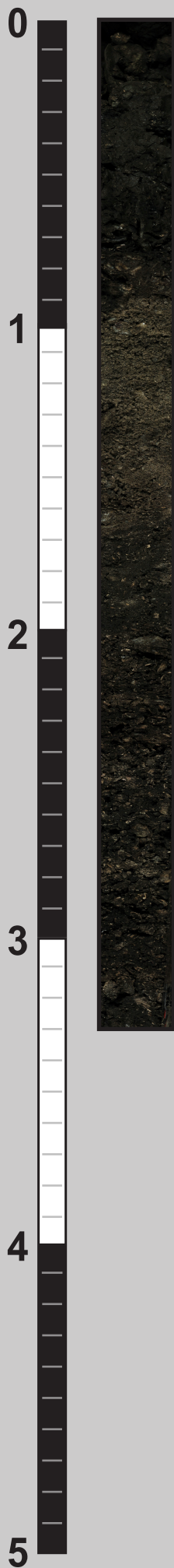


**TABLE 1 - Vibracore Summary Table**  
**Phillippi Creek Maintenance Dredging Feasibility Study Project**  
**Sarasota County, Florida**  
**May 2024**

| Boring ID | Collection Date                                                                                                 | Time  | East (x) <sup>1</sup> | North (y) <sup>1</sup> | Water Depth (ft) | Tide Elevation (ft MLW) | Sediment Surface Elevation (ft MLW) | Bottom of Boring Elevation (ft MLW) | Sample Type   | Penetration (ft) | Recovery (ft) | Notes                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------|-------|-----------------------|------------------------|------------------|-------------------------|-------------------------------------|-------------------------------------|---------------|------------------|---------------|-------------------------------------------------------------------|
| PC-24-01  | 5/21/2024                                                                                                       | 11:24 | 481921.54             | 1068192.29             | 5.3              | 1.5                     | -3.8                                | -5.8                                | Environmental | 2.0              | 1.0           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -7.8                                | Geotechnical  | 4.0              | 3.3           |                                                                   |
| PC-24-02  | 5/21/2024                                                                                                       | 11:01 | 482448.00             | 1068220.16             | 5.3              | 1.7                     | -3.6                                | -5.1                                | Environmental | 1.5              | 1.0           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -7.1                                | Geotechnical  | 3.5              | 2.9           |                                                                   |
| PC-24-03  | 5/21/2024                                                                                                       | 10:33 | 483375.05             | 1068648.19             | 4.5              | 1.3                     | -3.2                                | -4.2                                | Environmental | 1.0              | 0.7           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -5.2                                | Geotechnical  | 2.0              | 1.5           | Encountered refusal in shells with clay.                          |
| PC-24-04  | 5/21/2024                                                                                                       | 10:19 | 483681.49             | 1069176.66             | 5.9              | 1.4                     | -4.6                                | -5.1                                | Environmental | 0.5              | 0.5           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -6.6                                | Geotechnical  | 2.0              | 1.8           |                                                                   |
| PC-24-05  | 5/21/2024                                                                                                       | 9:40  | 483608.03             | 1069619.28             | 5.3              | 2.1                     | -3.2                                | -3.9                                | Environmental | 0.7              | 0.7           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -4.2                                | Geotechnical  | 1.0              | 0.8           | Made 2 attempts. Encountered refusal on rock fragments/limestone. |
| PC-24-06  | 5/21/2024                                                                                                       | 9:28  | 484103.35             | 1069790.65             | 3.2              | 0.9                     | -2.3                                | -3.3                                | Environmental | 1.0              | 1.0           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -4.7                                | Geotechnical  | 2.4              | 2.4           |                                                                   |
| PC-24-07  | 5/21/2024                                                                                                       | 8:35  | 484103.23             | 1069440.13             | 2.7              | 1.0                     | -1.7                                | -2.9                                | Environmental | 1.2              | 1.0           |                                                                   |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -4.2                                | Geotechnical  | 2.5              | 2.3           | Encountered refusal.                                              |
| PC-24-08  | 5/21/2024                                                                                                       | 8:57  | 484078.06             | 1069144.13             | 2.8              | 0.8                     | -2.0                                | -4.5                                | Environmental | 2.5              | 2.0           | Sampled core from 0-1 foot below sediment surface.                |
|           |                                                                                                                 |       |                       |                        |                  |                         |                                     | -5.0                                | Geotechnical  | 3.0              | 2.2           |                                                                   |
| Notes     | ft = feet                                                                                                       |       |                       |                        |                  |                         |                                     |                                     |               |                  |               |                                                                   |
|           | MLW = Mean Low Water                                                                                            |       |                       |                        |                  |                         |                                     |                                     |               |                  |               |                                                                   |
|           | 1 = State Plane Coordinates, Florida West, Zone 0902, U.S. Survey Feet                                          |       |                       |                        |                  |                         |                                     |                                     |               |                  |               |                                                                   |
|           | Elevation data obtained using a Spectra Precision SP80 interfaced with the Florida Permanent Reference Network. |       |                       |                        |                  |                         |                                     |                                     |               |                  |               |                                                                   |



**Cummins  
Cederberg, Inc.**

**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-01**

**Top Elev. (ft MLW): -3.8  
Bottom Elev. (ft MLW): -7.1**

**Notes:**

- Photo Mosaic Image
- Photo Scale in Feet



Athena Technologies, Inc.  
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Boring Designation PC-24-01

| DRILLING LOG                                                                                                |               |        | CLIENT<br>Cummins Cederberg, Inc.                                                                                                                                                                                       |  | PROJECT OWNER<br>FI West Coast Inland Navigation District |                  | SHEET 1<br>OF 1 SHEETS                                                         |                       |
|-------------------------------------------------------------------------------------------------------------|---------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|------------------|--------------------------------------------------------------------------------|-----------------------|
| 1. PROJECT<br>2024 Phillippi Creek Maintenance Dredging Feasibility Study<br>Sarasota County, FL            |               |        |                                                                                                                                                                                                                         |  | 9. SIZE AND TYPE OF BIT 3.0 In.                           |                  |                                                                                |                       |
| 2. BORING DESIGNATION<br>PC-24-01                                                                           |               |        | LOCATION COORDINATES<br>X = 481,922 Y = 1,068,192                                                                                                                                                                       |  | 10. COORDINATE SYSTEM/DATUM<br>Florida State Plane West   |                  | HORIZONTAL<br>NAD 1983                                                         | VERTICAL<br>MLW       |
| 3. DRILLING AGENCY<br>Athena Technologies, Inc.                                                             |               |        | CONTRACTOR FILE NO.                                                                                                                                                                                                     |  | 11. MANUFACTURER'S DESIGNATION OF DRILL                   |                  | <input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |                       |
| 4. NAME OF DRILLER<br>N. Wicker                                                                             |               |        |                                                                                                                                                                                                                         |  | 12. TOTAL SAMPLES                                         |                  | DISTURBED                                                                      | UNDISTURBED (UD)      |
| 5. DIRECTION OF BORING<br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |               |        |                                                                                                                                                                                                                         |  | 13. TOTAL NUMBER CORE BOXES                               |                  | 14. WATER DEPTH 5.3 Ft.                                                        |                       |
| 6. THICKNESS OF OVERBURDEN 0.0 Ft.                                                                          |               |        |                                                                                                                                                                                                                         |  | 15. DATE BORING                                           |                  | STARTED<br>05-21-24 11:24                                                      | COMPLETED<br>05-21-24 |
| 7. DEPTH DRILLED INTO ROCK 0.0 Ft.                                                                          |               |        |                                                                                                                                                                                                                         |  | 16. ELEVATION TOP OF BORING -3.8 Ft.                      |                  | 17. TOTAL RECOVERY FOR BORING 3.3 Ft.                                          |                       |
| 8. TOTAL DEPTH OF BORING 4.0 Ft.                                                                            |               |        |                                                                                                                                                                                                                         |  | 18. SIGNATURE AND TITLE OF INSPECTOR<br>A. Freeze         |                  |                                                                                |                       |
| ELEV.<br>(ft)                                                                                               | SCALE<br>(ft) | LEGEND | CLASSIFICATION OF MATERIALS<br>Depths and elevations based on measured values                                                                                                                                           |  | %<br>REC.                                                 | BOX OR<br>SAMPLE | REMARKS                                                                        |                       |
| -3.8                                                                                                        | 0.0           |        |                                                                                                                                                                                                                         |  |                                                           |                  |                                                                                |                       |
| -4.7                                                                                                        | 0.9           |        | Silty GRAVEL; mostly fine to coarse gravel-sized shells, little fine quartz sand in matrix, little organic silt in matrix, loose, strong organic odor present, black (2.5Y-2.5/1), (GM).                                |  |                                                           |                  |                                                                                |                       |
| -5.4                                                                                                        | 1.6           |        | Poorly graded SAND with silt; fine quartz sand, few organic silt in matrix and burrows, few medium sand to coarse gravel-sized shells, loose, subangular, dark grayish brown (2.5Y-4/2), (SP-SM).                       |  |                                                           |                  |                                                                                |                       |
| -5.8                                                                                                        | 2.0           |        | Silty SAND; fine quartz sand, little organic silt in matrix, few fine sand to fine gravel-sized shells, loose, bioturbated, organic odor present, black (2.5Y-2.5/1) mottled with, dark grayish brown (2.5Y-4/2), (SM). |  |                                                           |                  |                                                                                |                       |
| -7.1                                                                                                        | 3.3           |        | Silty SAND; fine quartz sand, little fine sand to coarse gravel-sized shells, little organic silt, loose, organic odor present, black (2.5Y-2.5/1) mottled with, dark grayish brown (2.5Y-4/2), (SM).                   |  |                                                           |                  |                                                                                |                       |
|                                                                                                             |               |        | End of Boring                                                                                                                                                                                                           |  |                                                           |                  |                                                                                |                       |



**Cummins  
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**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-02**

**Top Elev. (ft MLW): -3.6  
Bottom Elev. (ft MLW): -6.5**

**Notes:**

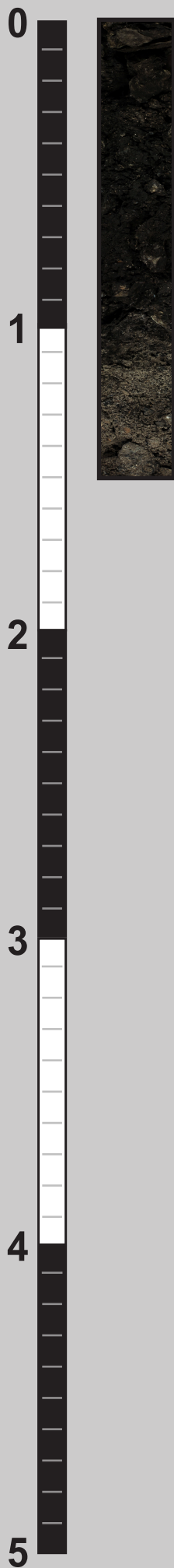
- Photo Mosaic Image
- Photo Scale in Feet



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Boring Designation PC-24-02

| DRILLING LOG                                                                                                |               |        | CLIENT<br>Cummins Cederberg, Inc.                                                                                                                                                                                                                          |  | PROJECT OWNER<br>FI West Coast Inland Navigation District |                  | SHEET 1<br>OF 1 SHEETS                                                         |                  |
|-------------------------------------------------------------------------------------------------------------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|------------------|--------------------------------------------------------------------------------|------------------|
| 1. PROJECT<br>2024 Phillippi Creek Maintenance Dredging Feasibilty Study<br>Sarasota County, FL             |               |        |                                                                                                                                                                                                                                                            |  | 9. SIZE AND TYPE OF BIT 3.0 In.                           |                  |                                                                                |                  |
| 2. BORING DESIGNATION<br>PC-24-02                                                                           |               |        | LOCATION COORDINATES<br>X = 482,448 Y = 1,068,220                                                                                                                                                                                                          |  | 10. COORDINATE SYSTEM/DATUM<br>Florida State Plane West   |                  | HORIZONTAL<br>NAD 1983                                                         | VERTICAL<br>MLW  |
| 3. DRILLING AGENCY<br>Athena Technologies, Inc.                                                             |               |        | CONTRACTOR FILE NO.                                                                                                                                                                                                                                        |  | 11. MANUFACTURER'S DESIGNATION OF DRILL                   |                  | <input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |                  |
| 4. NAME OF DRILLER<br>N. Wicker                                                                             |               |        |                                                                                                                                                                                                                                                            |  | 12. TOTAL SAMPLES                                         |                  | DISTURBED                                                                      | UNDISTURBED (UD) |
| 5. DIRECTION OF BORING<br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |               |        | DEG. FROM VERTICAL                                                                                                                                                                                                                                         |  | BEARING                                                   |                  | 13. TOTAL NUMBER CORE BOXES                                                    |                  |
| 6. THICKNESS OF OVERBURDEN 0.0 Ft.                                                                          |               |        |                                                                                                                                                                                                                                                            |  | 14. WATER DEPTH 5.3 Ft.                                   |                  | 15. DATE BORING                                                                |                  |
| 7. DEPTH DRILLED INTO ROCK 0.0 Ft.                                                                          |               |        |                                                                                                                                                                                                                                                            |  | 16. ELEVATION TOP OF BORING -3.6 Ft.                      |                  | STARTED 05-21-24 11:01                                                         |                  |
| 8. TOTAL DEPTH OF BORING 3.5 Ft.                                                                            |               |        |                                                                                                                                                                                                                                                            |  | 17. TOTAL RECOVERY FOR BORING 2.9 Ft.                     |                  | COMPLETED 05-21-24                                                             |                  |
|                                                                                                             |               |        |                                                                                                                                                                                                                                                            |  | 18. SIGNATURE AND TITLE OF INSPECTOR<br>A. Freeze         |                  |                                                                                |                  |
| ELEV.<br>(ft)                                                                                               | SCALE<br>(ft) | LEGEND | CLASSIFICATION OF MATERIALS<br>Depths and elevations based on measured values                                                                                                                                                                              |  | %<br>REC.                                                 | BOX OR<br>SAMPLE | REMARKS                                                                        |                  |
| -3.6                                                                                                        | 0.0           |        |                                                                                                                                                                                                                                                            |  |                                                           |                  |                                                                                |                  |
| -4.2                                                                                                        | 0.6           |        | Poorly graded SAND with silt; fine quartz sand, few organic silt in matrix and burrows, trace medium sand to fine gravel-sized shells, loose, subangular, bioturbated, very dark grayish brown (2.5Y-3/2) mottled with, grayish brown (2.5Y-5/2), (SP-SM). |  |                                                           |                  |                                                                                |                  |
| -5.9                                                                                                        | 2.3           |        | Poorly graded SAND; fine quartz sand, trace organic silt in matrix and burrows, trace fine sand to fine gravel-sized shells, loose, subangular, bioturbated, borderline SP-SM, grayish brown (2.5Y-5/2) and, very dark grayish brown (2.5Y-3/2), (SP).     |  |                                                           |                  |                                                                                |                  |
| -6.5                                                                                                        | 2.9           |        | Silty SAND; fine quartz sand, some fine sand to fine gravel-sized shells, little organic silt, loose to medium dense, slight organic odor present, black (2.5Y-2.5/1), (SM).                                                                               |  |                                                           |                  |                                                                                |                  |
|                                                                                                             |               |        | End of Boring                                                                                                                                                                                                                                              |  |                                                           |                  |                                                                                |                  |



**Cummins  
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**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-03**

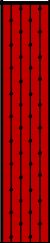
**Top Elev. (ft MLW): -3.2  
Bottom Elev. (ft MLW): -4.7**

**Notes:**

- Photo Mosaic Image
- Photo Scale in Feet



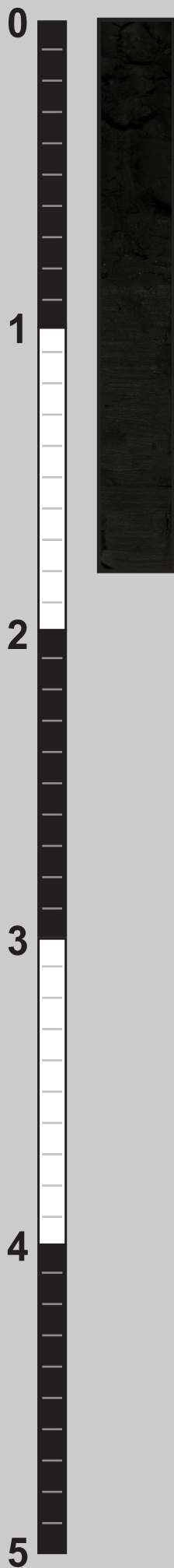
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|                                                                                                                    |                          |                                                                                     |                                                                                                                                                                     |                                                                                                                                  |                      |                                      |                              |
|--------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------|------------------------------|
| <b>DRILLING LOG</b>                                                                                                |                          | <b>CLIENT</b><br>Cummins Cederberg, Inc.                                            |                                                                                                                                                                     | <b>PROJECT OWNER</b><br>FI West Coast Inland Navigation District                                                                 |                      | <b>SHEET 1</b><br><b>OF 1 SHEETS</b> |                              |
| <b>1. PROJECT</b><br>2024 Phillippi Creek Maintenance Dredging Feasibility Study<br>Sarasota County, FL            |                          |                                                                                     |                                                                                                                                                                     | <b>9. SIZE AND TYPE OF BIT</b> 3.0 In.                                                                                           |                      |                                      |                              |
| <b>2. BORING DESIGNATION</b><br>PC-24-03                                                                           |                          | <b>LOCATION COORDINATES</b><br>X = 483,375 Y = 1,068,648                            |                                                                                                                                                                     | <b>10. COORDINATE SYSTEM/DATUM</b><br>Florida State Plane West                                                                   |                      | <b>HORIZONTAL</b><br>NAD 1983        | <b>VERTICAL</b><br>MLW       |
| <b>3. DRILLING AGENCY</b><br>Athena Technologies, Inc.                                                             |                          | <b>CONTRACTOR FILE NO.</b>                                                          |                                                                                                                                                                     | <b>11. MANUFACTURER'S DESIGNATION OF DRILL</b><br><input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |                      |                                      |                              |
| <b>4. NAME OF DRILLER</b><br>N. Wicker                                                                             |                          |                                                                                     |                                                                                                                                                                     | <b>12. TOTAL SAMPLES</b>                                                                                                         |                      | <b>DISTURBED</b>                     | <b>UNDISTURBED (UD)</b>      |
| <b>5. DIRECTION OF BORING</b><br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |                          |                                                                                     |                                                                                                                                                                     | <b>DEG. FROM VERTICAL</b>                                                                                                        | <b>BEARING</b>       | <b>13. TOTAL NUMBER CORE BOXES</b>   |                              |
| <b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.                                                                          |                          |                                                                                     |                                                                                                                                                                     | <b>14. WATER DEPTH</b> 4.5 Ft.                                                                                                   |                      |                                      |                              |
| <b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.                                                                          |                          |                                                                                     |                                                                                                                                                                     | <b>15. DATE BORING</b>                                                                                                           |                      | <b>STARTED</b><br>05-21-24 10:33     | <b>COMPLETED</b><br>05-21-24 |
| <b>8. TOTAL DEPTH OF BORING</b> 2.0 Ft.                                                                            |                          |                                                                                     |                                                                                                                                                                     | <b>16. ELEVATION TOP OF BORING</b> -3.2 Ft.                                                                                      |                      |                                      |                              |
|                                                                                                                    |                          |                                                                                     |                                                                                                                                                                     | <b>17. TOTAL RECOVERY FOR BORING</b> 1.5 Ft.                                                                                     |                      |                                      |                              |
|                                                                                                                    |                          |                                                                                     |                                                                                                                                                                     | <b>18. SIGNATURE AND TITLE OF INSPECTOR</b><br>A. Freeze                                                                         |                      |                                      |                              |
| <b>ELEV. (ft)</b><br>-3.2                                                                                          | <b>SCALE (ft)</b><br>0.0 | <b>LEGEND</b>                                                                       | <b>CLASSIFICATION OF MATERIALS</b><br>Depths and elevations based on measured values                                                                                | <b>% REC.</b>                                                                                                                    | <b>BOX OR SAMPLE</b> | <b>REMARKS</b>                       |                              |
| -4.2                                                                                                               | 1.0                      |   | Silty SAND; fine quartz sand, some fine sand to coarse gravel-sized shells, little organic silt, loose, strong organic odor present, black (2.5Y-2.5/1), (SM).      |                                                                                                                                  |                      |                                      |                              |
| -4.7                                                                                                               | 1.5                      |  | Poorly graded SAND; fine to medium quartz sand, few fine sand to coarse gravel-sized shells, trace organic silt, loose, subangular, grayish brown (2.5Y-5/2), (SP). |                                                                                                                                  |                      |                                      |                              |
|                                                                                                                    |                          |                                                                                     | End of Boring                                                                                                                                                       |                                                                                                                                  |                      |                                      |                              |

FLORIDA DEP ROSS CUMMINS CEDERBERG, PHILLIPPI CREEK, FL (2024), GPJ, FL DEP ROSS, GDT 6/7/24

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**Cummins  
Cederberg, Inc.**

**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-04**

**Top Elev. (ft MLW): -4.6  
Bottom Elev. (ft MLW): -6.4**

**Notes:**

- Photo Mosaic Image
- Photo Scale in Feet

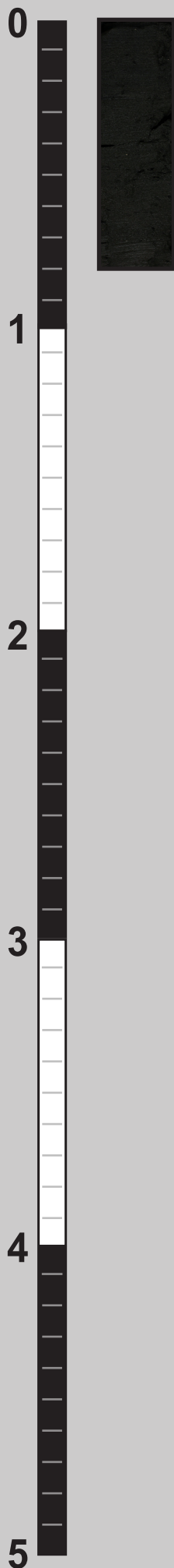


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## Boring Designation PC-24-04

|                                                                                                                                  |  |                                                          |  |                                                                                                                                             |  |                                                                                |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|
| <b>DRILLING LOG</b>                                                                                                              |  | <b>CLIENT</b><br>Cummins Cederberg, Inc.                 |  | <b>PROJECT OWNER</b><br>FI West Coast Inland Navigation District                                                                            |  | <b>SHEET 1</b><br><b>OF 1 SHEETS</b>                                           |  |
| <b>1. PROJECT</b><br>2024 Phillippi Creek Maintenance Dredging Feasibility Study<br>Sarasota County, FL                          |  |                                                          |  | <b>9. SIZE AND TYPE OF BIT</b> 3.0 In.                                                                                                      |  |                                                                                |  |
|                                                                                                                                  |  |                                                          |  | <b>10. COORDINATE SYSTEM/DATUM</b><br>Florida State Plane West                                                                              |  | <b>HORIZONTAL</b><br>NAD 1983                                                  |  |
|                                                                                                                                  |  |                                                          |  |                                                                                                                                             |  | <b>VERTICAL</b><br>MLW                                                         |  |
| <b>2. BORING DESIGNATION</b><br>PC-24-04                                                                                         |  | <b>LOCATION COORDINATES</b><br>X = 483,681 Y = 1,069,177 |  | <b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> <input type="checkbox"/> <b>AUTO HAMMER</b><br><input type="checkbox"/> <b>MANUAL HAMMER</b> |  |                                                                                |  |
| <b>3. DRILLING AGENCY</b><br>Athena Technologies, Inc.                                                                           |  | <b>CONTRACTOR FILE NO.</b>                               |  | <b>12. TOTAL SAMPLES</b>                                                                                                                    |  | <b>DISTURBED</b>                                                               |  |
|                                                                                                                                  |  |                                                          |  |                                                                                                                                             |  | <b>UNDISTURBED (UD)</b>                                                        |  |
| <b>4. NAME OF DRILLER</b><br>N. Wicker                                                                                           |  |                                                          |  | <b>13. TOTAL NUMBER CORE BOXES</b>                                                                                                          |  |                                                                                |  |
| <b>5. DIRECTION OF BORING</b><br><input checked="" type="checkbox"/> <b>VERTICAL</b><br><input type="checkbox"/> <b>INCLINED</b> |  | <b>DEG. FROM VERTICAL</b>                                |  | <b>BEARING</b>                                                                                                                              |  | <b>14. WATER DEPTH</b> 5.9 Ft.                                                 |  |
|                                                                                                                                  |  |                                                          |  |                                                                                                                                             |  | <b>15. DATE BORING</b> <b>STARTED</b> 05-21-24 10:19 <b>COMPLETED</b> 05-21-24 |  |
| <b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.                                                                                        |  |                                                          |  | <b>16. ELEVATION TOP OF BORING</b> -4.6 Ft.                                                                                                 |  |                                                                                |  |
| <b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.                                                                                        |  |                                                          |  | <b>17. TOTAL RECOVERY FOR BORING</b> 1.8 Ft.                                                                                                |  |                                                                                |  |
| <b>8. TOTAL DEPTH OF BORING</b> 2.0 Ft.                                                                                          |  |                                                          |  | <b>18. SIGNATURE AND TITLE OF INSPECTOR</b><br>A. Freeze                                                                                    |  |                                                                                |  |

| ELEV.<br>(ft) | SCALE<br>(ft) | LEGEND | CLASSIFICATION OF MATERIALS<br>Depths and elevations based on measured values                                  | %<br>REC. | BOX OR<br>SAMPLE | REMARKS |
|---------------|---------------|--------|----------------------------------------------------------------------------------------------------------------|-----------|------------------|---------|
| -4.6          | 0.0           |        |                                                                                                                |           |                  |         |
| -6.4          | 1.8           |        | Fat organic SILT; medium plasticity, very soft, possible clay, organic odor present, black (2.5Y-2.5/1), (OH). |           |                  |         |
|               |               |        | End of Boring                                                                                                  |           |                  |         |



**Cummins  
Cederberg, Inc.**

**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-05**

**Top Elev. (ft MLW): -3.2  
Bottom Elev. (ft MLW): -4.0**

**Notes:**

- Photo Mosaic Image
- Photo Scale in Feet

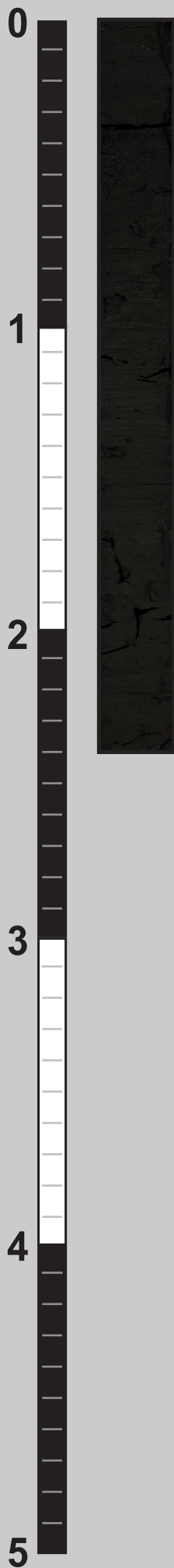


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|                                                                                                                    |                          |                                                                                   |                                                                                                                       |                                                                                                                                  |                      |                                      |                              |
|--------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------|------------------------------|
| <b>DRILLING LOG</b>                                                                                                |                          | <b>CLIENT</b><br>Cummins Cederberg, Inc.                                          |                                                                                                                       | <b>PROJECT OWNER</b><br>FI West Coast Inland Navigation District                                                                 |                      | <b>SHEET 1</b><br><b>OF 1 SHEETS</b> |                              |
| <b>1. PROJECT</b><br>2024 Phillippi Creek Maintenance Dredging Feasibility Study<br>Sarasota County, FL            |                          |                                                                                   |                                                                                                                       | <b>9. SIZE AND TYPE OF BIT</b> 3.0 In.                                                                                           |                      |                                      |                              |
| <b>2. BORING DESIGNATION</b><br>PC-24-05                                                                           |                          | <b>LOCATION COORDINATES</b><br>X = 483,608 Y = 1,069,619                          |                                                                                                                       | <b>10. COORDINATE SYSTEM/DATUM</b><br>Florida State Plane West                                                                   |                      | <b>HORIZONTAL</b><br>NAD 1983        | <b>VERTICAL</b><br>MLW       |
| <b>3. DRILLING AGENCY</b><br>Athena Technologies, Inc.                                                             |                          | <b>CONTRACTOR FILE NO.</b>                                                        |                                                                                                                       | <b>11. MANUFACTURER'S DESIGNATION OF DRILL</b><br><input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |                      |                                      |                              |
| <b>4. NAME OF DRILLER</b><br>N. Wicker                                                                             |                          |                                                                                   |                                                                                                                       | <b>12. TOTAL SAMPLES</b>                                                                                                         |                      | <b>DISTURBED</b>                     | <b>UNDISTURBED (UD)</b>      |
| <b>5. DIRECTION OF BORING</b><br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |                          |                                                                                   |                                                                                                                       | <b>DEG. FROM VERTICAL</b>                                                                                                        | <b>BEARING</b>       | <b>13. TOTAL NUMBER CORE BOXES</b>   |                              |
| <b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.                                                                          |                          |                                                                                   |                                                                                                                       | <b>14. WATER DEPTH</b> 5.3 Ft.                                                                                                   |                      |                                      |                              |
| <b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.                                                                          |                          |                                                                                   |                                                                                                                       | <b>15. DATE BORING</b>                                                                                                           |                      | <b>STARTED</b><br>05-21-24 09:40     | <b>COMPLETED</b><br>05-21-24 |
| <b>8. TOTAL DEPTH OF BORING</b> 1.0 Ft.                                                                            |                          |                                                                                   |                                                                                                                       | <b>16. ELEVATION TOP OF BORING</b> -3.2 Ft.                                                                                      |                      |                                      |                              |
|                                                                                                                    |                          |                                                                                   |                                                                                                                       | <b>17. TOTAL RECOVERY FOR BORING</b> 0.8 Ft.                                                                                     |                      |                                      |                              |
|                                                                                                                    |                          |                                                                                   |                                                                                                                       | <b>18. SIGNATURE AND TITLE OF INSPECTOR</b><br>A. Freeze                                                                         |                      |                                      |                              |
| <b>ELEV. (ft)</b><br>-3.2                                                                                          | <b>SCALE (ft)</b><br>0.0 | <b>LEGEND</b>                                                                     | <b>CLASSIFICATION OF MATERIALS</b><br>Depths and elevations based on measured values                                  | <b>% REC.</b>                                                                                                                    | <b>BOX OR SAMPLE</b> | <b>REMARKS</b>                       |                              |
| -4.0                                                                                                               | 0.8                      |  | Fat organic SILT; medium plasticity, very soft, possible clay, slight organic odor present, black (2.5Y-2.5/1), (OH). |                                                                                                                                  |                      |                                      |                              |
|                                                                                                                    |                          |                                                                                   | End of Boring                                                                                                         |                                                                                                                                  |                      |                                      |                              |

FLORIDA DEP ROSS CUMMINS CEDERBERG, PHILLIPPI CREEK, FL (2024), GPJ FL DEP ROSS.GDT 6/7/24



**Cummins  
Cederberg, Inc.**

**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-06**

**Top Elev. (ft MLW): -2.3  
Bottom Elev. (ft MLW): -4.7**

**Notes:**

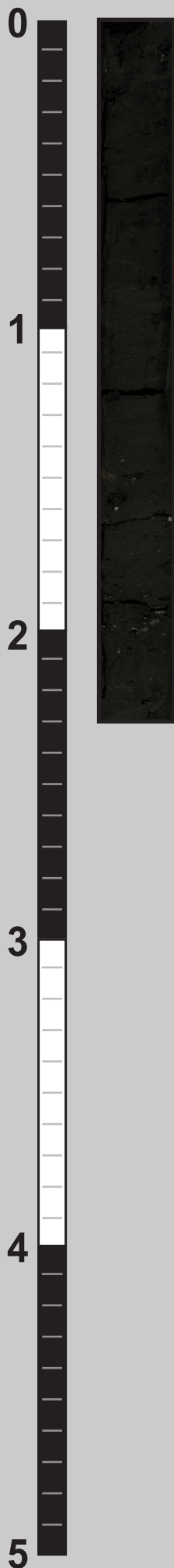
- Photo Mosaic Image
- Photo Scale in Feet



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| DRILLING LOG                                                                                                |  | CLIENT<br>Cummins Cederberg, Inc.                 |  | PROJECT OWNER<br>FI West Coast Inland Navigation District                                                              |  | SHEET 1<br>OF 1 SHEETS            |  |
|-------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. PROJECT<br>2024 Phillippi Creek Maintenance Dredging Feasibilty Study<br>Sarasota County, FL             |  |                                                   |  | 9. SIZE AND TYPE OF BIT 3.0 In.                                                                                        |  |                                   |  |
|                                                                                                             |  |                                                   |  | 10. COORDINATE SYSTEM/DATUM<br>Florida State Plane West                                                                |  | HORIZONTAL<br>NAD 1983            |  |
| 2. BORING DESIGNATION<br>PC-24-06                                                                           |  | LOCATION COORDINATES<br>X = 484,103 Y = 1,069,791 |  | 11. MANUFACTURER'S DESIGNATION OF DRILL <input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |  |                                   |  |
| 3. DRILLING AGENCY<br>Athena Technologies, Inc.                                                             |  | CONTRACTOR FILE NO.                               |  | 12. TOTAL SAMPLES                                                                                                      |  | DISTURBED<br>UNDISTURBED (UD)     |  |
| 4. NAME OF DRILLER<br>N. Wicker                                                                             |  |                                                   |  | 13. TOTAL NUMBER CORE BOXES                                                                                            |  |                                   |  |
|                                                                                                             |  |                                                   |  | 14. WATER DEPTH 3.2 Ft.                                                                                                |  |                                   |  |
| 5. DIRECTION OF BORING<br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |  | DEG. FROM VERTICAL                                |  | BEARING                                                                                                                |  | 15. DATE BORING<br>05-21-24 09:28 |  |
| 6. THICKNESS OF OVERBURDEN 0.0 Ft.                                                                          |  |                                                   |  | 16. ELEVATION TOP OF BORING -2.3 Ft.                                                                                   |  |                                   |  |
| 7. DEPTH DRILLED INTO ROCK 0.0 Ft.                                                                          |  |                                                   |  | 17. TOTAL RECOVERY FOR BORING 2.4 Ft.                                                                                  |  |                                   |  |
| 8. TOTAL DEPTH OF BORING 2.4 Ft.                                                                            |  |                                                   |  | 18. SIGNATURE AND TITLE OF INSPECTOR<br>A. Freeze                                                                      |  |                                   |  |

| ELEV.<br>(ft) | SCALE<br>(ft) | LEGEND | CLASSIFICATION OF MATERIALS<br>Depths and elevations based on measured values                                                                                       | %<br>REC. | BOX OR<br>SAMPLE | REMARKS |
|---------------|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|---------|
| -2.3          | 0.0           |        |                                                                                                                                                                     |           |                  |         |
| -4.7          | 2.4           |        | Fat organic SILT; trace fine quartz sand in occasional burrows, medium plasticity, very soft, possible clay, strong organic odor present, black (2.5Y-2.5/1), (OH). |           |                  |         |
|               |               |        | End of Boring                                                                                                                                                       |           |                  |         |



**Cummins  
Cederberg, Inc.**

**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-07**

**Top Elev. (ft MLW): -1.7  
Bottom Elev. (ft MLW): -4.0**

**Notes:**

- Photo Mosaic Image
- Photo Scale in Feet

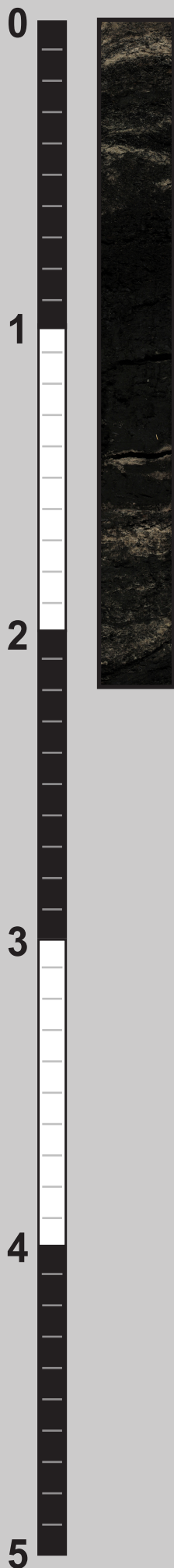


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Boring Designation PC-24-07

| DRILLING LOG                                                                                                |  | CLIENT<br>Cummins Cederberg, Inc.                 |  | PROJECT OWNER<br>FI West Coast Inland Navigation District                                                              |  | SHEET 1<br>OF 1 SHEETS            |  |
|-------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. PROJECT<br>2024 Phillippi Creek Maintenance Dredging Feasibilty Study<br>Sarasota County, FL             |  |                                                   |  | 9. SIZE AND TYPE OF BIT 3.0 In.                                                                                        |  |                                   |  |
|                                                                                                             |  |                                                   |  | 10. COORDINATE SYSTEM/DATUM<br>Florida State Plane West                                                                |  | HORIZONTAL<br>NAD 1983            |  |
| 2. BORING DESIGNATION<br>PC-24-07                                                                           |  | LOCATION COORDINATES<br>X = 484,103 Y = 1,069,440 |  | 11. MANUFACTURER'S DESIGNATION OF DRILL <input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |  |                                   |  |
| 3. DRILLING AGENCY<br>Athena Technologies, Inc.                                                             |  | CONTRACTOR FILE NO.                               |  | 12. TOTAL SAMPLES                                                                                                      |  | DISTURBED<br>UNDISTURBED (UD)     |  |
| 4. NAME OF DRILLER<br>N. Wicker                                                                             |  |                                                   |  | 13. TOTAL NUMBER CORE BOXES                                                                                            |  |                                   |  |
|                                                                                                             |  |                                                   |  | 14. WATER DEPTH 2.7 Ft.                                                                                                |  |                                   |  |
| 5. DIRECTION OF BORING<br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |  | DEG. FROM VERTICAL                                |  | BEARING                                                                                                                |  | 15. DATE BORING<br>05-21-24 08:35 |  |
| 6. THICKNESS OF OVERBURDEN 0.0 Ft.                                                                          |  |                                                   |  | 16. ELEVATION TOP OF BORING -1.7 Ft.                                                                                   |  | COMPLETED<br>05-21-24             |  |
| 7. DEPTH DRILLED INTO ROCK 0.0 Ft.                                                                          |  |                                                   |  | 17. TOTAL RECOVERY FOR BORING 2.3 Ft.                                                                                  |  |                                   |  |
| 8. TOTAL DEPTH OF BORING 2.5 Ft.                                                                            |  |                                                   |  | 18. SIGNATURE AND TITLE OF INSPECTOR<br>A. Freeze                                                                      |  |                                   |  |

| ELEV.<br>(ft) | SCALE<br>(ft) | LEGEND | CLASSIFICATION OF MATERIALS<br>Depths and elevations based on measured values                                                                                   | %<br>REC. | BOX OR<br>SAMPLE | REMARKS |
|---------------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|---------|
| -1.7          | 0.0           |        |                                                                                                                                                                 |           |                  |         |
| -4.0          | 2.3           |        | Fat organic SILT; grades to organic clay,<br>trace fine quartz sand in occasional burrows,<br>low to medium plasticity, very soft, black<br>(2.5Y-2.5/1), (OH). |           |                  |         |
|               |               |        | End of Boring                                                                                                                                                   |           |                  |         |



**Cummins  
Cederberg, Inc.**

**Phillippi Creek Maintenance  
Dredging Fesibility Study Project  
West Coast Inland Navigation District  
Sarasota County, Florida**

**May 2024**

**PC-24-08**

**Top Elev. (ft MLW): -2.0  
Bottom Elev. (ft MLW): -4.2**

**Notes:**

- Photo Mosaic Image
- Photo Scale in Feet



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|                                                                                                                    |                           |                                                          |                                                                                                                                                                                                        |                                                                                                                                  |                      |                                      |                              |
|--------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------|------------------------------|
| <b>DRILLING LOG</b>                                                                                                |                           | <b>CLIENT</b><br>Cummins Cederberg, Inc.                 |                                                                                                                                                                                                        | <b>PROJECT OWNER</b><br>FI West Coast Inland Navigation District                                                                 |                      | <b>SHEET 1</b><br><b>OF 1 SHEETS</b> |                              |
| <b>1. PROJECT</b><br>2024 Phillippi Creek Maintenance Dredging Feasibility Study<br>Sarasota County, FL            |                           |                                                          |                                                                                                                                                                                                        | <b>9. SIZE AND TYPE OF BIT</b> 3.0 In.                                                                                           |                      |                                      |                              |
| <b>2. BORING DESIGNATION</b><br>PC-24-08                                                                           |                           | <b>LOCATION COORDINATES</b><br>X = 484,078 Y = 1,069,144 |                                                                                                                                                                                                        | <b>10. COORDINATE SYSTEM/DATUM</b><br>Florida State Plane West                                                                   |                      | <b>HORIZONTAL</b><br>NAD 1983        | <b>VERTICAL</b><br>MLW       |
| <b>3. DRILLING AGENCY</b><br>Athena Technologies, Inc.                                                             |                           | <b>CONTRACTOR FILE NO.</b>                               |                                                                                                                                                                                                        | <b>11. MANUFACTURER'S DESIGNATION OF DRILL</b><br><input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |                      |                                      |                              |
| <b>4. NAME OF DRILLER</b><br>N. Wicker                                                                             |                           |                                                          |                                                                                                                                                                                                        | <b>12. TOTAL SAMPLES</b>                                                                                                         |                      | <b>DISTURBED</b>                     | <b>UNDISTURBED (UD)</b>      |
| <b>5. DIRECTION OF BORING</b><br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED |                           |                                                          |                                                                                                                                                                                                        | <b>DEG. FROM VERTICAL</b>                                                                                                        | <b>BEARING</b>       | <b>13. TOTAL NUMBER CORE BOXES</b>   |                              |
| <b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.                                                                          |                           |                                                          |                                                                                                                                                                                                        | <b>14. WATER DEPTH</b> 2.8 Ft.                                                                                                   |                      |                                      |                              |
| <b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.                                                                          |                           |                                                          |                                                                                                                                                                                                        | <b>15. DATE BORING</b>                                                                                                           |                      | <b>STARTED</b><br>05-21-24 08:57     | <b>COMPLETED</b><br>05-21-24 |
| <b>8. TOTAL DEPTH OF BORING</b> 3.0 Ft.                                                                            |                           |                                                          |                                                                                                                                                                                                        | <b>16. ELEVATION TOP OF BORING</b> -2.0 Ft.                                                                                      |                      |                                      |                              |
|                                                                                                                    |                           |                                                          |                                                                                                                                                                                                        | <b>17. TOTAL RECOVERY FOR BORING</b> 2.2 Ft.                                                                                     |                      |                                      |                              |
|                                                                                                                    |                           |                                                          |                                                                                                                                                                                                        | <b>18. SIGNATURE AND TITLE OF INSPECTOR</b><br>A. Freeze                                                                         |                      |                                      |                              |
| <b>ELEV. (ft.)</b><br>-2.0                                                                                         | <b>SCALE (ft.)</b><br>0.0 | <b>LEGEND</b>                                            | <b>CLASSIFICATION OF MATERIALS</b><br>Depths and elevations based on measured values                                                                                                                   | <b>% REC.</b>                                                                                                                    | <b>BOX OR SAMPLE</b> | <b>REMARKS</b>                       |                              |
| -2.6                                                                                                               | 0.6                       |                                                          | Silty SAND; fine quartz sand, little organic silt/plant fibers in laminations and layers, loose, grayish brown (2.5Y-5/2) and, black (2.5Y-2.5/1), (SM).                                               |                                                                                                                                  |                      |                                      |                              |
| -2.9                                                                                                               | 0.9                       |                                                          | PEAT; trace fine quartz sand, loose/soft, black (2.5Y-2.5/1), (PT).                                                                                                                                    |                                                                                                                                  |                      |                                      |                              |
| -3.6                                                                                                               | 1.6                       |                                                          | Fat organic SILT; trace fine quartz sand in burrows and laminations, medium plasticity, very soft, possible clay, slight organic odor present, black (2.5Y-2.5/1) and, grayish brown (2.5Y-5/2), (OH). |                                                                                                                                  |                      |                                      |                              |
| -4.0                                                                                                               | 2.0                       |                                                          | Silty SAND; fine quartz sand, little organic silt/plant fibers in laminations and layers, loose, grayish brown (2.5Y-5/2) and, black (2.5Y-2.5/1), (SM).                                               |                                                                                                                                  |                      |                                      |                              |
| -4.2                                                                                                               | 2.2                       |                                                          | PEAT; trace fine quartz sand, loose/soft, black (2.5Y-2.5/1), (PT).                                                                                                                                    |                                                                                                                                  |                      |                                      |                              |
|                                                                                                                    |                           |                                                          | End of Boring                                                                                                                                                                                          |                                                                                                                                  |                      |                                      |                              |

FLORIDA DEP ROSS CUMMINS CEDERBERG, PHILLIPPI CREEK, FL (2024), GPJ FL DEP ROSS GDT 6/7/24