAND: silty, light grey, medium dense, wet, fine to medium, wet, subangular, with shell fragments and traces of black fine heavy minerals | | | -12.2 | 24 |
| | | | | | 5 | SPT | 3, 4, 8 — 26, 28 |
| | | | | | | -17.2 | |
| | | | Same as above, loose with tin lenses of grey to brown, limestone, fine grain, (HARD), silicious | | 6 | SPT | 10, 5, 3 — 30 |
| | | | End of Boring at 30.5' | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0303 |

Hole No. CP05-EAARS-CB-0303

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.6 | 33.4 | | | | | -21.6 | |
| | | | | | | x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE
MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0303 |

Hole No. CP05-EAARS-CB-0304

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758275.1, E785955.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0304 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/2/2005 Completed 8/2/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 34.5 ft | 19. Inspector: C. Brown |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.7 | 0.0 | | | | | | |
| | | | Silt, organic, black, moist | | 1 | 10.7 SPT; Automatic hammer 8.7 | 1, 1, 3 |
| | | | Same as above, firm, moist | | 2 | SPT 6.7 | 2, 3, 2 |
| | | | | | 3 | SPT 4.7 | 1, 2, 8 |
| 5.2 | 5.5 | | | | | | |
| 4.7 | 6.0 | | SAND: gravelly, light grey, fine to coarse, subangular, wet. silt, organic, black, wet | | | | |
| 4.2 | 6.5 | | SILT, organic, black, wet | | 4 | SPT 2.7 | 3, 26, 14 |
| | | | LIMESTONE: grey, gravel, weathered, hard, (Marl) fine to coarse, subangular, wet | | | | |
| | | | LIMESTONE: grey, hard, fine grain, silicious, slightly vuggy | 67 (RQD 24%) | 1 | HQ coring 1.2 | |
| | | | | 60 (RQD 43%) | 2 | HQ coring; UCS=3195psi | |
| | | | LIMESTONE, grey, moderately hard, sandy, fine to coarse grain, fossiliferous (shell fragments) with interbedded calcareous clay lenses | | | -3.8 | |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0304 |

Hole No. CP05-EAARS-CB-0304

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.3 | 15.0 | | | | | -4.3 | |
| | | | Same as above, softer at 17.5 | 36 (RQD 12%) | 3 | HQ coring; advanced casing to 14.5 ft | 16, 18 |
| | | | | | | -8.8 | |
| | | | LIMESTONE: grey, soft, sandy, fine to coarse grain, fossiliferous, porous | 15 (RQD 0%) | 4 | HQ coring | 20 |
| -10.3 | 21.0 | | | | | | |
| | | | SAND: gravelly, silty, light grey, loose, well graded, fine to coarse, wet, angular to subangular, calcareous, some shell fragments | | | | 22 |
| | | | | | | -12.8 | |
| | | | | | | -13.3 | |
| | | | | | 5 | SPT; approx 50% drill fluid loss | 1, 3, 2 |
| -17.3 | 28.0 | | | | | | 24, 26 |
| | | | SAND: silty, light grey, dense, fine to medium, subangular, with shell fragments, traces of heavy minerals | | | | 28 |
| | | | | | | -18.3 | |
| | | | | | 6 | SPT | 27, 30, 14 |
| | | | | | | | 30, 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-CB-0304

Hole No. CP05-EAARS-CB-0304

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.7 | 33.4 | | | | | -22.7 | |
| -23.8 | 34.5 | | Refusal - No Recovery | | | -23.3 | 50/0.5" |
| | | | | | 7 | SPT | |
| | | | End of Boring at 34.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-CB-0304

Hole No. CP05-EAARS-CB-0305

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N778651.2, E757998.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0305 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/16/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.7 | 0.0 | | | | | | |
| 8.4 | 0.3 | | Rock<br>First 4" rock, then 1.0 ft of peat followed by around 2.5' of limestone | 22 (RQD 0%) | 1 | 8.7<br>HQ coring; Bottom half of sample recovered had weathered limestone pieces | |
| 7.4 | 1.3 | | Peat | | | | |
| 4.9 | 3.8 | | LIMESTONE: pale white, hard, fine grained, quite porous, shells present | | | 3.7 | |
| 0.7 | 8.0 | | | 8 (RQD 0%) | 2 | HQ coring; Hard coring from 8 to 9 ft | |
| -0.3 | 9.0 | | LIMESTONE: brownish white, hard, fine grained, quite porous | | | | |
| -1.3 | 10.0 | | No recovery | | | | |
| | | | End of Boring at 10' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0305 |

Hole No. CP05-EAARS-CB-0306

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N755049.5, E788243.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0306 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/1/2005 Completed 8/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: C. Brown |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.5 | 0.0 | | | | | | |
| 12.3 | 0.3 | | SILT: organic, dark brown | | | 12.5 | 3 |
| | | | SAND: gravelly, silty, grey, medium dense, well graded, fine to coarse, subangular, subrounded, dry, trace shell fragments | | 1 | SPT; automatic hammer | 7 14 |
| | | | | | | 10.5 | |
| | | | SAND: gravelly, silty, grey, dense, well graded, fine to coarse, subangular, platy chert (cobble), moist | | 2 | SPT | 15 21 24 |
| | | | | | | 8.5 | |
| | | | SAND: gravelly, grey, loose, well graded, fine to coarse, subangular, moist, (Black organic silt at 5.5') | | 3 | SPT | 8 6 4 |
| 6.5 | 6.0 | | | | | 6.5 | |
| | | | LIMESTONE: grey to light tan, hard, fossiliferous, vuggy, fine grained | 98 (RQD 82%) | 1 | HQ coring | |
| | | | Same as above, grades Sandy, moderately hard with calcareous clay in lenses | | | 4.2 | |
| | | | | 93 (RQD 63%) | 2 | HQ coring; UCS=8080psi | |
| | | | LIMESTONE: light grey to brown, very fine grain to crystalline, fossiliferous, silicious | | | 1.5 | |
| | | | LIMESTONE: grey, very sandy, highly fossiliferous, poorly cemented, grades softer to calcareous Sandy Clay - Marl | 64 (RQD 27%) | 3 | HQ coring; Set casing to 11 ft | |
| | | | | | | -1.3 | |
| -2.5 | 15.0 | | | 39 | 4 | HQ coring | |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0306 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.5 | 15.0 | | | | | -2.5 | |
| -4.5 | 17.0 | | SAND: lense - No recovery | (RQD 28%) | | -4.5 | 16 |
| -10.5 | 23.0 | | SAND: gravelly, light grey, dense, well graded, wet, fine to coarse, angular to subangular, calcareous, trace to some shell fragments | | 4 | SPT -10.5 | 7, 26, 7, 18, 20, 22 |
| -16.5 | 29.0 | | SAND: silty, light grey, medium dense, fine to medium, wet, subrounded to subangular, calcareous, trace to some gravel | | 5 | SPT -16.5 | 12, 10, 11, 24, 26, 28 |
| -18.0 | 30.5 | | SAND: slighty silty, grey, medium dense, fine to medium, angular to subangular, silicious (quartzose) some shell fragments | | 6 | SPT | 4, 24, 18, 30 |
| | | | End of Boring at 30.5' | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0306 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.5 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.9 | 33.4 | | | | | -20.9 | |
| | | | | | | x 2" O.D.) | |

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| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753807.6, E789116.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0307 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/29/2005 Completed 7/29/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.8 | 0.0 | | | | | | |
| | | | PEAT, black, firm to stiff SILT | | 1 | 11.8 SPT 9.8 | 1, 2, 3 |
| | | | PEAT, black, firm SILT | | 2 | SPT 7.8 | 2, 2, 3 |
| | | | PEAT, black, soft to firm CLAY | | 3 | SPT 6.3 | 2, 2, 50/1" |
| 6.3 | 5.5 | | light creamy grey to grey mottled, medium bedded, moderately strong to strong, fine grained LIMESTONE with trace of shells and irregualr voids (coarse sand, fine gravel size) | 90 RQD 68%) | 1 | HQ coring; 3 pieces > 0.4 ft long | |
| | | | light creamy grey occasional yellowish brown mottled, medium bedded, strong fine grained LIMESTONE with trace fine to medium sized voids, shelly horizon at base | | | | |
| | | | Creamy grey to light grey, moderately strong to strong, fine grained LIMESTONE with laminations (silty) and shelly horizons | | | 1.3 | |
| | | | Creamy white, medium bedded moderately strong to strong fine grained shelly LIMESTONE | 78 (RQD 42%) | 2 | HQ coring; 3 pieces > 0.4 ft long | |
| | | | Creamy grey, medium bedded, moderately strong to strong fine grained LIMESTONE | | | | |
| | | | Creamy grey, soft to firm silts, sandy gravel, shelly fragments | | | | |
| | | | Creamy grey, medium bedded, moderately strong to strong, fine grained LIMESTONE with some fine | | | | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0307

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.2 | 15.0 | | | | | -3.2 | |
| -3.7 | 15.5 | | sand, occasionally coarse sand sized voids | | | -3.7 | |
| | | | Gravelly SAND: creamy grey, loose, fine to coarse, well graded, subangular with cemented (fine gravel size) sand and shells | | 4 | -4.2 SPT | 13, 2, 5 |
| -7.2 | 19.0 | | | | | -7.2 | |
| | | | Silty SAND: light grey, loose, fine to coarse, subangular, occasional gravel (fine size) of cemented sand | | 5 | SPT | 1, 2, 2 |
| | | | | | | -12.2 | |
| | | | Silty SAND: light greenish grey, loose, fine to coarse, subangular with fine gravel sized shell fragments | | 6 | SPT | 1, 3, 3 |
| -17.2 | 29.0 | | | | | -17.2 | |
| | | | SAND: light brown, medium dense, fine to coarse, subangular, mostly shells | | 7 | SPT | 11, 8, 9 |
| -18.7 | 30.5 | | | | | | |
| | | | End of Boring at 30.5' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.6 | 33.4 | | | | | -21.6 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0308

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N751544.6, E790701.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0308 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/28/2005 Completed 7/28/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.7 | 0.0 | | | | | | |
| | | | PEAT: black, sandy silt, firm, with subangular fine gravel. | | 1 | 11.7 SPT 9.7 | 2, 4, 4 |
| | | | Grades firm to stiff, gravel grades out. | | 2 | SPT 7.7 | 3, 4, 2 |
| 7.5 | 4.2 | | | | | | |
| | | | Gravelly SAND: Creamy gray, medium dense, well graded, fine to coarse, subangular, fine gravel size peices of limestone. | | 3 | SPT 5.7 | 5, 8, 30 |
| 5.7 | 6.0 | | | | | | |
| | | | LIMESTONE: light creamy gray with greenish gray mottling, moderately strong to strong, medium bedded, fine grained with trace shells and voids (coarse sand and fine gravel size). | 45 (RQD 30%) | 1 | 5.5 HQ coring; 2 pieces > 0.4 ft long 1.7 | 50/3" |
| | | | Grades to light creamy brown | | | 1.5 | 6 |
| | | | Grades to light creamy gray | 46 (RQD 8%) | 2 | HQ coring; 1 piece > 0.4 ft long -3.3 | 50/3" |

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(continued)

Hole No. CP05-EAARS-CB-0308

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.3 | 15.0 | | | | | -3.3 | |
| -4.8 | 16.5 | | Silty SAND: light gray to light greenish brown, fine to coarse, loose, subangular, trace gravel with shells. | | | -7.3 | |
| | | | | | 6 | SPT | 3, 1, 4 |
| | | | Gravel grades out, light greenish brown mottling grades out. | | | -12.3 | |
| | | | | | 7 | SPT | 4, 2, 2 |
| | | | Grades occasional subangular to subrounded fine gravel aggregates of hard cemented sand. | | | -17.3 | |
| -17.7 | 29.4 | | | | | | |
| -18.2 | 29.9 | | CLAY: gray brown, firm with some shell fragments. | | 8 | SPT | 11, 2, 11 |
| -18.8 | 30.5 | | Silty SAND with some gravel and shell fragments. | | | | |
| | | | End of Boring at 30.5' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0308

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.7 | 33.4 | | | | | -21.7 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0309

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750755, E790531.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0309 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/20/2005 Completed 7/20/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.3 | 0.0 | | | | | | |
| 9.8 | 1.5 | | Gravelly SAND: tan to light brown, dry, dense, well graded, road fill | | 1 | 11.3 SPT; Note: all calcitic material noted below is at least partly shell fragments 9.8 | 24, 16, 21 |
| 6.3 | 5.0 | | PEAT | | 2 | SPT 8.3 | 5, 2, 2 |
| | | | | | 3 | SPT 6.8 | 2, 2, 3 |
| | | | | | 4 | 6.3 SPT | 50/5" |
| 1.3 | 10.0 | | LIMESTONE: caprock, tan to light brown, fine grained, thinly bedded, fossiliferous, vuggy, hard and strong to soft, weak, porous | 58 (RQD 32%) | 1 | HQ coring; UCS=5200psi; 4" casing to 5 ft 1.3 | |
| 0.6 | 10.7 | | Gravelly SAND: pale brownish grey | | | | 32 |
| | | | LIMESTONE: tan, fine grained, thinly bedded, fossiliferous, vuggy to porous, moderately hard, moderately strong, high core loss is probably poorly cemented sand | | 5 | 0.3 SPT; hard drilling 10 to 11 ft; Spun in 5 more feet of casing | 50/2" |
| | | | | 22 (RQD 0%) | 2 | HQ coring | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0309

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.7 | 15.0 | | | | | -3.7 | |
| -4.7 | 16.0 | | | | | -4.7 | |
| | | | SAND: pale brownish grey, wet, loose, well graded, fine to coarse grained, angular,calcitic | | 6 | SPT | 10, 5, 2 |
| | | | | | | -7.2 | |
| | | | Trace silt and fine gravel at 18.5 ft and medium dense | | 7 | SPT | 14, 4, 8 |
| | | | | | | -12.2 | |
| | | | SAND: as above but pale greenish grey, loose, and trace fine, subrounded, quartzose sand | | 8 | SPT; Caloosahatchee Formation | 5, 5, 4 |
| -17.2 | 28 5 | | | | | -17.2 | |
| | | | Sandy GRAVEL: pale greenish grey, wet, dense, poorly graded, fine grained, angular, calcareous with sand as above | | 9 | SPT | 21, 18, 16 |
| -18.7 | 30.0 | | | | | | |
| | | | End of Boring at 30' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0309 |

Hole No. CP05-EAARS-CB-0310

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750243.3, E788786.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0310 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/20/2005 Completed 7/20/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.0 | 0.0 | | | | | | |
| | | | Gravelly SAND: tan, dry, dense, angular, well graded, fine to coarse grained, calcitic limestone gravel | | 1 | 10.0 SPT; All calcitic material noted below is at least partly shell fragments | 44, 24, 18 |
| | | | | | | 8.5 | 31 |
| | | | | | 2 | SPT | 15, 6 |
| 7.0 | 3.0 | | | | | 7.0 | |
| | | | Grades to Sandy GRAVEL at 3 ft | | 3 | SPT | 9, 9, 35 |
| 5.5 | 4.5 | | | | | 5.5 | |
| | | | LIMESTONE: caprock, tan to light brown, fine grained, thinly bedded, fossiliferous, vuggy, hard and strong to soft, weak, porous | 50 (RQD 0%) | 1 | 5.3 SPT HQ coring; Hard drilling from 0 to 4.5 ft; Spoon bouncing | 50/3" |
| | | | | | | 1.5 | |
| 0.5 | 9.5 | | | 100 (RQD 0%) | 2 | 0.5 HQ coring | |
| | | | SAND: pale grey, wet, very dense, well graded, fine to coarse grained, angular, calcitic, some limestone gravel, with limestone layers up to 0.7 ft thick | 20 (RQD 14%) | 3 | 0.0 SPT; Soft from 9.5 to 10 ft HQ coring; UCS=2710psi; Spun in 10 ft of 4" casing | 6, 50/1" |
| | | | | | | -5.0 | |

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.0 | 15.0 | | | | | -5.0 | |
| | | | | | 6 | SPT; Intermittent hard drilling | 6, 8, 4 |
| | | | | | | -8.5 | |
| | | | SAND: paly grey, wet, medium dense, well graded, fine to coarse grained, angular, calcitic, trace fine gravel, some silt, trace very fine, subrounded quartzose sand | | 7 | SPT | 10, 10, 8 |
| -13.5 | 23.5 | | | | | -13.5 | |
| | | | Gravelly SAND: light grey, wet, very dense, poorly graded, fine to coarse sandy limestone gravel with sand as above, but no quartzose sand and trace silt | | 8 | SPT; Intermittent hard drilling | 29, 18, 50/1" |
| | | | | | | -18.5 | |
| | | | Gravelly SAND: grades light brownish grey | | 9 | SPT | 26, 29, 47 |
| -20.0 | 30.0 | | | | | -20.0 | |
| | | | Sandy LIMESTONE: tan to medium, fine to coarse grained, thinly bedded,very vuggy, very fossiliferous, moderately hard and moderately strong to soft, weak and porous | 24 (RQD 56%) | | HQ coring; UCS=5920psi; Spun in 20 ft more casing | |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0310

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.4 | 33.4 | | | | | -23.4 | |
| -25.0 | 35.0 | | | | | | |
| | | | End of Boring at 35' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0310 |

Hole No. CP05-EAARS-CB-0311

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750237.4, E786933.7 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0311 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/22/2005 Completed 7/22/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.9 | 0.0 | | | | | | |
| | | | Sandy GRAVEL and Gravelly SAND: tan, gray and light brown, dry, well graded, fine to coarse, angular, calcitic with angular, fine to coarse limestone gravel, also cobbles and boulders | | 1 | 9.9 SPT; All calcitic material noted below is at least partly shell fragments; Road fill | 50/4" |
| | | | | | | 8.4 | 8 |
| | | | | | 2 | SPT; Hard drilling from 2.1 to 3.5 ft | 3 |
| | | | | | | 6.9 | 50/3" |
| | | | | | | 6.4 | 50/3" |
| | | | | | 3 | SPT | |
| | | | | 28 (RQD 0%) | 1 | HQ coring; Spoon bouncing | |
| 4.4 | 5.5 | | | | | | |
| | | | LIMESTONE: caprock, tan to light brown, fine grained, thinly bedded, fossiliferous, vuggy, hard and strong to soft, weak and porous | | | | |
| 1.4 | 8.5 | | | | | 1.4 | |
| | | | Sandy GRAVEL: as above Pale white, hard, fine grained, quite porous | | | | 18 |
| | | | | | 4 | 0.7 SPT | 50/3" |
| | | | | 14 (RQD 10%) | 2 | HQ coring; 4" casing to 8.5 ft; Hard at 5.7 ft; last 0.3 ft soft | |
| | | | | | | -3.6 | |
| -4.1 | 14.0 | | Fine Sandy Gravel. Casing set at 13.5 ' for Core Run #3 | | | -4.1 | 50/5" |
| | | | Fractured Limestone, tan, brown dolomite limestone to soft tan vuggy | | 5 | SPT | |
| -5.1 | 15.0 | | | 10 | 3 | HQ coring; 1st 0.5 to | |

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0311 |

Hole No. CP05-EAARS-CB-0311

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.1 | 15.0 | | | | | -5.1 | |
| | | | limestone<br>Light tan, fine sand/gravel with small cement shell/sand fragments | (RQD 0%) | | 1 foot cored slow, then faster; sandy returns | 16<br>18 |
| | | | | | | -8.6 | |
| | | | | | 6 | SPT | 5<br>5<br>10<br>20 |
| | | | 22' Small hard layers 4" - 6" | | | | 22 |
| -13.6 | 23 5 | | | | | -13.6 | |
| | | | 23.5' 50/0" Cemented sand/shell.<br>Casing set to 23.5' | 72 (RQD 18.4%) | 7<br>4 | -13.6<br>SPT<br>HQ coring | 50/0"<br>24<br>26 |
| -17.1 | 27 0 | | | | | | |
| | | | Very hard cemented sand/gravel and shells. Darker after 26' | | | | 28 |
| | | | | | | -18.6 | |
| | | | 50/0" Hard | | 8 | SPT | 50/0" |
| -20.1 | 30.0 | | | | | | 30 |
| | | | End of Boring at 30' | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0312

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750228, E785146.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0312 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/26/2005 Completed 7/26/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 36.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.4 | 0.0 | | | | | | |
| | | | Sandy GRAVEL: tan to light brown, dry dense to very dense, well graded, fine to coarse, limestone with well graded, angular fine to coarse, calcitic sand, cobbles and boulders | | 1 | 12.4 SPT; All calcitic material noted below is at least partly shell fragments; Road fill | 19, 37, 25, 23 |
| | | | | | 2 | 10.9 SPT; Grades to gravelly sand | 19, 19 |
| | | | | | 3 | 9.4 SPT; wet at 3 ft; Peat at bottom of SPT 3 | 22, 26, 4 |
| 7.9 | 4.5 | | | | | 7.9 | |
| | | | LIMESTONE: caprock, tan to light brown, thinly bedded, fine grained, fossiliferous, vuggy, hard and strong to soft, weak and porous | 38 (RQD 0%) | 1 | HQ coring; cased to 4.5 ft | |
| | | | | | | 3.9 | |
| | | | | 8 (RQD 0%) | 2 | 3.9 SPT HQ coring; ran casing to 8.5 ft | 50/0" |
| 0.9 | 11.5 | | | | | 0.9 | |
| | | | Sandy GRAVEL: as above (0 to 5 ft) but pale brownish grey, wet, poorly graded, fine to coarse grained, angular limestone with fine to coarse, angular, calcitic sand | | | soft drilling at 11.5 ft | |
| | | | | | | -1.1 | |
| | | | | | 5 | SPT; Intermittent hard drilling to 18.5 ft; then soft drilling to | 1, 28, 50/5" |

(continued)

Hole No. CP05-EAARS-CB-0312

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.6 | 15.0 | | | | | -2.6 | |
| -6.1 | 18.5 | | | | | 23.5 ft<br>-6.1 | 16<br>18 |
| -11.1 | 23.5 | | SAND: pale brownish grey, wet, well graded, fine to coarse grained, angular, calcitic, some silt, trace very fine, subrounded, quartz sand | | 6 | SPT<br>-11.1 | 5<br>3<br>3<br>20<br>22 |
| -19.1 | 31.5 | | LIMESTONE: tan to light brownish grey, thinly bedded, medium to coarse grained, fossiliferous, vuggy and porous, moderately strong to soft, weak and friable | 40 (RQD 0%) | 3 | -11.3<br>SPT<br>HQ coring; ran in casing to 28.5 ft<br>-16.1 | 50/2"<br>24<br>26<br>28 |
| | | | Solution voids infilled with younger material. Last 4 ft of Run 4 slow drilling. Grades sandy(quartz) with layers of coquina in th last (35) run. | 66 (RQD 14%) | 4 | HQ coring | 30<br>32 |

(continued)

Hole No. CP05-EAARS-CB-0312

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.0 | 33.4 | | | | | -21.0 | |
| -24.1 | 36.5 | | | 33 (RQD 0%) | 5 | -21.1<br>HQ coring; ran in casing to 33.5 ft; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |
| | | | End of Boring at 36.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0313

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750184.9, E782576 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0313 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/27/2005 Completed 7/27/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.5 | 0.0 | | | | | | |
| | | | Gravelly SAND: tan to light brown, wet, dense, angular, well graded, fine to coarse grained, calcitic with limestone gravel, cobbles and boulders at 1 ft. Circulation turned black briefly. | | | 11.5 | 10 |
| | | | | | 1 | 10.5 SPT; All calcitic material noted below is at least partly shell fragments; Road fill | 16 |
| | | | | | | | 50/3" |
| | | | | 26 (RQD 0%) | 1 | HQ coring; Ranges from wackestone to grainstone, some coquina; 4" casing to 5 ft | |
| 7.5 | 4.0 | | | | | | |
| | | | LIMESTONE: caprock, tan to light brown, fine to coarse grained, thinly bedded, fossiliferous, vuggy, strong and hard to soft, weak, and porous | | | | |
| | | | | | | 5.5 | |
| | | | | | | 5.5 | 50/0" |
| | | | | 24 (RQD 0%) | 2 | SPT HQ coring | |
| 2.5 | 9.0 | | | | | | |
| | | | Silty SAND: greyish white, wet, very dense, well graded, fine to coarse grained, angular, calcitic | | | 0.5 | |
| | | | | | 3 | SPT | 3 1 50/5" |
| -2.0 | 13.5 | | | | | -2.0 | |
| | | | Grades pale brownish grey with less (trace) silt SAND: as above but light brownish grey | | 4 | SPT; grades pale brownish grey with less (trace) silt | 3 27 8 |

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0313 |

Hole No. CP05-EAARS-CB-0313

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.5 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.5 | 15.0 | | | | | -3.5 | |
| | | | with some clay (plastic fines) | | | | 16 |
| | | | | | | -7.0 | 18 |
| | | | SAND: pale brownish grey, wet, very dense, well graded, fine to coarse grained, mostly angular and calcitic, trace very fine quartz sand, some silt, some fine gravel | | 5 | SPT; Intermittent hard drilling to 23.5 ft | 9<br>29<br>28 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -12.0 | 23.5 | | | | | -12.0 | |
| | | | Sandy LIMESTONE/Calcareous SAND: light to medium grey, fine to coarse grained, very vuggy, porous, fossiliferous, thinly to medium bedded, moderately hard and moderately strong | | 6 | SPT; Caloosahatchee Formation | 20<br>28<br>50/2" |
| | | | | | | -13.5 | 24 |
| | | | | 68 (RQD 52%) | 3 | HQ coring | |
| | | | | | | | 26 |
| | | | | | | | 28 |
| -18.5 | 30.0 | | | | | | |
| | | | | | | | 30 |
| | | | End of Boring at 30' | | | | |
| | | | | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0314

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750202.1, E781140 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0314 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/15/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.9 | 0.0 | | | | | | |
| | | | Gravelly SAND: light brownish grey, well graded, fine to coarse, angular, calcitic with limestone gravel, cobble and boulders | | 1 | 10.9 SPT; All calcitic material noted below is at least partly shell fragments; Bore hole on boulders, moved 3 ft; Fill | 38 |
| | | | | | | 9.4 | 18 |
| | | | | | 2 | SPT | 5 |
| | | | | | | 7.9 | 8 |
| | | | | | | | 5 |
| 6.9 | 4.0 | | | | 3 | 6.9 SPT | 20 |
| | | | LIMESTONE: caprock, tan to light brown, fine to coarse grained, thinly bedded, vuggy and fossiliferous, strong and hard to soft, weak and porous | 22 (RQD 0%) | 1 | HQ coring | 50/1" |
| | | | | | | 5.4 | |
| | | | | | | Lost all circulation at 5.5 ft | |
| | | | | | | 2.4 | |
| 1.4 | 9.5 | | | 12 (RQD 0%) | 2 | HQ coring; Installed 4" casing to 8.5 ft | |
| | | | SILT: pale greenish grey, stiff, moist, non-plastic, trace sand, some gravel | | | | |
| | | | | | | -2.6 | |
| | | | | | 4 | SPT; Advanced casing to 13.5 ft | 8 |
| | | | | | | | 6 |
| | | | | | | | 7 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0314

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.1 | 15.0 | | | | | -4.1 | |
| -7.6 | 18.5 | | | | | -7.6 | |
| -12.6 | 23.5 | | Sandy GRAVEL: pale greenish, very dense, wet, well graded, fine to coarse, angular, shell and limestone, with angular calcitic sand and a trace silt | | 5 | SPT; Hard drilling 19 to 23.5 ft | 23<br>35<br>30 |
| -14.1 | 25.0 | | Gravelly SAND: pale brownish grey, very dense, wet, well graded, fine to coarse, angular, calcitic with gravel as above | | 6 | SPT | 18<br>32<br>50/5" |
| -20.6 | 31.5 | | 25.0 to 31.5 ft, LIMESTONE: light brownish grey to medium grey, coarse grained, medium bedded, vuggy, porous, fossiliferous, moderately hard and moderately strong to soft, weak and friable, calcarenite grainstone, trace quartz sand | 60 (RQD 48%) | 3 | HQ coring; UCS=2979psi; Advanced casing to 25 ft; core for testing:25.5 to 26.1 ft, 26.1 to 27 ft and 27 to 27.8 ft<br>-19.1 | |
| | | | | 96 (RQD 64%) | 4 | HQ coring; UCS=4916psi; Core for testing:30.5 to 30.9 ft, 32.4 to 32.9 ft, 32.9 to 34.1 ft; Advanced casing to 30 ft<br>-20.6 | |
| | | | 31.5 to 35.0 ft, Sandy LIMESTONE: light brownish to medium grey, fine to coarse grained,thinly to medium bedded, fossiliferous, vuggy to porous, moderately strong and moderately hard to soft and weak, porosity in | | | Caloosahatchee Formation or Pinecrest Sand of | |

(continued)

Hole No. CP05-EAARS-CB-0314

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.5 | 33.4 | | | | | -22.5 | |
| -24.1 | 35.0 | | intergranular and moldic | | | Tamiami Formation at 31.5 ft | |
| | | | End of Boring at 35' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0314 |

Hole No. CP05-EAARS-CB-0315

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750186.2, E779486.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0315 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/23/2005 Completed 8/23/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.6 | 0.0 | | | | | | |
| 8.9 | 2.7 | | GRAVEL: light brown, dense, fine to coarse grained, dry, andgular to subangular, little fine to coarse sand, subangular, calcitic, little silt | | 1 | 11.6 SPT 10.1 | 23, 48, 16 |
| | | | | | 2 | SPT 8.6 | 8, 8, 5 |
| 8.1 | 3.5 | | PEAT: black, soft, moist, medium dense | | | | |
| 6.6 | 5.0 | | GRAVEL: brown to black, moist, fine to coarse grained, subangular, little fine to coarse sand, subangular, calcitic, little to some silt, trace organic | | 3 | SPT 6.6 | 2, 50/3" |
| 1.6 | 10.0 | | LIMESTONE: fine grained, hard, slightly vuggy, strong, fossiliferous, brown to grey, thin bedded<br>LIMESTONE: brown to grey brown, fine to coarse grained, weak to moderately strong, thinly bedded, vuggy | | 1 | HQ coring 1.6 | |
| | | | SAND: grey to white, fine to coarse grain, calcitic, some fine gravel, little silt, moist, moderately dense | | 4 | SPT -2.4 | 25, 9, 8 |
| | | | same as above | | 5 | SPT | 7, 9 |

(continued)

Hole No. CP05-EAARS-CB-0315

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.4 | 15.0 | | | | | -3.4 | |
| | | | | | | | 8 |
| | | | | | | | 16 |
| | | | | | | -6.4 | |
| | | | | | | | 18 |
| | | | | | | -7.4 Approx strata change at 18 ft | |
| | | | SAND: white, fine to medium grain, calcitic, loose, little to some silt | | | | 2 |
| | | | | | 6 | SPT | 3 |
| | | | | | | | 1 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -12.4 | |
| | | | same as above, trace quartz sand (fine sand) | | | | 24 |
| -12.9 | 24.5 | | | | | -12.9 | 17 |
| | | | spoon refusal below this depth - maybe cemented sand and limestone | | | SPT | 50 |
| | | | | | | Change at 24.5 ft | |
| | | | | | | | 26 |
| -15.4 | 27.0 | | | | | | |
| | | | | | | | 28 |
| | | | | | | -17.4 | |
| -17.9 | 29.5 | | no recovery in spoon | | | | 25/0" |
| | | | | | 8 | SPT | |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0315

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.8 | 33.4 | | | | | -21.8 | |
| -22.4 | 34.0 | | | | | -22.4 | |
| -23.9 | 35.5 | | GRAVEL: white to grey, angular, little fine to coarse sand, trace silt | | 9 | SPT | 7<br>50 |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0316

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750172.7, E777661 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0316 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/23/2005 Completed 8/23/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.6 | 0.0 | | | | | | |
| | | | GRAVEL: light brown, medium dense, well graded, fine to coarse grained, sub angular, some to little sand, little silt | | 1 | 10.6 SPT 9.1 | 21, 14, 13 |
| | | | GRAVEL: grey brown black, fine to coarse grain, little fine sand, organic (peat), little silt | | 2 | SPT 7.6 | 3, 4, 4 |
| | | | | | 3 | SPT | 4, 7, 50/3" |
| 6.1 | 4.5 | | LIMESTONE: grey to brown | | | 5.6 | |
| | | | | 38 (RQD 30%) | 1 | HQ coring; Casing down to 5 ft | |
| 0.6 | 10.0 | | | | | 0.6 | |
| | | | SAND: white, fine to medium grained, calcitic, subrounded to sub angular, some to little silt, moderately dense, wet | | 4 | SPT -3.4 | 6, 7, 4 |
| | | | SAND: white, fine to medium grained, calcitic, subrounded, some silt, fossilliferous (shell), trace gravel | | 5 | SPT | 0, 2 |

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.4 | 15.0 | | | | | -4.4 | |
| | | | SAND: white, weakly cemented, fine to medium grained, subrounded to subangular, little to some silt, some fine grained gravel, angular to subangular | | | -8.4 | 4<br>16<br>18 |
| | | | | | 6 | SPT; Drove casing to 20 ft | 6<br>13<br>50<br>20 |
| -9.9 | 20.5 | | LIMESTONE: grey to white, medium to coarse grained, cemented sand, thinly bedded, vuggy, fossiliferous, weak, porous, friable | 56 (RQD 28%) | 2 | HQ coring | 22 |
| | | | LIMESTONE: white, fine to medium graded cemented sand, thin bedded, vuggy, fossiliferous | | | -14.4 | 24 |
| | | | LIMESTONE: white, fine grained, thinly to medium bedded, vuggy, fossiliferous, hard, strong | 76 (RQD 49%) | 3 | HQ coring | 26<br>28 |
| | | | | | | -19.4 | |
| | | | Similar to above | 65 (RQD 15%) | 4 | HQ coring | 30<br>32 |

(continued)

Hole No. CP05-EAARS-CB-0316

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.8 | 33.4 | | | | | -22.8 | |
| -24.9 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0317

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750154.8, E775119.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0317 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/22/2005 Completed 8/22/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.1 | 0.0 | | | | | | |
| | | | GRAVEL: light brown, medium dense, well graded, fine to coarse grained, sub angular, little to some fine sand, little silt (Fill) | | 1 | 12.1 SPT; slight organic odour 10.1 | 13, 15, 10 |
| | | | GRAVEL: light brown to black-grey, medium dense, fine to coarse grained, subangular, little fine to coarse sand, trace organic (peat) | | 2 | SPT 8.6 | 4, 10, 14 |
| | | | GRAVEL: tan, dense, fine to medium grained, shells | | 3 | SPT 6.6 | 36, 37, 50 |
| 6.6 | 5.5 | | | | | | |
| | | | LIMESTONE: pink-brown, coarse-grained, thinnly bedded, vuggy, soft, weak, friable | 70 (RQD 8%) | 1 | HQ coring 5.1 | |
| | | | LIMESTONE: fine to coarse cemented sand, thinly bedded, soft, weak, friable | 60 (RQD 50%) | 2 | HQ coring | |
| | | | LIMESTONE: white, fine grained, thinly bedded, fossiliferouss | | | 0.1 | |
| 0.1 | 12.0 | | | | | | |
| | | | SAND: white, medium dense, subrounded, moist, calcitic, fine to medium, some to little silt | | | -1.9 | |
| | | | | | 4 | SPT; ML; Inorganic | 34, 13 |

(continued)

Hole No. CP05-EAARS-CB-0317

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.1 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.9 | 15.0 | | | | | -2.9 | |
| | | | | | | silts and very fine sand; Moisture=23% | 5 |
| -5.9 | 18.0 | | | | | -5.9 | |
| | | | GRAVEL: light grey, dense, lightly weathered, subangular, little fine to medium sand, little silt | | | -6.9 Spoon alternating hard/soft | |
| | | | | | 5 | SPT | 13, 33, 22 |
| -10.9 | 23.0 | | | | | -10.9 | |
| | | | SAND: brown to grey, medium dense, moist, subrounded, porous, bedded, fine to medium | | | -11.9 Possible strata change at 23 ft | |
| -12.4 | 24.5 | | | | | -12.5 | 11 |
| | | | GRAVEL: white, very dense, subangular, little to some silt, little fine to medium sand, quartz bearing | | 6 | SPT | 34 |
| | | | | | | Possible strata change at 24.6 ft | 20 |
| | | | | | | -13.9 | |
| | | | | | | 26 ft drilling becomes less difficult | |
| | | | | | | -16.9 | |
| | | | | | 7 | SPT | 50/5" |
| -19.9 | 32.0 | | | | | -19.9 | |
| | | | SAND: white, loose, wet, subrounded, quartz bearing, fine to medium, with silt | | | Possible strata change at 32 ft | |

(continued)

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PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-CB-0317

Hole No. CP05-EAARS-CB-0317

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.1 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.3 | 33.4 | | | | | -21.3 | |
| | | | | | | -21.9 | |
| | | | | | 8 | SPT; SP-SM; poorly graded sand with silt; Moisture=25% | 4 4 4 |
| -23.4 | 35.5 | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0318

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750133.1, E771124.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0318 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/18/2005 Completed 8/18/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.6 | 0.0 | | | | | | |
| 8.6 | 2.0 | | Road fill material (broke Limestone) | | 1 | 10.6 SPT 8.6 | 26, 28, 18 |
| 6.1 | 4.5 | | Peat (muck layer) | | 2 | 6.6 SPT | 3, 2, 3 |
| | | | Dark grey with Limestone fragments and some Clay (Marl) | | 3 | 5.6 SPT | 12, 50/5" |
| 0.6 | 10.0 | | Hard Limestone | 51 (RQD 32%) | 1 | HQ coring 0.6 | |
| -3.4 | 14.0 | | Light grey, coarse sand with cemented sand and shell fragments | | 4 | SPT -3.4 | 2, 6, 29 |
| | | | Grey, fine sand and silt | | 5 | SPT | 3, 7 |

(continued)

Hole No. CP05-EAARS-CB-0318

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.4 | 15.0 | | | | | -4.4 | |
| -8.4 | 19.0 | | | | | -8.4 | 4 |
| | | | Grey fine sand with large shell fragments | | | -8.7 | 50/4" |
| | | | | 100 (RQD 64%) | 2 | SPT<br>HQ coring; UCS=960psi | |
| -13.4 | 24.0 | | | | | | |
| | | | Grey fine sand and shells, darker grey | | | -14.4 | |
| | | | | 100 (RQD 89%) | 3 | HQ coring; UCS=3095psi | |
| -19.4 | 30.0 | | | | | | |
| | | | End of Boring at 30' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0319

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750098.3, E767140.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0319 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/18/2005 Completed 8/18/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30.5 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.1 | 0.0 | | | | | | |
| | | | Road fill material | | 1 | 10.1 SPT 8.1 | 10, 12, 9 |
| | | | | | 2 | SPT 6.6 | 25, 15, 50/2" |
| 7.1 | 3.0 | | | | | | |
| | | | Hard LIMESTONE - some soft limestone layers | 45 (RQD 22%) | 1 | HQ coring 1.6 | |
| | | | | 48 (RQD 0%) | 2 | HQ coring -3.4 | |
| -1.9 | 12.0 | | | | | | |
| | | | Grey soft SAND / shell with shell fragments, silt | | 3 | SPT | 6, 4, 4 |

(continued)

Hole No. CP05-EAARS-CB-0319

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.9 | 15.0 | | | | | -4.9 | |
| -6.9 | 17.0 | | Hard - no recovery | | | -8.9 | |
| | | | | | 4 | SPT | 50/1" |
| -11.4 | 21.5 | | | | | -13.9 | |
| | | | Dark grey SAND with large black shell fragments | | 5 | SPT | 4, 4, 4 |
| | | | | | | -18.9 | |
| -20.4 | 30.5 | | Grey fine SAND - cemented with shell fragments | | 6 | SPT | 4, 4, 7 |
| | | | End of Boring at 30.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0319 |

Hole No. CP05-EAARS-CB-0319

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.1 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.3 | 33.4 | | | | | -23.3 | |
| | | | | | | x 2" O.D.) | |

34
36
38
40
42
44
46
48
50

Hole No. CP05-EAARS-CB-0320

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750089, E764793 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0320 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/17/2005 Completed 8/17/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.8 | 0.0 | | | | | | |
| 10.3 | 1.5 | | Road fill material | | 1 | 11.8 SPT 9.8 | 19, 21, 18 |
| 6.8 | 5.0 | | soft road fill, Peat (muck layer) | | 2 | 9.8 SPT 7.8 | 8, 10, 2 |
| | | | | | 3 | 7.8 SPT 6.8 | 3, 50/4" |
| -2.2 | 14.0 | | LIMESTONE - caprock | 45 (RQD 17%) | 1 | HQ coring 1.8 | |
| | | | | | 2 | HQ coring -2.2 | |
| | | | Soft grey limestone and shell fragments some fine sand | | 4 | -3.2 SPT | 4, 4 |

(continued)

Hole No. CP05-EAARS-CB-0320

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.2 | 15.0 | | | | | -3.2 | |
| | | | | 90 (RQD 38%) | 3 | HQ coring; UCS=1481psi | 50/1" |
| -8.2 | 20.0 | | | | | -8.2 | |
| | | | Grey cemented SAND with shells and shell fragments | | 5 | SPT | 4, 15, 12 |
| | | | | | | -12.2 | |
| | | | Grey cemented SAND with some shell fragments | | 6 | SPT; grey cemented sand in small skew segments | 48, 48, 36 |
| | | | | | | -15.2 | |
| | | | | | | Change at 27 ft | |
| | | | | | | -17.2 | |
| | | | Soft fine grey SAND only | | 7 | SPT | 5, 7, 9 |
| -18.7 | 30.5 | | | | | | |
| | | | End of Boring at 30.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

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PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-CB-0320

Hole No. CP05-EAARS-CB-0320

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.8 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.6 | 33.4 | | | | | -21.6 | |
| | | | | | | x 2" O.D.) | |

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36
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48
50

# APPENDIX 2

# SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 321-340

Hole No. CP05-EAARS-CB-0321

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750076.6, E763011.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0321 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/16/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.4 | 0.0 | | | | | | |
| | | | Road fill material | | 1 | 11.4 SPT 9.4 | 8, 9, 9 |
| | | | | | 2 | SPT 7.4 | 50/2" |
| | | | | | 3 | SPT 5.9 | 34, 50/1" |
| 5.9 | 5.5 | | LIMESTONE: caprock | 8 (RQD 8%) | 1 | HQ coring 0.9 | |
| -0.1 | 11.5 | | | | | | |
| | | | Grey cement SAND with shells | | | -2.6 | |
| | | | | | 4 | SPT | 4, 48 |

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.6 | 15.0 | | | | | -3.6 | |
| | | | | | | | 20 |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -7.6 | |
| | | | Grey cemented SAND, fragments of shells and rock (chert) | | 5 | SPT | 11, 45, 50/5" |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -12.6 | |
| | | | Grey SAND/shell, some shell fragments, some cemented sands | | 6 | SPT | 7, 5, 4 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -17.6 | |
| | | | | | 7 | SPT | 7, 5, 4 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0321

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.0 | 33.4 | | | | | -22.0 | |
| | | | Grey fine SAND with cemented sands | | | -22.6 | |
| | | | | | 8 | SPT | 3 / 3 / 4 |
| -24.1 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0322

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750065.2, E761081.7 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0322 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/15/2005 Completed 8/15/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: E. Requejo |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.9 | 0.0 | | | | | | |
| | | | SAND: top fill, medium to fine grained, sand, dark gray color, with traces of limestone | | 1 | 12.9 SPT 10.9 | 21, 18, 17 |
| | | | | | 2 | SPT | 30, 19, 15 |
| 8.9 | 4.0 | | | | | 8.9 | |
| | | | Muck: dark black color, very light, organic | | 3 | SPT; Less compacted | 6, 4, 10 |
| 6.9 | 6.0 | | | | | 6.9 | |
| | | | SAND: light brown, slightly silty, fine grained, with some limestone fragments and traces of shell calcitic | | 4 | SPT; water table encountered at 6 ft; Lost circulation | 6, 5, 12 |
| 4.9 | 8.0 | | | | | 4.9 | |
| | | | Core recovered 2'4" | 36 (RQD 17%) | 1 | HQ coring | |
| -0.1 | 13.0 | | | | | -0.1 | |
| | | | SAND: pale gray, coarse grained sand, angular, with cemented sand, and traces of shell | | 5 | SPT | 3, 3, 2 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0322

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.9 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.1 | 15.0 | | | | | -2.1 | |
| -3.6 | 16.5 | | | | | -3.6 | 16 |
| -5.1 | 18.0 | | Hard layer | | | No circulation<br>-5.1 | |
| -10.1 | 23.0 | | Core: 18 ft to 23 ft<br>Hard<br>Soft<br>Moderately hard<br>soft<br>soft | | 2 | HQ coring<br>-10.1 | 18<br>20<br>22 |
| | | | Gray and gray brown sand and cemented sand, some small shells | | 6 | SPT<br>-16.1 | 11<br>7<br>8<br>24<br>26<br>28 |
| | | | Gray fine sand | | 7 | SPT; soft | 4<br>3<br>4<br>30<br>32 |

(continued)

Hole No. CP05-EAARS-CB-0322

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.5 | 33.4 | | | | | -20.5 | |
| | | | Grey fine sand with large pieces of cemented sand | | | -21.1 | |
| | | | | | 8 | SPT | 5 / 7 / 9 |
| -22.6 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0322 |

Hole No. CP05-EAARS-CB-0323

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N749972.4, E759265.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0323 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/27/2005 Completed 7/27/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.5 | 0.0 | | | | | | |
| 10.0 | 1.5 | | Sandy GRAVEL: light creamy white with light brown and black mottling, fine and occasionally coarse, dense, subangular, dry (FILL) | | 1 | 11.5 SPT | 13, 26, 14 |
| 8.0 | 3.5 | | Silty SAND: light creamy gray, fine to coarse, well graded, subangular to subrounded, dry, medium dense (Fill) | | 2 | 9.5 SPT | 14, 12, 6 |
| 7.5 | 4.0 | | PEAT | | | 7.5 | |
| -2.5 | 14.0 | | LIMESTONE: Creamy white with yellowish brown stains, moderately strong to strong, medium bedded, fine grained, with some shells and irregular shaped voids (burrows, roots). LIMESTONE: Creamy white with yellowish brown stains, moderately strong to strong, medium bedded, fine grained, with some shells and irregular shaped voids (burrows, roots). | 60 (RQD 38%) | 1 | HQ coring; 6" peat above rock at 4 ft; 2.5 | |
| | | | Grades light gray and thinly bedded. Grades light creamy brown, medium bedded. | 28 (RQD 20%) | 2 | HQ coring; -2.5 | |
| | | | Silty SAND: light gray, fine to coarse grained, subangular, wet, shelly, medium dense, with some subangular | | 3 | SPT | 8, 5 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0323 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.5 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.5 | 15.0 | | | | | -3.5 | |
| | | | fine gravel that are aggregates of cemented hard sand. | | | | 5 |
| | | | | | | -4.5 | |
| | | | | 74 (RQD 40%) | 3 | HQ coring | |
| -6.2 | 17.7 | | | | | | |
| | | | LIMESTONE: light gray with light yellowish brown mottling, moderately strong to strong, medium bedded, shelly, with large shell fragments (coarse gravel size). | | | | |
| -9.5 | 21.0 | | | | | -9.5 | |
| | | | SANDSTONE: light gray, moderately strong to strong, fine to medium grained, with cemented shell fragments in sand. | 40 (RQD 0%) | 4 | HQ coring | |
| | | | | | | -12.3 | |
| | | | Grades greenish graywith occasional voids (fine gravel size). | 8 (RQD 0%) | 5 | HQ coring | |
| -17.0 | 28.5 | | | | | -17.0 | |
| | | | SAND: light gray, fine to medium grained, subangular, medium dense, wet, some subangular to subrounded fine gravel aggregates of hard cemented sand, mainly quartz, occasional black minerals and shells. | | 4 | SPT | 4 5 5 |
| | | | Grades to dark gray and cemented sand grades fine grained. | | | | |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0323

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.5 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.9 | 33.4 | | | | | -21.9 | |
| | | | | | | -22.5 | |
| | | | | | 5 | SPT | 5 / 4 / 6 |
| -24.0 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0323 |

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N751804.4, E758607.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0324 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/26/2005 Completed 7/27/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.7 | 0.0 | | | | | | |
| 8.7 | 2.0 | | Silty SAND: light gray with creamy gray and black mottling, fine to coarse grained, well graded, subangular, dense, with fine and coarse gravel, dry (FILL) | | 1 | 10.7 SPT 8.7 | 15, 43, 50/2" |
| 6.7 | 4.0 | | Sandy GRAVEL: creamy gray, fine to coarse grained, well graded, dense, sand is fine to coarse grained, with some silt and shell fragments (fill). | | 2 | SPT 6.7 | 6, 24, 13 |
| 6.0 | 4.8 | | GRAVEL: light brown, fine to coarse grained, angular, dense, some silty sand. | | 3 | 6.0 SPT | 8, 50/4" |
| | | | LIMESTONE: creamy white with tan mottling, moderately strong to strong, medium bedded, fine grained, with some shells and irregular shaped voids. Grades some coarse sand sized voids. Grades gray, very shelly, thinly bedded, moderately strong. Grades light creamy gray with tan mottling, medium bedded with thin partings of silty/sandy material. | 70 (RQD 44%) | 1 | HQ coring 0.9 | |
| | | | Grades to thinly bedded. Thin partings grade out. | 10 (RQD 0%) | 2 | HQ coring -4.1 | |
| -4.3 | 15.0 | | | | | -4.3 | |

(continued)

Hole No. CP05-EAARS-CB-0324

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.3 | 15.0 | | | | | -4.3 | |
| -5.3 | 16.0 | | GRAVEL: light gray, fine gravel fragments of cemented sand, fine to coarse, very dense. | | 4 | -5.3 SPT | 1 / 50/3" |
| -9.2 | 19.9 | | LIMESTONE: light gray to gray, moderately strong to strong, fine grained, shelly, medium bedded, with some irregular voids (creamy gray color). | 82 (RQD 56%) | 3 | HQ coring | |
| -11.1 | 21.8 | | LIMESTONE: light brownish gray with tan and light gray mottling, moderately strong to strong, medium bedded, fine grained, honeycombed aggregates of fine gravel sized cemented peices in yellow brown matrix, trace shells. | | | -10.3 | |
| -16.8 | 27.5 | | LIMESTONE: light gray, moderately strong to strong, medium bedded. | 32 (RQD 8%) | 4 | HQ coring | |
| -21.8 | 32.5 | | Sandy GRAVEL: light gray, loose, fine subangular, cemented sand. | | | -15.3 | |
| | | | | | | -18.3 | |
| | | | | | 5 | SPT | 3 / 3 / 3 |
| | | | SAND: light greenish gray, fine to coarse, well graded, loose. | | | | |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0324

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.7 | 33.4 | | | | | -22.7 | |
| | | | | | | -23.3 | |
| | | | | | 6 | SPT | 1 / 3 / 2 |
| -24.8 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0325

| DRILLING LOG | Division: | Installation: | Sheet 1 of 6 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753486, E758570.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0325 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/20/2005 Completed 7/22/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 100 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.8 | 0.0 | | | | | | |
| | | | Silty SAND, brown and creamy white, medium dense, fine to coarse, well graded, dry with gravel and cobble size light creamy grey angular / subangular limestone (fill) | | 1 | 12.8 SPT 10.8 | 7, 37, 28 |
| | | | Silty SAND, light creamy grey, medium dense, well graded fine to coarse, dry , with angular fine and coarse gravel size limestone fragments (fill) | | 2 | SPT 8.8 | 3, 7, 8 |
| 8.8 | 4.0 | | | | | | |
| | | | PEAT, dark brown to black, soft, damp becoming organic clayey SILT | | 3 | SPT 7.1 | 4, 2, 3 |
| 7.1 | 5.8 | | | | | | |
| | | | 0.8' light creamy grey with dark grey inclusions, thinly to medium bedded, moderately strong to strong, fine grained LIMESTONE with some irregular inclusions of dark grey limestone, occasional vugs<br>0.8' to 2.2' light grey occasional yellowish brown staining, medium bedded, moderately strong to strong, fine grained LIMESTONE with trace shells<br>2.2' to 3.4' light grey, medium bedded, moderately strong to strong, fine grained LIMESTONE with some vugs<br>3.4' to 4.8' as above but with more vugs of medium sand size | 96 (RQD 36%) | 1 | HQ coring 2.1 | |
| 2.1 | 10.8 | | | | | | |
| | | | Silty SAND, light grey to white, loose, fine to coarse, well graded, wet, some angular, subangular gravel size cemented sand, trace shell fragments | | | 0.8 | |
| | | | | | | 12 to 13 ft cemented -1.2 | |
| | | | | | 4 | SPT; occasional | 6, 6 |

(continued)

# DRILLING LOG (Cont.Sheet)

Elevation Top of Hole: 12.8



Project: EAA Reservoir A-1

Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.2 | 15.0 | | | | | -2.2 | |
| -6.2 | 19.0 | | | | | gravelly drilling 6" thick<br>-6.2 | 2<br>16<br>18 |
| -11.2 | 24.0 | | Gravelly SAND, light brown and light creamy grey, medium dense, fine to coarse, well graded with some cemented fine gravel cemented sand, organic smell, shell fragments | | 5 | SPT<br>-7.7<br>Hard drilling 10" band<br>-11.2 | 39<br>19<br>50/2"<br>20<br>22 |
| -16.2 | 29.0 | | Sandy GRAVEL, light grey, loose, fine, some coarse, subangular, cemented, shell fragments | | 6 | SPT; 6" to 9" thick harder strata from 18 to 24 ft<br>-16.2 | 11<br>4<br>4<br>24<br>26<br>28 |
| | | | SAND, light grey, medium dense, fine to medium, well graded, wet, subangular subrounded, shelly, some quartz | | 7 | SPT | 4<br>5<br>6<br>30<br>32 |

(continued)

Hole No. CP05-EAARS-CB-0325

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.8 | Sheet 3 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.6 | 33.4 | | | | | -20.6 | |
| | | | SAND, light grey, loose, well graded, fine and medium, subangular to subrounded, wet, quartz, sone shelly fragments | | 8 | -21.2<br>SPT | 4<br>4<br>4 |
| -26.2 | 39.0 | | | | | -26.2 | |
| | | | Gravelly SAND, light grey, loose, well graded, fine to medium, subangular to subrounded, wet, fine and coarse, hard cemented sand, gravel (subangular), grey colored, quite sandy | | 9 | SPT<br>-29.2<br>gravelly drilling | 4<br>4<br>5 |
| -31.2 | 44.0 | | | | | -31.2 | |
| | | | GRAVEL, grey, medium dense, well graded, fine, occasional coarse, subangular, hard cemented sand (fine to medium), some sand and shell fragments | | 10 | SPT | 7<br>5<br>11 |
| -36.2 | 49.0 | | | | | -36.2 | |
| | | | Sandy GRAVEL, light grey, medium dense, well graded, fine to coarse, subangular, hard cemented gravel of fine to medium sand | | 11 | SPT; gravelly drilling, no flush return | 8<br>8<br>12 |

34 36 38 40 42 44 46 48 50

(continued)

Hole No. CP05-EAARS-CB-0325

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.8 | Sheet 4 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -39.0 | 51.8 | | | | | -39.0 | |
| | | | As above | | | -41.2 | |
| | | | | | 12 | SPT | 12, 36, 26 |
| | | | As above | | | -46.2 | |
| | | | | | 13 | SPT | 6, 7, 4 |
| -51.2 | 64.0 | | | | | -51.2 | |
| | | | SAND, light grey, medium dense, well graded, fine to coarse, subangular to subrounded, wet, quartz, trace shells and black mineral | | 14 | SPT | 9, 8, 10 |
| | | | | | | -56.2 | |
| | | | As above, with shell fragments, weakly cemented, fine gravel size, shells / quartz (50/50) | | 15 | SPT | 9, 13 |

52 54 56 58 60 62 64 66 68 70

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.8 | Sheet 5 of 6 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -57.4 | 70.2 | | | | | -57.4 | 11 |
| | | | | | | | 72 |
| | | | | | | -61.2 | |
| | | | SAND, light greenish grey, medium dense, well graded, fine to medium, subangular to subrounded with angular shell fragments (fine gravel size), mainly quartz, some shells and black subrounded fine to medium size mineral | | 16 | SPT | 10 |
| | | | | | | | 12 |
| | | | | | | | 11 |
| | | | | | | | 74 |
| | | | | | | | 76 |
| | | | | | | | 78 |
| | | | | | | -66.2 | |
| | | | SAND, light creamy grey, medium dense, well graded, fine to coarse, subangular with angular shell fragments, mainly shelly grains, some quartz, fine gravel sized hard cemented fine to medium sand | | 17 | SPT | 11 |
| | | | | | | | 10 |
| | | | | | | | 11 |
| | | | | | | | 80 |
| | | | | | | | 82 |
| | | | | | | -71.2 | |
| | | | As above | | 18 | SPT | 14 |
| | | | | | | | 20 |
| | | | | | | | 16 |
| | | | | | | | 84 |
| | | | | | | | 86 |
| | | | | | | | 88 |

(continued)

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0325

Hole No. CP05-EAARS-CB-0325

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.8 | Sheet 6 of 6 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -75.8 | 88.6 | | | | | -75.8 | |
| | | | As above | | | -76.2 | |
| | | | | | 19 | SPT | 14, 10, 13 |
| | | | | | | -81.2 | |
| | | | SAND, grey, medium dense, well graded, fine to coarse, subangular to subrounded (quartz / shell, 50/50) | | 20 | SPT | 13, 15, 21 |
| -86.2 | 99.0 | | | | | -86.2 | |
| | | | Gravelly SAND, grey, medium dense, well graded, fine to coarse, subangular to subrounded (quartz / shell, 50/50) | | 21 | SPT | 16, 11, 12 |
| -87.7 | 100.5 | | | | | | |
| | | | End of Boring at 100.5' | | | | |

90 92 94 96 98 100 102 104 106

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0326

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N755746.4, E758530.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0326 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/22/2005 Completed 7/25/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.6 | 0.0 | | | | | | |
| | | | Silty SAND and GRAVEL: light brown, fine to coarse sand, well graded, fine gravel, angular to subangular, medium dense, dry (FILL). | | 1 | 11.6 SPT 9.6 | 9, 4, 10 |
| | | | | | 2 | SPT 7.6 | 5, 9, 5 |
| | | | Grades creamy gray and yellow brown | | 3 | SPT; GP; Poorly graded Gravel with sand; Moisture=5% 5.6 | 7, 11, 8 |
| 5.6 | 6.0 | | | | | | |
| | | | LIMESTONE: light gray with some yellow brown staining, medium bedded, fine grained, moderately strong to strong, with trace of shell fragments and fine to medium sand, some medium sized voids. | 48 (RQD 34%) | 1 | 5.1 SPT; HQ coring; Lost circulation 6.5 to 7.5 ft 0.1 | 50/5" |
| | | | Grades to creamy gray | | | | |
| | | | Grades to gray, thinly bedded, with thin bands of tan color. | 36 (RQD 0%) | 2 | HQ coring -2.4 | |
| -2.4 | 14.0 | | | | | | |
| | | | SAND: Creamy white, fine to coarse grained, well graded, subangular, medium dense, wet, mainly shelly | | 5 | SPT; SP-SM; Poorly | 13, 13 |
| -3.4 | 15.0 | | | | | | |

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0326 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.4 | 15.0 | | | | | -3.4 | |
| | | | fragments. Silty SAND: as above, fine to medium grained, loose. | | | graded sand with silt and gravel; Moisture=23% | 4, 16 |
| | | | | | | -5.9 | |
| -6.4 | 18.0 | | LIMESTONE: light gray with gray mottling, moderately strong to strong, medium to thickly bedded, fine grained, shelly, with some corals and occasional thin laminations of fine limestone. | 80 (RQD 52%) | 3 | HQ coring | 18, 20, 22 |
| | | | | | | -10.9 | |
| | | | Grades to cream tan mottling, weak, medium bedded, with some coarse sand to fine gravel sized vugs. | 36 (RQD 0%) | 4 | HQ coring | 24, 26 |
| | | | | | | -15.9 | |
| -16.4 | 28.0 | | | | | -16.4 | |
| | | | SAND: light gray, medium dense, fine to coarse grained, well graded, subangular to subrounded, with some gravel sized cemented sand (fines to medium with some shells and shelly fragments, with quartz and black minerals. | | 6 | SPT | 23, 19, 10, 28 |
| | | | | | | -18.4 | |
| | | | | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 30, 32 |
| -20.9 | 32.5 | | | | | | |
| | | | GRAVEL: light gray, loose, fine and some coarse, well graded, angular to | | | | |

(continued)

Hole No. CP05-EAARS-CB-0326

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.8 | 33.4 | | | | | -21.8 | |
| | | | subangular peices of hard cemented sand (subequal proportions of quartz and shells) and shell fragments. | | | -22.4 | |
| | | | | | 7 | SPT | 3 4 3 |
| -23.9 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-CB-0326

Hole No. CP05-EAARS-CB-0327

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N759759.6, E758445.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0327 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/25/2005 Completed 7/26/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: J. Petrie |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.9 | 0.0 | | | | | | |
| 9.4 | 1.5 | | Sandy GRAVEL: light gray with yellowish brown and black mottling, medium dense, fine and occasionally coarsegrained, subangular tyo angular, dry. Sand is fine to coarse grained ~~(Fill)~~. | | 1 | 10.9 SPT | 13, 16, 12 |
| 6.9 | 4.0 | | Gravel fragments of creamy grey limestone | | 2 | 8.9 SPT 6.9 | 50/5" |
| -1.1 | 12.0 | | LIMESTONE: light creamy gray with some yellowish brown staining, medium bedded, moderately strong to strong, fine grained, voids filled with black peat and fine gravel to 5.8. Grades empty voids (coarse sand sized) and occasional fissures. | 78 (RQD 56%) | 1 | HQ coring 1.9 | |
| | | | Grades gray and shelly | 26 (RQD 0%) | 2 | HQ coring -1.1 | |
| | | | Silty SAND: light creamy gray, loose, fine to coarse grained, well graded, subangular, wet, some hard cemented fine to coarse sand as fine gravel, shell fragments. | | 3 | -3.1 SPT | 2, 4 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0327 |

Hole No. CP05-EAARS-CB-0327

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.1 | 15.0 | | | | | -4.1 | |
| -7.1 | 18.0 | | | | | -7.1 | 3, 16 |
| | | | LIMESTONE: light gray with creamy gray and light brown mottling, medium bedded, moderately strong to strong, shelly with some coarse sand sized vugs. | 78 (RQD 28%) | 3 | HQ coring | 18, 20 |
| | | | Grades light brown. | | | -12.1 | 22 |
| | | | Grades light creamy gray, with some triangular shaped vugs (coarse sand to fine gravel size). Grades to very shelly with many vugs. | 44 (RQD 16%) | 4 | HQ coring | 24, 26 |
| -17.1 | 28.0 | | | | | -17.1 | |
| | | | SAND: light gray, loose, fine to coarse grained, well graded, subangular, some fine gravel sized angular hard cemented sand (fine to coarse) with subequal parts of quartz and shell. | | | -18.1 | 28 |
| | | | | | 4 | SPT | 3, 4, 5, 30 |
| | | | | | | -21.1 | 32 |
| | | | Grades fine to medium grained. | | | Gravelly drilling | |

(continued)

Hole No. CP05-EAARS-CB-0327

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.5 | 33.4 | | | | | -22.5 | |
| | | | | | | -23.1 | |
| | | | | | 5 | SPT | 4 / 6 / 8 |
| -24.6 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

34
36
38
40
42
44
46
48
50

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0327 |

Hole No. CP05-EAARS-CB-0328

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N765178.1, E758078.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0328 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/11/2005 Completed 8/11/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.9 | 0.0 | | | | | | |
| | | | PEAT: black, loose, poorly graded, fine grained, dry, mostly organic | | 1 | 9.9 SPT 8.4 | 2, 3, 3 |
| | | | Same as above, except dry to wet and dense | | 2 | SPT; 2 limestone chips recovered 6.9 | 5, 26, 21 |
| | | | Same as above, except wet, medium dense | | 3 | SPT 5.4 | 11, 8, 8 |
| | | | Same as above, quite gravelly | | 4 | SPT 3.9 | 5, 10, 13 |
| 3.9 | 6.0 | | SAND: greenish grey, medium dense, moderately graded, fine to coarse grained, angular | | 5 | SPT; one small limestone piece recovered 1.9 | 6, 11, 15 |
| | | | SAND: light grey, dense, moderately graded, fine to medium grained, angular, wet, shelly | | 6 | SPT -0.1 | 10, 19, 14 |
| | | | SAND: white, very loose, poorly graded, fine calcitic sand, subangular, wet | | 7 | SPT -3.6 | 3, 2, 2 |
| -3.6 | 13.5 | | Gravelly SAND: greenish grey, dense, moderately graded, fine to coarse grained, subangular calcitic sand, wet, shelly | | 8 | SPT | 30, 16, 21 |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0328 |

Hole No. CP05-EAARS-CB-0328

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.1 | 15.0 | | | | | -5.1 | |
| -8.6 | 18.5 | | | | | -8.6 | |
| | | | SAND: greenish grey, dense, moderately graded, fine to coarse grained, subangular calcitic sand, subrounded quartz, cemented sand, wet, trace shell fragments | | 9 | SPT | 16, 33, 8 |
| | | | | | | -13.6 | |
| | | | SAND: greenish grey, dense, poorly graded, fine to medium grained, subangular, calcitic sand, subrounded quartz, wet | | 10 | SPT | 6, 19, 23 |
| | | | | | | -18.6 | |
| | | | Same as above - except dense fragments of shells present | | 11 | SPT | 7, 11, 17 |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0328

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.5 | 33.4 | | | | | -23.5 | |
| -25.1 | 35.0 | | SAND: greenish grey, medium dense, moderately graded, subangular calcetic sand, rounded quartz, wet | | 12 | -23.6 SPT | 5 / 8 / 8 |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0328 |

Hole No. CP05-EAARS-CB-0329

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N766153.8, E758070.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0329 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/10/2005 Completed 8/11/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.9 | 0.0 | | | | | | |
| | | | PEAT: black, very loose, poorly graded, fine grained, dry, mostly organic | | 1 | 9.9 SPT | 3, 2, 2 |
| | | | Same as above | | | 8.4 | |
| 7.9 | 2.0 | | | | | 7.9 | 50/5" |
| | | | LIMESTONE: light brown to pale white, hard, fine grained, quite porous, shells present | 46 (RQD 12%) | 1 | SPT; spoon bouncing<br>HQ coring; UCS=1867psi | |
| 2.9 | 7.0 | | | | | 2.9 | |
| | | | SAND: light grey, medium dense, moderately graded, fine to medium grained, subangular calcitic sand, wet | | 3 | SPT | 11, 7, 6 |
| | | | Same as above, except dense | | 4 | 1.4 SPT; SM; Silty sand with gravel; Moisture=17% | 4, 25, 17 |
| | | | SAND: light grey, medium dense, moderately graded, fine to medium grained, angular calcitic sand, wet, shell fragments present | | 5 | -3.6 SPT; SM; Silty sand; Moisture=22% | 15, 18, 17 |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0329 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.1 | 15.0 | | | | | -5.1 | |
| | | | SAND: light grey, dense, moderately graded, fine to coarse grained, subangular calcitic sand, wet | | 6 | SPT; SP-SM; Poorly graded sand with silt and gravel; Moisture=13% | 10, 26, 17 |
| | | | | | | -8.6 | |
| | | | | | | -12.6 | |
| | | | SAND: greenish grey, medium dense, poorly graded, fine to medium grained, subangular calcitic sand, rounded quartz | | 7 | -13.6 Caloosahatchee Formation at 22.5 ft; SPT; SP-SM; Poorly graded sand with silt; Moisture=6% | 5, 7, 10 |
| | | | | | | -18.6 | |
| | | | Same as above | | 8 | SPT | 5, 7, 10 |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0329

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.5 | 33.4 | | | | | -23.5 | |
| -25.1 | 35.0 | | SAND: greenish grey, medium dense, moderately graded, fine to coarse grained, subangular calcitic sand, rounded quartz, cemented sand wet | | 9 | -23.6<br>SPT; SP-SM; Poorly graded fine sand with silt and gravel; Moisture=8% | 6<br>5<br>6 |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0329 |

Hole No. CP05-EAARS-CB-0330

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N767986.5, E758277.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0330 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/27/2005 Completed 7/27/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.3 | 0.0 | | | | | | |
| 7.3 | 1.0 | | PEAT: black, very loose, poorly graded, fine grained, dry, mostly organic | | 1 | 8.3 / 7.3 SPT | 2 / 50/4" |
| 3.3 | 5.0 | | LIMESTONE: white, hard, fine grained, porous, shelly | 54 (RQD 7%) | 1 | HQ coring | |
| -1.5 | 9.8 | | SAND: greenish grey, medium dense, poorly graded, fine to medium grained, sub angular, wet | | 2 | 2.3 Caprock ends at 5 ft; SPT | 8 / 12 / 16 |
| | | | SAND: light grey, very ense, moderately graded, fine to coarse grained, angular, wet | | 3 | -0.2; SPT; shells present; advanced 10 ft of casing | 10 / 42 / 50/3" |
| -6.7 | 15.0 | | Chips of limestone and pieces of cemented sand with shells recovered | 12 (RQD 0%) | 2 | -1.7 HQ coring | |

0 2 4 6 8 10 12 14

-6.7

(continued)

Hole No. CP05-EAARS-CB-0330

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.7 | 15.0 | | | | | -6.7 | |
| | | | SAND: light grey, loose, poorly graded, fine grained, subangular, calcitic sand, wet | | 4 | SPT; shells present | 2, 3, 5 |
| -10.2 | 18.5 | | | | | -10.2 | |
| -10.7 | 19.0 | | Pieces of stone and shells recovered | | | -10.7 | 50/4" |
| | | | Cemented SAND: greenish grey, hard, poorly graded, medium grained, shelly | 34 (RQD 0%) | 3 | SPT; advanced casing from 10 ft to 20 ft; spoon bouncing Few limestone chips recovered | |
| | | | | | | -15.7 | |
| | | | SAND: greenish grey, medium dense, moderately graded, medium to coarse grained, subangular, wet | | 6 | SPT | 2, 3, 12 |
| | | | | | | -20.2 | |
| | | | SAND: greenish grey, dense, poorly graded, fine grained, subrounded, wet | | 7 | SPT | 7, 12, 21 |
| -21.7 | 30.0 | | | | | | |
| | | | End of Boring at 30' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N770127.1, E758453.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0331 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/27/2005 Completed 7/27/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.3 | 0.0 | | | | | | |
| | | | PEAT: black, very loose, poorly graded, fine grained, dry<br>bottom 0.3' of peat, wet | | 1 | 9.3<br>SPT<br>7.8 | 1<br>2<br>2 |
| 7.5 | 1.8 | | | | | | 14 |
| 6.8 | 2.5 | | SAND: brownish grey, very dense, poorly graded, medium grained, subangular, wet | | 2 | 6.8 SPT | 50/5" |
| | | | Part LIMESTONE: white, hard, fine grained, quite porous<br>Part Cemented SAND: greenish grey, hard, fine to medium grained, shelly porous | 70 (RQD 15%) | 1 | HQ coring; Layered core sample recovered | |
| 1.8 | 7.5 | | | | | 1.8 | |
| 1.3 | 8.0 | | SAND: greenish grey, very dense, poorly graded, medium grained, angular, wet | | | 1.3 | 50/3" |
| | | | LIMESTONE: white, hard, fine to medium grained, porous, shelly | 6 (RQD 0%) | 2 | SPT<br>HQ coring | |
| 0.0 | 9.3 | | | | | -0.2 | |
| | | | SAND: light grey, dense, poorly graded, fine to medium grained, wet, quite silty, shells present | | | Caprock ends at around 9.5 ft; advanced 5 ft of casing | |
| | | | | | | -3.7 | |
| | | | | | 4 | SPT; quite silty, shells present | 35<br>20<br>20 |

(continued)

Hole No. CP05-EAARS-CB-0331

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.7 | 15.0 | | | | | -5.7 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -9.2 | |
| | | | SAND: greenish grey, dense, poorly graded, medium grained, subangular, wet | | 5 | SPT | 8, 13, 21 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -14.2 | |
| | | | Same as above | | 6 | SPT; hard drilling from 25.5 to 26 ft | 10, 24, 13 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -19.2 | |
| | | | SAND: greenish grey, dense, poorly graded, medium to coarse grained, subangular, wet | | 7 | SPT | 45, 20, 15 |
| -20.7 | 30.0 | | | | | | |
| | | | | | | | 30 |
| | | | End of Boring at 30' | | | | |
| | | | | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0331 |

Hole No. CP05-EAARS-CB-0332

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N775270.8, E757918.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0332 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/26/2005 Completed 7/26/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.5 | 0.0 | | | | | | |
| 8.0 | 1.5 | | PEAT: black, loose, poorly graded, fine grained, dry, mostly organic | | 1 | 9.5 SPT 8.0 | 2, 3, 3 |
| 6.8 | 2.8 | | SAND: brownish grey, very dense, poorly graded, fine grained, angular, dry | | 2 | SPT; limestone chips recovered 6.5 | 10, 18, 50/3" |
| 1.8 | 7.8 | | LIMESTONE: greenish grey to pale white, very hard, fine grained, shelly | 36 (RQD 0%) | 1 | HQ coring 1.5 | |
| -4.0 | 13.5 | | SAND: pale white, dense, fine to medium well graded, subangular, wet | | 3 | SPT; caprock ends at around 7.75 ft -4.0 | 3, 15, 26 |
| -5.5 | 15.0 | | SAND: light grey, very dense, fine to medium grained size, well graded, subangular calcitic sand, wet, silty | | 4 | SPT; casing down to 15 ft -5.5 | 7, 10, 50/5" |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0332

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.5 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.5 | 15.0 | | | | | -5.5 | |
| | | | Cemented SAND: greenish grey, very dense, moderately graded, medium to coarse grained, shelly | 24 (RQD 0%) | 2 | 3 pieces of limestone chips recovered | 16, 18 |
| | | | | | | -10.5 | |
| | | | SAND: light brown, medium dense, moderately graded, medium to coarse grain size, subangular, wet, quite gravelly | | 5 | SPT; hard drilling at 23 ft; advanced casing till 25 ft | 2, 3, 9; 20, 22 |
| | | | | | | -14.0 | |
| | | | SAND: greenish grey, medium hard, moderately graded, fine to coarse grained, moderately cemented, shelly, very porous | 48 (RQD 12%) | 3 | | 24, 26, 28 |
| | | | | | | -19.0 | |
| | | | SAND: greenish grey, loose, poorly graded, fine to medium grained size, subangular, wet, quite gravelly | | 6 | SPT | 2, 4, 5 |
| -20.5 | 30.0 | | | | | | |
| | | | End of Boring at 30' | | | | 30, 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0332 |

Hole No. CP05-EAARS-CB-0333

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N777626.2, E757886.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0333 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 7/26/2005 Completed 7/26/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.6 | 0.0 | | | | | | |
| | | | PEAT: black, very loose, poorly graded, fine grained, dry, mostly organic | | 1 | 9.6 SPT 8.1 | 1, 2, 2 |
| | | | Same as above - except loose, dry to wet | | 2 | SPT 6.6 | 3, 3, 3 |
| 6.4 | 3.2 | | One piece of limestone recovered ~~and~~ some peat | | | 6.1 | 50/2" |
| | | | LIMESTONE: light brown to white, hard, fine grained, shelly, porous | 20 (RQD 0%) | 3 1 | SPT HQ coring | |
| 2.1 | 7.5 | | | | | 2.1 | |
| | | | SAND: pale white, medium dense, moderately graded, fine to medium grains, wet, silty and gravelly, subangular | | 4 | 1.1 Caprock ended at around 7.5 ft SPT; SM; Silty sand with gravel; Moisture=24% | 2, 2, 28 |
| -3.9 | 13.5 | | | | | -3.9 | |
| | | | SAND: white, loose, poorly graded, fine grained, subrounded, calcitic sand, wet, silty | | 5 | SPT | 5, 5, 5 |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0333 |

Hole No. CP05-EAARS-CB-0333

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.6 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.4 | 15.0 | | | | | -5.4 | |
| -8.9 | 18.5 | | | | | -8.9 | |
| | | | SAND: light grey, medium dense, poorly graded, medium grained, subangular, wet | | 6 | SPT | 9, 12, 9 |
| | | | | | | -12.4 | |
| | | | SAND: light grey, hard, moderately graded, fine to medium grained, cemented, shelly, porous | 10 (RQD 6%) | 2 | HQ coring; Hard drilling at 22 ft; advanced 20 ft of casing | |
| | | | | | | -17.4 | |
| | | | SAND: light grey, medium dense, poorly graded, fine to coarse, subangular, wet | | 7 | SPT; Top half gravelly, bottom half silty, separated by stone chips | 4, 8, 10 |
| | | | | | | -18.9 | |
| | | | SAND: light grey,medium dense, poorly graded, fine grained, subrounded, calcitic sand, wet | | 8 | SPT | 20, 14, 12 |
| -20.4 | 30.0 | | | | | | |
| | | | End of Boring at 30' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0333 |

Hole No. CP05-EAARS-CB-0334

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N754292.8, E763213.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0334 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Travis Williams | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/2/2005 Completed 9/2/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.8 | 0.0 | | | | | | |
| 6.6 | 2.3 | | PEAT: Not sampled | | | 6.6 | |
| 4.1 | 4.8 | | LIMESTONE: tan to light brown, fine to coarse grained, thinly bedded, vuggy, hard and strong to moderately hard and moderately strong, fossiliferous. | 20 (RQD 0%) | 1 | HQ coring; Intermittent hard and soft drilling to 4.75 ft | |
| | | | SAND: pale brownish gray, well graded, fine to coarse, angular, calcitic, some fine gravel (shells and limestone). | | | 1.6 | |
| | | | | | | 1.3 | |
| -2.2 | 11.0 | | | | 1 | SPT | 47, 42, 8 |
| -4.7 | 13.5 | | Silty SAND: as above but silty, loose and with a trace of fine gravel. | | 2 | SPT; Very soft drilling to 11 ft; spoon bouncing at 12 ft | 7, 2, 50/5" |
| | | | SAND: as above but very dense and only a trace of silt and fine gravel. | | 3 | SPT; Hard drilling 13.5 to 16.5 ft | 25, 50/2" |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0334 |

Hole No. CP05-EAARS-CB-0334

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.2 | 15.0 | | | | | -6.2 | |
| -9.7 | 18.5 | | | | | -9.7 | |
| -11.7 | 20.5 | | Gravelly SAND: as above but very dense with fine angular limestone gravel and a trace silt. | | 4 | -11.7 | 26, 33, 26 |
| -21.2 | 30.0 | | SAND (Caloosahatchee Formation): pale brownish gray, medium dense, uniform, fine grained, subrouded, quartzose, trace fine to coarse, angular calcitic sand. | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation; -14.7 | |
| | | | | | 5 | SPT; Soft below 23.5 ft; -19.7 | 4, 5, 6 |
| | | | Grades as above with some fine angular limestone gravel. | | 6 | | 5, 5, 5 |
| | | | End of Boring at 30' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0334 |

Hole No. CP05-EAARS-CB-0335

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N752370.8, E769865.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0335 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/31/2005 Completed 8/31/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 5.9 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.4 | 0.0 | | | | | | |
| 7.5 | 0.9 | | PEAT: 0 ft to 0.9 ft, not sampled | | | 7.4 | |
| 4.0 | 4.4 | | LIMESTONE: caprock, tan to light brown, fine to coarse grained, thinly bedded, vuggy; Fossiliferous, ranges from hard to strong (wackestone and packstone to moderately hard, moderately strong and porous grainstone) | 40 (RQD 0%) | 1 | HQ coring; soft at 4.4 ft | |
| 2.5 | 5.9 | | | | | | |
| | | | End of Boring at 5.9' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

0 2 4 6 8 10 12 14

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0335 |

Hole No. CP05-EAARS-CB-0336

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N752408.8, E777773.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0336 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/30/2005 Completed 8/30/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.7 | 0.0 | | | | | | |
| 6.8 | 0.9 | | PEAT to 0.9 ft: not sampled | | | 6.8 | |
| 2.8 | 4.9 | | LIMESTONE: tan to light brown and grey, fine to coarse grained, vuggy, fossiliferous, hard and strong, angular to rounded pieces | 30 (RQD 0%) | 1 | HQ coring; mostly fine to coarse gravel; soft at 4.9 ft | |
| | | | | | | 1.7 | |
| | | | SAND: pale brown, medium dense, well graded, fine to coarse, angular, moist, calcitic, some fine gravel, gravelly (shells and limestone) | | 1 | SPT | 5, 6, 12 |
| | | | | | | -0.8 | |
| -5.8 | 13.5 | | SAND: pale brownish grey, well graded, fine to coarse, angular, calcitic, wet, silty in the upper half of sample | | 2 | SPT | 2, 16, 11 |
| | | | | | | -5.8 | |
| | | | Silty SAND: pale brownish grey, medium dense, well graded, fine to medium grained, angular, calcitic, wet, trace fine, angular gravel (shells) | | 3 | SPT | 4, 4, 7 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0336

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.7 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.3 | 15.0 | | | | | -7.3 | |
| -10.8 | 18.5 | | | | | -10.8 | |
| -15.8 | 23.5 | | SAND: light brownish grey, very dense, well graded, fine to coarse, moist, angular, calcitic, trace fine gravel (shell) | | 4 | SPT; Intermittent hard drilling below 19 ft | 15<br>29<br>50/2" |
| -22.3 | 30.0 | | no recovery | | 5 | SPT | 50/0" |
| | | | no recovery | | 6 | SPT | 50/0" |
| | | | End of Boring at 30' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0336 |

Hole No. CP05-EAARS-CB-0337

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N752253.4, E784339.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0337 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/17/2005 Completed 8/17/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.6 | 0.0 | | | | | | |
| 7.1 | 1.5 | | PEAT: black, moist, fine grained, organic | | 1 | 8.6 SPT; All calcitic material noted below is at least in part shell fragments 7.1 | 4, 7, 50/5" |
| -3.4 | 12.0 | | LIMESTONE: light to medium grey and light brown, fine to coarse grained, thinly bedded, fossiliferous, vuggy, hard and strong, caprock | 52 (RQD 0%) | 1 | HQ coring; Ranges from calcilutite to calcarenite; softer 5 to 7.5 ft, then hard 7.5 to 9.5 ft, then soft again below 9.5 ft | |
| | | | LIMESTONE: pale brownish grey, thinly bedded, fossiliferous, some very fine grained (calcilutite), slightly vuggy to dense, hard and strong, mostly medium to medium to coarse (calcarenite) porous, moderately hard and moderately strong | 26 (RQD 0%) | 2 | 2.1 1.9 SPT HQ coring -2.9 | 50/3" |
| | | | SAND: pale brownish grey, very dense, well graded, fine to coarse grained, angular, wet, calcitic, with some gravel (angular limestone chips and shells), trace silt | | 3 | SPT -4.9 | 9, 50/4" |
| | | | | | 4 | SPT | 50/3" |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0337 |

Hole No. CP05-EAARS-CB-0337

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.6 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.4 | 15.0 | | | | | -6.4 | |
| -9.9 | 18.5 | | | | | -9.9 | 16, 18 |
| -14.9 | 23.5 | | Grades to Gravelly SAND: more gravel | | 5 | SPT -14.9 | 25, 33, 40, 20, 22 |
| -19.9 | 28.5 | | SAND: pale brownish grey, very dense, well graded, fine to coarse grained, angular, wet, calcitic, with a trace fine gravel and trace very fine quartz sand | | 6 | SPT; Intermittent hard drilling from 21 to 23 ft -19.9 | 15, 12, 50/2", 24, 26, 28 |
| -23.9 | 32.5 | | Only chips of Sandy LIMESTONE recovered | | 7 | SPT; Intermittent hard drilling from 28.5 to 33.5 ft -23.9 | 50/2", 30, 32 |
| | | | SAND: pale brownish grey, very dense, poorly graded, mostly uniform, fine | | | | 5, 14 |

(continued)

Hole No. CP05-EAARS-CB-0337

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.6 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.8 | 33.4 | | | | | -24.8 | |
| -26.4 | 35.0 | | grained, subrounded and quartzose, some fine to medium grained, angular and calcitic, trace fine gravel | | 8 | SPT; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 50/4" |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0337 |

Hole No. CP05-EAARS-CB-0338

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N754257.9, E760698.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0338 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 7.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.9 | 0.0 | | | | | | |
| 6.4 | 2.5 | | PEAT: not sampled | | | 6.4 | |
| 3.4 | 5.5 | | LIMESTONE: tan to light brown and grey, thinly bedded, fine to coarse grained, vuggy, Fossiliferous, hard and strong to moderately hard, moderately strong and porous | 46 (RQD 8%) | 1 | HQ coring; Intermittent soft drilling from 3.5 to 4.5 ft, soft at 5.5 ft | |
| 1.4 | 7.5 | | No recovery | | | | |
| | | | End of Boring at 7.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0339

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N754349.7, E769822.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0339 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 6.3 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.1 | 0.0 | | | | | | |
| 6.8 | 1.3 | | Did not sample. Just drilled down to caprock. | | | 6.8 | |
| 3.1 | 5.0 | | LIMESTONE: caprock, tan to light brown, thinly bedded, fine to coarse grained, vuggy, fossiliferous, hard and strong, ranges mudstone to pachstone | 18 (RQD 7%) | 1 | HQ coring; soft from 2.3 ft to 3.9 ft | |
| 1.8 | 6.3 | | No recovery for this depth interval | | | | |
| | | | End of Boring at 6.3' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

0 2 4 6 8 10 12 14

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0339 |

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N754381.6, E777736 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0340 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/30/2005 Completed 8/30/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.3 | 0.0 | | | | | | |
| 6.2 | 1.1 | | 1.1 ft of PEAT: not sampled | | | 6.2 | |
| 1.3 | 6.0 | | LIMESTONE: tan to light brown, thinly bedded, fine to coarse grained, fossiliferous, vuggy to porous, moderately hard and moderately strong | 24 (RQD 0%) | 1 | HQ coring; soft from 1.6 to 2.1 ft and 4.1 to 5.1 ft<br>1.3 | |
| -3.2 | 10.5 | | Sandy GRAVEL: tan, poorly graded, fine grained, subangular, limestone with angular, fine to coarse, calcitic sand, trace silt, medium dense, wet | | 1 | SPT<br>-3.2 | 4<br>6<br>8 |
| -6.2 | 13.5 | | SAND: pale brownish grey, medium, dense, well graded, fine to coarse, angular, calcitic, some fine gravel (shells), trace silt, wet | | 2 | SPT<br>-6.2 | 15<br>9<br>9 |
| | | | Silty SAND: as above but silty with trace gravel (shells) | | 3 | SPT | 4<br>6<br>8 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0340

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.7 | 15.0 | | | | | -7.7 | |
| -11.2 | 18.5 | | | | | -11.2 | |
| -16.2 | 23.5 | | Silty SAND: as above but very dense, some gravel (limestone) | | 4 | SPT; hard layers below 17.5 ft, intermittent | 8<br>50/5" |
| -21.2 | 28.5 | | Sandy GRAVEL: pale brownish grey, well graded, fine to coarse, very dense, subangular, limestone, with calcitic, angular sand, some silt | | 5 | SPT | 28<br>47<br>12 |
| -22.7 | 30.0 | | SAND: pale brownish grey, medium dense, wet, uniform, fine, subrounded, quartzose, some calcitic, angular, fine sand to fine gravel, trace silt | | 6 | SPT; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 31<br>16<br>7 |
| | | | End of Boring at 30' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0340 |

# APPENDIX 2

# SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 341-360

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N754254.6, E784321.7 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0341 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/17/2005 Completed 8/18/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 36.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.9 | 0.0 | | | | | | |
| 7.4 | 1.5 | | PEAT: brownish black, fine, loose, moist, non-plastic, organic | | 1 | 8.9 SPT 7.4 | 2, 2, 6 |
| 2.4 | 6.5 | | LIMESTONE: tan to light grey and light brown, very fine to coarse grained, thinly bedded, fossiliferous, ranges from very fine (calcilutite), dense but vuggy, strong and hard to medium and coarse grained (Calcarenite), porous, moderately hard and moderately strong. | 46 (RQD 14%) | 2 1 | 7.4 SPT HQ coring 2.4 | 50/2" |
| -2.6 | 11.5 | | 1.2 ft of tan, vuggy, hard, and strong calcilutite recovered in Run # 2. | 24 (RQD 18%) | 2 | HQ coring; Ranges from mudstone to grainstone -2.6 | |
| | | | 0.3 in of the same recovered at the top of Run # 3. | 6 (RQD 0%) | 3 | HQ coring; Soft drilling from 9 to 11.2 ft; soft drilling from 11.8 to 23 ft | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0341

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.9 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.1 | 15.0 | | | | | -6.1 | |
| -7.6 | 16.5 | | | | | -7.6 | 16 |
| -12.6 | 21.5 | | No core recovery | 0 (RQD 0%) | 4 | HQ coring -12.6 | 18, 20 |
| -17.6 | 26.5 | | Calcarinite and shells: Light brownish grey, fine to coarse grained, porous, moderately hard and moderately strong to soft and weak grain stone recovered in Run # 5. | 26 (RQD 0%) | 5 | HQ coring; Short sections of firm drilling at middle and end of run # 5 -17.6 | 22, 24, 26 |
| -22.6 | 31.5 | | Calcarinite and shells: light brownish grey to light and medium grey, porous, moderately hard and moderately strong to soft, weak and friable grain stone with a trace of quartz sand, also hard and strong pack stone with some fine quartz sand with apparent solution voids infilled with the grainstone in Run # 6. | 42 (RQD 8%) | 6 | HQ coring; Intermittent firm drilling in run # 6 -22.6 | 28, 30 |
| | | | Light to medium grained, shelly, dense, hard and strong to porous, moderately hard and moderately hard packstone recovered in Run # 7. For most part, core is only half cylinder (possible solution cavity?). | 40 (RQD 0%) | 7 | HQ coring; Complete circulation loss in run # 7; 4" casing down to 30 ft | 32 |

(continued)

Hole No. CP05-EAARS-CB-0341

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.5 | 33.4 | | | | | -24.5 | |
| -27.6 | 36.5 | | Note: Fossil include pelecypod, gastropod and coral. | | | | |
| | | | End of Boring at 36.5' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

34
36
38
40
42
44
46
48
50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0341 |

Hole No. CP05-EAARS-CB-0342

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N754260.6, E784321.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0342 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/18/2005 Completed 8/19/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.4 | 0.0 | | | | | | |
| | | | Peat: black, loose, fine grained, non-plastic, moist, organic | | 1 | 11.4 SPT; All calcitic material noted below is at least in part shell fragments. 9.9 | 4, 3, 3 |
| 9.4 | 2.0 | | | | | 9.4 | 50/6" |
| | | | LIMESTONE: tan to brownish grey and light brown, fine to coarse grained, thinly to medium bedded, vuggy, fossiliferous, strong and hard | 46 (RQD 22%) | 1 | SPT; HQ coring; Caprock from 2 to 8 ft; soft from 4 to 4.9 ft; Core pieces for testing: 2.3 to 4 ft and 4 to 4.4 ft | |
| 5.2 | 6.2 | | | | | | |
| | | | Only uniform fine, angular, limestone gravel: looks like drill cuttings | | 3 | 4.4 SPT | 50/2" |
| 2.9 | 8.5 | | | | | 2.9 | |
| | | | SAND: pale brownish grey, loose, wet, well graded, fine to coarse, angular, calcitic, some silt, trace gravel | | 4 | SPT 0.4 | 3, 3, 2 |
| | | | Grades to some gravel | | 5 | SPT | 10, 4, 3 |
| -2.1 | 13.5 | | | | | -2.1 | |
| | | | Grades to Gravelly SAND (as above) with some silt, medium dense | | 6 | SPT | 3, 7, 18 |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0342 |

Hole No. CP05-EAARS-CB-0342

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.6 | 15.0 | | | | | -3.6 | |
| -4.6 | 16.0 | | | | | -4.6 | |
| -7.1 | 18.5 | | Grades to SAND: as above but no gravel, trace silt, medium dense | | 7 | SPT | 19, 10, 7 |
| -9.6 | 21.0 | | Grades to Silty SAND (as above) but pale greenish grey, loose, and silty | | 8 | SPT | 6, 4, 4 |
| -12.1 | | | Grades to Gravelly SAND: like that at 13.5 but very dense, pale brownish grey | | 9 | SPT | 50/6" |
| -14.6 | 26.0 | | Gravelly SAND as above, but a race very fine, subrounded quartz | | 10 | SPT | 24, 50/5" |
| -17.1 | | | SAND (as above), with some gravel and silt, trace very fine quartz | | 11 | SPT | 15, 12, 50 |
| -19.6 | 31.0 | | No recovery | | 12 | SPT; Hard drilling from 28.5 to 31 ft | 50/0" |
| | | | Sandy GRAVEL: pale brownish grey, very dense, well graded, fine to coarse, angular, limestone (trace very fine quartz sand with sand as above | | 13 | SPT; Hard drilling from 31 to 33. 5 ft | 22, 39, 50/2" |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

PROJECT: EAA Reservoir A-1

HOLE NUMBER: CP05-EAARS-CB-0342

Hole No. CP05-EAARS-CB-0342

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.0 | 33.4 | | | | | -22.0 | |
| -23.6 | 35.0 | | | | 14 | -22.1 SPT | 50/2" |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0343

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753259.7, E786969.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0343 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/16/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.6 | 0.0 | | | | | | |
| | | | Peat: brownish black, loose, fine grained, non-plastic, organic, moist | | 1 | 8.6 SPT 7.1 | 4, 2, 2 |
| | | | | | 2 | SPT 5.6 | 2, 2, 2 |
| 5.1 | 3.5 | | Wet at 3 ft | | 3 | 4.6 SPT | 3, 50/3" |
| | | | LIMESTONE: caprock, tan to light brown, mostly fine grained, vuggy, and fossiliferous, thinly bedded, strong and hard | 32 (RQD 0%) | 1 | HQ coring -0.4 | |
| 1.1 | 7.5 | | | | | | |
| | | | SAND: pale brownish gray, loose, well graded, fine to coarse, angular, calcitic, trace gravel, some silt | | | -4.9 | |
| | | | | | 4 | SPT | 4, 2, 4 |

0 2 4 6 8 10 12 14

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0343 |

Hole No. CP05-EAARS-CB-0343

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.6 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.4 | 15.0 | | | | | -6.4 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -9.9 | |
| | | | Grades pale greenish grey with trace silt | | 5 | SPT | 7<br>8<br>6 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -14.9 | |
| | | | Grades pale brownish grey with some very fine, subrounded, quartz sand, trace silt | | 6 | SPT | 10<br>11<br>21 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -19.9 | |
| | | | Grades very dense | | 7 | SPT; Hard drilling from 29 to 32 ft | 50/5" |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0343 |

Hole No. CP05-EAARS-CB-0343

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.6 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.8 | 33.4 | | | | | -24.8 | |
| -24.9 | 33.5 | | Sandy GRAVEL: pale greenish grey, very dense, gap graded, fine to coarse, subangular, sandy limestone, with angular, calcitic sand | | 8 | -24.9 SPT | 15 / 50/3" |
| -26.4 | 35.0 | | | | | | |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0343 |

Hole No. CP05-EAARS-CB-0344

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758906.8, E761991.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0344 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 5.8 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.4 | 0.0 | | | | | | |
| 7.6 | 0.8 | | PEAT: Not Sampled | | | 7.6 | |
| 3.2 | 5.2 | | LIMESTONE: tan to light brown and gray, fine to coarse grained, thinly bedded, fossiliferous, vuggy to porous, hard and strong to moderately hard to moderately strong. | 34 (RQD 0%) | 1 | HQ coring; Loosing water in caprock; Very hard to 3 ft, soft at 5.2 ft | |
| 2.6 | 5.8 | | No recovery | | | | |
| | | | End of Boring at 5.8' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0344 |

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N759006.3, E768486.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0345 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.5 | 0.0 | | | | | | |
| | | | ROADFILL: Not sampled. | | | | |
| 8.0 | 2.5 | | | | | | |
| | | | PEAT: Not sampled. | | | | |
| 6.5 | 4.0 | | | | | 6.5 | |
| | | | LIMESTONE: pale yellowish brown to tan, granular, very hard to medium soft, dense, fractured with fractures filled with calcerous silt becoming weathered and softer at bottom. | 70 (RQD 20%) | 1 | HQ coring | |
| | | | A 1 ft void in the core from 6.0 to 7.0 | | | | |
| | | | | | | 1.5 | |
| | | | | 10 (RQD 0%) | 2 | HQ coring; only recovered bottom 6" of core | |
| | | | Grades to tan, soft, granular, calcareous, silty, with some cemented shell. | | | | |
| -3.5 | 14.0 | | | | | -3.5 | |
| | | | Sandy GRAVEL: gray to tan, medium dense, calcareous, subangular, fine to coarse grained, well graded, some gray | | 1 | SPT | 4 4 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0345 |

Hole No. CP05-EAARS-CB-0345

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.5 | 15.0 | | | | | -4.5 | |
| | | | silt. | | | | 7 |
| | | | | | | | 16 |
| -7.0 | 17.5 | | | | | | |
| | | | Gravelly SAND: grades as above. | | | | 18 |
| | | | | | | -8.5 | |
| | | | | | 2 | SPT | 2 |
| | | | | | | | 2 |
| | | | | | | | 12 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -13.5 | |
| | | | A layer of Limeston from 24 to 24.75. | | 3 | SPT | 50/1" |
| | | | | | | | 24 |
| | | | | | | | 26 |
| -16.5 | 27.0 | | | | | | |
| | | | Sandy GRAVEL (Caloosahatchee Formation): gray to tan, very dense, siliceous, calcereous, subangular, well graded, some silt. | | | -17.0 | |
| | | | | | | | 28 |
| | | | | | | -18.5 Top of Caloosahatchee Formation | |
| | | | | | 4 | SPT; cemented quartz sand | 14 |
| | | | | | | | 25 |
| | | | | | | | 27 |
| | | | | | | | 30 |
| | | | | | | | 32 |
| -22.0 | 32.5 | | | | | | |
| | | | SAND: gray, dense, uniform consistency, subangular, trace of black | | | | |

(continued)

Hole No. CP05-EAARS-CB-0345

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.9 | 33.4 | | | | | -22.9 | |
| | | | phosphorite and tan calcerous sand. | | | -23.5 | |
| | | | | | 5 | SPT | 9 / 14 / 15 |
| -25.0 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0345 |

Hole No. CP05-EAARS-CB-0346

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758929.4, E773763.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0346 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 11.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.0 | 0.0 | | | | | | |
| 5.4 | 4.6 | | ROADFILL: Limestone gravel and cobbles recovered. | 12 (RQD 0%) | 1 | 10.0 HQ coring; Hard 0.1 to 0.6 ft; soft to 4.3 ft; then hard from 4.3 to 4.6 ft; hard from 4.8 to 7.3 ft; soft from 7.3 to 9.1 ft; hard from 9.1 to 9.6 ft and then soft | |
| 0.4 | 9.6 | | LIMESTONE (Caprock): tan to light brown, fine to coarse grained, thinly bedded, fossiliferous, vuggy, hard and strong. | 40 (RQD 24%) | 2 | 5.0 HQ coring; UCS=5010psi; core samples for testing: 5.0 to 5.6 ft and 5.9 to 6.5 ft | |
| -1.5 | 11.5 | | SAND: pale brownish gray, medium dense, well graded, fine to coarse grained, angular, calcitic, some fine angular Limsestone gravel, trace silt. | | 1 | 0.0 SPT; SP-SM; poorly graded sand with silt and gravel; Moisture=10% | 7, 6, 6 |
| | | | End of Boring at 11.5' | | | | |

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NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0346 |

Hole No. CP05-EAARS-CB-0347

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N759062.5, E780380.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0347 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.7 | 0.0 | | | | | | |
| 5.7 | 2.0 | | PEAT: Not sampled | | | 5.7 | |
| -0.8 | 8.5 | | LIMESTONE (Caprock): tan to light brown, thinly bedded, fine to coarse grained, fossiliferous, vuggy, strong and hard to porous, soft and weak. | 88 (RQD 43%) | 1 | HQ coring; soft from 3.2 to 3.5 ft and 3.6 to 5.8 ft; Intermittent hard drilling from 5.8 to 8.5 ft; then soft below 8.5 ft<br>1.7 | |
| | | | | 42 (RQD 10%) | 2 | HQ coring; Core samples for testing: 2.4 to 3 f, 3.0 to 3.7 ft and 6.0 to 6.5 ft<br>-3.3 | |
| -4.8 | 12.5 | | Gravelly SAND: pale brownish gray, well graded, fine to coarse grained, loose, wet, angular, calcitic, fine subrounded gravel. | | 1 | SPT | 2<br>2<br>2 |
| | | | End of Boring at 12.5' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93. | |

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(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0347 |

Hole No. CP05-EAARS-CB-0347

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.7 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.3 | 15.0 | | | | | -7.3 | |
| | | | | | | 2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE
MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0347 |

Hole No. CP05-EAARS-CB-0348

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761552.5, E761984.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0348 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 8.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.4 | 0.0 | | | | | | |
| 7.3 | 1.1 | | PEAT: Not sampled. | | | 7.4 | |
| 3.8 | 4.6 | | LIMESTONE (Caprock) | 40 (RQD 0%) | 1 | HQ coring; soft from 2.1 to 3.8 ft and at 4.6 ft | |
| -0.1 | 8.5 | | SAND: pale brownish gray, dense, well graded, fine to coarse grained, angular, calcitic, moist, with some fine angular, limestone gravel. | | 1 | 2.4<br>1.4<br>SPT | 26<br>23<br>25 |
| | | | End of Boring at 8.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0348 |

Hole No. CP05-EAARS-CB-0349

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761596.4, E768469.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0349 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.0 | 0.0 | | | | | | |
| 6.0 | 4.0 | | ROADFILL: Not sampled. | | | 6.0 | |
| 2.5 | 7.5 | | LIMESTONE (Caprock): dark brown to gray, hard and brittle to medium soft, weathered, and porous. | 40 (RQD 22%) | 1 | HQ coring | |
| -3.0 | 13.0 | | Gravelly SAND: gray to tan, calcereous, very loose, well graded, subangular, some tan calcereous silt. | | 1 | 1.0<br>SPT; very soft at 7.5 ft during coring | 5<br>2<br>1 |
| | | | Sandy SILT: gray, stiff, calcereous, well graded, interbedded with gray tan shells and shell fragments. | | 2 | -4.0<br>SPT | 5<br>4 |

(continued)

Hole No. CP05-EAARS-CB-0349

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.0 | 15.0 | | | | | -5.0 | |
| -8.5 | 18.5 | | | | | | 9, 16, 18 |
| -12.5 | 22.5 | | LIMESTONE: dark brown, very hard, brittle, silicified, fossiliferous, sandy. | | | -9.0 | |
| -15.0 | 25.0 | | SAND: gray, dense, calcereous, well graded. | | 3 | SPT; this is only a limestone stringer becoming softer | 50/3", 20, 22 |
| -20.0 | 30.0 | | LIMESTONE: dark gray, hard, brittle, moldic, angular, fossiliferous. | | | -14.0 | |
| | | | LIMESTONE (Caloosahatchee Formation): dark gray, hard, sandy (quartz), fossiliferous, some gray quartz sand. | | 4 | SPT | 13, 24, 24, 50/2", 26, 28 |
| | | | SAND: gray, loose, uniform consistency, subangular quartz, some tan shell fragments. | | | -18.5 | |
| | | | | | | -19.0 | |
| | | | | | 5 | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation SPT | 50/4", 30, 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0349 |

Hole No. CP05-EAARS-CB-0349

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.4 | 33.4 | | | | | -23.4 | |
| | | | | | | -24.0 | |
| | | | | | | | 6 |
| | | | | | 6 | SPT | 6 |
| -25.5 | 35.5 | | | | | | 5 |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0349 |

Hole No. CP05-EAARS-CB-0350

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761606.5, E773832.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0350 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.7 | 0.0 | | | | | | |
| 6.2 | 2.5 | | PEAT: Not sampled. | | | 6.2 | |
| 5.2 | 3.5 | | Silty SAND: greenish gray, soft, fine grained, angular calcitic sand. | | | | |
| | | | LIMESTONE (Caprock): tan brown to light gray, hard, fine to medium grained, shelly. | 34 (RQD 12%) | 1 | HQ coring; 0.6 ft piece of Silty SAND recovered; 1.1 ft of limestone piece recovered | |
| | | | | | | 1.2 | |
| -0.3 | 9.0 | | Grades white and porous. | 8 (RQD 8%) | 2 | HQ coring; one piece of 0.4 ft | |
| -3.8 | 12.5 | | No recovery | | | | |
| | | | End of Boring at 12.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0350 |

Hole No. CP05-EAARS-CB-0350

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.3 | 15.0 | | | | | -6.3 | |
| | | | | | | 2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE
MAR 71

| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0350 |

Hole No. CP05-EAARS-CB-0351

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761648.4, E779503.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0351 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/12/2005 Completed 9/12/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.9 | 0.0 | | | | | | |
| 5.9 | 2.0 | | PEAT: Not sampled. | | | 5.9 | |
| -0.1 | 8.0 | | LIMESTONE (Caprock): light gray, hard, fine to medium grained, porous. | 20 (RQD 0%) | 1 | HQ coring; 0.9 | |
| -4.1 | 12.0 | | Grades to moderately hard, vuggy, fossiliferous, shelly. Alternate layers of cemented sand, not much limestone. | 22 (RQD 8%) | 2 | HQ coring; one piece of 0.4 ft recovered | |
| | | | End of Boring at 12' | | | | |

0 2 4 6 8 10 12 14

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0351

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.9 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.1 | 15.0 | | | | | -7.1 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0352

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N759734.9, E781678.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0352 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/25/2005 Completed 8/25/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.0 | 0.0 | | | | | | |
| 9.0 | 2.0 | | GRAVEL: brown to grey, medium dense, dry, fine to coarse graded, subangular to subrounded, some fine to medium sand, subangular to subrounded, little silt, trace organics | | 1 | 11.0 SPT 9.0 | 15, 16, 4 |
| 5.5 | 5.5 | | PEAT: black, very loose, fibrous, moist, little to trace fine to medium sand, little silt | | 2 | SPT 7.0 | |
| | | | | | 3 | SPT 5.5 | 9, 12, 50/4" |
| 0.5 | 10.5 | | LIMESTONE: white to grey, fine grained to whackestone, hard and strong, slightly porous, slightly vuggy to vuggy, thinly bedded, fossiliferous | 56 (RQD 35%) | 1 | HQ coring 0.5 | |
| | | | SAND: white, calcitic, fine to medium grained, little to some fine to coarse gravel, subangular and subrounded, little silt, very loose, moist, poorly graded | | 4 | SPT; broke through the cap at 10.5 ft -3.0 | 7, 1, 2 |
| | | | SAND: white, calcitic, fine to medium grained, little silt, fossiliferous, very loose | | 5 | SPT | 2, 2 |

(continued)

Hole No. CP05-EAARS-CB-0352

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.0 | 15.0 | | | | | -4.0 | |
| | | | | | | | 2 |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -8.0 | |
| | | | same as above, silty, dense | | 6 | SPT | 3 |
| | | | | | | | 5 |
| | | | | | | | 4 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -13.0 | |
| | | | same as above, medium dense state | | 7 | SPT; slightly hard drilling at 23 ft | 5 |
| | | | | | | | 10 |
| | | | | | | | 7 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -18.0 | |
| | | | | | 8 | SPT | 7 |
| | | | | | | | 7 |
| | | | | | | | 8 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0352

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.4 | 33.4 | | | | | -22.4 | |
| -24.0 | 35.0 | | SAND: white to grey, fine to coarse, calcitic, trace fine to medium quartz, trace fine gravel, little silt | | 9 | -23.0<br>SPT | 64/4"<br>10/0" |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0353

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N766803.5, E760673.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0353 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.6 | 0.0 | | | | | | |
| | | | PEAT: black, loose, poorly graded, fine grained, dry | | 1 | 9.6 SPT 8.1 | 2, 3, 3 |
| | | | same as above - except wet | | 2 | SPT; couple of limestone chips at sample bottom 6.6 | 3, 50/5" |
| 7.1 | 2.5 | | LIMESTONE: tan brown, hard, fine to coarse grained, quite porous, shelly | 56 (RQD 34%) | 1 | HQ coring; 2 pieces each of 0.45 ft and 0.4 ft 2.1 | |
| 3.6 | 6 0 | | SAND: greenish grey, loose, moderately graded, fine to medium grained, wet, subangular, calcetic sand | | 3 | SPT -3.9 | 8, 7, 3 |
| | | | SAND: light grey, very dense, moderately graded, fine to medium grained, sub angular, calcetic sand, wet | | 4 | SPT; 3" of hard layer | 3, 38, 50/4" |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0353

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.6 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.4 | 15.0 | | | | | -5.4 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -8.9 | |
| | | | same as above - except dense, quite silty | | 5 | SPT | 28, 31, 6 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -13.9 | 23.5 | | | | | -13.9 | |
| | | | Gravelly SAND: olive grey, dense, poorly graded, fine to coarse grained, sub angular calcetic sand, wet, trace phosphate | | 6 | SPT | 10, 17, 18 |
| | | | | | | | 24 |
| -16.4 | 26.0 | | | | | -16.4 | |
| | | | SAND: olive grey, poorly graded, very fine to fine grained, rounded quartz, wet | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -18.9 | |
| | | | | | 7 | SPT | 10, 17, 18 |
| -20.4 | 30.0 | | | | | | |
| | | | | | | | 30 |
| | | | End of Boring at 30' | | | | |
| | | | | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0354

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N766938.9, E765962.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0354 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 9 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.8 | 0.0 | | | | | | |
| 6.3 | 2.5 | | Rotary wash from 0.0 ft to 2.5 ft. Not sampled. | | | 6.3 | |
| 3.3 | 5.5 | | LIMESTONE: tan brown to white, hard, vuggy, shelly, fine to medium grained | 30 (RQD 10%) | 1 | HQ coring; one piece 0.5 ft long | |
| -0.2 | 9.0 | | SAND: light grey, very dense, poorly graded fine to coarse grained, wet, shelly | | 1 | 1.3<br>SPT | 7<br>44<br>13 |
| | | | End of Boring at 9' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0355

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N766734.9, E771197 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0355 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/31/2005 Completed 8/31/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.7 | 0.0 | | | | | | |
| | | | Peat: dark brown to black, loose, poorly graded, fine grained, moist | | 1 | 8.7 SPT 7.2 | 3, 2, 4 |
| | | | same as above - black color | | 2 | SPT 5.7 | 3, 7, 14 |
| 5.2 | 3.5 | | | | 3 | SPT; couple of limestone chips recovered 4.2 | 12, 50/0" |
| | | | Gravelly SAND: olive grey, very dense, poorly graded, fine to coarse grained, wet | 32 (RQD 12%) | 1 | HQ coring; Caprock 2.5 ft; 1 piece of 0.6 ft 0.2 | |
| 2.7 | 6.0 | | | | | | |
| | | | LIMESTONE: tan brown to white, hard, fine to medium grained, shelly, a little porous | | | | |
| | | | No recovery | | 4 | SPT -4.8 | 7, 2, 1 |
| -4.8 | 13.5 | | | | | | |
| | | | SAND: light grey, medium dense, moderately graded, fine to medium grained, sub angular calcetic sand, wet, shells present, silty, trace phosphate | | 5 | SPT | 17, 14, 11 |

(continued)

Hole No. CP05-EAARS-CB-0355

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.7 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.3 | 15.0 | | | | | -6.3 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -9.8 | |
| | | | same as above - except very dense | | 6 | SPT | 23, 31, 24 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -14.8 | 23.5 | | | | | -14.8 | |
| | | | few shells and stone pieces recovered | | 7 | SPT; less than a foot of hard layer | 50/5" |
| -15.8 | 24.5 | | | | | | 24 |
| | | | SAND: light grey, medium dense, moderately graded, fine to medium grained, sub angular calcetic sand, rounded quartz, wet, shells present, silty, trace phosphate | | | | 26 |
| | | | | | | -17.8 | |
| | | | | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 28 |
| | | | | | | -19.8 | |
| | | | | | 8 | SPT | 12, 12, 14 |
| -21.3 | 30.0 | | | | | | |
| | | | | | | | 30 |
| | | | End of Boring at 30' | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0355 |

Hole No. CP05-EAARS-CB-0356

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N766664.2, E776454.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0356 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/2/2005 Completed 9/2/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 13.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.3 | 0.0 | | | | | | |
| | | | Not sampled | | | | |
| 7.3 | 1.0 | | | | | 7.3 | |
| | | | LIMESTONE: light grey, hard, fine to medium grained, porous, shelly | 94 (RQD 42%) | 1 | HQ coring; 1 piece each of 0.9 ft, 0.35 ft, 0.5 ft and 0.35 ft | |
| 3.3 | 5.0 | | | | | | |
| | | | Cemented SAND: greenish grey, very dense, poorly graded, fine to coarse grained, sub angular calcetic sand, wet | | | 2.3 | |
| | | | | | | 1.8 | 11 |
| 1.3 | 7.0 | | | | 1 | 1.3 SPT | 5 6 3" |
| | | | LIMESTONE: light grey, hard, fine to medium grained, quite porous | | 2 | SPT | |
| -0.2 | 8.5 | | | 30 (RQD 15%) | 2 | HQ coring; 1 piece of 0.35 ft and 0.4 ft | |
| | | | SAND: light grey, loose, moderately graded, fine to medium grained, sub angular calcetic sand, wet | | | -3.7 | |
| | | | | | 3 | SPT | 3 2 5 |
| -5.2 | 13.5 | | | | | | |
| | | | End of Boring at 13.5' | | | | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0356

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.7 | 15.0 | | | | | -6.7 | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16
18
20
22
24
26
28
30
32

Hole No. CP05-EAARS-CB-0357

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N769494.6, E760664.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0357 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 8 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.4 | 0.0 | | | | | | |
| 6.9 | 1.5 | | Rotary wash drilling from 0.0 ft to 1.5 ft. Not sampled. | | | 6.9 | |
| 2.9 | 5.5 | | LIMESTONE: tan brown to pale white, moderately hard, fine to coarse grained, vuggy, shelly | 35 (RQD 8%) | 1 | HQ coring; 1 piece of 0.4 ft; Caprock - 4 ft | |
| 0.4 | 8.0 | | SAND: greenish grey, medium dense, poorly graded, fine to coarse grained, angular calcetic sand, wet, lots of shells, quite gravelly | | 1 | 1.9<br>SPT | 3<br>6<br>14 |
| | | | End of Boring at 8' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0358

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N769579.6, E765913.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0358 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 14.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.2 | 0.0 | | | | | | |
| | | | Rotary wash drilling from 0.0 ft to 2.0 ft. Not sampled. | | | | |
| 7.2 | 2.0 | | | | | 7.2 | |
| | | | LIMESTONE: light grey to tan brown, hard, fine to coarse grained, quite porous, shells present. Staggered limestone and cemented sand layers | 64 (RQD 45%) | 1 | HQ coring; 1 piece each of 0.4 ft, 0.4 ft, 0.35 ft, 0.45 ft and 0.65 ft | |
| 2.2 | 7.0 | | | | | 2.2 | |
| | | | SAND: light grey, very dense, poorly graded, fine to coarse grained, sub angular calcetic sand, limestone chips, wet | | 1 | SPT; spoon bouncing | 7 / 50/1" |
| 1.2 | 8.0 | | | | | 0.7 | |
| | | | LIMESTONE: pale white, hard, fine to medium grained, porous | 30 (RQD 22%) | 2 | HQ coring; UCS=2500psi; 1 piece each of 0.6 ft and 0.5 ft | |
| -3.8 | 13.0 | | | | | -3.8 | |
| | | | SAND: light grey to greenish grey, very dense, moderately graded, fine to coarse grained, wet | | 2 | SPT; SM; silty sand with gravel; Moisture=21% | 8 / 44 / 16 |
| -5.3 | 14.5 | | | | | | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0358

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.2 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.8 | 15.0 | | | | | -5.8 | |
| | | | End of Boring at 14.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16 18 20 22 24 26 28 30 32

Hole No. CP05-EAARS-CB-0359

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N769432.1, E770696.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0359 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/24/2005 Completed 8/24/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.8 | 0.0 | | | | | | |
| 6.3 | 1.5 | | PEAT: black, medium dense, fine grained, moist, organic | | 1 | 7.8 SPT 6.3 | 1, 6, 6 |
| 4.3 | 3.5 | | Gravelly SAND mixed with peat, wet, limestone chips recovered | | 2 | 4.3 SPT | 12, 36, 36 |
| 0.8 | 7.0 | | a few limestone chips recovered<br>LIMESTONE: grey to pale white, hard, fine to medium grained, quite porous, shelly | 36 (RQD 10%) | 3 1 | 4.3 SPT HQ coring; 1 piece of 0.5 ft | 50/2" |
| | | | SAND: light grey, medium dense, moderately graded, fine to coarse grained, angular calcetic sand, wet, trace silty, shells present | | 4 | -0.7 SPT -5.7 | 3, 3, 14 |
| | | | same as above | | 5 | SPT | 14, 10, 12 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0359

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.8 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.2 | 15.0 | | | | | -7.2 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -10.7 | |
| | | | SAND: light grey, dense, moderately graded, fine to medium grained, sub angular calcetic sand, wet, silty, trace phosphate | | 6 | SPT; couple of limestone chips recovered | 10<br>17<br>16 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -15.7 | |
| | | | same as above | | 7 | SPT; flaky chips of stone recovered | 20<br>20<br>10 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| -18.7 | 26.5 | | | | | -18.7 | |
| | | | Gravelly SAND: greenish grey, dense, moderately graded, fine to coarse grained, sub angular calcetic sand, rounded quartz, wet | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |
| | | | | | | | 28 |
| | | | | | | -20.7 | |
| | | | | | 8 | SPT | 20<br>20<br>25 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0359

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.8 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -25.6 | 33.4 | | | | | -25.6 | |
| | | | SAND: greenish grey, medium dense, moderately graded, fine to coarse grained, sub angular calcetic sand, rounded quartz, wet | | 9 | -25.7 SPT; 2 chips of limestone recovered | 13 / 7 / 5 |
| -26.7 | 34.5 | | | | | | |
| -27.2 | 35.0 | | | | | | |

End of Boring at 35'

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0359 |

Hole No. CP05-EAARS-CB-0360

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N774647.1, E768471.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0360 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/12/2005 Completed 9/12/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.2 | 0.0 | | | | | | |
| 8.2 | 2.0 | | ROADFILL: Not sampled. | | | | |
| 6.7 | 3.5 | | PEAT: Not sampled. | | | 6.7 | |
| 2.7 | 7.5 | | LIMESTONE (Caprock): tan, very hard, microcrystalline, dense. Grades to light to dark brown, fractured, fossiliferous, medium hard, porous, soft voids are filled with silt. | 35 (RQD 9%) | 1 | HQ coring 2.7 | |
| -2.3 | 12.5 | | Sandy GRAVEL: tan, very dense, calcereous, well sorted, subangular, calcitic shell hash. | | | 1.7 Become soft at 7.5 ft | |
| | | | | | 1 | SPT; GP-GM; Poorly graded gravel with silt and sand; Moisture=26% | 15, 21, 30 |
| | | | CLAY: cream color, Some silt and sand, firm, calcereous, with trace fine gravel. | | | -3.3 | |
| | | | | | 2 | SPT; SM; silty sand with gravel; Moisture=31% | 2, 3, 4 |

0 2 4 6 8 10 12 14

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0360 |

Hole No. CP05-EAARS-CB-0360

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.2 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.8 | 15.0 | | | | | -4.8 | |
| -7.3 | 17.5 | | Silty SAND: tan, loose, calcereous. | | | -8.3 | |
| | | | | | 3 | SPT; SM; silty sand ; Moisture=24% | 6, 5, 5 |
| | | | | | | -11.3 | |
| -12.3 | 22.5 | | Sandy GRAVEL (Caloosahatchee Formation): Tan to gray, dense, calcereous, some fine grained quartz sand. | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation -13.3 | |
| | | | | | 4 | SPT; SM; Silty sand with gravel; Moisture=22% | 6, 12, 21 |
| -17.3 | 27.5 | | LIMESTONE: brown to dark gray, moderately hard, sandy, fossiliferous. | | | -18.3 | |
| | | | | | 5 | SPT | 50/2" |
| -19.8 | 30.0 | | Sandy GRAVEL: tan to gray, dense, well sorted, quartz sand with calcereous cement. | | | | |

16 18 20 22 24 26 28 30 32

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



PROJECT EAA Reservoir A-1 | HOLE NUMBER CP05-EAARS-CB-0360

Hole No. CP05-EAARS-CB-0360

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.2 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.2 | 33.4 | | | | | -23.2 | |
| | | | | | | -23.3 | 20 |
| | | | | | 6 | SPT | 16 |
| -24.8 | 35.0 | | | | | | 20 |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

# APPENDIX 2

# SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 361-380

Hole No. CP05-EAARS-CB-0361

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N778258.4, E768445.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0361 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/23/2005 Completed 8/23/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.5 | 0.0 | | | | | | |
| 7.2 | 1.3 | | PEAT: black, loose, poorly graded, fine grained, organic, dry | | 1 | 8.5 SPT 7.0 | 2, 2, 50 |
| 2.0 | 6.5 | | small pieces of limestone caprock<br>LIMESTONE: light grey to pale white, hard, fine to medium grained, quite porous | 50 (RQD 16%) | 1 | HQ coring 2.0 | |
| | | | SAND: greenish grey, very dense, moderately graded, fine to coarse grained, sub angular calcetic sand, cemented, wet | | 2 | SPT 0.0 | 27, 27, 50 |
| | | | SAND: light brown, medium dense, moderately graded, fine to medium grained, sub angular calcetic sand, wet | | 3 | SPT -5.0 | 2, 5, 6 |
| | | | SAND: light grey, loose, well graded, fine to coarse grained, sub angular calcetic sand, wet, shells present, quite silty | | 4 | SPT | 2, 6, 2 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0361

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.5 | 15.0 | | | | | -6.5 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -10.0 | |
| | | | same as above | | 5 | SPT | 5 4 6 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -15.0 | |
| | | | SAND: greenish grey, medium dense, moderately graded, fine to medium grained, sub angular calcetic sand, wet, shelly | | 6 | SPT | 8 9 7 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -20.0 | |
| | | | same as above - except dense | | 7 | SPT | 2 5 33 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.5 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.9 | 33.4 | | | | | -24.9 | |
| -26.5 | 35.0 | | small chips of cemented sand with shells recovered | | 8 | -25.0 SPT | 50 |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0362

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N781742.1, E760429 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0362 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.8 | 0.0 | | | | | | |
| | | | PEAT: black, very loose, poorly graded, fine to medium grained, moist, mostly organic. | | 1 | 8.8 SPT 7.3 | 2, 2, 2 |
| 6.8 | 2.0 | | | | 2 | SPT 5.8 | 1, 50/1" |
| | | | LIMESTONE (Caprock): tan brown, hard, fine to medium grained, shells present. | | | | |
| 4.8 | 4.0 | | | 12 (RQD 0%) | 1 | HQ coring; Caprock - 1.5 ft 1.3 | |
| | | | SAND: Light gray, medium dense, moderately graded, fineto coarse grained, subangular calcitic sand, wet. | | 3 | SPT -4.7 | 12, 11, 10 |
| -4.7 | 13.5 | | | | | | |
| | | | SAND (Caloosahatchee Formation): light gray, loose, moderately graded, fine to medium grained, subangular calcitic sand, wet, quite silty, | | 4 | SPT -6.2 | 6, 6, 4 |

(continued)

Hole No. CP05-EAARS-CB-0362

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.2 | 15.0 | | | | | -6.2 | |
| | | | subrounded quartz. | | | Caloosahatchee Formation | 16 |
| | | | Grades to greenish gray and dense, with trace phosphate. | | | -9.7 | 18 |
| | | | | | 5 | SPT | 15, 16, 10 |
| | | | Grades to medium dense, poorly graded, fine to coarse grained, rounded quartz, shells present. | | | -14.7 | 20, 22 |
| | | | | | 6 | SPT | 9, 7, 6 |
| -19.7 | 28.5 | | | | | -19.7 | 24, 26, 28 |
| | | | LIMESTONE | | 7 | SPT; Spoon bouncing | 50/3" |
| -21.2 | 30.0 | | | | | | 30 |
| | | | End of Boring at 30' | | | | 32 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0363

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N777276.3, E771077.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0363 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 13 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.4 | 0.0 | | | | | | |
| | | | Not Sampled | | | | |
| 6.4 | 3.0 | | | | | 6.4 | |
| | | | LIMESTONE (Caprock): light gray to white, hard, fine to medium grained, quite porous, shelly. | 68 (RQD 34%) | 1 | HQ coring; 1 piece each of 0.9 ft, 0.35 ft and 0.45 ft; Caprock - 5.5 ft | |
| | | | | | | 1.4 | |
| 0.2 | 9.2 | | Grades to white, shells grade out. | 14 (RQD 9%) | 2 | HQ coring; 1 piece of 0.45 ft | |
| | | | No recovery | | | | |
| -3.6 | 13.0 | | | | | | |
| | | | End of Boring at 13' | | | | |

NOTES:
1. Soils are field visually classified

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.4 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.6 | 15.0 | | | | | -5.6 | |
| | | | | | | in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

16
18
20
22
24
26
28
30
32

Hole No. CP05-EAARS-CB-0364

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N774274.5, E771159.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0364 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 14 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.4 | 0.0 | | | | | | |
| | | | Not sampled. | | | | |
| 6.9 | 1.5 | | | | | 6.9 | |
| | | | LIMESTONE (Caprock): tan brown to pale white, hard, fine to medium grained, shelly. | 42 (RQD 8%) | 1 | HQ coring; 1 piece of 0.4 ft | |
| 4.4 | 4.0 | | | | | | |
| | | | SAND: light gray, very dense, moderately graded, fine to medium grained sub angular calcitic sand, wet, some silt, shells present. | | | | |
| | | | | | | 1.9 | |
| 1.2 | 7.3 | | | | 1 | SPT | 50 / 50/3" |
| | | | LIMESTONE: white, moderately hard, fine to medium grained, vuggy, shells present. | | | 0.4 | |
| | | | | 42 (RQD 21%) | 2 | HQ coring; 1 piece each of 0.5 ft and 0.55 ft | |
| -1.6 | 10.0 | | | | | | |
| | | | SAND: greenish gray, medium dense, moderately graded, fine to medium grained subangular calcitic sand, wet, with some limestone peices. | | | | |
| | | | | | | -4.1 | |
| | | | | | 2 | SPT | 10 / 8 / 8 |
| -5.6 | 14.0 | | | | | | |

(continued)

Hole No. CP05-EAARS-CB-0364

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.4 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.6 | 15.0 | | | | | -6.6 | |
| | | | End of Boring at 14' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16 18 20 22 24 26 28 30 32

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0364 |

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N776581.1, E765893.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0365 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/23/2005 Completed 8/23/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 12.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 12.4 | 0.0 | | | | | | |
| | | | SAND: light to tan brown, dense, moderately graded, fine to medium grained, sub angular calcetic sand, dry | | 1 | 12.4 SPT; SM; silty sand with gravel; Moisture=10% 10.9 | 17, 26, 20 |
| | | | SAND: light grey, dense, poorly graded, fine to coarse grained, sub angular calceetic sand, dry to wet | | 2 | SPT; SM; silty sand with gravel; Moisture=13% 8.9 | 17, 21, 21 |
| 8.9 | 3.5 | | PEAT: black, fine grained, organic, dry | | 3 | SPT; SP-SM; poorly graded sand with silt and gravel; Moisture=88% 7.4 | 3, 2, 6 |
| 7.9 | 4.5 | | Gravelly SAND: greenish grey, cemented | | | | |
| | | | Gravelly SAND: greenish grey, very dense, moderately graded, fine to coarse grained, sub angular, cemented, wet | | 4 | SPT; SP-SM; Poorly graded sand with silt and gravel; Moisture=13% 5.9 | 21, 27, 50/3" |
| 5.9 | 6.5 | | LIMESTONE: kight grey to white, very hard, fine to medium grained | 68 (RQD 50%) | 1 | HQ coring; UCS=1500psi; 1 piece each of 1.1 ft, 0.8 ft and 0.5 ft; Very hard coring; 5 ft took 70 minutes 0.9 | |
| 0.9 | 11.5 | | SAND: light grey, medium dense, moderately graded, fine to coarse grained, sub angular calcetic sand, wet, silt present | | 5 | SPT; SM; silty sand with gravel; Moisture=29% | 5, 3, 22 |

(continued)

Hole No. CP05-EAARS-CB-0365

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -2.6 | 15.0 | | | | | -2.6 | |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -6.1 | |
| | | | SAND: same as above, shells present | | 6 | SPT; SM; silty sand; Moisture=23% | 15<br>12<br>10 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| | | | | | | -11.1 | |
| | | | SAND: greenish grey, medium dense, poorly graded, fine to medium grained, sub angular calcetic sand, wet, silty, shelly | | 7 | SPT; silty sand; Moisture=23% | 7<br>10<br>12 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| | | | | | | -16.1 | |
| | | | SAND: light grey, medium dense, moderately graded, fine to medium grained, sub angular calcetic sand, rounded quartz, wet, silty, trace phosphate | | 8 | SPT; SM; silty sand; Moisture=21%; Caloosahatchee Formation | 7<br>11<br>9 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0365

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 12.4 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.0 | 33.4 | | | | | -21.0 | |
| -21.1 | 33.5 | | Gravelly SAND: greenish grey, very dense, moderately graded, fine to coarse grained, sub angular calcetic sand, rounded quartz, cemented, wet | | 9 | -21.1 SPT; SP-SM; poorly graded sand with silt and gravel; Moisture=13% | 10 / 28 / 50/5" |
| -22.6 | 35.0 | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0366

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N752271.1, E760713.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0366 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 14 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.4 | 0.0 | | | | | | |
| 5.4 | 4.0 | | PEAT: not sampled | | | 5.4 | |
| 3.9 | 5.5 | | LIMESTONE: caprock, tan to light brown, thinly bedded, fine to coarse grained, vuggy to porous, fossiliferous, hard and strong to moderately hard and strong | 52 (RQD 26%) | 1 | HQ coring; Soft from 5.5 ft to 7.5 ft, then firm | |
| -0.1 | 9.5 | | LIMESTONE: pale to light brownish grey, fine to coarse grained, thinly bedded, porous, fossiliferous, moderately hard, and moderately strong | | | 0.4 | |
| -4.6 | 14.0 | | soft below 9.5 ft. No recovery. | 10 (RQD 9%) | 2 | HQ coring; soft below 9.5 ft | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0366

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.4 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.6 | 15.0 | | | | | -5.6 | |
| | | | End of Boring at 14' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16
18
20
22
24
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28
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32

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0366 |

Hole No. CP05-EAARS-CB-0367

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N752287.5, E763220.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0367 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.1 | 0.0 | | | | | | |
| 6.1 | 2.0 | | PEAT: Not sampled. | | | 6.1 | |
| 3.9 | 4.2 | | LIMESTONE (Caprock): tan, fine to coarse grained, thinly bedded, vuggy to porous, fossiliferous, hard and strong to moderately hard and moderately strong. | 22 (RQD 7%) | 1 | HQ coring; soft below 4.2 ft | |
| 1.1 | 7.0 | | Sandy GRAVEL: pale brownish gray, very dense, well graded, fine grained, angular limestone. | | | 1.1 | |
| -0.2 | 8.3 | | LIMESTONE: tan to light gray, fine to coarse grained, thinly bedded, fossiliferous mostly soft and weak. (First 0.2 ft is hard.) | 22 (RQD 0%) | 2 | HQ coring; hard at 7 ft; spoon bouncing; many loose shells in the core | |
| | | | Sandy GRAVEL: As above, but with trace silt. | | | -3.9 | |
| | | | | | | -5.4 | |
| | | | | | 1 | SPT | 50/3" |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0367

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8.1 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.9 | 15.0 | | | | | -6.9 | |
| -9.4 | 17.5 | | Gravelly SAND: pale brown to gray, medium dense, uniform, fine grained, subrounded, quartzose, trace fine to coarse angular calcitic sand, with sandy limestone gravel. | | | -10.4 | |
| | | | | | 2 | SPT | 11, 13, 12 |
| -14.4 | 22.5 | | SAND: pale brownish gray, medium dense uniform, fine grained, subrounded, moist, quartzose, trace fine to medium angular calcitic sand. | | | -15.4 | |
| | | | | | 3 | SPT | 9, 9, 10 |
| | | | Grades as above, but with some fine angular calcereous sandstone gravel. | | | -20.4 | |
| | | | | | 4 | SPT | 1, 14, 13 |
| -21.9 | 30.0 | | | | | | |
| | | | End of Boring at 30' | | | | |

16 18 20 22 24 26 28 30 32

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0367 |

Hole No. CP05-EAARS-CB-0368

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753662.4, E767510 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0368 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 7.8 | 0.3 | | PEAT | | | 7.8 | |
| 2.8 | 5.3 | | LIMESTONE: caprock, pale brownish grey to light brown, thinly bedded, fine to coarse grained, vuggy, fossiliferous, hard and strong, weakly cemented sand below | 36 (RQD 10%) | 1 | HQ coring; Good core piece for testing 0.25 to 0.75 ft; Soft drilling at 1.25 ft | |
| -0.5 | 8.5 | | Gravelly SAND: pale brownish grey, dense, well graded, fine to coarse, angular, calcitic, trace silt | | 1 | SPT | 5, 16, 18 |
| -2.0 | 10.0 | | Only LIMESTONE chips recovered | | 2 | SPT; Hard drilling from 8.3 to 8.7 ft | 50/2" |
| | | | Silty SAND: pale brownish grey, very dense to loose, well graded, fine to coarse, wet, angular, calcitic, trace fine gravel | | | -5.5 | |
| | | | | | 3 | SPT; Hard drilling from 12.5 to 13.0 ft; Intermittent hard | 2, 3, 50/2" |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0368

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |
| -10.5 | 18.5 | | | | | drilling from 13.5 to 18.5 ft<br>-10.5 | 16<br>18 |
| -12.0 | 20.0 | | No recovery | | 4 | SPT; Hard drilling from 18.5 to 21.5<br>-15.5 | 50/3"<br>20<br>22 |
| -22.0 | 30.0 | | SAND: pale brownish grey, medium dense, wet, mostly uniform, fine grained, sub rounded and quartzose, trace calcitic, some fine gravel | | 5 | SPT; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation<br>-20.5 | 20<br>13<br>11<br>24<br>26<br>28 |
| | | | SAND: as above, buut some silt and fine gravel | | 6 | SPT | 10<br>9<br>11 |
| | | | End of Boring at 30' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | 30<br>32 |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0368 |

Hole No. CP05-EAARS-CB-0369

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753677, E772160.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0369 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/31/2005 Completed 8/31/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 30 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 6.0 | 2.0 | | PEAT: not sampled | | | 6.0 | |
| 2.0 | 6 0 | | LIMESTONE: caprock: tan to light brown, fine to coarse grained, fossiliferous, vuggy, hard and strong, very closely fractured | 28 (RQD 0%) | 1 | HQ coring; Soft from 3.5 to 4.5 ft; Packstone, soft at 6 ft | |
| -3.0 | 11.0 | | Sandy GRAVEL: tan, loose, wet, subangular, weakly cemented limestone, poorly graded, fine to coarse | | 1 | 1.0<br>SPT<br>-3.0 | 5<br>4<br>5 |
| -5.5 | 13.5 | | Silty SAND: pale greenish grey, very dense, well graded, fine to coarse, angular, calcitic, some fine gravel (shells) | | 2 | SPT<br>-5.5 | 28<br>13<br>50/5" |
| | | | SAND: pale greenish grey, loose, well graded, fine to medium grained, subangular, calcitic, some silt | | 3 | SPT | 7<br>5<br>3 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0369

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |
| -10.5 | 18.5 | | | | | -10.5 | |
| -15.5 | 23.5 | | GRAVEL: tan, very dense, poorly graded, fine, subangular, limestone, some calcitic sand | | 4 | SPT; Hard drilling from 20 to 23.5 ft | 50/4" |
| -20.5 | 28.5 | | Gravelly SAND: pale brownish grey, very dense, well graded, fine to coarse, angular, calcitic, wet, with limestone gravel | | 5 | SPT; Intermittent hard drilling from 23.5 to 28.5 ft | 47<br>50/4" |
| -22.0 | 30.0 | | SAND: pale greenish grey, medium dense, mostly uniform, fine grained and quartzose, some fine to medium, angular, calcitic, trace sandy limestone gravel | | 6 | SPT; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 18<br>11<br>17 |

16 18 20 22 24 26 28 30 32

End of Boring at 30'

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0370

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753743.1, E775375.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0370 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/30/2005 Completed 8/30/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10.6 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.9 | 0.0 | | | | | | |
| 7.0 | 0.9 | | PEAT: not sampled | | | 6.9 | |
| | | | LIMESTONE: tan to light brown, fine to coarse grained, thinly bedded, fossiliferous, vuggy to porous, hard and strong to moderately hard and moderately strong, most recovery in gravel sized rounded to angular | 7 (RQD 0%) | 1 | HQ coring; Soft from 1.5 to 4.4 ft | |
| | | | | | | 2.4 | |
| | | | | 24 (RQD 10%) | 2 | HQ coring; Soft at 8 ft | |
| -0.1 | 8.0 | | | | | | |
| | | | soft at 8 ft. No recovery. | | | | |
| -2.7 | 10.6 | | | | | | |
| | | | End of Boring at 10.6' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0371

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753716.1, E780372.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0371 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/23/2005 Completed 8/23/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.8 | 0.0 | | | | | | |
| 6.6 | 1.3 | | PEAT | | 1 | 7.8 SPT 6.5 | 4, 2, 50/4" |
| 0.8 | 7.0 | | LIMESTONE: caprock: tan to light brown, grades from strong, hard, vuggy mudstone and wackestone to soft, weak, porous grainstone<br>Had to redrill core run to remove debris | 42 (RQD 12%) | 1 | HQ coring; Core piece for testing:3.9 to 4.5 ft; Becomes soft from 4.7 to 5 ft<br>1.5 | |
| -5.7 | 13.5 | | Silty SAND: pale brownish grey, medium dense, wet, well graded, fine to coarse grained, angular, calcitic, with some fine angular, limestone gravel<br>Grades loose with no gravel | | 2 | 0.8 SPT -0.7 | 6, 9, 13 |
| | | | | | 3 | SPT -5.7 | 2, 1, 7 |
| | | | | | 4 | SPT | 6, 9, 10 |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0371

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.8 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.2 | 15.0 | | | | | -7.2 | |
| | | | SAND: pale brownish grey, medium dense, well graded, fine to coarse, wet, angular, calcitic, trace very fine quartz sand | | 5 | SPT | 15<br>11<br>12 |
| -15.7 | 23.5 | | | | | -15.7 | |
| | | | SAND: as above but medium dense, no gravel and some silt | | 6 | SPT; Hard drilling from 21 to 27.5 ft | 50/1" |
| -20.7 | 28.5 | | | | | -20.7 | |
| | | | Gravelly SAND: pale brownish grey, loose, well graded, fine to coarse, mostly angular and calcitic, some fine to medium subrounded quartz, angular limestone gravel | | 7 | SPT | 9<br>2<br>4 |
| | | | | | | -22.2 | |
| | | | | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0371

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.8 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -25.6 | 33.4 | | | | | -25.6 | |
| -25.7 | 33.5 | | SAND: light brownish grey, medium dense, moist, mostly uniform, fine grained, subrounded and quartzose, some calcitic, angular, fine to coarse sand and fine gravel at 33.5 ft | | 8 | -25.7<br>SPT | 6<br>8<br>8 |
| -27.2 | 35.0 | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

Hole No. CP05-EAARS-CB-0372

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N757932.6, E776407.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0372 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/30/2005 Completed 8/30/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.0 | 0.0 | | | | | | |
| 9.0 | 2.0 | | SAND: light brown, moderately dense, fine to medium gradation, some coarse to fine gravel, angular to subangular | | 1 | 11.0 SPT 9.0 | 7, 7, 7 |
| 7.0 | 4.0 | | PEAT: black, moist, fibrous, trace fine to medium calcitic sand, shells | | 2 | SPT 7.3 | 4, 2, 1 |
| 2.0 | 9.0 | | LIMESTONE: white to light tan-grey, fine to medium graded, non porous to slightly porous, fossiliferous, slightly vuggy, hard, moderately strong to strong | 65 (RQD45%) | 3 1 | 7.0 SPT HQ coring; UCS=3570psi 2.0 | 50/0" |
| 1.0 | 10.0 | | SAND: white, fine to medium gradation, subangular, shelly, little silt | | 4 | 1.0 SPT | 3, 5 |
| -3.0 | 14.0 | | LIMESTONE: white, fine to coarse grained, fractured, porous to slightly porous, slightly vuggy, hard, weak, thinly bedded | 20 (RQD 0%) | 1 | HQ coring; UCS=1570psi; Broke through about 13.5 ft -3.0 | 50/2" |
| | | | SAND: light grey to tan, medium graded, some shells, trace fine sand, calcitic, angular to subangular, loose, | | 5 | -3.5 SPT | 3, 6 |

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.0 | 15.0 | | | | | -4.0 | |
| | | | moist | | | ML; Inorganic silts and very fine sand; Moisture=19% | 4<br>16<br>18 |
| | | | | | | -8.0 | |
| | | | SAND: tan-grey to white, calcitic, fine to medium grained, little silt, little fine to coarse gravel, subangular | | 6 | SPT | 6<br>2<br>4<br>20<br>22 |
| | | | | | | -13.0 | |
| | | | No recovery. Very hard drilling, spoon refusal - probably limestone | | 7 | SPT; white and white grey fragments of limestone in drilling mud | 25/0"<br>24<br>26<br>28 |
| | | | | | | -18.0 | |
| | | | No recovery. Possibly similar to above | | 8 | SPT | 25/0"<br>30<br>32 |

(continued)

Hole No. CP05-EAARS-CB-0372

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.4 | 33.4 | | | | | -22.4 | |
| | | | | | | -23.0 | |
| | | | SAND: white, medium dense, calcitic, fine to medium gradation, little silt, little fine gravel, angular to subangular, little fine quartz sand, subangular to subrounded | | 9 | SPT; drill advanced with less difficulty till 33.5 ft | 28<br>12<br>10 |
| -24.5 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758092.4, E771124.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0373 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/30/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.7 | 0.0 | | | | | | |
| 9.7 | 2.0 | | SAND: grey-brown, fine to medium gradation, moderately dense, calcitic, little fine to coarse gravel, angular to subangular, little silt, organic (peat, silt) (FILL) | | 1 | 11.7 SPT 9.7 | 7, 11, 7 |
| 7.7 | 4.0 | | PEAT: black, moist, loose, fibrous, fine to coarse calcitic sand, shell fragments | | 2 | 7.7 SPT | 7, 2, 3 |
| 7.2 | 4.5 | | GRAVEL: light tan, coarse grained, little trace silt, fine sand, calcitic, angular, dense | | 3 | 7.2 SPT | 4, 50/4" |
| | | | LIMESTONE: grey to white, very vuggy to vuggy, finr to coarse to fine to medium gravel, porous, slightly porous, moderately strong and hard, fossiliferous | 80 (RQD 54%) | 1 | HQ coring; UCS=1000psi 2.2 | |
| -2.8 | 14.5 | | LIMESTONE: white, fine to coarse grained, vuggy and porous, weak to moderately strong, friable, moderately hard, fossiliferous | 26 (RQD 17%) | 2 | HQ coring; UCS=4430psi; bottom of caprock at 14.5 ft -2.8 | |
| | | | SAND: white, moderately dense, fine to | | | | 6 |

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.3 | 15.0 | | | | | -3.3 | |
| | | | medium grained, trace to little coarse sand, trace gravel, little to some silt, subangularm, moist, calcitic | | 4 | SPT | 11, 7, 16, 18 |
| | | | | | | -7.3 | |
| | | | Same as above | | 5 | SPT; SM; silty sand with gravel; Moisture=25% | 4, 3, 3, 20, 22 |
| | | | | | | -12.3 | |
| | | | SAND: grey to white, fine to coarse grained, calcitic, little to trace quartz fine grained sand, some fine to coarse calcitic gravel, little silt, angular to subangular/subrounded | | 6 | SPT; Intermittent hard and soft drilling from 18 to 28 ft | 50/4", 24, 26, 28 |
| | | | | | | -17.3 | |
| | | | same as above | | 7 | SPT; SM; silty sand with gravel; Moisture=22% | 50/3", 30, 32 |

(continued)

Hole No. CP05-EAARS-CB-0373

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.7 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -21.7 | 33.4 | | | | | -21.7 | |
| | | | SAND: white, fine grained, calcitic and quartz, little silt, trace fine gravel, odor (sulphides), medium dense | | | -22.3 | |
| | | | | | 8 | SPT; SP; poorly graded sand; Moisture=26%; Drill bit chattering from 30 to 34 ft; then relatively easy drilling | 11<br>8<br>8 |
| -23.8 | 35.5 | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0373 |

Hole No. CP05-EAARS-CB-0374

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758239.4, E765844.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0374 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/1/2005 Completed 9/1/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.4 | 0.0 | | | | | | |
| | | | SAND: brown grey, fine to medium gradation, little silt, little fine to coarse gravel, subangular, dry, medium dense (FILL) | | 1 | 11.4 SPT 9.4 | 8, 7, 14 |
| | | | same as above | | 2 | SPT 7.4 | 11, 6, 5 |
| | | | SAND: grey brown, fine to medium gradation, little gravel, clay in seams, shells, moderately dense, moist | | 3 | SPT 5.9 | 3, 14, 30 |
| 5.9 | 5.5 | | | | | | |
| | | | LIMESTONE: light tan-grey with rust staining, hard, moderately strong, fine to coarse grained, fossiliferous, slightly porous | 53 (RQD 26%) | 1 | HQ coring 0.9 | |
| | | | LIMESTONE: grey to white, medium to coarse grained, fossiliferous, very vuggy, moderately hard to soft, moderately strong to weak, very porous to porous | | | | |
| | | | | 10 (RQD 0%) | 2 | HQ coring; weakly cemented sand and gravel | |

0 2 4 6 8 10 12 14

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.6 | 15.0 | | | | | -3.6 | |
| -4.1 | 15.5 | | | | | -4.1 | |
| | | | SAND: white to grey, calcitic, fine to coarse grained, little silt, little to some fine grade, subangular to subrounded, loose | | 4 | SPT | 3, 5, 4 |
| | | | | | | -7.6 | |
| | | | SAND: grey to white, calcitic, fine to coarse grained, little fine gravel, little fine quartz sand, dense, subrounded to subangular | | 5 | SPT | 20, 18, 18 |
| | | | | | | -12.6 | |
| | | | | | 6 | SPT | 25/0" |
| | | | | | | -17.6 | |
| | | | SAND: grey to white, calcitic, fine to medium graded, trace fine gravel, little fine quartz sand, subangular to subrounded, little shells, little to trace silt, loose, moist and wet, loose to medium dense | | 7 | SPT; much easier drilling below 27 ft | 16, 5, 5 |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0374

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.0 | 33.4 | | | | | -22.0 | |
| | | | Same as above | | | -22.6 | |
| | | | | | 8 | SPT | 3 |
| | | | | | | | 5 |
| -24.1 | 35.5 | | | | | | 7 |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34
36
38
40
42
44
46
48
50

Hole No. CP05-EAARS-CB-0375

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N762103.3, E763178.5 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0375 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/6/2005 Completed 9/6/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.2 | 0.0 | | | | | | |
| 7.7 | 3.5 | | ROADFILL: Not sampled. | | | | |
| 6.7 | 4.5 | | PEAT: Not sampled. | | | 6.7 | |
| 2.7 | 8.5 | | LIMESTONE (Caprock): tan to light gray, granular, grading hard to medium soft from top to bottom of the layer, fractured, moldic, vuggy, some fractures filled with calcereous sand. | 58 (RQD 28%) | 1 | HQ coring | |
| | | | SAND: light gray, loose, fineto coarse grained, well graded, angular, trace of limestone gravel. | | | 1.7 | |
| | | | | | 1 | SPT | 13, 5, 3 |
| | | | Grades more (some) calcereous gravel. | | | -2.8 | |
| | | | | | 2 | SPT | 5, 6 |

(continued)

Hole No. CP05-EAARS-CB-0375

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.2 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.8 | 15.0 | | | | | -3.8 | |
| | | | Grades to very dense. | | | | 4 |
| | | | | | | | 16 |
| | | | | | | | 18 |
| | | | | | | -7.8 | |
| | | | | | 3 | SPT | 10 |
| | | | | | | | 10 |
| | | | | | | | 41 |
| | | | | | | | 20 |
| | | | | | | | 22 |
| -12.3 | 23.5 | | | | | | |
| | | | Grades more gravel, medium dense. | | | -12.8 | |
| | | | | | 4 | SPT | 15 |
| | | | | | | | 10 |
| | | | | | | | 10 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| | | | | | | | 28 |
| -17.3 | 28.5 | | | | | -17.3 | |
| | | | SAND (Caloosahatchee Formation): gray, medium dense, poorly graded, fine grained, quartz, trace tan shell. | | | -17.8 | |
| | | | | | 5 | Caloosahatchee Formation SPT | 5 |
| | | | | | | | 6 |
| | | | | | | | 7 |
| | | | | | | | 30 |
| | | | | | | | 32 |
| | | | Grades more (some) tan shell - medium grained, subangular. | | | | |

(continued)

Hole No. CP05-EAARS-CB-0375

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.2 | Sheet 3 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.2 | 33.4 | | | | | -22.2 | |
| | | | | | | -22.8 | |
| | | | | | | | 8 |
| | | | | | 6 | SPT | 8 |
| -24.3 | 35.5 | | | | | | 8 |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

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PROJECT: EAA Reservoir A-1 | HOLE NUMBER: CP05-EAARS-CB-0375

Hole No. CP05-EAARS-CB-0376

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758795.1, E760203.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0376 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/2/2005 Completed 9/2/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.5 | 0.0 | | | | | | |
| 6.0 | 1.5 | | Black to light | | 1 | 7.5 SPT | 8, 8, 5 |
| 3.0 | 4.5 | | SAND: grey-white, calcitic, fine to medium grained, subangular to subrounded, little to trace fine gravel, trace to little silt, clay, medium dense, moist | | 2 | 5.5 SPT | 14, 7, 7 |
| -1.5 | 9.0 | | LIMESTONE: white, medium to coarse grained, porous, moderately hard, moderately strong, thinly bonded, vuggy, fossileferous | 73 (RQD 73%) | 1 | 3.0 SPT; refusal at 4.5 ft- top of caprock HQ coring | 4, 50/4" |
| | | | SAND: white, fine to medium grained, little fine gravel, calcitic, shelly, subangular to subrounded, moist, medium dense | | 4 | -2.0 SPT | 2, 4, 7 |
| | | | Same as above, except trace fine quartz sand, very dense | | 5 | -6.5 SPT; Hard drilling, bit | 16, 50/6" |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0376

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.5 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.5 | 15.0 | | | | | -7.5 | |
| | | | | | | chattering from 16 ft to 22 ft | 16 |
| | | | | | | | 18 |
| | | | | | | -11.5 | |
| | | | Same as above | | | | 50/6" |
| | | | | | 6 | SPT | 20 |
| -14.5 | 22.0 | | | | | | |
| | | | GRAVEL: grey, fine to coarse gradation, calcitic, angular to subangular, little fine to medium sand, little silt, trace fine quartz, sand at the top of the spoon | | | | 22 |
| | | | | | | -16.5 | |
| | | | | | | | 23 |
| | | | | | 7 | SPT | 33 |
| | | | | | | | 15 |
| | | | | | | | 24 |
| | | | | | | | 26 |
| -19.5 | 27.0 | | | | | -19.5 | |
| | | | SAND: light grey to brown, fine graded, quartzetic, little to trace shells, trace silt, medium to dense, moist | | | | |
| | | | | | | Strata change at 27 ft | 28 |
| | | | | | | -21.5 | |
| | | | | | | | 4 |
| | | | | | 8 | SPT | 7 |
| | | | | | | | 12 |
| | | | | | | | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0376

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.5 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -25.9 | 33.4 | | | | | -25.9 | |
| | | | | | | -26.5 | |
| | | | | | 9 | SPT | 8 / 13 / 10 |
| -28.0 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0376 |

Hole No. CP05-EAARS-CB-0377

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N756371, E773911.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0377 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/6/2005 Completed 9/6/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.4 | 0.0 | | | | | | |
| 7.9 | 3.5 | | ROADFILL: Not sampled. | | | | |
| 5.9 | 5.5 | | PEAT: Not sampled | | | | |
| | | | LIMESTONE (Caprock): tan to light orange, hard, fractured, dense, granular, vuggy, fractures filled with gray silt, becomes softer with increasing depth. | 60 (RQD 40%) | 1 | HQ coring; UCS=3880psi | |
| | | | Grades tan to gray, hard, less fractured and vuggy. | 40 (RQD 20%) | 2 | HQ coring; UCS=2250psi | |
| -3.1 | 14.5 | | Gravelly SAND: gray, medium dense. | | | | |

5.9

0.9

0 2 4 6 8 10 12 14

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.6 | 15.0 | | | | | -3.6 | |
| | | | well graded, angular, calcereous, some shell and silt. | | | -4.1 | |
| | | | | | 1 | SPT; SM; silty sand with gravel; Moisture=18% | 4, 1, 23 |
| -7.1 | 18.5 | | SAND: same as above but grades light gray and loose. Gravel grades out. | | | -7.6 | |
| | | | | | 2 | SPT; SM; silty sand; Moisture=26% | 6, 3, 3 |
| -11.1 | 22.5 | | Grades same as Gravelly Sand above, but with less (trace) silt. | | | -12.6 | |
| | | | | | 3 | SPT; SM; silty sand with gravel; Moisture=19% | 44, 16, 12 |
| -16.1 | 27.5 | | Grades same as Sand above, but gray and very dense. | | | -17.6 | |
| | | | | | 4 | SPT; SM; silty sand; Moisture=15% | 21, 17, 50/0" |
| -21.1 | 32.5 | | Sandy GRAVEL (Caloosahatchee Formation): gray to dark gray, very | | | -21.1 | |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0377

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.4 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.0 | 33.4 | | | | | -22.0 | |
| | | | dense, well graded, angular, calcereous, some shell and quartz sand. | | | -22.6 Caloosahatchee Formation | 50/6" |
| | | | | | 5 | SPT | |
| -24.1 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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Hole No. CP05-EAARS-CB-0378

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N758504.9, E760564.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0378 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/9/2005 Completed 9/9/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.9 | 0.0 | | | | | | |
| 7.4 | 3.5 | | FILL: Not sampled. | | | | |
| 4.9 | 6.0 | | PEAT: Not sampled. | | | 4.9 | |
| 1.4 | 9.5 | | LIMESTONE (Caprock): brown to gray, medium hard, fractured, fossiliferous, crystalline. Grades light brown, medium soft, oolitic, granular. | 64 (RQD 35%) | 1 | HQ coring; soft coring at 9.5 ft | |
| -1.6 | 12.5 | | Gravelly SAND: gray to tan, very loose, well graded, calcereous, subangular, with some silt. | | 1 | -0.1 SPT | 1 1 1 |
| | | | End of Boring at 12.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

(continued)

Hole No. CP05-EAARS-CB-0378

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.9 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.1 | 15.0 | | | | | -4.1 | |
| | | | | | | 2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0378 |

Hole No. CP05-EAARS-CB-0379

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N769312.2, E775409.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0379 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/7/2005 Completed 9/7/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 13.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 6.5 | 1.5 | | Not Sampled. | | | 6.5 | |
| | | | LIMESTONE (Caprock): light gray to pale white, hard, fine to medium grained, quite porous, shelly. | 16 (RQD 0%) | 1 | HQ coring | |
| | | | | | | 1.5 | |
| | | | | | 1 | SPT | 18, 50/1" |
| | | | Grades moderately hard. Intermittant cemented sand layers. | | | 0.0 | |
| -1.5 | 9.5 | | | 54 (RQD 8%) | 2 | HQ coring; Caprock has cemented sand layers; One piece - 0.4 ft | |
| | | | SAND: greenish gray, medium dense, poorly graded, medium to coarse grained angular calcitic sand, wet. | | | -4.0 | |
| | | | | | 2 | SPT | 4, 6, 21 |
| -5.5 | 13.5 | | | | | | |
| | | | End of Boring at 13.5' | | | | |

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(continued)

Hole No. CP05-EAARS-CB-0379

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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Hole No. CP05-EAARS-CB-0380

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750090.8, E763879.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0380 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/17/2005 Completed 8/17/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.6 | 0.0 | | | | | | |
| 9.6 | 2.0 | | Road fill material | | 1 | 11.6 SPT 9.6 | 7, 3, 6 |
| 7.6 | 4.0 | | Peat (muck layer) | | 2 | 7.6 SPT | 2, 2, 2 |
| 3.6 | 8.0 | | Broken Limestone - Top caprock | | 3 | 6.1 SPT | 2, 11, 8 |
| 1.6 | 10.0 | | Soft 8 to 10 ft | 88 (RQD 20%) | 1 | 1.6 HQ coring; 5.5 ft-top of caprock | |
| -0.4 | 12.0 | | Hit hard layer again, 10 ft to 12 ft | 88 (RQD 50%) | 2 | HQ coring | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0380

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.6 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.4 | 15.0 | | | | | -3.4 | |
| | | | | | | x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0380 |

# APPENDIX 2

# SUPPLEMENTAL BORINGS AND PIEZOMETER INSTALLATION LOGS: 381-419

Hole No. CP05-EAARS-CB-0381

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N773961, E760078.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0381 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/11/2005 Completed 8/11/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.5 | 0.0 | | | | | | |
| 2.5 | 5.0 | | LIMESTONE: light brown to white, hard, fine to medium grained, quite porous, shelly | 38 (RQD 0%) | 1 | 7.5 / 2.5 | |
| -2.5 | 10.0 | | Cemented SAND: light grey, fine to medium grained, shells present | 1 (RQD 0%) | 2 | | |
| | | | End of Boring at 10' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0381 |

Hole No. CP05-EAARS-CB-0382

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750597.1, E783999.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0382 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/24/2005 Completed 8/24/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 15 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 6.5 | 1.5 | | GRAVEL: tan gray, dense, fine to coarse grained, dense, subangular, trace silt, trace fine to coarse sand, well graded, subangular to subrounded. | | 1 | 8.0 SPT 6.0 | 20, 28, 23 |
| 4.5 | 3.5 | | PEAT: black, fibrous, moist, trace fine to medium calcitic sand. | | 2 | SPT 4.0 | 6, 5, 3 |
| 2.5 | 5.5 | | GRAVEL: Grades as Gravel above, but angular to subangular. | | 3 | SPT 2.5 | 10, 16, 30 |
| 0.0 | 8.0 | | GRAVEL (Caprock): grades as above. | 5 (RQD 0%) | 1 | HQ coring; 5.5 ft- top of Caprock -2.0 | |
| -7.0 | 15.0 | | LIMESTONE: tan white to white, soft to moderately hard, fine to medium grained, slightly porous, fossiliferous, weathered. | 30 (RQD 26%) | 2 | HQ coring; broke through at 15 ft, softer soil below caprock | |

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(continued)

Hole No. CP05-EAARS-CB-0382

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |
| | | | End of Boring at 15' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0382 |

Hole No. CP05-EAARS-CB-0383

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N773629.4, E757955 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0383 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/16/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 11.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.1 | 0.0 | | | | | | |
| 7.6 | 1.5 | | Peat, black, organic | | | 7.6 | |
| 2.6 | 6.5 | | LIMESTONE: pale white to light grey, hard, fine grained, porous, shelly | 38 (RQD 20%) | 1 | HQ coring; easy coring all the way<br>2.6 | |
| -2.4 | 11.5 | | No recovery | 0 (RQD 0%) | 2 | HQ coring | |
| | | | End of Boring at 11.5' | | | | |

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NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0383 |

Hole No. CP05-EAARS-CB-0384

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N757724.6, E783603.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0384 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.6 | 0.0 | | | | | | |
| 5.6 | 2.0 | | PEAT: Not sampled. | | | 5.6 | |
| -0.9 | 8.5 | | LIMESTONE (Caprock): light gray, hard, fine to medium grained, quite porous, fossiliferous, shelly. | 24 (RQD 10%) | 1 | HQ coring; 1 piece - 0.5 ft<br>0.6 | |
| -4.4 | 12.0 | | No recovery | 24 (RQD 0%) | 2 | HQ coring | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0384 |

Hole No. CP05-EAARS-CB-0384

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.6 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.4 | 15.0 | | | | | -7.4 | |
| | | | | | | x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0384 |

Hole No. CP05-EAARS-CB-0385

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N764205.7, E772656.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0385 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.9 | 0.0 | | | | | | |
| 5.9 | 2.0 | | PEAT: Not sampled. | | | 5.9 | |
| 1.9 | 6.0 | | LIMESTONE (Caprock): white to light gray, hard, fine to medium grained, moderately porous, shell fragments. | 16 (RQD 0%) | 1 | HQ coring | |
| | | | Only one small piece of limestone recovered | | | 0.9 | |
| -4.1 | 12.0 | | | 2 (RQD 0%) | 2 | HQ coring | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0385

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 7.9 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.1 | 15.0 | | | | | -7.1 | |
| | | | | | | x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0385 |

Hole No. CP05-EAARS-CB-0386

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N764152.1, E761782.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0386 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 6.1 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.4 | 0.0 | | | | | | |
| 7.3 | 1.1 | | PEAT: not sampled. | | | 7.3 | |
| 5.4 | 3.0 | | LIMESTONE (Caprock): tan to light brown and gray, thinly bedded, fine to coarse grained, fossiliferous, vuggy to porous, hard and strong to moderately hard and moderately strong. | 36 (RQD 7%) | 1 | HQ coring; soft from 2.2 to 2.6 ft, soft at 3 ft; core sample for testing from 1.3 to 1.8 ft | |
| 2.3 | 6.1 | | No recovery | | | | |
| | | | End of Boring at 6.1' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0386 |

Hole No. CP05-EAARS-CB-0387

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N772246.4, E775085.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0387 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/24/2005 Completed 8/29/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 16.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 16.3 | 0.0 | | | | | | |
| | | | Rotary wash. Not sampled. | | | | |
| 14.3 | 2.0 | | | | | 14.3 | |
| | | | LIMESTONE: light brown to pale white, hard, fine to medium grained, quite porous | 28 (RQD 8%) | 1 | HQ coring; very hard coring from 2 to 7.5 ft | |
| | | | | | | 9.3 | |
| 8.8 | 7.5 | | | | | | |
| | | | Few pieces of coral and a couple of pieces of limestone recovered | 12 (RQD 0%) | 2 | HQ coring; hard coring from 9.5 to 10.5 ft | |
| 6.8 | 9.5 | | | | | | |
| 5.8 | 10.5 | | | | | | |
| | | | No recovery | | | | |
| 4.3 | 12.0 | | | | | | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0387

| DRILLING LOG (Cont. Sheet) | Elevation Top of Hole: 16.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 1.3 | 15.0 | | | | | 1.3 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0388

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N773937.1, E759316.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0388 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/12/2005 Completed 8/12/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.6 | 0.0 | | | | | | |
| 2.6 | 5.0 | | LIMESTONE: greenish grey to pale whit, hard, fine to medium grained, quite porous, shells present<br><br>Little Peat recovered | 38 (RQD 13%) | 1 | 7.6<br>HQ Coring; UCS=2119psi; around 8" of hard coring<br>2.6 | |
| -2.4 | 10.0 | | Cemented SAND: pale white, dense, fine to coarse grained, subangular | 24 (RQD 14%) | 2 | HQ Coring; 7.5 to 9.5 ft hard coring | |
| | | | End of Boring at 10' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0388 |

Hole No. CP05-EAARS-CB-0389

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N783425.5, E761054.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0389 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 13 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 5.0 | 3.0 | | Not Sampled | | | 5.0 | |
| 2.9 | 5.1 | | LIMESTONE (Caprock): white, hard, fine to medium grained, quite porous, shells present. | 42 (RQD 28%) | 1 | HQ coring; 1 piece each of 0.85 ft and 0.55 ft recovered | |
| -5.0 | 13.0 | | No recovery | 0 (RQD 0%) | 2 | 0.0<br>HQ coring; very easy coring | |
| | | | End of Boring at 13' | | | | |

NOTES:
1. Soils are field visually classified

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0389 |

Hole No. CP05-EAARS-CB-0389

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |
| | | | | | | in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE
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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0389 |

Hole No. CP05-EAARS-CB-0390

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N782077.2, E757968.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0390 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.2 | 0.0 | | | | | | |
| 7.7 | 0.5 | | Not sampled | | | 7.7 | |
| | | | LIMESTONE (Caprock): hard to moderately hard, fine to medium grained, shelly. | 68 (RQD 20%) | 1 | HQ coring; 1 piece each of 0.65 ft and 0.35 ft recovered; caprock - 5.5 ft | |
| | | | At 5.5 ft, grades as above with fine to coarse grained, and vuggy. | | | 2.7 | |
| 2.2 | 6.0 | | No recovery | 12 (RQD 0%) | 2 | HQ coring | |
| -2.3 | 10.5 | | End of Boring at 10.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0391

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750104.5, E768244.7 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0391 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/19/2005 Completed 8/19/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.5 | 0.0 | | | | | | |
| | | | Road fill material | | 1 | 10.5 SPT 8.5 | 24, 16, 18 |
| | | | Grey / black road fill material | | 2 | SPT 6.5 | 12, 6, 12 |
| 6.5 | 4.0 | | | | | | |
| | | | Peat/sand/silt | | 3 | SPT 5.0 | 4, 3, 50/5" |
| 5.0 | 5.5 | | | | | | |
| | | | Caprock: LIMESTONE | 40 (RQD 20%) | 1 | HQ coring; 5.5 ft of caprock 0.0 | |
| 3.0 | 7.5 | | | | | | |
| | | | Light brown soft sand, shell, silt | | 4 | SPT; hard at 12 ft | 5, 12, 36 |
| -1.5 | 12.0 | | | | | | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0391

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.5 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.5 | 15.0 | | | | | -4.5 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0392

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N774439.9, E759698.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0392 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/12/2005 Completed 8/12/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 3.5 | 4.5 | | LIMESTONE: light grey, hard, fine grained, porous, shelly | 48 (RQD 30%) | 1 | 8.0 HQ Coring; UCS=1805psi; hard coring from 0 to 4.5 ft | |
| -2.0 | 10.0 | | No recovery | 0 (RQD 0%) | 2 | 3.0 | |
| | | | End of Boring at 10' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0392 |

Hole No. CP05-EAARS-CB-0393

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N773687.1, E761788.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0393 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/16/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 7.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.4 | 0.0 | | | | | | |
| 7.1 | 0.3 | | 0.3' of grey cemented sand recovered | | | 7.4 | |
| | | | 0.8' of limestone, pale white, moderately hard, highly porous, fine to medium grained, shelly<br>Caprock mostly moderately hard porous limestone | 40 (RQD 22%) | 1 | HQ coring | |
| | | | Few Limestone chips | | | 2.4 | |
| 1.4 | 6.0 | | | 6 (RQD 0%) | 2 | HQ coring | |
| | | | One piece of cemented sand with shells | | | | |
| -2.6 | 10.0 | | | | | | |
| | | | End of Boring at 10' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0393 |

Hole No. CP05-EAARS-CB-0394

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N776821.9, E772809.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0394 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.9 | 0.0 | | | | | | |
| | | | Not Sampled | | | | 0 |
| 7.9 | 2.0 | | | | | 7.9 | |
| | | | LIMESTONE (Caprock): gray to white, hard, vuggy, shelly, fossiliferous, fine to medium grained. | 50 (RQD 15%) | 1 | HQ coring; one piece of 0.75 ft recovered | 2, 4, 6 |
| | | | | | | 2.9 | |
| 0.9 | 9 0 | | | 38 (RQD 15%) | 2 | HQ coring; one piece of 0.75 ft recovered; caprock around 7 ft thick | 8 |
| | | | No recovery | | | | 10 |
| -2.1 | 12.0 | | | | | | 12 |
| | | | End of Boring at 12' | | | | 14 |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0394

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.1 | 15.0 | | | | | -5.1 | |
| | | | | | | x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0394 |

Hole No. CP05-EAARS-CB-0395

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N763476.7, E781637.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0395 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/29/2005 Completed 8/29/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 40 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.2 | 0.0 | | | | | | |
| 9.7 | 1.5 | | GRAVEL (FILL): brown gray, fine to coarse grained, subangular to subrounded, trace fine to medium grained sand, trace silt. | | 1 | 11.2 SPT 9.2 | 12, 9, 3 |
| 6.2 | 5.0 | | PEAT: black, very loose, moist, trace fine to medium grained sand, trace gravel. | | 2 | SPT 7.2 | 1, 2, 2 |
| | | | | | 3 | SPT 5.2 | 2, 2, 9 |
| 3.2 | 8.0 | | SAND: brown, medium dense, some silt, trace fine to coarse gravel, trace organics (Peat fibers). | | 4 | SPT; probable change between 7.5 and 8.0 ft 3.2 | 2, 8, 3 |
| | | | LIMESTONE (Caprock): white, fine to coarse grained, porous, vuggy, moderately hard and moderately brittle to friable and weak, intermittant cemented sands. | 36 (RQD 20%) | 1 | HQ coring -1.8 | |
| | | | | 18 (RQD 13%) | 2 | HQ coring; broke through at 18 ft | |

0 2 4 6 8 10 12 14

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0395 |

Hole No. CP05-EAARS-CB-0395

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.2 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -3.8 | 15.0 | | | | | -3.8 | |
| -6.8 | 18.0 | | | | | -6.8 | 16 |
| | | | SAND: white, medium dense, fine to coarse grained, calcitic, angular to subangular, trace to some silt, trace fine gravel. | | | -8.8 | 18 |
| | | | | | 5 | SPT | 3, 10, 8 — 20, 22 |
| -11.8 | 23.0 | | | | | -12.8 | |
| | | | SAND: white, dense, fine to medium grained calcitic sand, angular to subangular, trace to some fine quartz sand, trace silt, trace fine gravel.<br><br>Sand getting progressively denser with depth. | | 6 | SPT; possible change at 23 ft; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | 2, 7, 27 — 24, 26 |
| | | | | | | -15.8 | |
| | | | | | | sands and gravel, seems to be getting harder with depth | 28 |
| -18.8 | 30.0 | | | | | -18.8 | |
| | | | LIMESTONE: gray brown, fine to coarse grained, hard, weak to moderately strong, fossiliferous, porous. | 29 (RQD 13%) | 3 | HQ coring; whackstone in the upper 3.5 ft of sample run | 30, 32 |

(continued)

Hole No. CP05-EAARS-CB-0395

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 11.2 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.2 | 33.4 | | | | | -22.2 | |
| | | | Grades as above with light gray to tan white color. | | | -23.8 | |
| -25.8 | 37.0 | | | 40 (RQD 24%) | 4 | HQ coring | |
| | | | No recovery | | | | |
| -28.8 | 40.0 | | | | | | |
| | | | End of Boring at 40' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0395 |

Hole No. CP05-EAARS-CB-0396

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N770099.6, E777060.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0396 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/29/2005 Completed 8/30/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.9 | 0.0 | | | | | | |
| 6.9 | 3.0 | | Rotary wash drilling. Not sampled. | | | 6.9 | |
| 2.7 | 7.3 | | LIMESTONE: white to light grey, hard, fine to medium grained, shelly, vuggy | 80 (RQD 28%) | 1 | HQ coring; 2 pieces of 4.5" and 1 piece of 5" recovered | |
| 1.9 | 8.0 | | Cemented sand | | | 1.9 | |
| | | | Not sampled | | | 8 to 25 ft - rotary wash drilling; no hard layer encountered. Not sampled. | |
| | | | Not sampled | | | | |

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(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0396 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -5.1 | 15.0 | | | | | -5.1 | |
| | | | Not sampled | | | | 16 |
| | | | | | | | 18 |
| | | | | | | | 20 |
| | | | Not sampled | | | | 22 |
| | | | | | | | 24 |
| -15.1 | 25.0 | | | | | -15.1 | |
| | | | Few pieces of cemented sand: olive grey, hard, fine to coarse grained, shelly One small limestone chip recovered | 11 (RQD 0%) | 2 | HQ coring | 26 |
| | | | | | | | 28 |
| | | | | | | -20.1 | |
| | | | Cemented SAND with shells, olive grey, moderately hard, fine to coarse grained, rounded quartz present | 26 (RQD 10%) | 3 | HQ coring; 1 piece of 0.5 ft recovered; Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation at 30 ft | 30 |
| | | | | | | | 32 |

(continued)

Hole No. CP05-EAARS-CB-0396

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9.9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -23.5 | 33.4 | | | | | -23.5 | |
| -25.1 | 35.0 | | | | | | |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0396 |

Hole No. CP05-EAARS-CB-0397

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N757685.2, E774781.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-45B |
| 4. Hole No: CP05-EAARS-CB-0397 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 8.0 | 0.0 | | | | | | |
| 6.0 | 2.0 | | PEAT: Not sampled. | | | 8.0<br>2 ft of peat<br>6.0 | |
| 0.5 | 7.5 | | LIMESTONE (Caprock): tan brown to white, hard, fine grained, slightly porous, shelly, fossiliferous.<br>Intermittant cemented sand seams.<br>Grades weak to moderately hard, fine to medium grained and vuggy at 7.0. | 24 (RQD 8%) | 1 | HQ coring; 1 piece of 0.4 ft recovered<br>1.0 | |
| -4.0 | 12.0 | | No recovery | 6 (RQD 0%) | 2 | HQ coring; caprock was around 5 ft thick with intermediate layers of softer cemented sands | |
| | | | End of Boring at 12' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. | |

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(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0397 |

Hole No. CP05-EAARS-CB-0397

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -7.0 | 15.0 | | | | | -7.0 | |
| | | | | | | x 2" O.D.) | |

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MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0397 |

Hole No. CP05-EAARS-CB-0398

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750736.6, E791146 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0398 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/24/2005 Completed 8/24/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 17 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.3 | 0.0 | | | | | | |
| | | | GRAVEL: brown, fine to coarse gravel, angular, dry, little fine to medium sand, little silt, subangular to subrounded | | 1 | 10.3 SPT 8.8 | 12, 38, 22 |
| 8.3 | 2.0 | | | | 2 | SPT 6.8 | 4, 2, 1 |
| | | | PEAT: black, fibrous, moist, soft, trace fine to medium calcitic sand, subangular to subrounded | | 3 | SPT 5.3 | 50/2" |
| 5.3 | 5.0 | | | | | | |
| | | | LIMESTONE: grey to white, fine to coarse grained, fossiliferous, moderately strong, hard to weak and friable, thinly bedded | 25 (RQD 0%) | 1 | HQ coring 3.3 | |
| | | | LIMESTONE: tan grey, fine to medium grained, fossiliferous, moderately strong, hard to weak, friable, porous to slightly porous, thinly bedded | 60 (RQD 45%) | 2 | HQ coring; UCS=2100psi -1.7 | |
| -2.2 | 12.5 | | LIMESTONE: fine grained, vuggy, porous to slightly porous, moderately strong, slightly friable to hard | | | | |
| | | | No recovery | 29 (RQD 19%) | 3 | HQ coring; UCS=1040psi | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0398 |

Hole No. CP05-EAARS-CB-0398

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.7 | 15.0 | | | | | -4.7 | |
| -6.7 | 17.0 | | | | | | |
| | | | End of Boring at 17' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0398 |

Hole No. CP05-EAARS-CB-0399

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750087.5, E758686.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0399 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/12/2005 Completed 9/12/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 13.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 13 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 13.7 | 0.0 | | | | | | |
| | | | ROADFILL: Not sampled. | | | 13.7 Wash / drilled down to top of caprock | 0, 2, 4 |
| 7.7 | 6.0 | | | | | 7.7 | |
| | | | LIMESTONE (Caprock) | 67 (RQD 19%) | 1 | HQ coring | 6, 8 |
| | | | LIMESTONE: Broken peices recovered from coring between 9.0 and 13.0. | 31 (RQD 13%) | 2 | 4.7 HQ coring; very soft from 11 to 12 ft | 10 |
| 2.7 | 11.0 | | | | | | |
| | | | Softer material (sand) from 11.0 to 12.0 | | | | |
| 1.7 | 12.0 | | | | | | 12 |
| 0.7 | 13.0 | | | | | | |
| | | | End of Boring at 13' | | | | 14 |

NOTES:
1. Soils are field visually classified

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0399 |

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.7 | Sheet 2 of 2 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -1.3 | 15.0 | | | | | -1.3 | |
| | | | | | | in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0400

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N764134.7, E758499.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0400 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/8/2005 Completed 9/8/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.7 | 0.0 | | | | | | |
| | | | ROADFILL: Not sampled. | | | | |
| 7.7 | 3.0 | | | | | | |
| | | | PEAT: Not sampled. | | | | |
| 6.7 | 4.0 | | | | | 6.7 | |
| | | | LIMESTONE (Caprock): olive brown, hard, vuggy, fossiliferous, with shells, fractured, angular and granular. | 40 (RQD 0%) | 1 | HQ coring; soft coring from 6.5 to 8 ft; hard from 8 to 9 ft | |
| 4.2 | 6.5 | | | | | | |
| | | | LIMESTONE: olive brown, medium soft, oolitic, granular, fractured. | | | | |
| 2.7 | 8.0 | | | | | | |
| | | | Grades to medium hard. | | | | |
| 1.7 | 9.0 | | | | | 1.7 | |
| | | | Grades to tan gray, medium soft, with shell hash. | 45 (RQD 16%) | 2 | 1.7 SPT HQ coring; cavities are probably filled with fine sediment | 50/1" |
| -3.3 | 14.0 | | | | | | |
| | | | Grades to dark brown, fossiliferous, vuggy, fractured, voids filled with silty sediments, shell hash grades out. | | | -4.3 | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0400 |

Hole No. CP05-EAARS-CB-0400

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.3 | 15.0 | | | | | -4.3 | |
| -5.3 | 16.0 | | Grades tan, oolitic. | 80 (RQD 25%) | 3 | HQ coring | 16 |
| -7.3 | 18.0 | | Grades dark gray to brown, medium soft to medium hard, very fossiliferous, with shell hash, some quartz sand. | | | -7.3 | 18 |
| | | | | | | Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |
| | | | | | | -9.3 | 20 |
| -11.3 | 22 0 | | | 20 (RQD 0%) | 4 | HQ coring; retreived sand from the core barrel | |
| -13.3 | 24 0 | | SAND: gray, fine grained, uniform, trace shell fragments | | | | 22 |
| -16.8 | 27 5 | | LIMESTONE: as from 18.0 to 22.0 | | | -14.3 | 24 |
| | | | | | | | 26 |
| | | | SAND: gray, medium dense, uniform, fine grained, subangular, interbedded with thin layers of tan sandy and soft limestone. | | | -18.3 | 28 |
| | | | | | 2 | SPT | 5 6 5 30 |
| | | | Grades loose with subangular quartz at 34 ft. | | | | 32 |

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0400 |

Hole No. CP05-EAARS-CB-0400

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.7 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.7 | 33.4 | | | | | -22.7 | |
| | | | | | | -23.3 | |
| | | | | | 3 | SPT | 4 / 4 / 3 |
| -24.8 | 35.5 | | | | | | |
| | | | End of Boring at 35.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0400 |

Hole No. CP05-EAARS-CB-0401

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N779797.4, E757729 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0401 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/18/2005 Completed 8/18/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.7 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 10 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.7 | 0.0 | | | | | | |
| 9.7 | 1.0 | | 1 foot of Sand | | | | |
| 5.7 | 5.0 | | 4 feet of Peat, black, organic | | | 5.7 | |
| 3.7 | 7.0 | | No recovery | 10 (RQD 0%) | 1 | HQ coring; hard coring from 7 to 8.5 ft | |
| 2.2 | 8.5 | | LIMESTONE: grey, hard, fine grained, quite porous | | | | |
| 0.7 | 10.0 | | No recovery | | | | |
| | | | End of Boring at 10' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0401 |

Hole No. CP05-EAARS-CB-0402

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750727.4, E791134.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0402 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/24/2005 Completed 8/24/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 15 ft | 19. Inspector: B. Levesque |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.8 | 0.0 | | | | | | |
| 9.3 | 1.5 | | GRAVEL: brown, fine to coarse graded, subangular, little fine to coarse sand, subrounded to subangular, little silt | | 1 | 10.8 SPT 9.3 | 16, 13, 23 |
| 7.8 | 3.0 | | PEAT: black, organic, fibrous, soft, moist, trace fine to medium calcitic sand, subrounded | | 2 | SPT 7.8 | 4, 2, 2 |
| 5.5 | 5.3 | | GRAVEL: brown to white, coarse graded, shelly, subangular to angular, little fine to medium sand, subangular to subrounded, trace silt | | 3 | SPT 6.3 | 4, 11, 12 |
| | | | | | 4 | 5.5 SPT | 5, 50/4" |
| 0.8 | 10.0 | | LIMESTONE: grey to white tan, fine to coarse grained, fossiliferous, whackstone, hard, non porous to slightly porous, thinly bedded<br>LIMESTONE: cemented sands, fine to coarse grained, weak, fibrous, friable<br>LIMESTONE: tan to white, fine to medium grained, moderately hard, strong, slightly vuggy, slightly porous | 44 (RQD 32%) | 1 | HQ coring; top of rock at 5.3 ft<br>0.8 | |
| -4.2 | 15.0 | | Very little recovery, believed to be very weak limestone and/or cemented sands and gravel<br>No recovery | 10 (RQD 0%) | 2 | HQ coring | |

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(continued)

Hole No. CP05-EAARS-CB-0402

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.2 | 15.0 | | | | | -4.2 | |
| | | | End of Boring at 15' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0402 |

Hole No. CP05-EAARS-CB-0403

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N761498.5, E760588.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0403 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/9/2005 Completed 9/9/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 11.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 11.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 11.1 | 0.0 | | | | | | |
| 7.1 | 4.0 | | FILL: Not sampled. | | | | |
| 6.1 | 5.0 | | PEAT: Not sampled. | | | 6.1 | |
| 1.1 | 10.0 | | LIMESTONE (Caprock): tan to light brown, crystalline, fractured, vuggy. Grades medium soft, sandy, granular. Grades medium hard. | 55 (RQD 25%) | 1 | HQ coring; coring became softer at 8.5 ft. 1.1 | |
| -0.4 | 11.5 | | Gravelly SAND: gray, dense, well graded, subangular, calcereous, with oolitic shell hash. | | 1 | SPT | 3, 13, 28 |
| | | | End of Boring at 11.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0403 |

Hole No. CP05-EAARS-CB-0404

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N776147.9, E757911 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0404 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/16/2005 Completed 8/16/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9.2 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 11.5 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.2 | 0.0 | | | | | | |
| 7.7 | 1.5 | | Peat: black, organic | | | 7.7 | |
| 2.7 | 6.5 | | LIMESTONE: pale white, hard, fine grained, quite porous, shells in sample | 42 (RQD 28%) | 1 | HQ coring<br>2.7 | |
| -2.3 | 11.5 | | Two pieces of limestone recovered, same as above<br>No recovery | 6 (RQD 0%) | 2 | HQ coring | |
| | | | End of Boring at 11.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0404 |

Hole No. CP05-EAARS-CB-0405

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N774996.3, E773717.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0405 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 10.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 10.6 | 0.0 | | | | | | |
| | | | ROADFILL: Not sampled. | | | | |
| 8.6 | 2.0 | | | | | | |
| | | | PEAT: Not sampled. | | | | |
| 6.6 | 4.0 | | | | | 6.6 | |
| | | | LIMESTONE (Caprock): tan gray, crystalline, dense, soft areas filled with gray silty clay, granular, fossiliferous, heavily fractured. | 45 (RQD 13%) | 1 | HQ coring; soft coring at 8 ft | |
| 2.6 | 8.0 | | | | | | |
| 1.6 | 9.0 | | | | | 1.6 | |
| | | | LIMESTONE: brown, medium hard, granular, fossiliferous, vuggy, fractured. | | | 1.2 | 50/5" |
| | | | | 34 (RQD 9%) | 2 | HQ coring; soft coring at 12 ft | |
| | | | Grades tan, hard, dense, crystalline and fractured at 11.0. | | | | |
| -1.4 | 12.0 | | | | | | |
| | | | Sandy SILT: light gray, firm, calcereous, well graded, some shell fragments and calcereous oolitic gravel. | | | -3.4 | |
| | | | | | | | 9 |
| | | | | | 2 | | 4 |

(continued)

Hole No. CP05-EAARS-CB-0405

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 2 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -4.4 | 15.0 | | | | | -4.4 | |
| | | | Grades as above with light gray to tan color and stiff. | | | -7.9 | 4, 16, 18 |
| | | | | | 3 | | 13, 7, 7, 20 |
| -11.9 | 22.5 | | | | | | 22 |
| | | | Sandy GRAVEL: dark gray with tan mottling, calcereous, granular, some light gray sandy silt as above. | | | -12.9 | |
| | | | | | 4 | -14.4 | 15, 35, 20, 24 |
| -16.9 | 27.5 | | | 10 (RQD 0%) | 3 | HQ coring | 26 |
| | | | LIMESTONE: tan brown to gray, sandy, granular, only broken fragments recoverd, fines washed away. | | | | 28 |
| -19.4 | 30.0 | | | | | -19.4 | |
| | | | No recovery from the core - fines washed away. | 0 (RQD 0%) | 4 | HQ coring; soft coring throughout run # 4 | 30, 32 |

(continued)

Hole No. CP05-EAARS-CB-0405

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 10.6 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -22.8 | 33.4 | | | | | -22.8 | |
| -24.4 | 35.0 | | | | | | |
| | | | End of Boring at 35' | | | NOTES:<br>1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0405 |

Hole No. CP05-EAARS-CB-0406

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N778276.9, E765846.2 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0406 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Ralph Smith | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/18/2005 Completed 8/19/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 35 ft | 19. Inspector: A.M. Noronha |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 9.0 | 0.0 | | | | | | |
| | | | Road fill material. Not sampled. | 46 (RQD 30%) | 1 | 9.0 HQ coring; hard coring from 2.5 to 5 ft; recovered 1 piece each of 0.6 ft, 0.35 ft and 0.55 ft | |
| 6.5 | 2.5 | | | | | | |
| | | | LIMESTONE: greenish grey, moderately hard to hard, fine to medium grained, porous, shelly | | | | |
| | | | LIMESTONE: pale white, hard, fine grained, quite porous | 52 (RQD 35%) | 2 | 4.0 HQ coring; very hard coring from 5 to 10 ft; recovered 1 piece each of 0.8 ft, 0.5 ft and 0.45 ft; caprock - 7.5 ft thick | |
| -1.0 | 10.0 | | | | | -1.0 | |
| | | | SAND: light grey, very loose, fine to medium grained, angular calcitic sand, wet, few small chips of limestone recovered | | 1 | SPT | 10, 3, 1 |
| | | | | | | -4.5 | |
| | | | SAND: light grey, very dense, fine to coarse grained, poorly graded, subangular calcitic sand, wet, quite silty | | 2 | SPT; around 8" of hard layer | 50/5" |

0 2 4 6 8 10 12 14

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -6.0 | 15.0 | | | | | -6.0 | |
| -9.5 | 18.5 | | Gravelly SAND: light grey, very dense, moderately graded, fine to coarse grained, subangular, wet | | 3 | SPT; spoon bouncing | 50/4" |
| -14.5 | 23.5 | | SAND: light brown, very dense, moderately graded, fine to coarse grained, subangular, wet | | 4 | SPT; SM; silty sand with gravel; Moisture=26%; shells present | 28, 27, 24 |
| | | | As above, but greenish grey color rounded quartz sand | | | -16.0 Caloosahatchee Formation or Pinecrest Sand of Tamiami Formation | |
| | | | Same as above - greenish grey | | 5 | -19.5 SPT | 41, 18, 50/2" |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0406

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 9 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -24.4 | 33.4 | | | | | -24.4 | |
| -26.0 | 35.0 | | SAND: greenish grey, medium dense, moderately graded, fine to coarse grained, subangular calcitic sand, rounded quartz, wet | | 6 | -24.5<br>SPT; SP-SM; poorly graded sand with silt and gravel; Moisture=26%; Hard drilling from 30 to 32.5 ft | 27<br>8<br>9 |
| | | | End of Boring at 35' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

Hole No. CP05-EAARS-CB-0407

| DRILLING LOG | Division: | Installation: | Sheet 1 of 3 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N756369.5, E786640.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0407 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 8/29/2005 Completed 8/29/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 13.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 38.5 ft | 19. Inspector: N. Holst |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 13.1 | 0.0 | | | | | | |
| 7.6 | 5.5 | | Drilled through road fill and peat without sampling | | | 7.6 | |
| 1.1 | 12.0 | | LIMESTONE: tan to light brown and light grey, thinly bedded, fossiliferous, fine to coarse grained, hard, strong and vuggy to soft, weak and porous<br><br>Soft drilling 8.0 ft to 9.4 ft. No good core for testing. | 50 (RQD 18%) | 1 | HQ coring; soft drilling from 8 to 9.4 ft; no good core for testing<br><br>2.6<br><br>Intermittent hard drilling from 10.5 to 16 ft | |
| | | | Intermittent hard drilling to 16 ft<br><br>Not Sampled | | | | |

0 2 4 6 8 10 12 14

(continued)

DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.1 | Sheet 2 of 3 Sheets

Project: EAA Reservoir A-1 | Installation

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -1.9 | 15.0 | | | | | -1.9 | |
| -2.9 | 16.0 | | | | | -2.9 | |
| | | | Easy drilling down to 28.5 ft where we started coring. Then intermittent hard coring to 31.0 ft. Then mostly hard coring from 31.0 ft to 33.0 ft | | | Easy drilling from 16 to 28.5 ft; Not sampled | |
| -15.4 | 28.5 | | | | | -15.4 | |
| | | | LIMESTONE: as above but very little is fine grained, hard and strong. Most recovery is moderately hard and moderately strong, porous. | 28 (RQD 14%) | 2 | HQ coring; intermittent hard coring to 31 ft; mostly hard coring from 31 to 33 ft; sample for testing 32.3 to 33 ft | |

16 18 20 22 24 26 28 30 32

(continued)

Hole No. CP05-EAARS-CB-0407

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 13.1 | Sheet 3 of 3 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| -20.3 | 33.4 | | | | | -20.3 | |
| -20.4 | 33.5 | | LIMESTONE: In last run (33.5 ft to 38.5 ft), all recovery is porous, moderately hard and moderately strong | 74 (RQD 48%) | 3 | -20.4<br>HQ coring; soft coring from 33 to 36 ft; then fairly hard from 36 to 38 ft; samples for testing: 35.2 to 35.7 ft, 35.7 to 37.2 ft and 38 to 38.5 ft<br>-22.9 | |
| | | | | | | Repeated problem with circulating water lines and the core barrel plugging up with sand caused the borehole to take a long time | |
| -25.4 | 38.5 | | | | | | |
| | | | End of Boring at 38.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

34 36 38 40 42 44 46 48 50

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0407 |

Hole No. CP05-EAARS-CB-0408

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N753566.5, E758489.8 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0408 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 22 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 16 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 22.0 | 0.0 | | | | | | |
| 20.0 | 2.0 | | Levee road material<br>Crushed rock / sand with some peat | | 1 | 22.0 SPT 20.0 | 30, 26, 12 |
| 18.0 | 4.0 | | Dark grey to grey sand with rock fragments | | 2 | SPT 18.0 | 12, 12, 9 |
| | | | Broken rock and peat and some fine sand | | 3 | SPT 16.0 | 6, 40, 50/2" |
| | | | Same as above | | 4 | SPT 14.0 | 4, 6, 10 |
| | | | Crushed limestone and sand; light grey | | 5 | SPT 12.0 | 8, 9, 13 |
| | | | same as above | | 6 | SPT 10.0 | 15, 15, 15 |
| | | | Rock | | 7 | SPT 8.0 | 10, 20, 50/0" |
| | | | Rock with large rock fragments | | 8 | SPT | 49, 50/2" |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0408

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 22 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.0 | 15.0 | | | | | 7.0 | |
| 6.0 | 16.0 | | | | | | |
| | | | End of Boring at 16' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16
18
20
22
24
26
28
30
32

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0408 |

Hole No. CP05-EAARS-CB-0409

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N757151, E758420.7 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0409 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 21.8 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 16 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 21.8 | 0.0 | | | | | | |
| | | | Top of west side levee road. Building material; broken rock and sand | | 1 | 21.8 SPT 19.8 | 22, 29, 27 |
| | | | Crushed rock and shell with some peat | | 2 | SPT 17.8 | 13, 21, 15 |
| | | | Crushed rock wih shell fragments; sand and drilling mud | | 3 | SPT 15.8 | 7, 9, 15 |
| | | | Finer crushed rocks; sand; silt with some dark peat and light brown | | 4 | SPT 13.8 | 13, 18, 22 |
| | | | Light grey with large rock fragments and sand | | 5 | SPT 11.8 | 35, 15, 29 |
| | | | Small rock fragments and peat mix with dark grey | | 6 | SPT 9.8 | 7, 9, 10 |
| | | | Grey rock fragments; sand | | 7 | SPT 7.8 | 6, 5, 5 |
| 7.8 | 14.0 | | Peat with sand; small rock fragments | | 8 | SPT; caprock | 3, 3 |

0 2 4 6 8 10 12 14

(continued)

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0409 |

Hole No. CP05-EAARS-CB-0409

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 21.8 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 6.8 | 15.0 | | | | | 6.8 | |
| | | | | | | | 4 |
| 5.8 | 16.0 | | | | | encountered at 15.3 ft | |
| | | | End of Boring at 16' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16 18 20 22 24 26 28 30 32

Hole No. CP05-EAARS-CB-0410

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N760726.5, E758352.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0410 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/12/2005 Completed 9/12/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 22.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 16 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 22.3 | 0.0 | | | | | | |
| | | | Levee road; rock; shell; sand; silt; dark grey | | 1 | 22.3 SPT 20.3 | 19, 15, 27 |
| | | | same as above | | 2 | SPT 18.8 | 15, 14, 19 |
| | | | | | 3 | SPT 16.3 | 41, 50/4" |
| 16.3 | 6.0 | | | | | | |
| | | | Crushed cemented sand; shells; grey light brown | | 4 | SPT 14.3 | 17, 15, 23 |
| | | | Crushed shell with sands; light grey | | 5 | SPT 12.3 | 8, 8, 20 |
| | | | Crushed shell with sand; silt; grey | | 6 | SPT 10.3 | 20, 11, 7 |
| | | | | | 7 | SPT 8.3 | 5, 11, 18 |
| | | | | | 8 | 7.3 SPT | 5, 29 |

(continued)

Hole No. CP05-EAARS-CB-0410

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 22.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 7.3 | 15.0 | | | | | 7.3 | |
| 6.3 | 16.0 | | | | | Caprock at 15.3' | 50/3" |
| | | | End of Boring at 16' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16 18 20 22 24 26 28 30 32

Hole No. CP05-EAARS-CB-0411

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N749946.9, E762685.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0411 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 18.4 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 18.4 | 0.0 | | | | | | |
| | | | Top of south levee road; large broken rock | | 1 | 18.4 SPT 16.4 | 26, 23, 21 |
| | | | Grey rock fragments; sand | | 2 | SPT 14.4 | 22, 17, 28 |
| | | | Light grey rock fragments with shell fragments; sand; some silt | | 3 | SPT 12.4 | 29, 17, 50 |
| | | | same as above; with large rock fragments | | 4 | SPT 10.4 | 16, 14, 15 |
| | | | same as above | | 5 | SPT 8.4 | 18, 50/6" |
| | | | Dark grey rock fragments with sand; silt; peat<br>Caprock at 10.5 ft;<br>Soil at 12 ft. | | 6 | SPT 6.9 | 2, 50/1" |
| 6.4 | 12.0 | | | | | | 50/0" |
| | | | End of Boring at 12' | | 7 | SPT | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0411

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 18.4 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 3.4 | 15.0 | | | | | 3.4 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0412

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N749972.9, E766641.9 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0412 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/14/2005 Completed 9/14/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 18.1 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 18.1 | 0.0 | | | | | | |
| | | | Levee road; building material<br>Grey fine sand with rock fragments | | 1 | 18.1<br>SPT<br>16.1 | 22<br>18<br>11 |
| | | | Grey fine sand with rock fragments | | 2 | SPT<br>14.1 | 15<br>10<br>7 |
| | | | Rock fragments; sand; peat | | 3 | SPT<br>12.1 | 9<br>5<br>12 |
| 12.1 | 6.0 | | | | | | |
| | | | Grey-tan fien sand with small rock fragments | | 4 | SPT<br>10.1 | 20<br>23<br>30 |
| 10.1 | 8.0 | | | | | | |
| | | | Tan/ brown/ grey rock fragments with fine sand | | 5 | SPT<br>8.1 | 12<br>28<br>31 |
| 8.1 | 10.0 | | | | | | |
| | | | Peat | | 6 | SPT; caprock encountered at 12 ft | 12<br>10<br>6 |
| 6.1 | 12.0 | | | | | | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

Hole No. CP05-EAARS-CB-0412

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 18.1 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 3.1 | 15.0 | | | | | 3.1 | |
| | | | | | | x 2" O.D.) | |

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0412 |

Hole No. CP05-EAARS-CB-0413

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N749995, E770595.3 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0413 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/14/2005 Completed 9/14/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 18.6 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 12 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 18.6 | 0.0 | | | | | | |
| | | | Grey fine sand; limestone fragments; silt | | 1 | 18.6 SPT 16.6 | 40, 49, 49 |
| | | | Same as above | | 2 | SPT 14.6 | 9, 6, 4 |
| | | | Light grey; tan limestone fragments; sand; silt | | 3 | SPT 12.6 | 10, 13, 16 |
| 12.6 | 6.0 | | | | | | |
| | | | same as above; with larger rock fragments | | 4 | SPT 10.6 | 13, 18, 14 |
| | | | Crushed limestone; sand; peat | | 5 | SPT 8.6 | 13, 12, 8 |
| 8.6 | 10.0 | | | | | | |
| | | | Peat | | 6 | SPT; caprock at 11'10" | 3, 4, 3 |
| 6.6 | 12.0 | | | | | | |
| | | | End of Boring at 12' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D.

(continued)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0413 |

Hole No. CP05-EAARS-CB-0413

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 18.6 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 3.6 | 15.0 | | | | | 3.6 | |
| | | | | | | x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0414

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750031.1, E774559.1 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0414 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/14/2005 Completed 9/14/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 18.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 13 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 18.3 | 0.0 | | | | | | |
| 16.3 | 2.0 | | Limerock road base | | 1 | 18.3 SPT; road base 16.3 | 50/2" |
| | | | Sandy gravel: grey-tan; as above; some dark grey silty clay | | 2 | SPT; road base 14.3 | 23, 38, 14 |
| | | | As above; mottled | | 3 | SPT; road base 12.3 | 25, 28, 12 |
| | | | Gravely sand: grey-tan; mottled; trace of dark grey silty clay | | 4 | SPT; road base 10.3 | 26, 12, 13 |
| 7.8 | 10.5 | | Sandy gravel: tan-brown; hard; boulder | | 5 | SPT; boulder at 8.5 ft 8.3 | 34, 50/3" |
| 6.3 | 12.0 | | Peat; dark brown-black | | 6 | SPT 6.3 | 8, 4, 12 |
| 5.8 | 12.5 | | Clay; grey; silty; sandy; stiff; calcareous | | | | 10 |
| 5.3 | 13.0 | | | | 7 | SPT; hit caprock at 12.5 ft | 50/3" |
| | | | End of Boring at 13' | | | | |

NOTES:
1. Soils are field visually classified

(continued)

Hole No. CP05-EAARS-CB-0414

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 18.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 3.3 | 15.0 | | | | | 3.3 | |
| | | | | | | in accordance with the ASTM Designation: D 2488-93.<br><br>2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.) | |

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Hole No. CP05-EAARS-CB-0415

| DRILLING LOG | Division: | Installation: | Sheet 1 of 2 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750058.6, E778518.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0415 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/14/2005 Completed 9/14/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 18.3 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 14 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 18.3 | 0.0 | | | | | | |
| | | | Sandy Gravel; grey to tan; mottled; limerock (road base) | | 1 | 18.3 SPT; road base 16.3 | 50/3" |
| | | | Same as above | | 2 | SPT; road base 14.3 | 30, 30, 18 |
| 14.3 | 4.0 | | | | | | |
| | | | Dark grey peat | | 3 | SPT; road base 12.3 | 20, 28, 14 |
| 13.3 | 5.0 | | | | | | |
| | | | Limerock road base with a trace of dark grey peat<br>same as above<br>Hit a boulder at 7.5' | | 4 | SPT 10.3 | 37, 13, 50/5" |
| 10.3 | 8.0 | | | | | | |
| | | | Sandy Gravel: road base; tan to grey; no peat | | 5 | SPT; road base without peat 8.3 | 28, 50/0" |
| 8.3 | 10.0 | | | | | | |
| | | | Peat; dark grey to black | | 6 | SPT; 3 ft of peat 6.3 | 4, 20, 13 |
| 6.3 | 12.0 | | | | | | |
| | | | Same as above<br>Mixture of peat and sandy gravel | | 7 | SPT; caprock at 13.5 ft | 7, 16, 50/2" |
| 4.8 | 13.5 | | | | | | |
| 4.3 | 14.0 | | Limestone: dark brown; hard; dense; fractured | | | | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0415

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 18.3 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 3.3 | 15.0 | | | | | 3.3 | |
| | | | End of Boring at 14' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

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# DRILLING LOG

Division:

Installation:



| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750086.6, E782465.6 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: CME-55 |
| 4. Hole No: CP05-EAARS-CB-0416 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Robert DeAngelis | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/14/2005 Completed 9/14/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 18.5 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 17 ft | 19. Inspector: P. Petrey |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 18.5 | 0.0 | | | | | | |
| | | | Fine grey rock fragments; sand; silt | | 1 | 18.5 SPT 16.5 | 33, 43, 41 |
| | | | same as above; a little lighter grey | | 2 | SPT 14.5 | 17, 12, 13 |
| | | | Rock fragments and peat | | 3 | SPT 12.5 | 8, 10, 13 |
| | | | Light grey crushed limestone; sand; silt | | 4 | SPT 10.5 | 15, 18, 17 |
| | | | Crushed limestone; peat with fine sand | | 5 | SPT 8.5 | 14, 5, 15 |
| 8.5 | 10.0 | | | | | | |
| | | | Grey fine sand with rock fragments | | 6 | SPT 6.5 | 11, 4, 50/2" |
| 6.5 | 12.0 | | | | | | |
| | | | Core run | 62 (RQD 49%) | 1 | HQ coring; coring caprock | |

0 2 4 6 8 10 12 14

(continued)

Hole No. CP05-EAARS-CB-0416

| DRILLING LOG (Cont.Sheet) | Elevation Top of Hole: 18.5 | Sheet 2 of 2 Sheets |
|---|---|---|
| Project: EAA Reservoir A-1 | Installation | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 3.5 | 15.0 | | | | | 3.5 | |
| 1.5 | 17.0 | | | | | | |
| | | | End of Boring at 17' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

16 18 20 22 24 26 28 30 32

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| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0416 |

Hole No. CP05-EAARS-CB-0417

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|

| | |
|---|---|
| 1. Project: EAA Reservoir A-1 | 10. Size and type of bit: 3" bit, Rotary Method |
| 2. Location: N750127.7, E786154.4 - NAD 1983 | 11. Datum for Elevation Shown: NAVD 1988 |
| 3. Drilling Agency: Nodarse & Associates, Inc. | 12. Manufacturer's Designation for Drill: Diedrich D-50 |
| 4. Hole No: CP05-EAARS-CB-0417 | 13. Total Number of Overburden Samples Taken: N/A |
| 5. Name of Driller: Erik Bluemke | 14. Total Number of Core Boxes: 1 |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | 15. Elevation Ground Water: Not measured |
| | 16. Date Hole Started 9/13/2005 Completed 9/13/2005 |
| 7. Thickness of Burden: N/A | 17. Elevation Top of Hole: 16.9 (ft) |
| 8. Thickness of cap rock: N/A | 18. Total Core Recovery for hole: N/A |
| 9. Depth of hole: 11.5 ft | 19. Inspector: K. Jones |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| 16.9 | 0.0 | | | | | | |
| 16.4 | 0.5 | | Limerock base | | | | |
| | | | Sandy gravel: lime rock base; grey to tan mottled | | 1 | 16.9 SPT; road base 14.9 | 50/2" |
| | | | Sandy gravel: lime rock base; grey to tan mottled; dense; fill | | 2 | 12.9 SPT; road base | 19, 50/2" |
| | | | | | 3 | 10.9 SPT; road base | 26, 21, 18 |
| 8.9 | 8.0 | | Same as above | | 4 | 8.9 SPT; road base | 20, 43, 28 |
| 6.9 | 10.0 | | Limerock; boulder; brown; hard | | 5 | 6.9 SPT; road base; Probably a Limestone boulder | 50/2" |
| 5.4 | 11.5 | | Peat; dark brown; silty; clayey | | 6 | SPT; 1 ft of peat; Hit caprock at 11.5' | 9, 10, 50/0" |
| | | | End of Boring at 11.5' | | | | |

NOTES:
1. Soils are field visually classified in accordance with the ASTM Designation: D 2488-93.

2. 140# hammer with 30" drop used on 2.0' splitspoon (1 3/8" I.D. x 2" O.D.)

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0417 |

Hole No. CP05-EAARS-CB-0418

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: | |
| 2. Location: N, E - | | 11. Datum for Elevation Shown: | |
| 3. Drilling Agency: | | 12. Manufacturer's Designation for Drill: | |
| 4. Hole No: CP05-EAARS-CB-0418 | | 13. Total Number of Overburden Samples Taken: | |
| 5. Name of Driller: | | 14. Total Number of Core Boxes: | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: | |
| | | 16. Date Hole Started Completed | |
| 7. Thickness of Burden: | | 17. Elevation Top of Hole: (ft) | |
| 8. Thickness of cap rock: | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 0 ft | | 19. Inspector: | |

| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| | 0.0 | | | | | | |
| | | | | | | Boring not drilled because it was inaccessible. | |

0 2 4 6 8 10 12 14

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0418 |

Hole No. CP05-EAARS-CB-0419

| DRILLING LOG | Division: | Installation: | Sheet 1 of 1 Sheets |
|---|---|---|---|
| 1. Project: EAA Reservoir A-1 | | 10. Size and type of bit: | |
| 2. Location: N, E - | | 11. Datum for Elevation Shown: | |
| 3. Drilling Agency: | | 12. Manufacturer's Designation for Drill: | |
| 4. Hole No: CP05-EAARS-CB-0419 | | 13. Total Number of Overburden Samples Taken: | |
| 5. Name of Driller: | | 14. Total Number of Core Boxes: | |
| 6. Direction of Hole ☒ Vertical ☐ Inclined | | 15. Elevation Ground Water: | |
| | | 16. Date Hole Started Completed | |
| 7. Thickness of Burden: | | 17. Elevation Top of Hole: (ft) | |
| 8. Thickness of cap rock: | | 18. Total Core Recovery for hole: N/A | |
| 9. Depth of hole: 0 ft | | 19. Inspector: | |

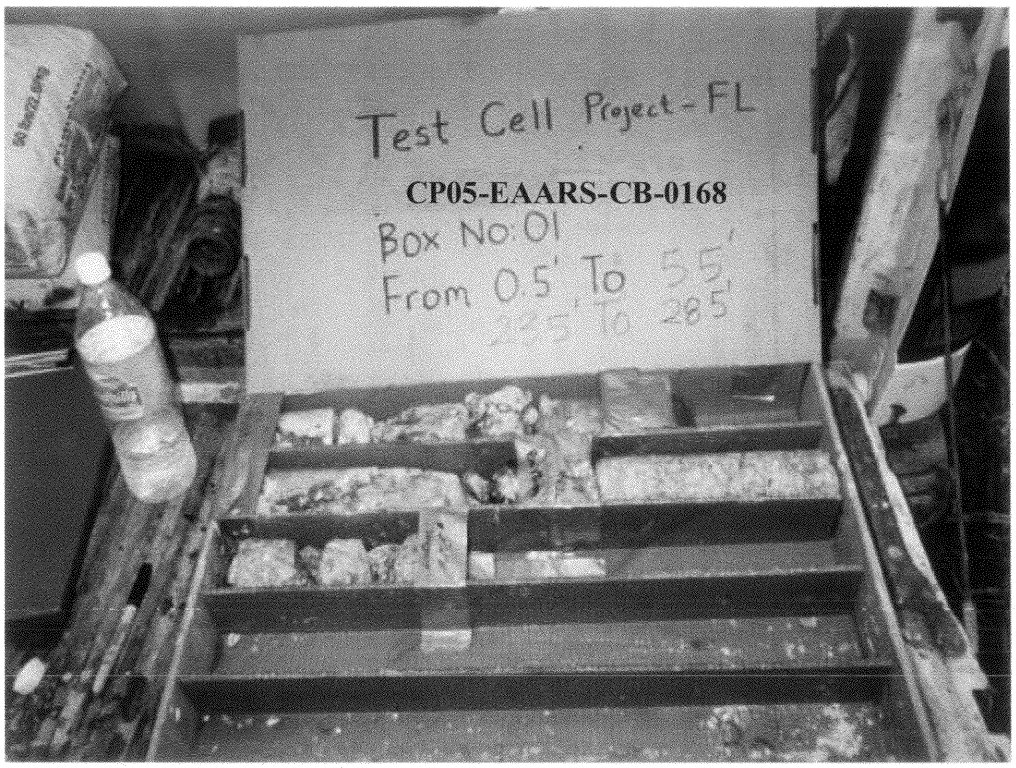
| ELEV. (ft) | DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | BLOWS/ 0.5' |
|---|---|---|---|---|---|---|---|
| | 0.0 | | | | | | |
| | | | | | | Boring not drilled because it was inaccessible. | |

0 2 4 6 8 10 12 14

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE MAR 71



| PROJECT | HOLE NUMBER |
|---|---|
| EAA Reservoir A-1 | CP05-EAARS-CB-0419 |




| Project | Everglades Agricultural Area | |
|---|---|---|
| Boring Number | CP05-EAARS-CB-0168 | |
| Location | North West of Test Cells | |
| Depth (feet) | Percentage Recovery | RQD |
| **0.50 to 5.50** | **50.00** | **22.00** |
| **23.50 to 28.50** | **27.00** | **15.00** |