

Core collection forms\_accepted\_UR

Core processing forms\_UR

Field Logbooks UR

Hand-collected short cores\_UR

Surface grab forms\_UR

Project: LDW AOCY UR PA 3  
 Date: 12/12/22  
 Weather: 40s, rain  
 Logged By: K. McPeak

Location ID: SC750  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: KM

Field Collection Coordinates:  
 Lat/Northing: 197617.19

Long/Easting: 1273266.85

**A. Water Depth**  
 DTM Depth Sounder:      ft  
 DTM Lead Line: -18.4 ft

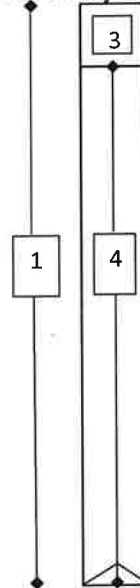
**B. Tide Level Measurement**  
 Time: 0926  
 Height: +12.08 ft  
 Source: RTK

**C. Mudline Elevation**  
-6.3 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 10.00 ft
- 3. Headspace Measurement: 3.50 ft
- 4. Field Recovery Depth: 8.50 ft
- 5. Field Recovery Percentage: 85.0%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 8.65 ft
- 8. Adjusted Recovery Percentage: 80.5%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-I
- B: see core
- C: processing log
- D:

**Drive Notes:**

smooth drive with no resistance for first 5 ft, then resistance at 5 ft, refusal at 10 ft

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of 8ft core

Project: ADCS OR Phase 3  
 Date: 12.17.22  
 Weather: ADS overcast  
 Logged By: TDO

Location ID: SC 751  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:

Lat/Northing: 197041.0

Long/Easting: 1273286.7

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: 21.1 ft

B. Tide Level Measurement

Time: 1056  
 Height: + 7.50 ft  
 Source: RTK tide station

C. Mudline Elevation

- 13.6 (ft MLLW)

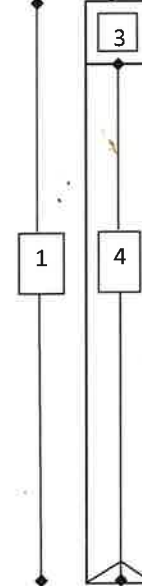
Core Collection Recovery Details:

1. Core Tube Length: 16.00 ft
2. Penetration Depth: 15.00 ft
3. Headspace Measurement: 3.00 ft
4. Field Recovery Depth: 13.00 ft
5. Field Recovery Percentage: 86.7
6. Core Accepted: (Yes) No
7. Processing Recovery Depth: 12.17 ft
8. Adjusted Recovery Percentage: 81.1

Drive Notes:

Easy drive w/light throttle, some resistance around 7 ft., continues w/light throttle to full pen.

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-N  
 B: See core processing log  
 C: processing log  
 D: \_\_\_\_\_

Shoe Description: f. sand w/lt. silt

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12.6 ft)  
(12.6-13 ft) shoe - not used.  
cut at 4 ft: f. sand/silt  
cut at 8 ft: f. sand/silt  
cut at 12.6 ft: f. sand w/silt.

Additional Notes: 1 ft. slope at location

Met target of -25 ft mllw

Project: LOW AOC4 UR Ph 3  
 Date: 12/12/22  
 Weather: 40s, rain  
 Logged By: K. McPeak

Location ID: SC752  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: KM

Field Collection Coordinates:  
 Lat/Northing: 197513.16

Long/Easting: 1273383.76

**A. Water Depth**  
 DTM Depth Sounder: \_\_\_\_\_ ft  
 DTM Lead Line: -18.1 ft

**B. Tide Level Measurement**  
 Time: 1101  
 Height: +10.57 ft  
 Source: RTK

**C. Mudline Elevation**  
-7.5 (ft MLLW)

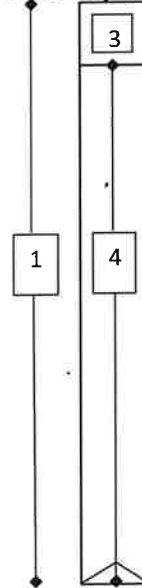
**Core Collection Recovery Details:**

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 8.70 ft
- 3. Headspace Measurement: 5.00 ft
- 4. Field Recovery Depth: 7.00 ft
- 5. Field Recovery Percentage: 80.5%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 6.81 ft
- 8. Adjusted Recovery Percentage: 78.3

**Drive Notes:**

Smooth drive to 6 ft, some resistance at 6 ft, bit refused at 8.7 ft

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See core
- C: processing log
- D: \_\_\_\_\_

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:** Target core length is 8 ft; recovered 7 ft. Will attempt again. This attempt is the best of 3; will be processed  
Met target of 8 ft core drive



Sediment Core Collection Form

Project: ADDY DR Phase 3  
 Date: 12.07.22  
 Weather: 40S overcast  
 Logged By: TDO

Location ID: SC 752, SC 753  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DP, TI, DJ

Field Collection Coordinates:  
 Lat/Northing: 197537.9

Long/Easting: 1273407.2

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: 71.3 ft

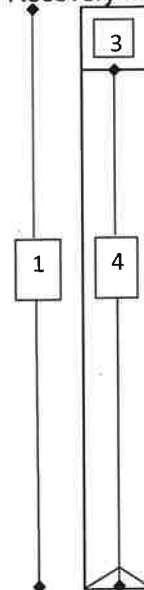
**B. Tide Level Measurement**  
 Time: 1008  
 Height: +7.63 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
-13.4 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 16.00 ft
- 2. Penetration Depth: 15.00 ft
- 3. Headspace Measurement: 3.10 ft
- 4. Field Recovery Depth: 12.90 ft
- 5. Field Recovery Percentage: 86.0
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 12.57 ft
- 8. Adjusted Recovery Percentage: 83.8

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-N
- B: See core
- C: processing log
- D: \_\_\_\_\_

**Drive Notes:**

Easy drive to 16.5-7 ft, some resistance then continues w/light throttle to full pen.

Shoe Description: silt w/f-sand

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12.4 ft)  
(12.4 to 12.9 ft) shoe not used  
cut at 4 ft - f-sand w/silt  
cut at 8 ft - f-sand w/silt  
cut at 12.4 ft - f-sand w/silt

**Additional Notes:**

1 ft slope at this location.  
met target of -25 ft min

Project: ACCU DR Phase 3  
 Date: 12.13.22  
 Weather: 10 40s overcast  
 Logged By: TD

Location ID: SC754  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, PD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 197443.3

Long/Easting: 1273481.4

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -16.60 ft

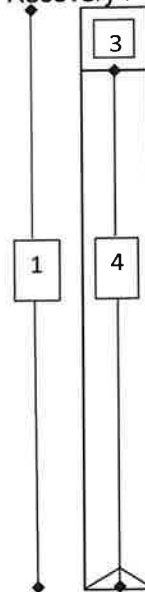
**B. Tide Level Measurement**  
 Time: 1528  
 Height: +6.91 ft  
 Source: ETK tide station

**C. Mudline Elevation**  
 -9.7 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 2.90 ft
- 4. Field Recovery Depth: 7.10 ft
- 5. Field Recovery Percentage: 78.9
- 6. Core Accepted (Yes) No
- 7. Processing Recovery Depth: 6.53 ft
- 8. Adjusted Recovery Percentage: 72.6%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See core
- C: processing log
- D:

**Drive Notes:**

v. light throttle, flattens out ~ 4.5 ft, continues to full pen.

Shoe Description: silt w/ f. sand

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-6.6)  
 (6.6-7.1) shoe not used.  
 4' cut: f-sand  
 6.6' cut: silt & f-sand

**Additional Notes:** 1 ft slope adjustment

met target of 8 ft core drive

Project: ACCU VR Phase 3  
 Date: 12.07.22  
 Weather: 40S overcast  
 Logged By: TDO

Location ID: SC755  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DS

Field Collection Coordinates:  
 Lat/Northing: 197460.7

Long/Easting: 1273501.0

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: 22.9 ft

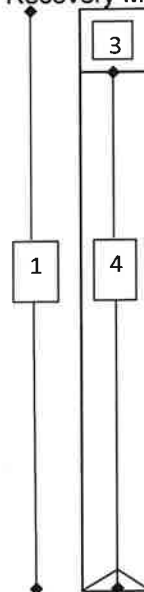
**B. Tide Level Measurement**  
 Time: 0920  
 Height: +8.19 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
-14.7 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 16.00 ft
- 2. Penetration Depth: 15.00 ft
- 3. Headspace Measurement: 3.10 ft
- 4. Field Recovery Depth: 12.90 ft
- 5. Field Recovery Percentage: 86.0
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 12.11 ft
- 8. Adjusted Recovery Percentage: 80.7

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-N
- B: See core processing log
- C:
- D:

**Drive Notes:**

gentle throttle, controlled descent.  
Slight resistance ~2.5 ft, then  
steady advance, slows down ~10ft.  
1/4 throttle to full pen.

Shoe Description: silt w/ f. sand.

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft)(4-8 ft)(8-12.4 ft)  
(12.4-12.9 ft) shoe not used  
cut at 4 ft - silt & f. sand w/ organic material  
cut at 8 ft - silt & f. sand.  
cut at 12.4 ft - silt & f. sand.

Additional Notes: 1 ft. slope at this location.

Met target of -25 ft MLLW



Project: LDW AOC4 VP Phase 3  
 Date: 12-5-2022  
 Weather: Cloudy, 30s  
 Logged By: S. Riplinger

Location ID: SC756  
 Attempt No.: 1  
 Core Type: Intertidal (Subtidal) Shoaling  
 Field Staff: SR

Field Collection Coordinates:  
 Lat/Northing: 19 7397.51

Long/Easting: 1273671.12

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: 24.5 ft

**B. Tide Level Measurement**

Time: 0933  
 Height: +6.74 ft  
 Source: RTK

**C. Mudline Elevation**

-17.8 (ft MLLW)

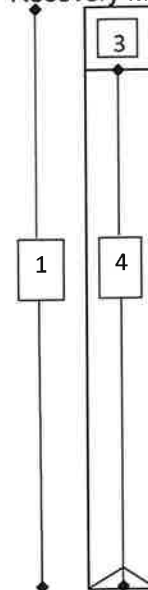
**Core Collection Recovery Details:**

- 1. Core Tube Length: 5.00 ft
- 2. Penetration Depth: 3.00 ft
- 3. Headspace Measurement: 2.09 ft
- 4. Field Recovery Depth: 2.91 ft
- 5. Field Recovery Percentage: 97.0%
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 2.81 ft
- 8. Adjusted Recovery Percentage: 93.7%

**Drive Notes:**

Smooth drive to 3 ft target.

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: 0-60 cm  
 (56.2)

B:  
 C:  
 D:

**Shoe Description:**

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of 2 ft core

Project: AOC4 DR Phase 3  
 Date: 12.13.22  
 Weather: 10 40s overcast  
 Logged By: TDO

Location ID: SC757  
 Attempt No.: 2  
 Core Type: Intertidal ~~Subtidal~~ Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 197225.4

Long/Easting: 1273704.5

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: -16.7 ft

**B. Tide Level Measurement**

Time: 1336  
 Height: +7.94 ft  
 Source: RTK tide station

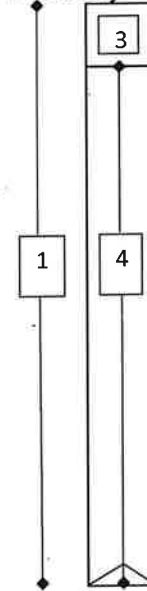
**C. Mudline Elevation**

-8.8 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 3.60 ft
- 4. Field Recovery Depth: 6.40 ft
- 5. Field Recovery Percentage: 71.1% *TR*
- 6. Core Accepted: Yes/No *OK per Suzanne*
- 7. Processing Recovery Depth: 5.60 ft *best of 3* ft
- 8. Adjusted Recovery Percentage: 62.3

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See core processing log
- C:
- D:

**Drive Notes:**

Freefall of ~2.7 ft.  
 v. light throttle, little movement,  
 continue light throttle to full pen

Shoe Description: f-m sand

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-5.9)  
 (5.9-6.4) shoe; not used  
 4' cut: f-m sand w/silt  
 6.4' cut: f-m sand

**Additional Notes:**

1 ft slope adjustment ~ 5.1 ft off target  
 Keep & process (per Suzanne) - Best of 3 tries, closest to target location.  
 Met target of 8 ft core drive, but < 75% recovery.



Project: AOC4 VE Phase 3  
 Date: 12-08-22  
 Weather: 40s NWCAST  
 Logged By: TRD

Location ID: SC758  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TP, DD, TT, D

Field Collection Coordinates:  
 Lat/Northing: 197248.7

Long/Easting: 1273727.4

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: - 23.0 ft

**B. Tide Level Measurement**

Time: 1429  
 Height: +9.75 ft  
 Source: PTC tide station

**C. Mudline Elevation**

-13.3 (ft MLLW)

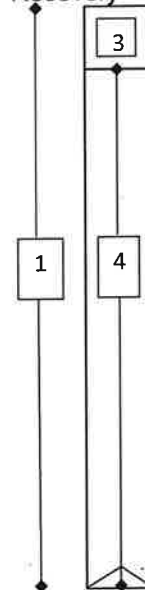
**Core Collection Recovery Details:**

- 1. Core Tube Length: 15.00 ft
- 2. Penetration Depth: 14.00 ft
- 3. Headspace Measurement: 1.60 ft
- 4. Field Recovery Depth: 13.40 ft
- 5. Field Recovery Percentage: 95.7
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 12.93 ft
- 8. Adjusted Recovery Percentage: 92.4%

**Drive Notes:**

~6.5 ft controlled free fall  
 light throttle, easy drive to full  
 pen.

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M
- B: See core
- C: processing log
- D:

Shoe Description: f. sand w/silt

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4) (4-8) (8-11) (11-13)  
 (13-13.4) shoe, not used.  
 4 ft cut: silt, org material, light sheen @ surface  
 8 ft cut: silt w/ f-sand  
 11 ft cut: silt w/ f-sand  
 13 ft cut: f-sand w/silt

**Additional Notes:**

Met target at -25 ft MLLW

Project: AOCA DE Phase 3  
 Date: 12-09-22  
 Weather: hi 30s, overcast  
 Logged By: TDO

Location ID: SC759  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TT, DD, TD, BS

Field Collection Coordinates:  
 Lat/Northing: 197260.26

Long/Easting: 1273858.11

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: ~ 27.1 ft

**B. Tide Level Measurement**  
 Time: 0958  
 Height: + 10.07 ft  
 Source: RTK tide station

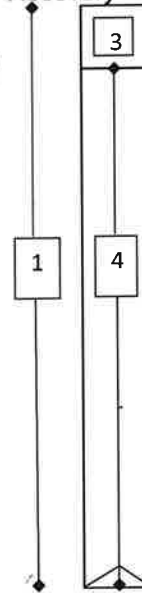
**C. Mudline Elevation**  
- 17.0 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 4.00 ft
- 3. Headspace Measurement: 2.00 ft
- 4. Field Recovery Depth: 8.00 ft
- 5. Field Recovery Percentage: 80.0
- 6. Core Accepted  Yes  No
- 7. Processing Recovery Depth: 7.25 ft
- 8. Adjusted Recovery Percentage: 90.6

Drive Notes: v. light throttle, slight deceler at 6ft, to full pen.

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See Core
- C: processing lab
- D:

Shoe Description: f. sand w/ silt

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-7.5)  
(7.5-8.00) shoe, not used.  
cut @ 4ft: silt w/ f. sand  
cut @ 7.5ft: f. sand w/ silt

Additional Notes:  
Met target of -25 ft MLLW

Project: LDW AOC4 UR Phase3  
 Date: 12-7-2022  
 Weather: mostly cloudy, 40s  
 Logged By: S. Replinger

Location ID: SC760  
 Attempt No.: 1  
 Core Type: Intertidal (Subtidal) Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 197090.71

Long/Easting: 1273964.48

A. Water Depth

DTM Depth Sounder: --- ft  
 DTM Lead Line: 19.2 ft

B. Tide Level Measurement

Time: 1330  
 Height: +9.39 ft  
 Source: RTK

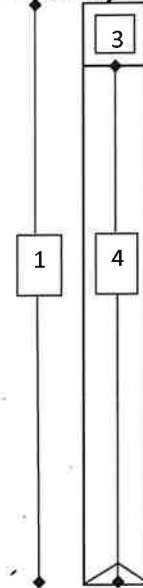
C. Mudline Elevation

-9.8 (ft MLLW)

Core Collection Recovery Details:

- 1. Core Tube Length: 12.10 ft
- 2. Penetration Depth: 10.00 ft
- 3. Headspace Measurement: 3.88 ft
- 4. Field Recovery Depth: 8.22 ft
- 5. Field Recovery Percentage: 82.2%
- 6. Core Accepted: (Yes) / No
- 7. Processing Recovery Depth: 8.25 ft
- 8. Adjusted Recovery Percentage: 61.5

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-I
- B: See core processing log
- C:
- D:

Drive Notes:

Slow & steady drive  
 hit resistance right at 10 ft  
 (target drive depth)

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Met target of 8 ft core drive



Project: ADC4 UR Phase 3  
 Date: 12.08.22  
 Weather: 40S overcast  
 Logged By: TDO

Location ID: SC761  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, JT, DJ

Field Collection Coordinates:  
 Lat/Northing: 197107.2

Long/Easting: 1273080.5

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: ~~-22.1~~ ft ~~20~~  
 -22.1

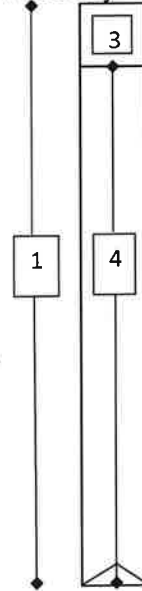
**B. Tide Level Measurement**  
 Time: 1347  
 Height: +9.15 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
 -13.0 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 15.00 ft
- 2. Penetration Depth: 14.00 ft
- 3. Headspace Measurement: 2.20 ft
- 4. Field Recovery Depth: 12.80 ft
- 5. Field Recovery Percentage: 91.4%
- 6. Core Accepted: Yes/No
- 7. Processing Recovery Depth: 12.20 ft
- 8. Adjusted Recovery Percentage: 81.1%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-m
- B: See core processing log
- D:

**Drive Notes:**

~5 ft of freefall  
 light throttle, controlled descent  
 to full pen.

Shoe Description: silt & f sand w/organics

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-8)(8-12.3 ft)  
 (12.3-12.8) shoe - not used  
 4ft cut - silt w/f. sand  
 8ft cut - silt w/f. sand  
 12.3ft cut - f. sand w/silt

**Additional Notes:**

~5 ft unconsolidate material at surface (freefall)  
 Met target of -25 ft mllw

Project: AOC4 VR Phase 3  
 Date: 12.07.22  
 Weather: ADS overcast  
 Logged By: TDO

Location ID: SC762  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, BT

Field Collection Coordinates:  
 Lat/Northing: 197015.3

Long/Easting: 1273981.0

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: ~ 24.4 ft

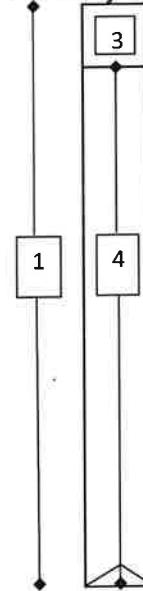
**B. Tide Level Measurement**  
 Time: 1414  
 Height: + 10.00 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
 - 14.4 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 15.00 ft
2. Penetration Depth: 14.00 ft
3. Headspace Measurement: 2.50 ft
4. Field Recovery Depth: 12.50 ft
5. Field Recovery Percentage: 89.3
6. Core Accepted: (Yes) / No
7. Processing Recovery Depth: 12.20 ft
8. Adjusted Recovery Percentage: 87.0

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M.  
 B: See core processing log  
 C: Log  
 D:

**Drive Notes:**

1 ft of free fall  
 controlled drive < 1/4 throttle  
 resistance ~ 4.5 ft. increase to 1/4  
 throttle, steady advance to full pen.

Shoe Description: silt, to fine sand.

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12 ft)  
 (12-12.5) shoe - not used  
 4 ft cut - silt w/ f. sand and organics, H<sub>2</sub>S/sewage odor.  
 8 ft cut - silt w/ tr. f. sand, no odor  
 12 ft cut - silt w/ tr. f. sand.

**Additional Notes:**

Met target of -25 ft MLLW



Project: ADCU DR Phase 3  
 Date: 12-07-22  
 Weather: 40s, overcast  
 Logged By: TDO

Location ID: SC763  
 Attempt No.: 4  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DP, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 196947.8

Long/Easting: 1274250.0

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -25.2 ft

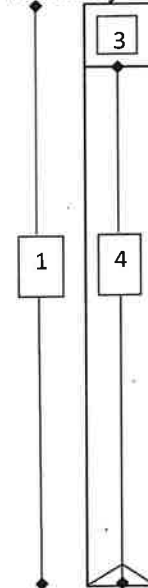
**B. Tide Level Measurement**  
 Time: 1322  
 Height: +9.16 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
-16.0 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 16.00 ft. ft
2. Penetration Depth: 10.00 ft. DR ft
3. Headspace Measurement: 6.70' ft
4. Field Recovery Depth: 9.30 ft
5. Field Recovery Percentage: 93.0
6. Core Accepted: Yes / No
7. Processing Recovery Depth: 8.56 ft
8. Adjusted Recovery Percentage: 85.4

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-I  
 B: See core  
 C: processing log  
 D: \_\_\_\_\_

**Drive Notes:**

light throttle, sluggishly advancing to ~7.5 ft  
increased to 1/4 throttle, flattens out, slow  
advance to about 10 ft, increase to 1/2  
throttle, not much advance. increased  
to full throttle, refused, no advance.

Shoe Description: (<sup>fine</sup>gravel and coarse sand) to fine sand & silt

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft)(4-6 ft)(6-8.8 ft)  
8.5-9.3 ft shoe  
cut at 4 ft. - coarse sand w/ tr gravel  
cut at 6 ft. - gravel and coarse sand  
cut at 8.8 ft. (<sup>fine</sup>gravel and coarse sand) to fine sand/silt

**Additional Notes:** approx 20 ft south of target (upstream)  
Did not meet target of -30 ft MLLW (-26 ft achieved)

Project: AOC4 OR Phase 3  
 Date: 12.06.22  
 Weather: hi 30's, overcast  
 Logged By: TDO

Location ID: SC764  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, PD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 19° 19' 19.4

Long/Easting: 1274399.9

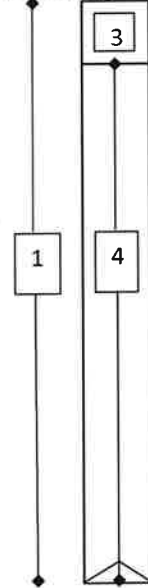
A. Water Depth  
 DTM Depth Sounder: ~ ft  
 DTM Lead Line: ~ 26.1 ft

B. Tide Level Measurement  
 Time: 1400  
 Height: +10.62 ft  
 Source: RTK tide station

C. Mudline Elevation  
 -15.5 (ft MLLW)

- Core Collection Recovery Details:
1. Core Tube Length: 16.00 ft
  2. Penetration Depth: 15.60 ft
  3. Headspace Measurement: .40 ft
  4. Field Recovery Depth: 15.60 ft
  5. Field Recovery Percentage: 100.0
  6. Core Accepted: Yes / No
  7. Processing Recovery Depth: 15.00 ft
  8. Adjusted Recovery Percentage: 96.2

Recovery Measurements (prior to cuts)



- Core Sections To Process:
- A: A-0
  - B: See core
  - C: processing log
  - D:

Drive Notes:  
 gentle throttle to ~ 45 ft.  
 increase to 1/4 throttle to full pen.  
 There was moment of quick advance.  
 (Possible voids in core?)

Shoe Description: silt & f. sand

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

10-4 ft | 4-8 ft | 8-12 ft | 12-15 ft  
 (15-15.6 ft) - shoe not used

Additional Notes: 1 ft slope at location  
 Met target at -30 ft mllw

Project: ADCH DR Phase 3  
 Date: 12.13.22  
 Weather: to 40s, overcast  
 Logged By: TDD

Location ID: SC765  
 Attempt No.: 2  
 Core Type: Intertidal  Subtidal  Shoaling   
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 196540.1

Long/Easting: 1274711.0

**A. Water Depth**  
 DTM Depth Sounder:          ft  
 DTM Lead Line: ~ 30.6 ft

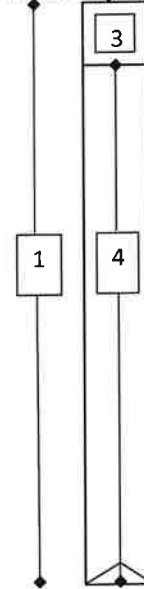
**B. Tide Level Measurement**  
 Time: 1214  
 Height: + 9.44 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
- 21.2 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 10.00 ft
2. Penetration Depth: 9.00 ft
3. Headspace Measurement: 1.30 ft
4. Field Recovery Depth: 8.70 ft
5. Field Recovery Percentage: 96.7
6. Core Accepted:  Yes /  No
7. Processing Recovery Depth: 7.87 ft
8. Adjusted Recovery Percentage: 87.4%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-I  
 B: see core processing log  
 C:           
 D:

**Drive Notes:**

v. light thottle, a little resistance  
~ 7 ft then continues to full pen.  
Easy drive

Shoe Description: m-f sand.

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4) (4-8.2)  
(8.2-8.7) (shoe, not used)  
4' cut - m-f sand w/silt  
8.2' cut - m-f sand.

**Additional Notes:** 0 ft slope adjustment.

Met target of -26 ft MLLW



Project: ACC4 VR Phase 3  
 Date: 12.09.22  
 Weather: 16W40S ONNECAST  
 Logged By: TDO

Location ID: SC 767  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 1916472.7

Long/Easting: 12745919

**A. Water Depth**

DTM Depth Sounder:      ft  
 DTM Lead Line: -14.9 ft

**B. Tide Level Measurement**

Time: 1245  
 Height: +8.34 ft  
 Source: RTK tide station

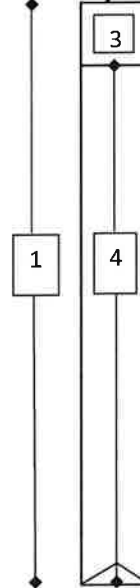
**C. Mudline Elevation**

-6.4 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 10.00 ft
2. Penetration Depth: 6.50 ~~to 25 5.90 6.50~~ ft
3. Headspace Measurement: 3.30 ft
4. Field Recovery Depth: 6.70 ft
5. Field Recovery Percentage: 103.1
6. Core Accepted: Yes No
7. Processing Recovery Depth: 5.84 ft
8. Adjusted Recovery Percentage: 89.8

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-F  
see core  
 B: processing form  
 C:       
 D:

**Drive Notes:**

v. light throttle, hit resistance ~ 4ft  
slowly advancing to ~ 6 ft,  
Hit refusal

**Shoe Description:**

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-3 ft) (3-6.7)  
(6.3-6.7) shoe  
3' cut coarse sand w/ gravel  
6.3' cut coarse sand w/ angular gravel

**Additional Notes:**

Did not meet target of 8 ft core (6.5 ft penetration); hit refusal.  
Accepted best of 3 cores.

Project: AOC4 VR Phase 3  
 Date: 12.06.22  
 Weather: hi 30's, overcast  
 Logged By: TDC

Location ID: SC768  
 Attempt No.:  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, JJ, DJ

Field Collection Coordinates:  
 Lat/Northing: 196493.2

Long/Easting: 1274601.4

A. Water Depth  
 DTM Depth Sounder: \_\_\_\_\_ ft  
 DTM Lead Line: -20.5 ft

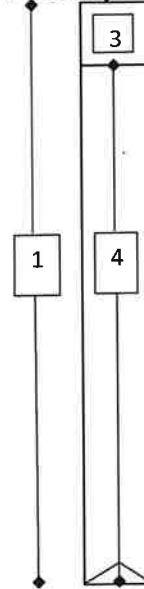
B. Tide Level Measurement  
 Time: 1204  
 Height: 10.66 ft  
 Source: RTK Tide Station

C. Mudline Elevation  
 -11.0 (ft MLLW)

Core Collection Recovery Details:

1. Core Tube Length: 16.00 ft
2. Penetration Depth: 15.00 ft
3. Headspace Measurement: 1.90 ft
4. Field Recovery Depth: 14.10 ft
5. Field Recovery Percentage: 94.0
6. Core Accepted:  Yes  No
7. Processing Recovery Depth: 13.62 ft
8. Adjusted Recovery Percentage: 90.8

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M  
 B: See Core  
 C: processing log  
 D:

Drive Notes:

Easy 1/4 throttle to 2.5 ft., flattens out @ 4 ft., slower but advancing when speeds up at 6 ft., flattens out @ 9 ft., increase to 1/2 throttle, slow advance, full throttle breaks through, then 1/2 throttle at 10 ft. to full pen (soft stuff).

Shoe Description: silt w/f. sand

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Shoaling material: -11.8 to -15.0 ft = 3.2 ft.  
 (0-4 ft)(4-8 ft)(8-12 ft)(12-13.7 ft)  
 (13.7-14.1 ft) shoe-not used.

top of core has organic "sewer" odor  
 Angular gravel & coarse sand around 4' cut

Additional Notes: 2 ft. slope at location

Met target of -26 ft MLLW



Project: ADC4 OR Phase 3  
 Date: 12.06.22  
 Weather: hi 30s overcast  
 Logged By: TDO

Location ID: SC 769  
 Attempt No.: 1  
 Core Type: Intertidal ~~Subtidal~~ Shoaling  
 Field Staff: TD, DD, TT, DS

Field Collection Coordinates:

Lat/Northing: 196284.1

Long/Easting: 1274856.4

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: -16.6 ft

B. Tide Level Measurement

Time: 1003  
 Height: +7.21 ft  
 Source: RTK tide station

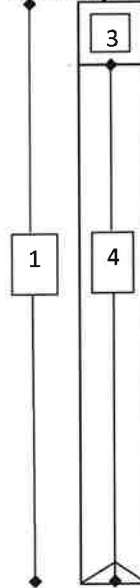
C. Mudline Elevation

-9.4 (ft MLLW)

Core Collection Recovery Details:

- 1. Core Tube Length: 16.00 ft
- 2. Penetration Depth: 16.60 ft
- 3. Headspace Measurement: 2.40 ft
- 4. Field Recovery Depth: 13.60 ft
- 5. Field Recovery Percentage: 85.0
- 6. Core Accepted: (Yes) / No
- 7. Processing Recovery Depth: 13.1 ft
- 8. Adjusted Recovery Percentage: 81.9

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: \_\_\_\_\_
- B: \_\_\_\_\_
- C: \_\_\_\_\_
- D: \_\_\_\_\_

Drive Notes:

gentle throttle a little resistance at around 6.5 ft, then gentle throttle (< 1/4) to full pen.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

shoaling material -9.4 to -15.0 = 5.6 ft  
 (0-4 ft)(4-8 ft)(8-11)(11-13.1)  
 (13.1-13.6) - shoe not used

Additional Notes: ~ 2 ft slope at location

met target of -25 ft MLLW

Project: A04 OR Phase 3  
 Date: 12-06-22  
 Weather: hi 30s, overcast  
 Logged By: TJD

Location ID: SC770  
 Attempt No.: 1  
 Core Type: Intertidal ~~Subtidal~~ ~~Shoaling~~  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 196239.7

Long/Easting: 127499.0

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -16.5 ft

**B. Tide Level Measurement**  
 Time: 0904  
 Height: +7.43 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
-9.1 (ft MLLW)

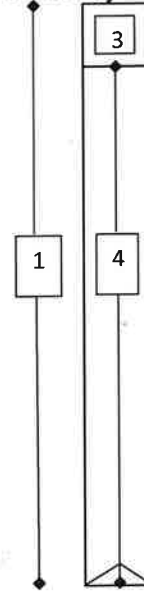
**Core Collection Recovery Details:**

1. Core Tube Length: 18.00 ft
2. Penetration Depth: 17.00 ft
3. Headspace Measurement: 3.60 ft
4. Field Recovery Depth: 14.40 ft
5. Field Recovery Percentage: 80.0
6. Core Accepted: Yes / No
7. Processing Recovery Depth: 14.2 ft
8. Adjusted Recovery Percentage: 83.5

**Drive Notes:**

easy drive, gentle throttle,  
flattens out ~ 13.5 ft, still  
gentle throttle to full penetration

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-L  
 B: See core processing log  
 C: processing log  
 D: \_\_\_\_\_

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

shoaling material: -16.5 - 9.1 ft to -15 ft = 5.9 ft.  
(0-4 ft) (4-8 ft) (8-12 ft) (12-13.9 ft)  
(13.9-14.4 ft) shoe, not used

**Additional Notes:** ~ 2 ft. slope at this location.

Met target of -25 ft MLLW

Project: LDW AOC4UR Phase 3  
 Date: 12-5-2022  
 Weather: cloudy, 30s  
 Logged By: S. Reppinger

Location ID: SC771  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 195851.46

Long/Easting: 1275125.46

A. Water Depth

DTM Depth Sounder: - ft

DTM Lead Line: 9.5 ft

B. Tide Level Measurement

Time: 0833

Height: +6.62 ft

Source: RTK

C. Mudline Elevation

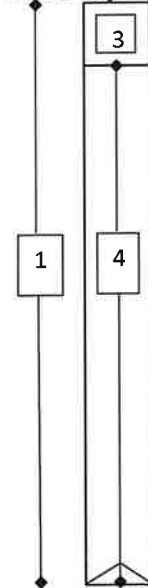
~~-2.8~~ -2.9 ft (ft MLLW)

(SR)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 ft
- 2. Penetration Depth: 3.5 ft
- 3. Headspace Measurement: 1.75 ft
- 4. Field Recovery Depth: 3.25 ft
- 5. Field Recovery Percentage: 93%
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: ~~3.12~~ 3.12 ft
- 8. Adjusted Recovery Percentage: 89.1

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: 0-60 cm

B: (53.5)

C:

D:

Drive Notes:

Smooth drive to 3.5 ft

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Per OAPP, process as subtidal core even though elevation above -4 ft. (consistent with intended use of mooring)

Met target of 2 ft core.





Project: AOC4 VR Phase 3  
 Date: 12.05.22  
 Weather: hi 30s overcast  
 Logged By: TJD

Location ID: SC775  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 195885.2

Long/Easting: 1275303.1

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -16.10 ft

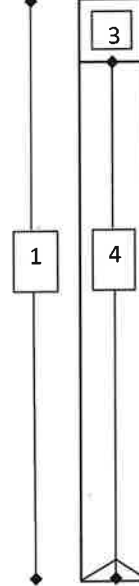
**B. Tide Level Measurement**  
 Time: 0937  
 Height: +6.74 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
 -9.36 (ft MLLW)  
 -9.4 TW

**Core Collection Recovery Details:**

1. Core Tube Length: 18.00 ft
2. Penetration Depth: 18.00 ft
3. Headspace Measurement: 1.40 ft
4. Field Recovery Depth: 16.60 ft
5. Field Recovery Percentage: 92.2
6. Core Accepted  Yes / No
7. Processing Recovery Depth: 16.1 ft
8. Adjusted Recovery Percentage: 89.4

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M  
 B: See core  
 C: processing log  
 D:

**Drive Notes:**

Resistance at ~ 8 ft.  
 < 1/4 throttle  
 push down to full pen.

Shoe Description: ~~RTA~~ sand/silt

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

shoal: -9.36 ft - 15.00 ft = 5.64 ft  
 (0-4 ft) (4-8 ft) (8-12 ft) (12-16.1 ft)  
 (16.1-16.6 ft) - shoe not kept

**Additional Notes:**

Met target of -23 ft MLLW





Project: AD04 UR Phase 3  
 Date: 12.09.22  
 Weather: hi 30's, overcast  
 Logged By: TDO

Location ID: SL 777  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TL, DD,

Field Collection Coordinates:  
 Lat/Northing: 195696.5

Long/Easting: 1275594.D

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: - 27.8 ft

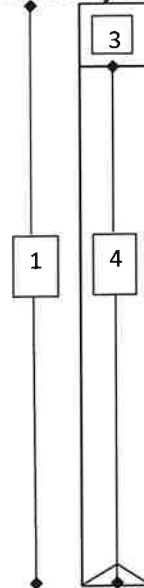
**B. Tide Level Measurement**  
 Time: 0852  
 Height: 11.24 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
- 16.7 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 15.00 ft
2. Penetration Depth: 14.00 ft
3. Headspace Measurement: 4.20 ft
4. Field Recovery Depth: 10.80 ft
5. Field Recovery Percentage: 77.1
6. Core Accepted: Yes / No
7. Processing Recovery Depth: 10.3 ft
8. Adjusted Recovery Percentage: 72.9

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M  
 B: see core  
 C: processing log  
 D: \_\_\_\_\_

**Drive Notes:**

Firmer drive, bumped to 1/4 throttle, back to light, pockets of resistance. 1/4 throttle, layers of resistance to fill pen.

Shoe Description: f. sand.

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-8)(8-10.3)  
(10.3-10.8 ft) not used (shoe)  
cut @ 4 ft. silt w/ f. sand.  
cut @ 8 ft. silt w/ f. sand.  
cut @ 10.3 ft. - fine sand

**Additional Notes:**

Net target of -26 ft MLLW

Project: LDW AOC4 UR Phase 3  
 Date: 12/9/22  
 Weather: 40s, cloudy  
 Logged By: K. McPook

Location ID: SC778  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: KM

Field Collection Coordinates:  
 Lat/Northing: 195714.97

Long/Easting: 1275638.77

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: 31.5 ft

**B. Tide Level Measurement**

Time: ~~0748~~ 0756  
 Height: ~~12.17~~ +11.98 ft  
 Source: RTK

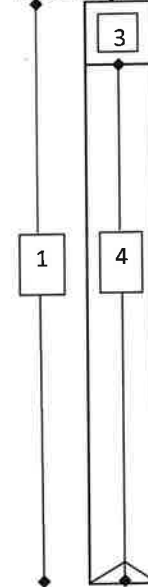
**C. Mudline Elevation**

- 19.5 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 7.50 ft
- 3. Headspace Measurement: 4.70 ft
- 4. Field Recovery Depth: 7.30 ft
- 5. Field Recovery Percentage: 97.3
- 6. Core Accepted: (Yes) / No
- 7. Processing Recovery Depth: 6.83 ft
- 8. Adjusted Recovery Percentage: 96.1%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-FAG
- B: See core
- C: processing log
- D:

**Drive Notes:**

smooth drive (no resistance)

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of -26 ft MLLW



Project: ADOC UR Phase 3  
 Date: 12.09.22  
 Weather: hi 30s, overcast  
 Logged By: TDO

Location ID: SC779  
 Attempt No.: 1  
 Core Type: Intertidal  Subtidal  Shoaling   
 Field Staff: TT, DB, TT, DS

Field Collection Coordinates:  
 Lat/Northing: 19552.6

Long/Easting: 1275710.0

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -20.0 ft

**B. Tide Level Measurement**  
 Time: 0809  
 Height: +11.83 ft  
 Source: RTR tide station

**C. Mudline Elevation**  
-16.2 (ft MLLW)

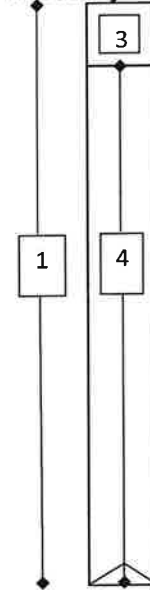
**Core Collection Recovery Details:**

- 1. Core Tube Length: 15.00 ft
- 2. Penetration Depth: 14.00 ft
- 3. Headspace Measurement: 1.90 ft
- 4. Field Recovery Depth: 13.10 ft
- 5. Field Recovery Percentage: 93.6
- 6. Core Accepted  Yes /  No
- 7. Processing Recovery Depth: 12.50 ft
- 8. Adjusted Recovery Percentage: 89.3

**Drive Notes:**

Light throttle, resistance ~ 9 ft in, continue to light throttle to full pen, easy drive.

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M
- B: See core processing log
- C: processing log
- D:

Shoe Description: f sand w/silt

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(10-4)(4-8)(8-12.6)  
(12.6-13.1) shoe, not used  
4ft cut: silt w/c sand  
8ft cut: silt w/c sand, weed debris  
12.6 ft cut: f sand w/silt

**Additional Notes:**

Met target of -26 ft MLLW



Project: LOW AOC4 VR Phase 3  
 Date: 12.5.2022  
 Weather: Cloudy, 30s  
 Logged By: S. Rehringer

Location ID: SC780  
 Attempt No.: 2  
 Core Type: Intertidal (Subtidal) Shoaling  
 Field Staff: SR

Field Collection Coordinates:  
 Lat/Northing: 195542.31

Long/Easting: 1275587.69

**A. Water Depth**

DTM Depth Sounder: - ft  
 DTM Lead Line: -16.0 ft

**B. Tide Level Measurement**

Time: 1023  
 Height: +7.30 ft  
 Source: RTK

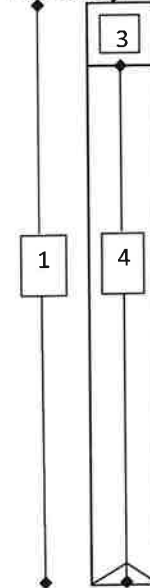
**C. Mudline Elevation**

-8.7 ft (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 5.00 ft
- 2. Penetration Depth: 3.50 ft
- 3. Headspace Measurement: 1.63 ft
- 4. Field Recovery Depth: ~~3.37~~ 3.11 ft
- 5. Field Recovery Percentage: ~~96.3%~~ 88.9%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 2.87 ft
- 8. Adjusted Recovery Percentage: 92.0%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-60cm
- B: (49.2)
- C: \_\_\_\_\_
- D: \_\_\_\_\_

**Drive Notes:**

Smooth drive to target

**Shoe Description:**

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target at 2 ft core.

Project: A004 UR Phase 3  
 Date: 12.13.22  
 Weather: W 30s, overcast  
 Logged By: TDO

Location ID: SC7B1  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 195456.9

Long/Easting: 1275609.0

**A. Water Depth**  
 DTM Depth Sounder: \_\_\_\_\_ ft  
 DTM Lead Line: ~ 19.80 ft

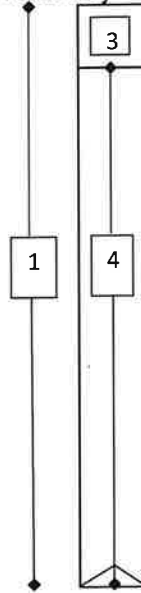
**B. Tide Level Measurement**  
 Time: 1100  
 Height: + 10.90 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
 - 8.9 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 10.00 ft
2. Penetration Depth: 9.00 ft
3. Headspace Measurement: 1.80 ft
4. Field Recovery Depth: 8.20 ft
5. Field Recovery Percentage: 91.1
6. Core Accepted: Yes / No
7. Processing Recovery Depth: 7.58 ft
8. Adjusted Recovery Percentage: 84.2

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H  
 B: See core  
 C: processing log  
 D:

**Drive Notes:**  
 v. light throttle, slight resistance at ~ 4 ft, continues w/ light throttle, slight resistance at ~ 6 ft, continues and stiffens up ~ 8 ft, continues to full pen

Shoe Description: f-sand

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4) (4-7.7)  
 (7.7-8.2) shoe, not used  
 4' cut: silt w/ f-sand  
 7.7' cut: f-sand

**Additional Notes:** 1 ft slope adjustment  
 Met target of 8 ft core drive.

Project: AOC4 VR Phase 3  
Date: 12.05.22  
Weather: hi 30's overcast  
Logged By: TDD

Location ID: SL 702  
Attempt No.: 1  
Core Type: Intertidal (Subtidal) Shoaling  
Field Staff: TD, DD, TI, DJ

Field Collection Coordinates:  
Lat/Northing: 195408.3

Long/Easting: 1275635.4

A. Water Depth  
DTM Depth Sounder: — ft  
DTM Lead Line: 20.3 ft

B. Tide Level Measurement  
Time: ~~0416~~ 1122  
Height: ~~0.7 ft~~ +0.35 ft  
Source: RTK tide station

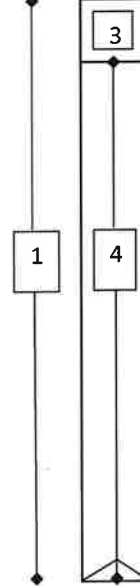
C. Mudline Elevation  
-11.95 (ft MLLW)  
-12.0

Core Collection Recovery Details:

- 1. Core Tube Length: 17.00 ft
- 2. Penetration Depth: 17.00 ft
- 3. Headspace Measurement: 2.00 ft
- 4. Field Recovery Depth: 15.80 ft
- 5. Field Recovery Percentage: 88.8
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 15.52 ft
- 8. Adjusted Recovery Percentage: 87.2

Drive Notes: < 1/4 throttle, slight resistance to ~ 9.5 ft increase throttle

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-0
- B: See core processing log
- C:
- D:

Shoe Description: sand/silt

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12 ft) (12-15.3 ft)  
(15.3-15.8) ft shoe - not used

Additional Notes:

Met target of -26 ft MLLW

Sediment Core Collection Form

Project: AOC4 VR Phase 3  
 Date: 12.12.22  
 Weather: 40s, BKNcast  
 Logged By: ID

Location ID: SC 783  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DT

Field Collection Coordinates:  
 Lat/Northing: 195306.1

Long/Easting: 1275668.3

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: - 18.00 ft

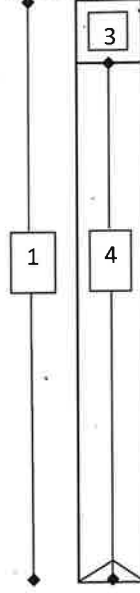
**B. Tide Level Measurement**  
 Time: 1259  
 Height: + 8.20 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
 - 9.8 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 1.60 ft
- 4. Field Recovery Depth: 8.40 ft
- 5. Field Recovery Percentage: 93.3
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 7.97 ft
- 8. Adjusted Recovery Percentage: 88.6

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See Core
- C: processing log
- D:

**Drive Notes:**  
 v. light chumple, flattens out @ 8ft.  
 full pen.

Shoe Description: f. sand

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-7.9)  
 (7.9-8.4) shoe, not used  
 4' cut - f sand & silt  
 7.9' cut - f sand

**Additional Notes:** 1 ft. slope adjustment.  
 Met target of 8 ft core drive



Project: AOC4 VR Phase 3  
 Date: 12.15.22  
 Weather: hi 30s, overcast  
 Logged By: TDo

Location ID: SC784  
 Attempt No.: 1  
 Core Type: Intertidal (Subtidal) Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 195371.2

Long/Easting: 1275691.8

**A. Water Depth**  
 DTM Depth Sounder: - ft  
 DTM Lead Line: -22.1 ft

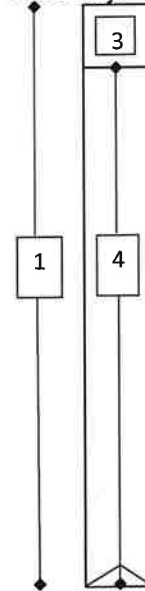
**B. Tide Level Measurement**  
 Time: 1220  
 Height: +9.66 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
~~-12.44~~ (ft MLLW)  
 -12.4

**Core Collection Recovery Details:**

1. Core Tube Length: 16.00 ft
2. Penetration Depth: 17.00 ft
3. Headspace Measurement: 3.50 ft
4. Field Recovery Depth: 14.50 ft
5. Field Recovery Percentage: 85.3
6. Core Accepted: Yes/ No
7. Processing Recovery Depth: ~~14.50~~ 14.37 ft
8. Adjusted Recovery Percentage: 84.5

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-P  
 B: See EOCAGAV  
 C: Core processing log  
 D:

**Drive Notes:**  
 very light thrust, to refusal

Shoe Description: sand/silt/very debris/H<sub>2</sub>S odor

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12 ft) (12-14 ft)  
 (14-14.50 ft) shoe - not used.

**Additional Notes:**  
 Met target of -26 ft MLLW

Project: AOC4 VR Phase 3  
 Date: 12.05.22  
 Weather: 30s, overcast  
 Logged By: TDO

Location ID: SC785  
 Attempt No.: 2  
 Core Type: Intertidal (Subtidal) Shoaling  
 Field Staff: TD, DD, FT, DJ

Field Collection Coordinates:  
 Lat/Northing: 1952701.0

Long/Easting: 1275712.7

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: ~22.3 ft

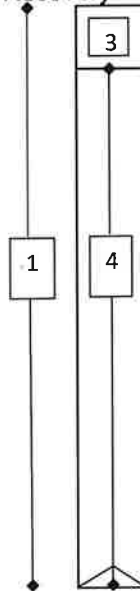
**B. Tide Level Measurement**  
 Time: 1354  
 Height: +11.11 ft  
 Source: RTI tide station

**C. Mudline Elevation**  
 -11.2 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 18.00 ft
- 2. Penetration Depth: 17.00 ft
- 3. Headspace Measurement: 3.10 ft
- 4. Field Recovery Depth: 14.90 ft
- 5. Field Recovery Percentage: 87.6
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 14.76 ft
- 8. Adjusted Recovery Percentage: 86.8

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-P
- B: See core
- C: processing log
- D:

**Drive Notes:**

light throttle to ~10-11 ft, meets resistance, increased throttle to ~12 ft, bouncing off bottom, increase to 1/2 throttle, w/ bouncing to full penetration.

Shoe Description: silt, f. sand

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12 ft) (12-14.4 ft)  
 (14.4-14.9 ft) - shoes not used

**Additional Notes:**

Met target of -26 ft MLLW

Project: ADULT UR Phase 3  
 Date: 12.08.22  
 Weather: 40s, overcast.  
 Logged By: TD

Location ID: SC787  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, BJ

Field Collection Coordinates:  
 Lat/Northing: 195014.4

Long/Easting: 1275928.2

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: ~22.8 ft

**B. Tide Level Measurement**  
 Time: 1127  
 Height: +8.10 ft  
 Source: RTK tide station

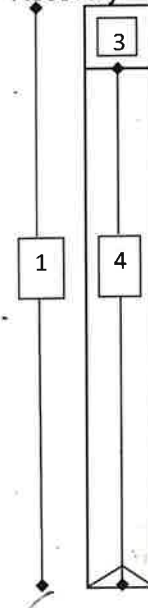
**C. Mudline Elevation**  
-14.0 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 15.00 ft
2. Penetration Depth: 14.00 ft
3. Headspace Measurement: 4.90 ft
4. Field Recovery Depth: 10.10 ft
5. Field Recovery Percentage: 72.1
6. Core Accepted: (Yes) / No *OK per Susac*
7. Processing Recovery Depth: 9.32 ft
8. Adjusted Recovery Percentage: 66.6

**Drive Notes:** 75.0  
Free fall ~ 4.5 ft  
Light throttle, flackens out vs 5-9 ft  
steady advance to full pen

**Recovery Measurements (prior to cuts)**



**Core Sections To Process:**

- A: A-M  
 B: See core processing log  
 C: log  
 D:

**Shoe Description:** f. sand w/silt

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Shoaling material: -14.0 ft to -15.0 ft = 1.0 ft.  
(0-4) (4-7) (7-9.6) (9.6-10.1 - shoe)  
4 ft cut f sand w/silt  
7 ft cut f sandy silt  
9.6 cut f sand w/silt

**Additional Notes:**  
5.0 ft free fall indicates soft unconsolidated material (at surface)  
Met target of -26 ft mllw, but <75% recovery.  
Accepted best of 2 cores.



Project: ADCH UP PULSE  
 Date: 12.13.22  
 Weather: hi 30s, ptly cloudy  
 Logged By: TDO

Location ID: SC 708  
 Attempt No.: 1  
 Core Type: Intertidal (Subtidal) Shoaling  
 Field Staff: TD, DD, TL, DS

Field Collection Coordinates:  
 Lat/Northing: 195027.4

Long/Easting: 1275964.2

**A. Water Depth**

DTM Depth Sounder:        ft  
 DTM Lead Line: -23.20 ft

**B. Tide Level Measurement**

Time: 1028  
 Height: +11.27 ft  
 Source: RTK tide station

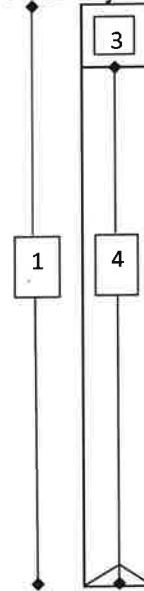
**C. Mudline Elevation**

-11.9 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 10.00 ft
2. Penetration Depth: 9.00 ft
3. Headspace Measurement: 2.80 ft
4. Field Recovery Depth: 7.20 ft
5. Field Recovery Percentage: 80.0
6. Core Accepted: Yes No
7. Processing Recovery Depth: 6.40 ft
8. Adjusted Recovery Percentage: 71.8%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H  
 B: See core  
 C: processing log  
 D:

**Drive Notes:**

v light throttle to full pen.

Shoe Description: f. sand w/silt.

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-6.5)  
(6.5-7.2) shoe, not used  
4' cut: silt w/tr. sand.  
6.8' cut: f. sand w/silt

Additional Notes: 1 ft. slope adjustment, near toe of slope

Met target of 8 ft core drive



Project: AOC4 VR Phase 3  
 Date: 12-08-22  
 Weather: 40% showers  
 Logged By: T DD

Location ID: IT789  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 19490.3

Long/Easting: 1276043.4

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: 11.20 ft

**B. Tide Level Measurement**

Time: 0817  
 Height: + 11.15 ft  
 Source: RTIC tide station

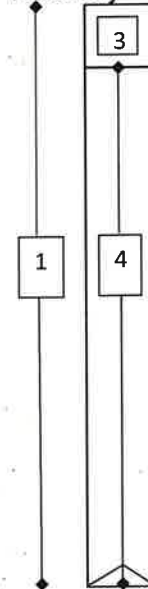
**C. Mudline Elevation**

- 0.1 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 15.00 ft
- 2. Penetration Depth: 14.00 ft
- 3. Headspace Measurement: 3.10 ft
- 4. Field Recovery Depth: 11.9 ft
- 5. Field Recovery Percentage: 85.0
- 6. Core Accepted: Yes/ No
- 7. Processing Recovery Depth: 11.2 ft
- 8. Adjusted Recovery Percentage: 80.0

**Recovery Measurements (prior to cuts)**



**Core Sections To Process:**

- A: A-N
- B: See core processing log
- C:
- D:

**Drive Notes:**

Free fall of 3"  
 1/4 throttle for first 2-3 ft. switch to light throttle, steady advance, ~~as available~~ to 1/2 throttle, sluggish advance to ~11 ft, flattens out around 14 ft. Full throttle no effect. To 1/2 throttle, bouncing around, flattens out at 13.5 then full pen.

Shoe Description: fine sand w/ silt

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-11.4 ft)  
 (11.4-11.9 ft) shoe not used  
 0-4 ft cut: silt w/ hydrocarbon sheen  
 4-8 ft cut: silty, sand  
 8 ft cut: F sand w/ silt  
 11.4 ft cut: F sand w/ silt

**Additional Notes:**

1 ft slope at this location  
 Met target of -12 ft MLLW

Project: POC4 VR Phase 3  
 Date: 12/08/22  
 Weather: 40s showers  
 Logged By: TD

Location ID: IT 790  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TI, DJ

Field Collection Coordinates:  
 Lat/Northing: 194899.5

Long/Easting: 1276054.6

**A. Water Depth**  
 DTM Depth Sounder:        ft  
 DTM Lead Line: 9.0 ft

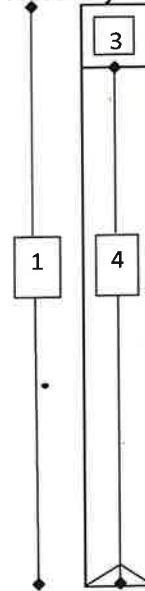
**B. Tide Level Measurement**  
 Time: 0920  
 Height: +9.96 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
+1.0 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 15.00 ft
- 2. Penetration Depth: 14.00 ft
- 3. Headspace Measurement: 0.30 ft
- 4. Field Recovery Depth: 14.70 ft
- 5. Field Recovery Percentage: 105.0
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 13.91 ft
- 8. Adjusted Recovery Percentage: 99.4

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-M
- B: See core
- C: processing log
- D:

**Drive Notes:**  
 Very light throttle to ~2.5 ft.  
 increase throttle, steady drive to 7.5 ft.  
 increase throttle to 1/2, pushed through, steady drive, slowing down so increase to 1/2 throttle, flattens out around 11 ft., slow steady advance until full penetration

Shoë Description: f. to med. sand w/silt

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4 ft) (4-8 ft) (8-12 ft) (12-14.2 ft)  
 4 ft cut: silt w/ tr. f. sand, org material  
 8 ft cut: silt w/ f sand  
 12 ft cut: fine sand w/ silt  
 14.2 ft cut: fine-med. sand w/ silt  
 Sheen at surface, angular gravel too

**Additional Notes:** 1 ft. slope at this location  
Met target of ~~12~~<sup>SP</sup> -12 ft MLLW

Project: ADCA UP Phase 3  
 Date: 12.13.22  
 Weather: hi 30s, sunny  
 Logged By: TDO

Location ID: IT791  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, JT, DJ

Field Collection Coordinates:  
 Lat/Northing: 194926.5

Long/Easting: 1275718.1

**A. Water Depth**

DTM Depth Sounder:          ft  
 DTM Lead Line: - 0.60 ft

**B. Tide Level Measurement**

Time: 0946 0950  
 Height: +11.19 ft  
 Source: RTK tide station

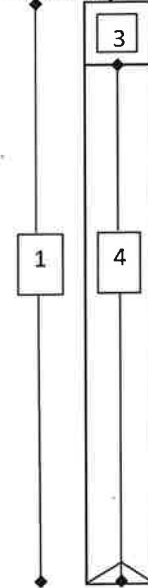
**C. Mudline Elevation**

+3.1 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 2.50 ft
- 4. Field Recovery Depth: 7.50 ft
- 5. Field Recovery Percentage: 83.3
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 7.15 ft
- 8. Adjusted Recovery Percentage: 79.4%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-I
- B: See core processing log
- C: log
- D:

**Drive Notes:**

v 8" of freefall, v. light throttle to ~1ft then resistance, increase to 1/4 throttle briefly then light throttle to full pen.

Shoe Description: f-sand w/ silt

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-7)  
(7-7.5) shoe, not used  
4' cut: silt w/ f. sand.  
7' cut: f-sand w/ silt

**Additional Notes:**

2 ft slope adjustment.  
~~weather at~~  
met target of 6.5 ft core drive



Sediment Core Collection Form

Project: LDW AOC4 UR Phase 3  
 Date: 12.5.2022  
 Weather: cloudy 30S  
 Logged By: S. Replinger

Location ID: ~~IT~~ 1792  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SRL

Field Collection Coordinates:

Lat/Northing: 194807.78 Long/Easting: 1275743.05

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: 4.1 ft

B. Tide Level Measurement

Time: 1100  
 Height: +8.07 ft  
 Source: RTK

C. Mudline Elevation

+4.0 (ft MLLW)

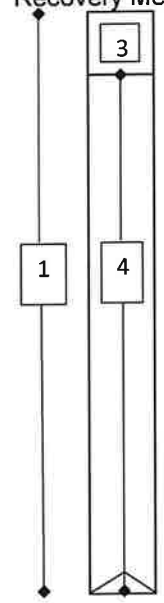
Core Collection Recovery Details:

- 1. Core Tube Length: 5.00 ft ft
- 2. Penetration Depth: 2.30 ft ft
- 3. Headspace Measurement: 3.21 ft ft
- 4. Field Recovery Depth: 1.79 ft ft
- 5. Field Recovery Percentage: 77.8%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 2.00 ft
- 8. Adjusted Recovery Percentage: 67.8%

Drive Notes:

Smooth drive

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-45cm
- B: \_\_\_\_\_
- C: \_\_\_\_\_
- D: \_\_\_\_\_

Shoe Description:

\_\_\_\_\_

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Additional Notes:

Met target at 1.5 ft core



Project: LOW A004 UR PA3  
 Date: 12/12/22  
 Weather: 40s, rain  
 Logged By: K. McPook

Location ID: 17793  
 Attempt No.: 1  
 Core Type: (Intertidal) Subtidal Shoaling  
 Field Staff: KM

Field Collection Coordinates:  
 Lat/Northing: 194737.97

Long/Easting: 1275747.91

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -7.8 ft

**B. Tide Level Measurement**  
 Time: 0826  
 Height: +12.30 ft  
 Source: RTR

**C. Mudline Elevation**  
+4.5 (ft MLLW)

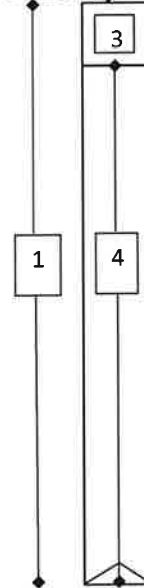
**Core Collection Recovery Details:**

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 6.00 ft
- 3. Headspace Measurement: 6.00 ft
- 4. Field Recovery Depth: 6.00 ft
- 5. Field Recovery Percentage: 100.0%
- 6. Core Accepted: (Yes) / No
- 7. Processing-Recovery Depth: 6.13 ft
- 8. Adjusted Recovery Percentage: — 100%

**Drive Notes:**

Smooth drive to almost 6ft,  
resistance at ~6ft and refusal  
shortly after

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-F
- B: See core
- C: processing log
- D: \_\_\_\_\_

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of -1ft MLLW

Project: LOW AOCY UR PH3  
 Date: 12/12/22  
 Weather: 40s, rain  
 Logged By: K. McPeak

Location ID: IT 795  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: KM

Field Collection Coordinates:  
 Lat/Northing: 194696.90

Long/Easting: 1275744.64

**A. Water Depth**  
 DTM Depth Sounder: — ft  
 DTM Lead Line: -6.6 ft

**B. Tide Level Measurement**  
 Time: 0747  
 Height: +12.09 ft  
 Source: RTK

**C. Mudline Elevation**  
+5.5 (ft MLLW)

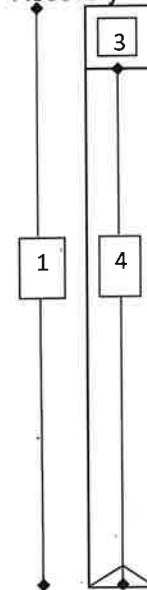
**Core Collection Recovery Details:**

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 7.00 ft
- 3. Headspace Measurement: 5.60 ft
- 4. Field Recovery Depth: 6.40 ft
- 5. Field Recovery Percentage: 91.4%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 6.38 ft
- 8. Adjusted Recovery Percentage: 91.1%

**Drive Notes:**

smooth drive of no resistance to 6 ft,  
 resistance at 6 ft and refused at 7 ft

**Recovery Measurements (prior to cuts)**



**Core Sections To Process:**

- A: A-G
- B: See core
- C: processing log
- D: \_\_\_\_\_

**Shoe Description:**

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of -1 ft mllw

Project: LDN ADCA VR Phase 3  
 Date: 12-5-2022  
 Weather: cloudy, 30s  
 Logged By: SR

Location ID: 1T796  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:  
 Lat/Northing: 194712.77

Long/Easting: 1275803.11

**A. Water Depth**

DTM Depth Sounder:      ft  
 DTM Lead Line: -11.6 ft

**B. Tide Level Measurement**

Time: 1125  
 Height: +8.35 ft  
 Source: RTK

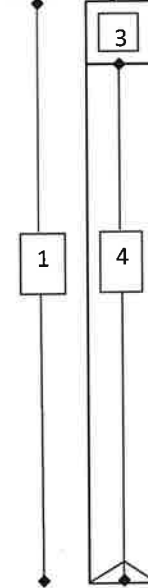
**C. Mudline Elevation**

-3.3 ft (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 5.00 ft ft
- 2. Penetration Depth: 3.00 ft ft
- 3. Headspace Measurement: 2.18 ft
- 4. Field Recovery Depth: 2.82 ft ft
- 5. Field Recovery Percentage: 94.0%
- 6. Core Accepted: (Yes) / No
- 7. Processing Recovery Depth: 2.62 ft
- 8. Adjusted Recovery Percentage: 87.3%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-45 cm
- B: (39.3 cm)
- C:
- D:

**Drive Notes:**

Smooth drive

**Shoe Description:**

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of 1.5 ft core.



Project: LDW AOC4 VR Phase 3  
 Date: 12-5-2022  
 Weather: cloudy 30s  
 Logged By: SR

Location ID: IT798  
 Attempt No.: 1  
 Core Type: (Intertidal) Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 194665.38

Long/Easting: 1275751.73

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: 3.7 ft

B. Tide Level Measurement

Time: 1143  
 Height: +9.02 ft  
 Source: RTK

C. Mudline Elevation

+5.3 ft (ft MLLW)

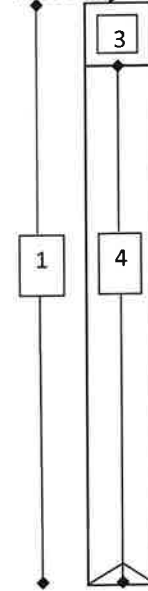
Core Collection Recovery Details:

- 1. Core Tube Length: 5.00 ft
- 2. Penetration Depth: 3.50 ft
- 3. Headspace Measurement: 2.20 ft
- 4. Field Recovery Depth: 2.90 ft
- 5. Field Recovery Percentage: 82.9%
- 6. Core Accepted: (Yes) / No
- 7. Processing Recovery Depth: 3.09 ft
- 8. Adjusted Recovery Percentage: ~~1.00~~ to 88.3%

Drive Notes:

firm surface, but smooth drive

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-45cm (39.7cm)
- B:
- C:
- D:

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Met target of 1.5 ft core.

Project: ADOC VE Phase 3  
 Date: 12.13.22  
 Weather: hi 30s, pthy cloudy  
 Logged By: TAD

Location ID: IT 799  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, JT, DJ

Field Collection Coordinates:  
 Lat/Northing: N14299.4

Long/Easting: 1275832.0

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: 7.9 ft

**B. Tide Level Measurement**

Time: 0813  
 Height: +11.54 ft  
 Source: RTK tide station

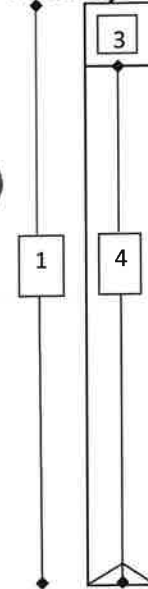
**C. Mudline Elevation**

+3.7 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 10.00 ft
2. Penetration Depth: 9.00 ft
3. Headspace Measurement: 3.60 ft
4. Field Recovery Depth: 6.40 ft
5. Field Recovery Percentage: 71.1 (OK per Suzanne) best of 3
6. Core Accepted: Yes / No
7. Processing Recovery Depth: 5.45 ft
8. Adjusted Recovery Percentage: 60.6%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H  
 B: 5.4-6.4  
 C: processing log  
 D: —

**Drive Notes:**

light thottle to ~6.5 ft, broke through something, continue slow advance tight to light to 1/4 thottle full pen.

Shoe Description: m. sand.

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-3)(3-5.9)  
(5.9-6.4) shoe, not used.  
3' cut: silt, organic material, f-sand.  
5.9' cut: m. sand

Additional Notes: 2 ft. slope adjustment  
collar added

met target of 6.5 ft core but less than 75% recovery.

Keep and process best of 3 attempts

Project: AC04 UR Phase 3  
 Date: 12-12-22  
 Weather: 40  
 Logged By: T D

Location ID: SC000  
 Attempt No.: 1  
 Core Type: Intertidal  Subtidal  Shoaling   
 Field Staff: TD, DD, JT, DT

Field Collection Coordinates:  
 Lat/Northing: 194553.9

Long/Easting: 1276094.1

**A. Water Depth**  
 DTM Depth Sounder:      ft  
 DTM Lead Line: -16.9 ft

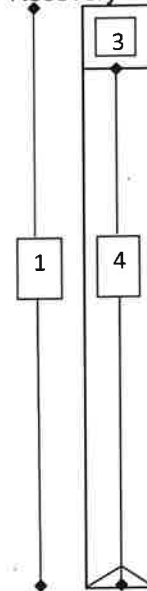
**B. Tide Level Measurement**  
 Time: 1214  
 Height: +9.05 ft  
 Source: RTK tide station

**C. Mudline Elevation**  
-7.9 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 3.00 ft
- 4. Field Recovery Depth: 7.00 ft
- 5. Field Recovery Percentage: 77.8
- 6. Core Accepted:  Yes / No
- 7. Processing Recovery Depth: 6.53 ft
- 8. Adjusted Recovery Percentage: 72.6

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See core
- C: processing log
- D:

**Drive Notes:**  
Free fall of 5', v. light thottle  
to fill pen.

Shoe Description: fine sand, hard packed

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-6.5)  
(6.5-7) (shoe, not used)  
4' cut: silt w/f. sand  
6.5' cut: f. sand, hard pk.

**Additional Notes:**  
Met target of 8-ft core done



Project: LDW A004 UR Phase 3  
 Date: 12.7.2022  
 Weather: partly cloudy 40s  
 Logged By: S. Replinger

Location ID: SC801  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 194419.73

Long/Easting: 1276121.12

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: 16.7 ft

B. Tide Level Measurement

Time: 1217  
 Height: +8.29 ft  
 Source: RTK

C. Mudline Elevation

-8.4 (ft MLLW)

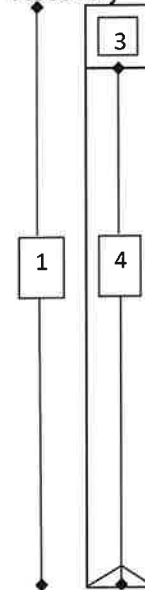
Core Collection Recovery Details:

- 1. Core Tube Length: 5.05 ft
- 2. Penetration Depth: 3.00 ft
- 3. Headspace Measurement: 2.65 ft
- 4. Field Recovery Depth: 2.40 ft
- 5. Field Recovery Percentage: 80.0%
- 6. Core Accepted: Yes No
- 7. Processing Recovery Depth: 2.5-2.7 ft
- 8. Adjusted Recovery Percentage: 85.7-75.7

Drive Notes:

AV  
 Smooth draw (no resistance)

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: 0-60cm

B: 45.4cm

C:

D:

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Met target of 2 ft core.

Project: AOC 4 VIE Phase 3  
 Date: 12.08.22  
 Weather: AWS, overcast  
 Logged By: TDO

Location ID: SC002  
 Attempt No.: 1  
 Core Type: Intertidal  Subtidal  Shoaling  
 Field Staff: TD, DP, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 194240.9

Long/Easting: 1276123.1

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: -21.4 ft

**B. Tide Level Measurement**

Time: 1039  
 Height: +8.53 ft  
 Source: RTK tide elev.

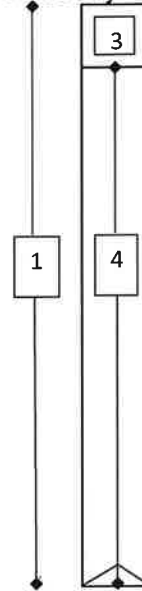
**C. Mudline Elevation**

-12.9 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 15.00 ft
- 2. Penetration Depth: 14.00 ft
- 3. Headspace Measurement: 1.60 ft
- 4. Field Recovery Depth: 13.40 ft
- 5. Field Recovery Percentage: 95.7
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 12.60 ft
- 8. Adjusted Recovery Percentage: 91.4

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-L
- B: See core processing log
- C:
- D:

**Drive Notes:**

7 ft free fall  
 light thistle, easy drive, steady advance to full penetration.

Shoe Description: f. sand w/silt

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

shealing material -12.9 to -15.0 ft = 2.1 ft.  
 (0-4) (4-8) (8-11) (11-13 ft)  
 (13-13.4 ft) shoe, not used.  
 4 ft cut: silty w/ dr. sand  
 8 ft cut: silt w/ sand.  
 11 ft cut: sand w/ silt  
 12 ft cut: sand w/ silt

**Additional Notes:**

Met target of -25 ft MLLW

Project: LDW AOC4 UR Phase 3  
 Date: 12-7-2022  
 Weather: partly cloudy, 40s  
 Logged By: S. Riplinger

Location ID: SC803  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:  
 Lat/Northing: 194287.50

Long/Easting: 1276150.36

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: 16.7 ft

**B. Tide Level Measurement**

Time: 1235  
 Height: +8.47 ft  
 Source: RTK

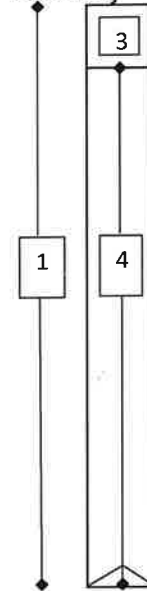
**C. Mudline Elevation**

-8.2 ft (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 5.05 ft
- 2. Penetration Depth: 3.00 ft
- 3. Headspace Measurement: 2.46 ft
- 4. Field Recovery Depth: 2.59 ft
- 5. Field Recovery Percentage: 86.3%
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 2.54 ft
- 8. Adjusted Recovery Percentage: 84.7

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-60 cm
- B: 50.8 cm
- C: \_\_\_\_\_
- D: \_\_\_\_\_

**Drive Notes:**

**Shoe Description:**

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

met target of 2 ft core



Project: AD04 OR Phase 3  
 Date: 12.12.22  
 Weather: 40s, overcast  
 Logged By: TDO

Location ID: SCB04  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, PD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 194239.4

Long/Easting: 1276164.5

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: 18.5 ft

**B. Tide Level Measurement**

Time: 1118  
 Height: +10.29 ft  
 Source: RTK tide station

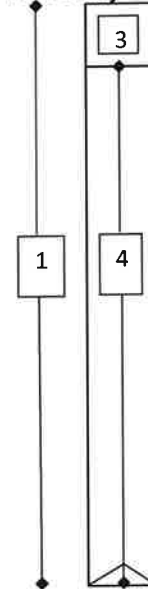
**C. Mudline Elevation**

-0.2 (ft MLLW)

**Core Collection Recovery Details:**

1. Core Tube Length: 15.00 ft
2. Penetration Depth: 11.70 ft
3. Headspace Measurement: 5.60 ft
4. Field Recovery Depth: 9.40 ft
5. Field Recovery Percentage: 80.3
6. Core Accepted: (Yes) / No
7. Processing Recovery Depth: 8.92ft ft
8. Adjusted Recovery Percentage: 76.2%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-K  
 B: See core processing log.  
 C: log.  
 D: —

**Drive Notes:**

v. light throttle, easy advance to

Shoe Description: F-m sand

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-7)(7-8.9)  
(8.9-9.4) shoe, not used  
4 ft cut - silty w/ f sand  
7 ft cut - F-m sand w/ silt  
8.9 ft cut - f-m sand

**Additional Notes:**

Met target of 8 ft core drive.

Project: LDW AOC4 UR Phase 3  
 Date: 12.7.2022  
 Weather: Cloudy, 40s  
 Logged By: S. Replinger

Location ID: 17805  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:  
 Lat/Northing: 194286.79

Long/Easting: 127629.39

**A. Water Depth**

DTM Depth Sounder: - ft  
 DTM Lead Line: 5.6 ft

**B. Tide Level Measurement**

Time: 0840  
 Height: +9.11 ft  
 Source: RTK

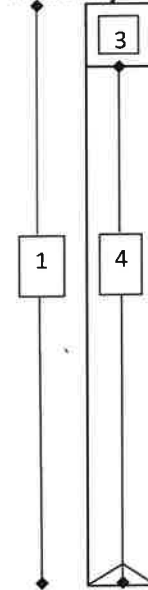
**C. Mudline Elevation**

+3.5 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 5.05 ft
- 2. Penetration Depth: 3.00 ft
- 3. Headspace Measurement: 2.60 ft
- 4. Field Recovery Depth: 2.45 ft
- 5. Field Recovery Percentage: 81.7%
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 2.52 ft
- 8. Adjusted Recovery Percentage: 84.0

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-45cm
- B: 37.8cm
- C:
- D:

**Drive Notes:**

smooth drive to 3 ft.

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

met target of 1.5 ft core.

Project: AOC4 UR Phase 3  
 Date: 12.12.22  
 Weather: 40s, showers  
 Logged By: TDS

Location ID: IT806  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DP, TT, DJ

Field Collection Coordinates:  
 Lat(Northing): 194064.6

Long(Easting): 1275887.2

**A. Water Depth**

DTM Depth Sounder: \_\_\_\_\_ ft  
 DTM Lead Line: 9.1 ft

**B. Tide Level Measurement**

Time: 1835  
 Height: +12.33 ft  
 Source: RTK tide station

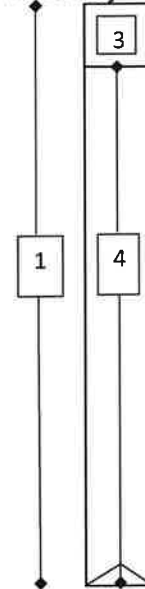
**C. Mudline Elevation**

+3.2 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 4.00 ft
- 4. Field Recovery Depth: 6.00 ft
- 5. Field Recovery Percentage: 66.7
- 6. Core Accepted: Yes / No OK per Susie
- 7. Processing Recovery Depth: 5.5 ft ft
- 8. Adjusted Recovery Percentage: 62.0%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H
- B: See core
- C: processing log
- D: \_\_\_\_\_

**Drive Notes:**

v. light shovle, resistance ~ 3ft, then continues to fill pen

Shoe Description: med. sand w/silt

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-3)(3-5.6)  
(5.6-6) shoe, not used  
3' cut - silt w/ f-m sand  
5.6' cut - med. sand w/silt

**Additional Notes:**

Core accepted for processing per Susie  
Met target of 6.5 ft core, but < 75% recovery.  
Accepted best of 3 cores.



Project: LDW AOCA UR Phase 3  
 Date: 12-7-2022  
 Weather: Cloudy, 40s  
 Logged By: S. Rappinger

Location ID: IT807  
 Attempt No.: 2  
 Core Type: (Intertidal) Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 193924.64

Long/Easting: 1276373.59

A. Water Depth

DTM Depth Sounder: - ft

DTM Lead Line: 5.8 ft

B. Tide Level Measurement

Time: 0910

Height: +8.47 ft

Source: RTK

C. Mudline Elevation

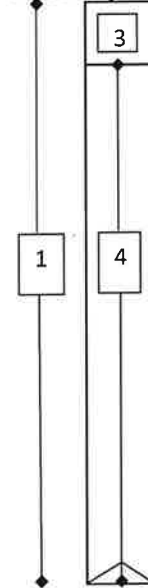
1276373 (SR) (ft MLLW)

+2.7 ft.

Core Collection Recovery Details:

- 1. Core Tube Length: 5.00 ft
- 2. Penetration Depth: ~~SP 11.85~~ 1.00 ft
- 3. Headspace Measurement: 4.00 ft
- 4. Field Recovery Depth: 1.00 ft
- 5. Field Recovery Percentage: 100%
- 6. Core Accepted: Yes (No) ~~(SP)~~ Yes - archive
- 7. Processing Recovery Depth: 0.90 ft
- 8. Adjusted Recovery Percentage: 90.0

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: NA (SR) 0-30 cm
- B: 27 cm
- C:
- D:

Drive Notes:

Smooth until hit refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Did not meet target of 1.5 ft core (hit refusal).  
 Retained best of 3 cores for possible analysis.

Project: ACC4 VR Phase 3  
 Date: 12.12.22  
 Weather: 40s, showers  
 Logged By: TDO

Location ID: IT 808  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 193880.9

Long/Easting: 12763403

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: -11.4 ft

**B. Tide Level Measurement**

Time: 0946  
 Height: +11.78 ft  
 Source: RTK tide station

**C. Mudline Elevation**

+0.4 (ft MLLW)

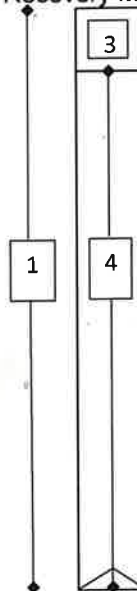
**Core Collection Recovery Details:**

1. Core Tube Length: 10.00 ft
2. Penetration Depth: 9.00 ft
3. Headspace Measurement: 0.70 ft
4. Field Recovery Depth: 9.30 ft
5. Field Recovery Percentage: 103.3
6. Core Accepted: (Yes) / No
7. Processing Recovery Depth: 8.86 ft
8. Adjusted Recovery Percentage: 95.4%

**Drive Notes:**

v. light throttle, slight resistance  
w/ 8' ft., continue to full pen.

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-H  
 B: See core  
 C: processing log  
 D: \_\_\_\_\_

Shoe Description: m. sand w/silt.

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4) (4-7) (7-8.9)  
(8.9-9.3) shoe, not used  
4' cut - silt w/ff sand.  
7' cut - med sand w/silt  
8.9' cut - m. sand w/silt

**Additional Notes:**

Met target of 6.5 ft core drive

Project: ACCF UK Phase 3  
 Date: 12.09.22  
 Weather: low tide, overcast  
 Logged By: TD

Location ID: IT809  
 Attempt No.: 2  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: TD, DD, TT, DJ

Field Collection Coordinates:  
 Lat/Northing: 193848.8

Long/Easting: 12710382.1

**A. Water Depth**

DTM Depth Sounder:          ft  
 DTM Lead Line: 6.5 ft

**B. Tide Level Measurement**

Time: 1144  
 Height: +0.25 ft  
 Source: RTK tide station

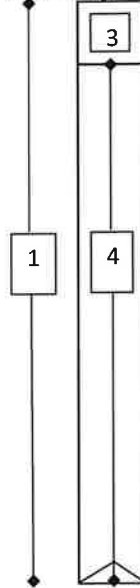
**C. Mudline Elevation**

+1.8 (ft MLLW)

**Core Collection Recovery Details:**

- 1. Core Tube Length: 10.00 ft
- 2. Penetration Depth: 9.00 ft
- 3. Headspace Measurement: 0.70 ft
- 4. Field Recovery Depth: 9.30 ft
- 5. Field Recovery Percentage: 103.3
- 6. Core Accepted: (Yes) / No
- 7. Processing Recovery Depth: 8.83 ft
- 8. Adjusted Recovery Percentage: 98.1

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-I
- B: See core
- C: Processing log
- D:

**Drive Notes:**

v. light throttle to 4 ft, then resistance, light throttle to full pen.

Shoe Description: coarse to med/f. sand w/ gravel

**Core Field Observations and Description:**

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

(0-4)(4-8.9)  
(9-9.3ft) shoe, not used.  
cut @ 4ft: fine sand w/ silt  
cut @ 8.9ft: coarse to med/f. sand w/ gravel

**Additional Notes:**

Met target of 6.5 ft core drive

Project: LOW A004 UR Ph3  
 Date: 12/9/22  
 Weather: 40s, cloudy  
 Logged By: K. McPeak

Location ID: 1T810  
 Attempt No.: 1  
 Core Type: (Intertidal) Subtidal Shoaling  
 Field Staff: EM

Field Collection Coordinates:  
 Lat/Northing: 193732.96

Long/Easting: 1276714.44

**A. Water Depth**

DTM Depth Sounder: — ft  
 DTM Lead Line: -10.0 ft

**B. Tide Level Measurement**

Time: 0840  
 Height: +11.46 ft  
 Source: RTK

**C. Mudline Elevation**

+1.5 (ft MLLW)

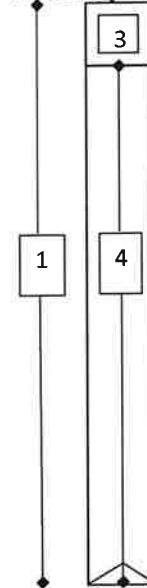
**Core Collection Recovery Details:**

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 7.75 ft
- 3. Headspace Measurement: 4.70 ft
- 4. Field Recovery Depth: 7.30 ft
- 5. Field Recovery Percentage: 94.2%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 7.20 ft
- 8. Adjusted Recovery Percentage: 92.9%

**Drive Notes:**

Smooth drive until hit hard refusal at 7.75'

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: A-G
- B: See core processing log
- C: processing log
- D: \_\_\_\_\_

**Shoe Description:**

**Core Field Observations and Description:** Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

**Additional Notes:**

Met target of 6.5 ft core drive.



Project: LDWA OCA VR Phase 3  
 Date: 12.5.2022  
 Weather: cloudy, 305  
 Logged By: SR

Location ID: SC813  
 Attempt No.: 1  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 192894.47

Long/Easting: 1277350.86

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: ~ 19.5 ft

B. Tide Level Measurement

Time: 1345  
 Height: +11.11 ft  
 Source: RTK

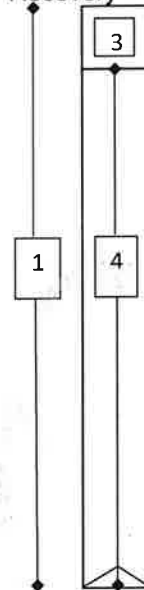
C. Mudline Elevation

-8.4 ft (ft MLLW)

Core Collection Recovery Details:

- 1. Core Tube Length: 5.05 ft
- 2. Penetration Depth: 3.00 ft
- 3. Headspace Measurement: 2.40 ft
- 4. Field Recovery Depth: 2.65 ft
- 5. Field Recovery Percentage: 88.3%
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 2.52 ft
- 8. Adjusted Recovery Percentage: 84.0%

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-60cm
- B: 50.4
- C:
- D:

Drive Notes:

Smooth drive

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

black sticky sediment

Additional Notes:

Met target of 2 ft core.

Project: LDW ADCY UR Ph 3  
 Date: 12/9/22  
 Weather: 40s, rain  
 Logged By: K. McPeck

Location ID: IT814  
 Attempt No.: 7  
 Core Type: Intertidal Subtidal Shoaling  
 Field Staff: KM

Field Collection Coordinates:

Lat/Northing: 190053.81

Long/Easting: 1277568.39

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: -7.3 ft

B. Tide Level Measurement

Time: 1240  
 Height: +8.25 ft  
 Source: RTK

C. Mudline Elevation

+1.0 (ft MLLW)

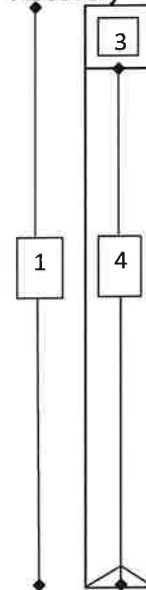
Core Collection Recovery Details:

- 1. Core Tube Length: 12.00 ft
- 2. Penetration Depth: 4.50 ft
- 3. Headspace Measurement: 8.40 ft
- 4. Field Recovery Depth: 3.60 ft
- 5. Field Recovery Percentage: 80.0%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 3.45 ft
- 8. Adjusted Recovery Percentage: 70.7%

Drive Notes:

smooth drive for first 2ft, then resistance until hit refusal at 4.5 ft

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: ATD
- B: See core
- C: processing log
- D: \_\_\_\_\_

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes: ~ 28 ft from target

Did not meet target of 6.5 ft core - hit refusal at 4.5 ft. Retained best of 7 cores for analysis.

Project: LDW ACCA UR Phase 3  
 Date: 12-5-2022  
 Weather: cloudy, 30s  
 Logged By: SR

Location ID: 17815  
 Attempt No.: 1  
 Core Type:  Intertidal  Subtidal  Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 190060.48

Long/Easting: 1277566.18

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: -9.0 ft

B. Tide Level Measurement

Time: 1242  
 Height: +10.27 ft  
 Source: RTK

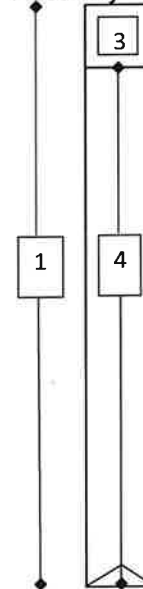
C. Mudline Elevation

+1.3 ft (ft MLLW)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Penetration Depth: 3.00 ft
3. Headspace Measurement: 2.10 ft
4. Field Recovery Depth: 2.90 ft
5. Field Recovery Percentage: 96.7%
6. Core Accepted: (Yes) No
7. Processing Recovery Depth: 2.55 ft
8. Adjusted Recovery Percentage: 85.0

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: 0-45cm  
 B: (30.3 cm)  
 C:  
 D:

Drive Notes:

Smooth drive

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Met target of 1.5 ft core.

Project: LOW AOC4 up phase 3  
 Date: 12.5.2022  
 Weather: cloudy, 30s  
 Logged By: SR

Location ID: IT816  
 Attempt No.: 1  
 Core Type: (Intertidal) Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 190054.63

Long/Easting: 1277608.27

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: -9.9 ft

B. Tide Level Measurement

Time: 1222  
 Height: +9.66 ft  
 Source: RTK

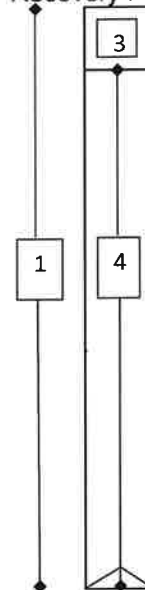
C. Mudline Elevation

-0.2 ft (ft MLLW)

Core Collection Recovery Details:

- 1. Core Tube Length: 5.60 ft ft
- 2. Penetration Depth: 1.60 ft ft
- 3. Headspace Measurement: 3.48 ft ft
- 4. Field Recovery Depth: 1.52 ft ft
- 5. Field Recovery Percentage: 95.0%
- 6. Core Accepted: (Yes) No
- 7. Processing Recovery Depth: 1.30 ft
- 8. Adjusted Recovery Percentage: 81.3

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: 0-45cm

B: 36.6cm

C: \_\_\_\_\_

D: \_\_\_\_\_

Drive Notes:

hit refusal at 1.6 ft;  
resistance on drive from surface

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Additional Notes:

Met target of 1.5 ft core



Project: LDW AOC4 UR Phase 3  
 Date: 12-5-2022  
 Weather: cloudy 30S  
 Logged By: SR

Location ID: 1T817  
 Attempt No.: 1  
 Core Type: (Intertidal) Subtidal Shoaling  
 Field Staff: SR

Field Collection Coordinates:

Lat/Northing: 189966.79

Long/Easting: 1277572.12

A. Water Depth

DTM Depth Sounder: — ft  
 DTM Lead Line: - 9.0 ft

B. Tide Level Measurement

Time: 1255  
 Height: +10.56 ft ft  
 Source: RTK

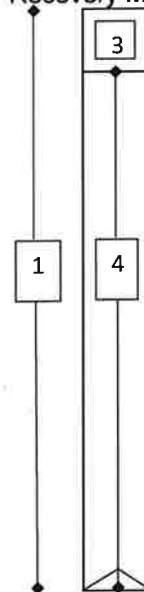
C. Mudline Elevation

+1.6 ft (ft MLLW)

Core Collection Recovery Details:

- 1. Core Tube Length: 5.05 ft ft
- 2. Penetration Depth: 2.00 ft ft
- 3. Headspace Measurement: 3.12 ft ft
- 4. Field Recovery Depth: 1.93 ft ft
- 5. Field Recovery Percentage: 96.5%
- 6. Core Accepted: Yes / No
- 7. Processing Recovery Depth: 1.66 ft ft
- 8. Adjusted Recovery Percentage: 83.0

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: 0-45 cm  
 (37.4 cm)

B:  
 C:  
 D:

Drive Notes:

hit ref soil at 2.0 ft

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

reddish tinge towards bottom of core.

Additional Notes:

met target of 1.5 ft core.

# Sediment Core Processing Log



Job: Low AOC4 UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 1  
 Penetration Depth: 10.00 (ft)  
 Processing Recovery Depth: 4.65 (ft)  
 Adjusted Recovery Percentage: 96.5  
 Notes:

Location ID: SC750  
 Collection Date/Time: 12/12/22 09:26  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30		5	95	0-263.7cm - SILT(MI), olive gray, soft, wet, non plastic	0-30	SC750A	
30-60					30-60	51.9cm SC750B	
60-90					60-90	77.9cm SC750C	
90-120					90-120	103.9cm SC750D	
120-150				@135-263.7cm - interbedded gray silt with gray silty sand lenses ~1"-4" thick	120-150	129.9cm SC750E	
150-180				@135-220cm - gray/black mottling	150-180	155.9cm SC750F	
180-210					180-210	181.9cm SC750G	
210-240				@216-226cm - pocket of green gray silt with black 1/4" silt clasts, occasional roots	210-240	207.9cm SC750H	
240-270				@226-263.7cm - gray fine grained silty sand layer	240-270	233.9cm SC750I	
270-300				End of Core @ 263.7cm	270-300	263.7cm	

# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 3  
 Penetration Depth: 15.00 (ft)  
 Processing Recovery Depth: 12.17 (ft)  
 Adjusted Recovery Percentage: 81.1%  
 Notes:

Location ID: SC751  
 Collection Date/Time: 12/7/22 1056  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-290	50	50		0-290cm - Interbedded SILT(MI) with SILTY SAND(SM), dark gray to black, soft, wet, non plastic fines, ~1" to 3" beds @10cm - leaf @15cm - 2.5" subrounded gravel @18cm - black root  @117-216cm - olive gray/black mottling @122cm - 1/2" gravel	0-290		
					20	SC751A	
					40		
					48.7cm	SC751B	
					73.0cm	SC751C	
					97.3cm	SC751D	
					121.6cm	SC751E	
					145.9cm	SC751F	
					170.2cm	SC751G	
					194.5cm		

# Sediment Core Processing Log



Job: LOW AOC4 Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 3  
 Penetration Depth: 15.00 (ft)  
 Processing Recovery Depth: 12.17 (ft)  
 Adjusted Recovery Percentage: 81.1%  
 Notes:

Location ID: SC751  
 Collection Date/Time: 12/7/22 1056  
 Core Logged By: J. Ught  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200				@27 <sub>cm</sub> - lens of black roots	200	SC751H	
220				@221-260cm - gray sand with dark gray silt interbedding ~1" thick	220	218.8cm	
240				@249cm - pocket of black twigs/roots	240	SC751I	
260				@260-290cm - dark gray/black mottled silt - low plasticity below 260cm	260	243.6cm	
280					280	SC751J	
300	100			<u>290-371cm - POORLY GRADED SAND(Sp), gray, m. dense, moist, multi colored grains, fine to medium grained, occasional mica flecks.</u>	300	267.4cm	
320				@300cm - 3/4" olive gray clasts	320	SC751K	
340				@305-317cm - fine grained sand lens, trace silt	340	290.0cm	
				@329, 336cm - 1/4" gray silt clasts	340	SC751L	
				@342-346cm - dark gray/black silt lens	340	314.3cm	
				@357-360cm - sticks/wood fragments	340	SC751M	
				@360-371cm - fine grained sand lens, with silt	340	338.6cm	
360					360	SC751N	
380					380	371.0cm	
400					400		



# Sediment Core Processing Log



Job: LDWAOCY UR Phase 3

Location ID: SC752

Job No. 180067-02-04

Collection Date/Time: 12/12/22 1101

No. of Sections: 1

Core Logged By: J. Light

Penetration Depth: 8.70 (ft)

Attempt #: 2

Processing Recovery Depth: 6.91 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 79.3%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
30		30	70	0-47cm - SANDY SILT (ML), black, very soft, saturated, nonplastic, fine grained sand	30	SC752A	
60		100	47-207.6cm - SILT (ML), olive gray, soft, wet, nonplastic	60	47.0cm SC752B (FD)		
90					90	70.5cm SC752C	
120				@124-134cm - gray silty sand lens	120	94.0cm SC752D	
150				@147-163cm - olive gray/black mottling	150	117.5cm SC752E	
180				@147cm - low plasticity below	180	141.0cm SC752F	
210				@166-176, 190-207.6cm - gray fine grained silty sand lenses	190	164.5cm SC752G	
240				@199cm - roots	210	188.0cm SC752H	
270				End of Core @ 207.6cm	270	207.6cm	
300					300		

# Sediment Core Processing Log



Job: LOWADCY URPhase 3  
 Job No. 180067.02.04  
 No. of Sections: 3  
 Penetration Depth: 15.00 (ft)  
 Processing Recovery Depth: 12.57 (ft)  
 Adjusted Recovery Percentage: 83.8%  
 Notes:

Location ID: SC753  
 Collection Date/Time: 12/7/22 1008  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-20			100	0-20.7cm SILT(ML), black, soft, wet, non plastic	0-20	SC753A	
40-53				@49-53cm - pocket of shell fragments up to 2"	40-53	50.3cm SC753B	
64-64				@64cm - 1" shell fragment	64-64	75.4cm SC753C (FD)	
107-109				@107-109cm - dark gray silt lens	100-109	100.5cm SC753D	
135-196				@135-196cm - dark gray/black mottling	120-196	125.6cm SC753E	
163-207				@163-207cm - interbedded black silt with dark gray silty sand lenses ~2" thick	150-207	150.7cm SC753F	
193-193				@193cm - 1" shell fragment	175-193	175.8cm SC753G	

# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3

Location ID: SC753

Job No. 180067-02.04

Collection Date/Time: 12/7/22 1008

No. of Sections: 3

Core Logged By: J. Light

Penetration Depth: 15.00 (ft)

Attempt #: 1

Processing Recovery Depth: 12.57 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 83.8%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200					200		
220		95	5	<p><u>207-383cm - POORLY GRADED SAND (SP), gray, medium dense, wet, fine to medium grained, multicolored grains, non plastic fines, occasional mica flecks</u></p> <p>@241cm - 3" dark gray silt clast</p> <p>@251-254cm - gray/dark gray silt lenses</p> <p>@259-260cm - 2 gray brown 1" clay clasts</p> <p>@260-302cm - interbedded sand with gray/black silt lenses ~3" thick</p>	220	<u>AV 200.7cm 207.0</u>	
240					240	<u>SC753H</u>	
260					260	<u>232.1cm</u>	
280					280	<u>SC753I</u>	
300					300	<u>257.2</u>	
320					320	<u>AV 257.3cm</u>	
340					340	<u>SC753J</u>	
360					360	<u>282.3cm</u>	
380					380	<u>SC753K</u>	
400					400	<u>307.4cm</u>	
						<u>SC753L</u>	
						<u>332.5cm</u>	
						<u>SC753M</u>	
						<u>357.6cm</u>	
						<u>SC753N</u>	
						<u>383.0cm</u>	
				<u>End of Core @ 383cm</u>			

# Sediment Core Processing Log

Job: LDW AOC 4 OR Phase 3

Location ID: SC754



Job No. 180067.02.04

Collection Date/Time: 12/13/22 1528

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 2

Processing Recovery Depth: 6.53 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 72.6%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0		50	50	<p>0-199cm - Interbedded olive gray/black mottled SILT(ML), soft, wet, non plastic and gray SAND with SILT(SP-SM), gray, loose, wet, fine to medium grained, occasional mica flecks non plastic fines, beds ~3"-8" thick</p> <p>@42cm - black silty sand lens</p> <p>@123cm - 1/2" gray brown silt clast</p> <p>@150cm - 1/4" brown silt clast</p>	0		
20					20	SC754A	
40					40	43.6cm	
60					60	SC754B	
80					80	65.4cm	
100					100	SC754C	
120					120	87.2cm	
140					140	SC754D	
160					160	109.0cm	
180					180	SC754E	
200					200	130.8cm	
					140	SC754F	
					160	152.6cm	
					180	SC754G	
					200	174.4cm	
						SC754H	
						199.0cm	

End of Core @199cm



# Sediment Core Processing Log



Job: LOWA004 UR Phase 3  
 Job No. 180067.02-04  
 No. of Sections: 3  
 Penetration Depth: 15.00 (ft)  
 Processing Recovery Depth: 12.90 (12.11) (ft)  
 Adjusted Recovery Percentage: 80.7%  
 Notes:

Location ID: SC755  
 Collection Date/Time: 12/7/22-0920  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-270			100	0-270cm - SILT (ML), black, soft, wet, non plastic @0-30cm - occasional roots	0-270	SC755A	
48.4				@60cm - 2" thick gray silty sand lens	48.4	SC755B	
72.6				@90-100cm - slight H <sub>2</sub> S like odor	72.6	SC755C	
96.8				@135cm - 1" shell fragment	96.8	SC755D	
121.0				@142-270cm - interbedded black silt with black silty sand lenses ~ 2" thick	121.0	SC755E	
145.2				@191cm - black rootlet	145.2	SC755F	
169.4					169.4	SC755G	
193.6					193.6		

# Sediment Core Processing Log

Job: LDWAOCY UR Phase 3

Job No. 180067.02.04

No. of Sections: 3

Penetration Depth: 15.09 (ft)

Processing Recovery Depth: ~~12.98~~ 12.11 (ft)

Adjusted Recovery Percentage: 80.7%

Notes:

Location ID: SC755 ANCHOR OEA

Collection Date/Time: 0920A 12/7/22 0920

Core Logged By: J. Ught

Attempt #: |

Type of Core  Mudmole  Vibracore  Diver Core

Diameter of Core (inches) 4"

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200					200	SC755H (FO)	
220					220	217.8cm	
						SC755I	
240				@240-264cm - gray/black mottling	240	<del>242.0cm</del> 242.0cm	
				@259cm - 1 1/2" black silt pocket		SC755J	
260				@267cm - 3" gray silt pocket	260		
280	95	5		270-369cm - POORLY GRADED SAND (SP), gray, med: dense, moist, multi colored grains, fine to medium grained, occasional mica flecks	280	<del>270.0cm</del> 270.0cm	
300				@274cm - 2" black silt clast	300	294.2cm	
				@291cm - 2" gray silt clast		SC755L	
320				@310cm - 1 1/2" black wood fragment	320	318.4cm	
				@311-313cm - dark gray silt lens		SC755M	
340				@329-330cm - decomposing wood chunks up to 2 1/2"	340	342.2cm	
				@342-349cm - dark gray sandy silt lens		SC755N	
360				@343, 363cm - black wood fragments	360		
380				End of Core @ 369cm	380	369.0cm	

# Sediment Core Processing Log



Job: ACY W2 phase 3  
 Job No. 180667-02.04  
 No. of Sections: 1  
 Penetration Depth: 3.00 (ft)  
 Processing Recovery Depth: 2.81 (ft)  
 Adjusted Recovery Percentage: 93.7%  
 Notes:

Location ID: SC756  
 Collection Date/Time: 12/5/22 09:33  
 Core Logged By: N. Bacher  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-69			100	<p>0-69cm: SILT (ML), black, wet, soft non-plastic fines</p> <p>@ 23cm: wood frag w/ trace shell hash</p> <p>@ 26cm: 3cm mussel shell</p> <p>@ 35-48cm: trace gray/dark gray mottling.</p> <p>@ 56-57cm: trace shell hash</p>	0-69	SC756	
69-85.6		80	20	<p>69-85.6cm: SAND w/ SILT (SM) olive gray, wet, med. dense</p> <p>@ 70: roots, twigs</p> <p>@ 77-78: few black silt pockets.</p> <p>END OF CORE @ 85.6 cm</p>	69-85.6	56.2cm	

# Sediment Core Processing Log



Job: LDW AOC4UR Phase 3

Location ID: SC757

Job No. 180007-02.04

Collection Date/Time: 12/13/22 1339

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 2

Processing Recovery Depth: 5.61 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 62.3%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-171		100		<p>0-171cm - POORLY GRADED SAND (SP), gray, loose, wet, multicolored grains, occasional mica flecks</p> <p>@0-40cm - sandy silt layer, black/olive gray mottling</p> <p>@36-40cm - pocket of red sand with silt</p> <p>@87-103cm - gray sandy silt lens</p> <p>@104cm - med. dense below</p> <p>@105cm - 1/4" gray silt clast</p> <p>@108-110cm - gray coarse grained sand lens</p>	0-171	SC757A	
					37.4cm	AV	
					56.1cm	SC757B	
					74.1cm	AV	
					93.5cm	SC757C	
					112.2cm	AV	
					130.9cm	SC757D	
					149.6cm	SC757E	
					171.0cm	SC757F	
				End of Core @ 171cm			



# Sediment Core Processing Log



Job: LOW AOCYUR Phase 3

Location ID: SC758

Job No. 190007-02.04

Collection Date/Time: 12/8/22 1429

No. of Sections: 4

Core Logged By: J. Ugh

Penetration Depth: 14.00 (ft)

Attempt #: 1

Processing Recovery Depth: 12.93 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 92.4%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-20			100	0-340cm - SILT (ML), black, soft, wet, non plastic	0-20	SC758A	
20-40				@13cm - pink worm	20-40		
40-60				@49-50cm - black silty sand lens	40-60	55.4cm	
60-80				@64cm - 2" piece of plastic	60-80	SC758B	
80-100					80-100	83.1cm	
100-120					100-120	SC758C	
120-140				@127-130, 169-172cm - pocket of gray silty sand	120-140	110.8cm	
140-160				@140cm - 2" subrounded gravel	140-160	SC758D	
160-180					160-180	138.5cm	
180-200				@199-235cm - olive gray silt, m. stiff, low plasticity	180-200	SC758E 758E	
						166.2cm	
						SC758F	
						193.9cm	

# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3

Location ID: SC758

Job No. 180007.02.04

Collection Date/Time: 12/8/22 1429

No. of Sections: 4

Core Logged By: J. Ught

Penetration Depth: 14.00 (ft)

Attempt #: 1

Processing Recovery Depth: 12.93 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 92.4%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200				@205cm - few black wood fibers	200	SC758G	
220				@207-210, 230-233cm - olive gray silt lenses	220	221.6cm	
240					240	SC758H	
260				@269-307cm - black/dark gray mottling	260	249.3cm	
280					280	SC758I	
300				@294-297cm - dark gray silt lens	290	277.0cm	
320					300	SC758J	
340					320	304.7cm	
360	90	10		340-394cm - POORLY GRADED SAND with SILT (SP-SM), gray, m. dense, wet, fine to medium, occasional mica flecks, nonplastic fines, multicolored grains	340	SC758K	
380				@346-350cm - 3 olive brown silt clasts ~ 1/2" thick	360	340.0cm	
390				@367cm - 1" gray silt clast	380	SC758M	
400				@378cm - 1/4" black silt clast	390	367.7cm	
				@390-393cm - black silt clast	400	SC758N	
						394.0cm	

End of Core @ 394cm

# Sediment Core Processing Log



Job: LDW AOCY UR Phase 3

Location ID: SC759

Job No. 180067.02.04

Collection Date/Time: 12/19/22 0958

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 1

Processing Recovery Depth: 7.25 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 90.6%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-221	40	60		<p>0-221cm - Interbedded dark gray, soft, wet, nonplastic SILT(MI) with dark gray POORLY GRADED SAND with SILT(SP-SM), loose, wet, fine to medium, nonplastic fines</p> <p>@47cm - 1" pocket of brown silt</p> <p>@61cm - roots</p> <p>@67cm - trace shell hash</p> <p>@79cm - 1/4" white shell fragment</p> <p>@64-119cm - dark gray/olive gray mottling</p> <p>@102-105cm - lens of wood frags,</p> <p>@124-130cm - 1" thick branch, red wood frags</p> <p>@153cm - black wood fibers</p> <p>@151-190cm - layer of gray sand with silt, fine to medium grained</p> <p>@195-220cm - dark gray/green gray mottling, medium stiff</p> <p>@198cm - root</p>	0-221		
					30	SC759A	
					60	78.4cm SC759B	
					90	72.6cm SC759C	
					120	96.8cm SC759D	
					150	121.0cm SC759E	
					180	145.2cm SC759F	
					210	169.4cm SC759G	
					240	193.6cm SC759H	
					270	221.0cm	
				End of Core @ 221cm	300		

# Sediment Core Processing Log



Job: LDW AOCY UR Phase 3

Location ID: SC760

Job No. 180067.02.04

Collection Date/Time: 12/7/22 1330

No. of Sections: 1

Core Logged By: J. Light

Penetration Depth: 10.00 (ft)

Attempt #: 1

Processing Recovery Depth: 9.15 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 91.5%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	0-228cm - SILT(ML), black, soft, wet, non plastic	0-30	SC760A	
30-60				@0-60cm - black sandy silt layer	30-60	48.9cm SC760B	
60-90				@71cm - black rootlet	60-90	73.4cm SC760C	
90-120					90-120	97.9cm SC760D	
120-150				@149cm - 2" black wood chunk	120-150	122.4cm SC760E	
150-180				@191-203cm - dark olive gray sandy silt lens	150-180	146.9cm SC760F	
180-210				@221-224cm - wood fragments, roots	180-210	171.4cm SC760G	
210-240				@225-226cm - dark gray silt lens	210-240	195.9cm SC760H	
240-270			100	228-249.4cm - POORLY GRADED SAND(SP), gray, m. dense, wet, fine to medium grained, multi colored grains, occasional mica flecs	240-270	228.0cm SC760I	
270-300				@246-249cm - dark gray 2" silt clast	270-300	248.0cm	

End of Core @ 249.4cm



# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3

Location ID: SC 761

Job No. 180067.0204

Collection Date/Time: 12/8/22 1347

No. of Sections: 3

Core Logged By: J. Light

Penetration Depth: 14.00 (ft)

Attempt #: 2

Processing Recovery Depth: 12.20 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 97.1%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0		40	60	0-287.2 cm - Interbedded black, soft, wet, non plastic SILT (ML) with POORLY GRADED SAND (SP), dark gray, wet loose, fine to medium approx. 2-5" beds	0	SC761A	
20				@20-125 cm - black silt layer	20		
40				@15 cm - 1 1/2" whole white shell	40	52.3 cm	
60				@54-68 cm - dark olive gray silt lens	60	SC761B	
80				@64 cm - rootlet	80	78.4 cm	
100					100	SC761C	
120					120	104.5 cm	
140					140	SC761D	
160				@135-162 cm - gray silty sand layer	160	(FD)	
180					180	130.0 cm	
200					200	SC761E	
						156.7 cm	
						AV	
						SC761F	
				@194 cm - pocket of shell fragments		183.9 cm	
						SC761G	

# Sediment Core Processing Log

Job: LOW ADCY UR Phase 3

Job No. 180067.02.04

No. of Sections: 3

Penetration Depth: 14.00 (ft)

Processing Recovery Depth: 12.20 (ft)

Adjusted Recovery Percentage: 87.1%

Notes:

Location ID: SC701

Collection Date/Time: 12/18/22 1347

Core Logged By: J. Ught

Attempt #: 2

Type of Core  Mudmole  Vibracore  Diver Core

Diameter of Core (inches) 4"


Core Quality  Good  Fair  Poor  Disturbed

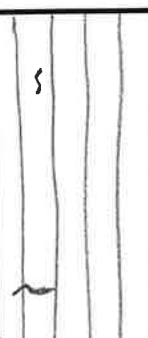
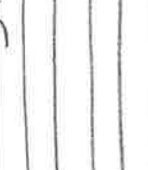
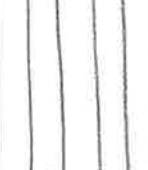
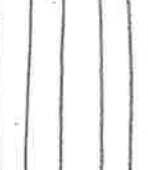





Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch	
200				@201-212cm - olive brown silty sand lens, occasional rootlets	200			
210					208.9cm	SC701H		
240				@255-259cm - black roots, branches	240	235.0cm	SC701I	
250					260	261.1cm	SC701J	
290					290	287.2cm	SC701K	
300	80	20		287.2-372cm - SILTY SAND (SM), gray, medium dense, wet, fine grained, multicolored grains, occasional mica flecks	300			
320				@319-321cm - dark gray silt lens	320	313.3cm	SC701L	
340				@349cm - fine to coarse grained, silt absent below	340	339.4cm	SC701M	
360				@361-364cm - dark gray with black mottling silt lens	360			
370				End of Core @ 372cm	370	372.0cm		
400					400			

# Sediment Core Processing Log

Job: LOW ADCY UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 3  
 Penetration Depth: 14.00 (ft)  
 Processing Recovery Depth: 12.20 (ft)  
 Adjusted Recovery Percentage: 97.1%  
 Notes:

Location ID: SC762  ANCHOR  
 Collection Date/Time: 12/7/22 1414  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-284			100	0-284cm - SILT (ML), dark olive gray, soft, weak non plastic, slight H <sub>2</sub> S like odor @16cm - brown worm @44cm - branch	0-20	SC762A	
20-52.3					20-52.3	SC762B	
52.3-78.4					52.3-78.4	SC762C	
78.4-104.5					78.4-104.5	SC762D	
104.5-130.6				@140-185cm - dark gray silty sand layer	104.5-130.6	SC762E	
130.6-156.7				@176cm - bark chunk 1/2"	130.6-156.7	SC762F	
156.7-182.8				@195-213cm - interbedded dark olive gray silt with dark gray silty sand lenses ~1" thick	156.7-182.8		

# Sediment Core Processing Log



Job: LDW AOC4 UR Phase 3 Location ID: SC762  
 Job No. 180067.02.04 Collection Date/Time: 12/7/22 1414  
 No. of Sections: 3 Core Logged By: J. Light  
 Penetration Depth: 14.00 (ft) Attempt #: 1  
 Processing Recovery Depth: 12.20 (ft) Type of Core  Mudmole  Vibracore  Diver Core  
 Adjusted Recovery Percentage: 87.1% Diameter of Core (inches) 4"  
 Notes: Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200				@197-294 cm - black/dark olive gray mottling @213 cm - rootlet	200	SC762G	
220					220	208.9 cm SC762H	
240				@240-244 cm - dark gray silty sand lens, roots	240	235.0 cm	
260				@250-284 cm - <del>black</del> <sup>JL</sup> dark olive gray silt interbedded with dark gray silty sand lenses ~ 1" thick	260	SC762I	
280					280	261.1 cm SC762J	
300				284-372 cm - POORLY GRADED SAND(SP), gray, m. dense, wet, fine to medium, occasional mica flecks, multi colored grains	300	284.0 cm SC762K	
320				@300 cm - dark olive gray silt lens	320	310.1 cm SC762L	
340				@338 cm - fine grained <del>sand</del> <sup>JL</sup> silty sand below, dark gray	340	336.2 cm	
360				@345 cm - pocket of black silt	360	SC762M	
380				End of Core @ 372 cm	380	372.0 cm	
400					400		

>95 <5



# Sediment Core Processing Log

ANCHOR

QEA 

Job: LOW ANCHOR Phase 3

Location ID: SC763

Job No. 180067.02.04

Collection Date/Time: 12/7/22 1332 AU 1322

No. of Sections: 3

Core Logged By: J. Ught

Penetration Depth: 10.00 (ft)

Attempt #: 4

Processing Recovery Depth: 8.56 (ft)

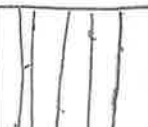
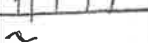






Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 85.6%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30		100		0-230 cm - POORLY GRADED SAND (SP), yellow gray, loose, wet, fine to medium grained	0-30	SC763A	
30-60				@35-73 cm - black silt layer	30-60	51.4 cm SC763B	
60-90				@66 cm - black root	60-90	77.1 cm SC763C	
90-120				@86 cm - medium-coarse grained sand below, with silt	90-120	102.8 cm SC763D	
120-150				@134 cm - abundant subrounded to subangular gravel up to 2" below	120-150	128.5 cm SC763E	
150-180					150-180	154.2 cm SC763F	
180-210					180-210	179.9 cm SC763G	
210-240				@229 cm - black twigs/roots lens	210-240	205.6 cm SC763H	
240-270	90	10		230-261 cm - SAND with SILT (SP-SM), gray, m. dense, wet, fine grained, occasional wood fragments, occasional mica flecks, occasional rounded gravel up to 1/4"	240-270	230.0 cm SC763I	
270-300				@245 cm - 3/4" gravel, 2 1/2" chunk of wood	270-300	261.0 cm	

End of Core @ 261 cm

# Sediment Core Processing Log



Job: LDW AOCY UR Phase 3

Location ID: SC764

Job No. 180067-02-04

Collection Date/Time: 12/6/22 13:10 1406

No. of Sections: 4

Core Logged By: J. Ught

Penetration Depth: 15.6 ft (ft)

Attempt #: 2

Processing Recovery Depth: 15.00 ft (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 96.2%

Diameter of Core (inches) 4"



Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-311	100			<p><u>0-311cm - POORLY GRADED SAND (SP),</u>  <u>yellow gray, loose, wet, medium to coarse</u>  <u>@15-29cm - black silt lens</u>  <u>@39-47cm - black silt lens</u>  <u>@40cm - root</u>  <u>@80-152cm - occasional subrounded gravel up to 2"</u>  <u>@159-266cm - abundant subrounded to subangular gravel up to 2.5", with silt</u>  <u>@268-311cm - interbedded sand with silt</u>  <u>@266-303cm - fine grained sand with silt</u>  <u>@292, 288cm - 1/2" clay rip up clasts</u></p>	0-311	SC764A	
					57.7cm	SC764B	
					80.6cm	SC764C	
					115.5cm	SC764D	
					144.4cm	SC764E	
					173.3cm	SC764F	
					202.2cm	SC764G	
					231.1cm	SC764H	
					260.0cm	SC764I	
					288.9cm		

# Sediment Core Processing Log

Job: LOWAOCYUR Phase 3  
 Job No. 180007-02-04  
 No. of Sections: 4  
 Penetration Depth: 15.6 ft (ft)  
 Processing Recovery Depth: 15.00 ft (ft)  
 Adjusted Recovery Percentage: 96.2%  
 Notes:

Location ID: SC764  ANCHOR  
 QEA   
 Collection Date/Time: 12/16/22 1400  
 Core Logged By: J. Light  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300					300	SC764J	
		90	10	311-457cm - SAND with SILT (SP-SM), red gray, loose, wet, fine grained, non plastic fines, occasional mica flakes	330	311.0cm SC764K	
				@327cm - 3" subangular gravel	360	339.9cm SC764L	
				@341cm - 1" round gravel		366.8cm	
				@355, 359, 362cm - dark gray silt lenses	390	SC764M	
				@378cm pocket of dark gray silt		397.7cm	
				@402cm - root	420	SC764N	
				@407cm - root		426.6cm	
				@412-414, 433-434, 443-444, 451-453cm - light gray medium grained sand lenses	450	SC764O	
				@432cm - 2" wood chunks		457.0cm	
				@453-457cm - dark gray silt lens			
				End of Core @ 457cm	490		



# Sediment Core Processing Log

Job: LAWA04 UR Phase 3

Location ID: SC765

ANCHOR  
QEA

Job No. 1800067.02 04

Collection Date/Time: 12/13/22 1214

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 2

Processing Recovery Depth: 7.97 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 97.4%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-61	95	5		0-61cm - POORLY GRADED SAND(SP), yellow gray, loose, wet, fine grained at 0cm grading to medium-coarse grained at 61cm @42-46cm - pocket of gray silt @53cm - 1/2" white shell frag.	0-61	SC765A	
61-240	40	60		61-240cm - Interbedded dark gray SILT(ML), soft, wet, non plastic and gray SAND with SILT(SP-SM), loose, wet, fine grained, non plastic fines, beds ~ 6"-12" thick @61-82cm - saturated, shell frags, wood chunks, slight H2S like odor @77-99cm - abundant shell fragments @117-122cm - pocket of yellow gray medium-coarse grained sand @132-136cm - wood frags. @149-153cm - pocket of wood frags. @157-162cm - 2" chunk of decomposing wood @169, 176cm - wood frags, bark @180-181cm - lens of black wood fibers @206cm - root	61-240	52.4cm SC765B 61.0cm SC765C 87.2cm SC765D 113.0cm SC765E 139.6cm SC765F 166.8cm SC765G 192.0cm SC765H 218.2cm SC765I	
				End of Core @ 240cm	240	240.0cm	



# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 2  
 Penetration Depth: 6.5 (ft)  
 Processing Recovery Depth: 5.94 (ft)  
 Adjusted Recovery Percentage: 89.8%  
 Notes:

Location ID: SC767  
 Collection Date/Time: 12/9/22 1245  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-20	95	5		0-178cm - POORLY GRADED SAND(SP), yellow gray, loose, wet, fine-coarse grained 0-13cm - black silt lens, soft, wet, non plastic 13-65cm - sand grades from fine grained at 13cm to coarse grained at 65cm	0-20	SC767A	
20-40					20-40	53.9cm	
40-60	40	50	10	@65cm - gravelly sand with silt below, medium-coarse grained, subangular to angular gravel up to 1 1/2"	40-60	SC767B	
60-80				@90cm - olive gray below	60-80	80.8cm	
80-100					80-100	SC767C	
100-120					100-120	107.7cm	
120-140					120-140	SC767D	
140-160					140-160	134.6cm	
160-180					160-180	SC767E	
180-200					180-200	161.5cm	
200-220					200-220	SC767F	
220-240					220-240	178cm	
240-260				End of Core @ 178cm			

# Sediment Core Processing Log



Job: LOW AOC4 w/ Phase 3  
 Job No. 180067-02-04  
 No. of Sections: 4  
 Penetration Depth: 15.00 ft (ft)  
 Processing Recovery Depth: 13.62 ft (ft)  
 Adjusted Recovery Percentage: 90.8%  
 Notes:

Location ID: SC768  
 Collection Date/Time: 12/6/22 1204  
 Core Logged By: J. Light  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	0-56cm - SILT (ML), black, soft, wet, non plastic @19-21cm - gray silt lens @43-45cm - black silty sand lens	0-30	SC768A	
30-60			100	66-299cm - WELL GRADED SAND (SW), green gray, loose, wet, fine to coarse	66.0cm	SC768B	
60-90				@90-96cm - gravel lens, up to 2" subangular gravel	88.6cm	SC768C	
90-120				@107-115cm - black staining	120	SC768D	
120-150				@97-130cm - abundant subrounded to subangular gravel up to 1 1/2"	143.1cm	SC768E	
150-180				@126-140cm - black staining	170.3cm	SC768F	
180-210				@147-152cm - pocket of gray silt	197.5cm	SC768G	
210-240				@153-162cm - black staining	224.7cm	SC768H	
240-270				@175-179cm - gravel lens, up to 1 1/2" subangular gravel	251.9cm	SC768I	
270-300				@192, 198, 194cm - dark gray silt pockets	289.0cm	SC768J	
300-330			100	@190cm - coarsening @200-221cm - black silt layer @217-220cm - pocket of shell fragments up to 2" @228-231cm - black staining @242-263cm - dark gray silt layer @263-298cm - abundant gravel, black staining, saturated, slight petroleum like odor			
330-360				299-415cm - SILT (ML), black, soft, wet, non plastic			

# Sediment Core Processing Log



Job: LDW Accy UR Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 4  
 Penetration Depth: 15.00 ft (ft)  
 Processing Recovery Depth: 13.62 ft (ft)  
 Adjusted Recovery Percentage: 90.8%  
 Notes:

Location ID: SC769  
 Collection Date/Time: 12/6/22 1204  
 Core Logged By: J. Ught  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300				@299-304 cm - frequent gravel	300	SC768I	
				@300 cm - root		316.2cm	
330				@305-307 cm - wood chunk	330	SC768J	
				@310-328 cm - olive gray silt		343.4cm	
				@326, 327 cm - pocket of shell fragments			
360				@330 cm - roots	360	SC768K	
				@331-334 cm - pocket of shell fragments		370.6 cm	
				@338-341 cm - dark gray silty sand lens		SC768L	
390				@349 cm - decaying 1" wood chunk, slight H <sub>2</sub> S like odor	390		
				@350-375 cm - dark gray silty sand lens		397.8 cm	
420				@372-375 cm - pocket of shell fragments	420	SC768M	
				@365-375 cm - slight petroleum like odor		445.0 cm	
4				@400-415 cm - dark gray silty sand			
				End of Core @ 415 cm			

# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3  
 Job No. 180067.02.01  
 No. of Sections: 4  
 Penetration Depth: 15.00 ft (ft)  
 Processing Recovery Depth: 13.1 ft (ft)  
 Adjusted Recovery Percentage: 91.9%  
 Notes:

Location ID: SC769  
 Collection Date/Time: 12/12/2003  
 Core Logged By: J. Ught  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	0-400 cm - SILT (ML), black, soft, wet, non plastic	0		
30				@35-37, 48-50 cm - gray silty sand lens	30	SC769A	
60				@69-73 cm - roots, grass	60	69.9 cm	
90				@79-81 cm - leaves/twigs	90	SC769B	
120				@93-94, 106-107 cm - gray silty sand lens	120		
				@107 cm - root			
				@119 cm - twigs/leaves			
				@124, 127, 129 cm - dark gray silty sand lens			
				@143 cm - pocket of rootlets		139.8 cm	
				@161-199 cm - black/gray mottling		SC769C	
				@161-165 cm - dark gray silty sand lens			
				@170-171, 176-178 cm - dark gray silty sand lens		188.9 cm	
				@194 cm - root		SC769D	
				@216-227 cm - olive gray silt lens, 1/2" chunk charred wood		213.5 cm	
						SC769E	
						238.1 cm	
						SC769F	
						262.7 cm	
						SC769G	
						287.3 cm	
				@290 cm - transition to moist			



# Sediment Core Processing Log



Job: LDW ADCY UR Phase 3

Location ID: SC769

Job No. 1B0067-02-04

Collection Date/Time: 12/6/22 1003

No. of Sections: 4

Core Logged By: J. Ught

Penetration Depth: 16 ft (ft)

Attempt #: 1

Processing Recovery Depth: 13.1 ft (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 91.9%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300				@329cm - root @350cm - transition to medium dense @351-353, 364-365cm - dark gray silty sand lens @391cm - rootlets	300	SC769H	
330					330	311.9cm SC769I	~
360					360	336.5cm SC769J	
390					390	361.1cm SC769K	~   ~
420					420	400cm	
				End of Core @ 400cm			

# Sediment Core Processing Log



Job: LOW AOCY W.P. Phase 3

Location ID: SC770

Job No. 18.0067.02-04

Collection Date/Time: 12/16/2022 0904

No. of Sections: 4

Core Logged By: J. Light

Penetration Depth: 17.00ft (ft)

Attempt #: 1

Processing Recovery Depth: 14.2 ft (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 83.5%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	0-432cm - SILT (ML), black, soft, wet, non plastic	0-30		
30-47				@47-49cm - gray silt lens	30-47	SC770A	
47-52				@52-54cm - leaf/twigs	47-52		
52-62				@62-68, 83-85cm - gray silt lens	52-62		
62-75				@86-93cm - gray silty sand lens	62-75	75.1cm	
75-90				@100-117cm - interbedded gray and black silt	75-90	SC770B	
90-129				@129-131cm - leaves/twigs	90-129		
129-139				@139-141cm - gray silty sand lens	129-139		
139-150				@161cm - pocket of gray silty sand	139-150	150.2cm	
150-179				@198cm - roots, wood chunks	150-179	SC770C	
179-199				@199-195, 207-213, 220-224cm - dark gray silty sand lens	179-199		
199-214				@199-230cm - interbedded gray silty sand with black silt	199-214	200.3cm SC770D	
214-215				@214-215cm - leaves/twigs	214-215	225.4cm SC770E	
215-250					215-250	250.5cm SC770F	
250-275					250-275	275.6cm SC770G	
275-300					275-300	300.7cm	

# Sediment Core Processing Log





Job: WW AOCY UR Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 4  
 Penetration Depth: 17.00 ft (ft)  
 Processing Recovery Depth: 14.2 ft (ft)  
 Adjusted Recovery Percentage: 93.5%  
 Notes:

Location ID: SC770  
 Collection Date/Time: 12/6/22 0904  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300				@300 - transitions to moist	300	SC770H	
330				@339, 346 cm - 1" pockets of gray silt	339	325.8cm	
360				@385-415 cm - black/gray mottling	360	SC770I	•   •
390				@389cm - medium stiff	390	350.9cm	•   •
420				@400-406cm - pocket of gray silty sand	420	SC770J	
450				End of Core @ 432cm	432	376.0cm	
					432	SC770K	•   •
					432	401.1cm	
					432	SC770L	
					432	432.0cm	

# Sediment Core Processing Log

Job: AOC4 UR Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 1  
 Penetration Depth: 3.5 (ft)  
 Processing Recovery Depth: 3.12 (ft)  
 Adjusted Recovery Percentage: 89.1%  
 Notes:

Location ID: 771 (sc)  **ANCHOR**  
**QEA**   
 Collection Date/Time: 12/5/2022 08:33  
 Core Logged By: N. Bacher  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-10			100	0-95.1cm: SILT, black, wet, soft, non-plastic fines	0-10		
10-20					10-20		
20-30				@ 32, 34cm: faint gray lenses	20-30		
30-40					30-40		
40-50				@ 47cm: few roots, twigs	40-50		
50-60					50-60		
60-70				@ 62cm: few roots, twigs	60-70		
70-80					70-80		
80-90					80-90		
90-95.1				End of core: 95.1 cm	90-95.1		

SC 771

53.5 cm



# Sediment Core Processing Log



Job: LDW AOC4 NR Phase 3

Location ID: SC 772

Job No. 190067-02.04

Collection Date/Time: 12/15/2022 08:15

No. of Sections: 1

Core Logged By: N. Bachar

Penetration Depth: 3.5 (ft)

Attempt #: 2

Processing Recovery Depth: 3.05 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 87.1 %

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-89cm			100	SILT (ML), black, wet, soft, non-plastic fines  @ 29: some roots, twigs  @ 62, 74: few wood strands	0-89cm	SC772	Sketch of sediment core with vertical lines and arrows indicating features.
89-93cm	5	95		POORLY GRADED SAND w/ SILT (SP-SM) olive gray, wet, med. dense, sand is fin-med. trace shell frags End of core @ 92-93cm	89-93cm	52.3	Sketch of sediment core showing a transition to sand with small circles representing shell fragments.

# Sediment Core Processing Log



Job: AOC 4 Upper Reach Ph 3 Location ID: SC775  
 Job No: 100067.02.01 Collection Date/Time: 12/5/2022 0937  
 No. of Sections: 4 Core Logged By: J. Ught  
 Penetration Depth: 18.0 ft (ft) Attempt #: 2  
 Processing Recovery Depth: 16.1 ft (ft) Type of Core  Mudmole  Vibracore  Diver Core  
 Adjusted Recovery Percentage: 89.4% Diameter of Core (inches) 4"  
 Notes: Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	0-490cm - SILT (ML), black, soft, wet, non plastic	0-30		
30-37				@29cm - leaf lense	30-37		~ ~ ~
37-41				@37-38, 41-42cm - sand lense	37-41		~ ~ ~
41-43				@ 40, 43, 48, 63, 69 - leaves	41-43	LDW22 - SC775A	~ ~ ~
43-70				@ 70-73 - large chunk of decomposing wood	43-70		~ ~ ~
70-82				@ 82-265cm - interbedded leaf/trwig lenses	70-82	76.9cm	~ ~ ~
82-83				@ 83, 102, 118, 154, 160, 177, 199, 205, 214, 219cm - leaf/trwig lens	82-83	<del>82.0cm</del> AD	~ ~ ~
83-110				@ 110-235cm - gray/black mottling	83-110	SC775B	~ ~ ~
110-127				@ 127-128, 188-199, 220-223cm - sand lense	110-127		~ ~ ~
127-153					127-153	153.8cm	~ ~ ~
153-207					153-207	SC775C	~ ~ ~
207-224				@ 214-215cm - 1 1/2" chunk of wood	207-224	207.4cm	~ ~ ~
224-234				@ 224-241cm - low plasticity	224-234	SC775D	~ ~ ~
234-261					234-261	234.2cm	~ ~ ~
261-274					261-274	SC775E	~ ~ ~
274-294				@ 294-295cm - sand pocket	274-294	261.0cm	~ ~ ~
294-300					294-300	SC775F	~ ~ ~
						287.8cm	~ ~ ~

# Sediment Core Processing Log



Job: AOC4 Upper Reach Ph. 3  
 Job No. 190067.02.04  
 No. of Sections: 4  
 Penetration Depth: 18 ft (ft)  
 Processing Recovery Depth: 16.1 ft (ft)  
 Adjusted Recovery Percentage: 89.4%  
 Notes:

Location ID: SC775  
 Collection Date/Time: 12/5/22 0937  
 Core Logged By: J.L/glt  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300					29	SC775G	
						314.6cm	
330				@343-352cm - light gray, low plasticity	330	SC775H	
						341.4cm	
360					360	SC775I	
						368.2cm	
390				@390-394cm - sand lens	390	SC775J	
				@ 400, 415cm - roots		395.0cm	~ ~ ~
420				@440 - 444, 454 - 457cm - wood fragments and twigs	420	SC775K	↑ - ↑
				@458 - 462 - up to 1 1/2" wood chunks		421.8cm	
450				@473-480cm - gray, sand lens	450	SC775L	~ ~ ~
						448.6cm	~ ~ ~
480					480	SC775M	↑ ↑ ↑
						490cm	
510				End of Core @ 490cm	510		

# Sediment Core Processing Log



Job: LDW Acy U.R. Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 4  
 Penetration Depth: 17.00ft (ft)  
 Processing Recovery Depth: 14.60ft (ft)  
 Adjusted Recovery Percentage: 85.9%  
 Notes:

Location ID: SC776  
 Collection Date/Time: 12/6/2022 749  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	0-445cm - SILT(ML), black, soft, wet, nonplastic	0		
30				@0-21cm - dark gray silty sand	30	SC776A	
60				@26-30cm - leaves/roots			
90				@42-47cm - wood chunks up to 3.5"	90	43.2cm	
120				@61-76cm - dark gray silty sand	120	SC776B	
150				@64-72cm - decomposing wood chunk, slight H2S odor	150	86.4cm	
180				@79cm - 1/2" shell fragment	180	SC776C	
210				@82-99cm - gray silty sand	210	137.9cm	
240				@87cm - leaf/twig lens, 2" wood chunk	240	SC776D	
270				@130cm - roots	270	163.7cm	
300				@152cm - packet of roots	300	SC776E (FD)	
				@175cm - 1/4" shell fragment		189.5cm	
				@191cm - 3" wood chunk		SC776F	
				@202-204, 212-213, 217-218cm - dark gray silty sand lens		215.3cm	
				@219cm - leaf/root lens		SC776G	
				@229cm - wood chunks		241.4cm	
				@237cm - root, wood chunks		SC776H	
				@240cm - dark gray silty sand lens		266.9cm	
				@250cm - grades to moist		SC776I	
				@249-251cm - dark gray silty sand lens		292.7	
				@262-274cm - 1" thick diagonal lens of black organics			



# Sediment Core Processing Log

Job: LDW APL4 UR Phase 3

Location ID: SC776



Job No. 180067.02.04

Collection Date/Time: 12/16/22 0749

No. of Sections: 4

Core Logged By: J. Light

Penetration Depth: 17.00 ft (ft)

Attempt #: 1

Processing Recovery Depth: 14.50 ft (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 85.9%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300				@264-350cm - interbedded gray silty sand, gray/black mottling	300	SC776J	
320				@270-293, 306-308, 331-334, 338-342cm - dark gray silty sand lens	330	318.5cm SC776K	
340				@337-341cm - occasional roots	360	344.3cm SC776L	
360				@370-445cm - black/gray mottling	370	370.1cm SC776M	
380				@385-388, 394-397, 405-407, 436-440cm - dark gray silty sand lens	390	395.9cm SC776N	
400					420	421.7cm SC776O	
420					450	445.0cm	
440				End of Core @ 445cm			

# Sediment Core Processing Log



Job: LDW AOCY UR Phase 3 Location ID: SC777  
 Job No. 19006.7.02.04 Collection Date/Time: 12/9/22 0852  
 No. of Sections: 3 Core Logged By: J. Ught  
 Penetration Depth: 14.09 (ft) Attempt #: 1  
 Processing Recovery Depth: 10.2 (ft) Type of Core  Mudmole  Vibracore  Diver Core  
 Adjusted Recovery Percentage: 72.9% Diameter of Core (inches) 4"  
 Notes: Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-153.7	40	60	100	0-153.7cm - Interbedded black, soft, wet, non plastic SILT (ML) with dark gray POORLY GRADED SILTY SAND (SM), loose, wet, fine to medium grained, layers ~3-6" thick @7cm - gray worm @16cm - 1/2" thick coarse grained sand lens @44-46cm - black wood frags @77cm - 2 black silt pockets 1/4" thick @151-153cm - med. grained sand lens @153cm - wood frag. 153.7-311cm - SILT (ML), dark gray, med. stiff, moist, non plastic @179-203cm - green gray silt layer	0-153.7	SC777A	[Sketch]
					43.7cm	SC777B	[Sketch]
					65.6cm	SC777C	[Sketch]
					87.5cm	SC777D	[Sketch]
					109.4cm	SC777E	[Sketch]
					131.3cm	SC777F	[Sketch]
					153.2cm	SC777G	[Sketch]
					175.1cm	SC777H	[Sketch]
					197.0cm		[Sketch]

# Sediment Core Processing Log

Job: *ADOC4 UR Phase 3*

Location ID: *SC777*



Job No. *180067.02.09*

Collection Date/Time: *12/19/22 0852*

No. of Sections: *3*

Core Logged By: *J. Light*

Penetration Depth: *14.00* (ft)

Attempt #: *1*

Processing Recovery Depth: *10.2* (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: *72.9%*

Diameter of Core (inches) *4"*

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200				<p><i>@210-230cm - dark gray/olive gray mottling</i></p> <p><i>@245-249cm - black wood fibers, wood frags,</i></p> <p><i>@272-274, 299-301cm - gray sandy silt lenses</i></p> <p><i>@272cm - 1/4" chunk of decomposing wood</i></p>	200	<i>SC777I</i>	
220			220		<i>218.9cm</i>		
240			240		<i>SC777J</i>		
260			240		<i>240.8cm</i>		
280			250		<i>SC777K</i>		
290			260		<i>262.7cm</i>		
300				<i>SC777L</i>	290	<i>284.6cm</i>	
320				<p><i>End of Core @ 311cm</i></p>	300	<i>SC777M</i>	
340					311.0cm		
360					320		
380					340		
400					360		
					380		
					400		

# Sediment Core Processing Log



Job: LDW AOCYUR Phase 3

Location ID: SC778

Job No. 180067.02.04

Collection Date/Time: 12/9/22 0756

No. of Sections: 1

Core Logged By: J. Light

Penetration Depth: 7.50 (ft)

Attempt #: 1

Processing Recovery Depth: 6.43 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 91.1%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0				0-208.2cm - SILT (ML), black, soft, wet non plastic	0		
30				@6cm - 1" subrounded gravel	30	SC778A	
60				@28-40cm - black/olive gray mottling	60	54.7cm SC778B	
90				@43-113cm - interbedded dark gray silty sand lenses ~ 3" thick	90	82.0cm SC778C (FD)	
120				@69cm - roots, wood frags.	120	109.3cm SC778D	
150				@114cm - med. stiff and low plasticity below	150	136.6cm SC778E	
180				@149-165cm - light gray sandy silt lens	180	163.9cm SC778F	
210				@190-192 - dark gray silty sand lens	210	191.2cm SC778G	
240				End of Core @ 208.2 cm	240	208.2cm	
270					270		
300					300		



# Sediment Core Processing Log



Job: CDW AOCY UR Phase 3

Location ID: SC779

Job No. 150067.04.02

Collection Date/Time: 12/19/22 0809

No. of Sections: 3

Core Logged By: J. Light

Penetration Depth: 14.00 (ft)

Attempt #: 1

Processing Recovery Depth: 12.50 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 89.3%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-261	5	95		<p>0-261cm - SILT (ML), black, soft, wet, non plastic</p> <p>@10cm - real worm</p> <p>@13cm - 1" shell fragment</p> <p>@23-33cm - gray silty sand lens</p> <p>@39-73cm - black/olive gray mottling</p>	0-261	SC779A	
261-77				@77-107cm - dark olive gray silt	261-77	SC779B	
77-137				@137-139cm - dark gray silty sand lens, wood frags.	77-137	SC779C	
137-173				@173-261 - interbedded black silt with black silty sand lenses ~ 3" thick	137-173	SC779D	
173-199				@199cm - 3" wood frag	173-199	SC779E	
199-193				@198-193cm - black wood fibers	199-193	SC779F	

# Sediment Core Processing Log

ANCHOR  
OEA

Job: LDW AOC4 UP Phase 3

Location ID: SC779

Job No. 180067.04.02

Collection Date/Time: 12/9/22 0809

No. of Sections: 3

Core Logged By: J. Light

Penetration Depth: 14.00 (ft)

Attempt #: 1

Processing Recovery Depth: 12.50 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 99.3%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200					200	SC779G	
220				@222cm - dark gray and medium stiff below	220	214.4cm	
240				@232cm - 1" decomposing wood chunk	240	SC779H	
260				@260cm - lens of black wood fibers	260	241.2cm	
280	90	10		<u>261-381cm - POORLY GRADED SAND with SILT</u> (sp-sm), gray, wet, med. dense, fine-med. grained multicolored grains, occasional mica flecks, nonplastic fines	280	SC779I	
300				@295cm - pocket of black wood fibers	300	266.0cm	
320				@311cm - fine grained below	320	SC779J	
340				@317cm - gray sandy silt lens	340	287.8cm	
360				@335-341cm - gray sandy silt lens, roots, wood frags.	360	SC779K	
380				@347cm - black wood fibers	380	314.6cm	
400				@358-364cm - 2" wood chunk (bark), roots	400	SC779L	
				@375-381cm - gray sandy silt lens		341.4cm	
				End of Core @ 381cm		SC779M	
						381.0cm	

# Sediment Core Processing Log



Job: AOC4 UR Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 1  
 Penetration Depth: 3.5 ft (ft)  
 Processing Recovery Depth: 2.97 ft (ft)  
 Adjusted Recovery Percentage: 82.0%  
 Notes:

Location ID: SC700  
 Collection Date/Time: 12/5/2022 10:23  
 Core Logged By: J. Ught  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-10		25	75	0-30cm SANDY SILT (ML), black, soft, wet, non-plastic fines, fine grained sand	0-10		
10-20					10-20		
20-30				@28-30cm, roots	20-30		
30-40			100	30-87.5cm SILT (ML), black, soft, wet, non-plastic	30-40	SC700	
40-50				@35-38cm, few small shell fragments	40-50		
50-60				@55cm - thin rubber strand	50-60	UP. Zern	
60-70				@58-70cm - gray/black mottling	60-70		
70-80				@78cm - trace fine gravel	70-80		
80-90				@87cm - 1/4" clear glass fragment in catcher	80-90		
90-97.5				End of Core @ 87.5cm	90-97.5		

# Sediment Core Processing Log

Job: LDW AOC4UR Phase 3

Location ID: SC78



Job No. 180067.02.04

Collection Date/Time: 12/13/22 1100

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 1

Processing Recovery Depth: 7.58 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 84.2%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-231	5	95		<p>0-231cm - SILT(MI), black, soft, wet, non plastic</p> <p>@4cm - shell fragments up to 1/2"</p> <p>@19-22cm - black rootlets</p> <p>@26cm - 1" white shell fragment</p> <p>@38-44cm - black silty sand lens, rootlets</p> <p>@56cm - branch</p> <p>@90-92cm - olive gray silt lens</p> <p>@115cm - rootlets</p> <p>@129-231cm - dark gray/olive gray mottling</p> <p>@134, 160, 162, 164, 174, 177, 190, 193-194cm - black wood fiber lenses</p> <p>@200cm - medium stiff, low plasticity below</p>	0-231	SC781A	~ ~ ~
					50.5cm	SC781B	~ ~ ~
					75.8cm	SC781C	~ ~ ~
					101.1cm	SC781D	~ ~ ~
					126.4cm	SC781E	~ ~ ~
					151.7cm	SC781F	~ ~ ~
					177.0cm	SC781G	~ ~ ~
					202.3cm	SC781H	~ ~ ~
				End of Core @ 231cm	231.0cm		



# Sediment Core Processing Log



Job: ADC4 U2 Phase 3  
 Job No. 180067-02,04  
 No. of Sections: 4  
 Penetration Depth: 17.8 ft (ft)  
 Processing Recovery Depth: 15.52 ft (ft)  
 Adjusted Recovery Percentage: 87.2%  
 Notes:

Location ID: SC782  
 Collection Date/Time: 12/5/2022 11:22  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	<u>0-400 cm SILT (ML), black, soft, wet, non plastic, slight H<sub>2</sub>S odor</u>	0-30	<u>SC782A</u>	~
30-60				<u>@35, 51, 95, 99, 121 cm - roots</u>	30-60	<u>52.3 cm SC782B</u>	~
60-90					60-90	<u>78.5 cm SC782C</u>	~
90-120					90-120	<u>104.75 cm SC782D</u>	~
120-150					120-150	<u>130.9 cm SC782E</u>	~
150-180				<u>@155-154 cm - pocket of gray silt</u>	150-180	<u>157.1 cm SC782F</u>	~
180-210					180-210	<u>183.3 cm SC782G</u>	~
210-240				<u>@190 cm - roots</u>	210-240	<u>209.5 cm SC782H</u>	~
240-270				<u>@222-229 cm - pocket of gray silty sand</u>	240-270	<u>235.7 cm SC782I</u>	~
270-300				<u>@249-250 cm - silty sand lens</u>	270-300	<u>267.9 cm SC782J</u>	~
				<u>@250 cm - grades to moist, m. stiff</u>			~
				<u>@253 cm - roots</u>			~
						<u>288.1 cm</u>	~

# Sediment Core Processing Log



Job: ADCY UR Phase 3  
 Job No. 1B0007.02.04  
 No. of Sections: 4  
 Penetration Depth: 17.90 ft (ft)  
 Processing Recovery Depth: 15.52 ft (ft)  
 Adjusted Recovery Percentage: 87.2%  
 Notes:

Location ID: SC 782  
 Collection Date/Time: 12/5/2022 11:22  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch	
300				<p>@353-400 cm - interbedded silty sand, gradual transition to silty sand</p> <p>@353, 360, 370-372, 378-379, 388-394 - silty sand/luss</p> <hr/> <p>400-473 cm - SILTY SAND (SM), gray, m. dense, moist, non plastic fines</p> <p>@417-418 cm - packet of black silt</p> <p>@434-436 - 1/4" wood chunks</p> <p>@464 - roots</p> <hr/> <p>End of Core @ 473 cm</p>	300	SC782K		
					314.3 cm			
330						330	SC782L	
						340.5 cm		
360						360	SC782M	
						366.7 cm		
390						390	SC782N	
	80	20				400 cm		
420						420	SC782O	
						426.2 cm		
450					450	SC782P		
					452.4 cm			
480					480	SC782Q		
					473 cm			

# Sediment Core Processing Log

Job: LDWAOC4UR Phase 3

Job No. 180607.02.04

No. of Sections: 2

Penetration Depth: 9.00 (ft)

Processing Recovery Depth: 7.97 (ft)

Adjusted Recovery Percentage: 88.6%

Notes:

Location ID: SC783

Collection Date/Time: 12/12/22 1259

Core Logged By: J. Light

Attempt #: 1

Type of Core  Mudmole  Vibracore  Diver Core

Diameter of Core (inches) 4"

Core Quality  Good  Fair  Poor  Disturbed



Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30		5	95	0-243cm - SILT (ML), black, soft, wet, non plastic	0-30	SC783A	
30-60					30-60	53.2cm SC783B	
60-90				@78-102cm - black/olive gray mottling	60-90	79.8cm SC783C	
90-120				@90-102cm - olive gray silt lens	90-120	106.4cm SC783D	
120-150				@100-101cm - black wood fiber lens	120-150	133.3cm SC783E	
150-180				@150-230cm - black/dark gray mottling	150-180	159.6cm SC783F	
180-210				@170cm - med. stiff below	180-210	186.2cm SC783G	
210-240				@201-204cm - pocket of gray silty sand	210-240	212.8cm SC783H	
240-270				@230-243cm - olive gray silty sand lens	240-270	243cm	
270-300				End of Core @ 243cm	270-300		

# Sediment Core Processing Log



Job: AOCY UR Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 4  
 Penetration Depth: 17.00 ft (ft)  
 Processing Recovery Depth: 14.37 ft (ft)  
 Adjusted Recovery Percentage: 84.5%  
 Notes:

Location ID: SC784  
 Collection Date/Time: 12/5/2022 12:20  
 Core Logged By: J. Light (processed 12/6/22)  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	0-43.8cm SILT(ML), black, soft, wet, nonplastic	0		
30				@16-20, 52cm - leaf/roots lens	30	SC784A	
60				@52cm - 1/2" shell fragment	60	50.7cm SC784B (FD)	
90				@69-70, 83-84cm - pocket of gray silty sand	90	76.1cm SC784C	
120				@78-79cm - 1 1/2" wood chunk	120	106.5cm SC784D	
150				@90cm - mat/st	150	126.9cm SC784E	
180				@95-96cm - leaf/twig lens	180	152.3cm SC784F	
210				@109, 114, 125cm - roots	210	177.7cm SC784G	
240				@133-135, 145-147cm - leaf/twig lens	240	203.1cm SC784H	
270				@150-152cm - gray silty sand lens	270	226.5cm SC784I	
300				@172-173cm - pocket of rootlets	300	253.9cm SC784J	
				@204-206, 213-214cm - black silty sand lens		279.3cm SC784K	
				@229-244 - dark gray silty sand lens			
				@235cm - roots, 3/4" diameter stick			
				@253-255cm - leaf/twig lens			
				@262-290cm - gradation to gray silty sand			
				@268, 273, 277cm - leaf/twig lens			
				@290-312cm - gray silty sand layer with pockets of silt			



# Sediment Core Processing Log



Job: LDW AOC4 WR Phase 3  
 Job No. 180067.02.01  
 No. of Sections: 4  
 Penetration Depth: 17.00 ft (ft)  
 Processing Recovery Depth: 14.37 ft (ft)  
 Adjusted Recovery Percentage: 14.5%  
 Notes:

Location ID: SC794  
 Collection Date/Time: 12/5/2022 12:20  
 Core Logged By: J. Light (Processed 12/6/22)  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300				@312-388cm - interbedded leaf/twig lenses	304.7cm		f   ~
				@319-320, 325, 345-346, 348-349, 354-356cm leaf/twig lenses	SC784L		~ ~ ~
330				@339- 1/2" decomposing wood chunk	330.1cm		~   ~
					SC784M		~ ~ ~
360				@390-402cm - dark gray silty sand lens	355.5cm		~ ~ ~
				@405-410cm - pockets of gray silty sand	SC785N		~ ~ ~
370				@410 - medium stiff	360.9cm		! : : : !
					SC785O		~ ~ ~
420					406.3cm		~ ~ ~
					SC785P		~ ~ ~
450				End of Core @ 438cm	438cm		

# Sediment Core Processing Log



Job: LDW AOC4 UR Phase 3

Location ID: SC705

Job No. 180067-02-04

Collection Date/Time: 12/5/2022 1354 (Processed 12/6)

No. of Sections: 4

Core Logged By: J. Light

Penetration Depth: 17.00 ft (ft)

Attempt #: 2

Processing Recovery Depth: 14.75 ft (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 86.8%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-377			100	<u>0-377cm - SILT (ML), black, soft, wet, nonplastic</u>	0-30	<u>SC785A (FO)</u>	
				<u>@ 56cm - leaf</u>	30-52.1	<u>52.1cm</u>	~
				<u>@ 75-76cm - pocket of shell fragments up to 1/2"</u>	52.1-78.1	<u>SC785B</u>	r r r
				<u>@ 94-99cm - dark gray silt lens</u>	78.1-94	<u>78.1cm</u>	
				<u>@ 121cm - 1" half shell</u>	94-104.1	<u>SC785C</u>	
				<u>@ 145cm - pocket of rootlets</u>	104.1-130.1	<u>104.1cm</u>	
				<u>@ 161cm - blue woven tarp</u>	130.1-156.1	<u>SC785D</u>	r
				<u>@ 199cm - root</u>	156.1-182.1	<u>SC785E</u>	~
				<u>@ 218cm - 1 1/2" angular gravel</u>	182.1-208.1	<u>156.1cm</u>	#####
				<u>@ 222cm - roots/leaf lens</u>	208.1-234.1	<u>SC785F</u>	
				<u>@ 234cm - root</u>	234.1-241	<u>182.1cm</u>	~
				<u>@ 235-237cm - pocket of dark gray silt</u>	241-254	<u>SC785G</u>	
				<u>@ 241cm - dark gray silty sand lens</u>	254-264	<u>208.1cm</u>	
				<u>@ 254-262cm - gray/black mottling</u>	264-276	<u>SC785H</u>	~
				<u>@ 264-267cm - wood chunks up to 2"</u>	276-279	<u>234.1cm</u>	
				<u>@ 276-279cm - 2.5" wood chunk</u>	279-286.1	<u>SC785I</u>	
				<u>@ 268-272, 279-282cm - dark gray silty sand</u>	286.1-300	<u>SC785J</u>	
						<u>286.1cm</u>	

# Sediment Core Processing Log



Job: LDW AUC4 Wk Phase 3  
 Job No: 180067.02.04  
 No. of Sections: 4  
 Penetration Depth: 17.00 ft (ft)  
 Processing Recovery Depth: 14.75 ft (ft)  
 Adjusted Recovery Percentage: 86.9 ft  
 Notes:

Location ID: SC785  
 Collection Date/Time: 12/5/22 1354 (Processed) 2/6  
 Core Logged By: J. Light  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300				@ 296-312cm - gradation to dark gray silty sand	300	SC785K	
				@ 312-323cm - dark gray silty sand		312.0cm	
330				@ 321-323cm - gray silt lens	330	SC785L	
				@ 335-377cm - gray/black mottling		338.1 cm	
360				@ 348cm - wood chunk, roots	360	SC785M	
				@ 340-377cm - gradation to silty sand		376.0cm	
390	90	10		377-450cm - SAND with SILT (SP-SM), olive gray, medium dense, moist, fine to medium, non plastic fines, occasional mica flecks, multicored red/white grains	390	SC785N	
420				@ 394cm - 1/4" gray clay rip up clast	420	402.0cm	
				@ 394cm - 1" gray clay rip up clast		SC785O	
450				@ 409cm - 1/2" gray clay rip up clast	450	428.0cm	
				@ 415cm - 1/2" decomposing wood chunk		SC785P	
480				@ 422cm - 2" gray clay rip up clast	480	450.0cm	
				@ 424cm - 1/4" white shell fragment			
				@ 426-430cm - gray silty sand lens			
				@ 447cm - 2" wood chunk			
				End of Core @ 450cm			



# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 3  
 Penetration Depth: 14.00 (ft)  
 Processing Recovery Depth: 9.32 (ft)  
 Adjusted Recovery Percentage: 66.6%  
 Notes:

Location ID: SC787  
 Collection Date/Time: 12/8/22 4:27N 1127  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	0-221cm - SILT (ML), black, soft, wet, non plastic @0-60cm - slight H <sub>2</sub> S like odor @34-38cm - dark olive brown silt with sand lens @71cm - root	0-30	SC787A	
30-60					30-60	20.3cm SC787B	
60-90					60-90	60.3cm SC787C	
90-120				@111-114, 139-142cm - black silty sand lens	90-120	80.3cm SC787D	
120-150				@144-149cm - decomposing wood frags, branches	120-150	100.3cm SC787E	
150-180				@164-165cm - black silty sand lens	150-180	120.3cm SC787F	
180-210				@167, 191cm - branches	180-210	140.3cm SC787G	
210-240				@191-196cm - 1 1/2" bark fragment, branches	210-240	160.3cm SC787H	
240-270					240-270	180.3cm SC787I	
270-300					270-300	200.3cm SC787J	
	>95	<5		221-284cm - POORLY GRADED SAND (SP), gray, med. dense, wet, fine to medium, multicolored grains, occasional mica flecks @222cm - 1/2" decomposing wood fragment @248-259cm - abundant black silt clasts @249cm - multiple pieces of clear plastic up to 3"		221.0cm SC787K	
						241.0cm SC787L	
						261.0cm SC787M	
						284.0cm	

@270cm - branches up to 1" thick  
 @290cm - 3" bark fragment  
 @275-291cm - dark gray sandy silt lens  
 End of Core @ 284cm



# Sediment Core Processing Log

ANCHOR  
OEA

Job: LOW ADCY UR Phase 3

Location ID: SC 788

Job No. 180067.02.04

Collection Date/Time: 12/13/22 1028

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 1

Processing Recovery Depth: 6.46 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 71.8%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	0-197cm - SILT(ML), black, soft, wet, non plastic	0		
20				@34cm - black root	20	SC788A	
40				@58-64cm - black wood fibers	40	43.1cm SC788B	
60					60	64.6cm SC788C	
80					80	86.1cm SC788D	
100					100	107.6cm SC788E	
120					120	(FD)	
140				@147-149cm - dark gray sandy silt lens	140	129.1cm SC788F	
160				@170-176cm - dark gray silty sand lens	160	150.6cm	
180				@176-197cm - black/dark gray mottling	180	<del>150.6cm</del> SC788G	
190					190	172.1cm SC788H	
200					200	197.0cm	

End of Core @ 197<sub>cm</sub>

# Sediment Core Processing Log



Job: LDW Acc4 UR Phase 3  
 Job No. 1800707.02.04  
 No. of Sections: 3  
 Penetration Depth: 14.00 (ft)  
 Processing Recovery Depth: 11.2 (ft)  
 Adjusted Recovery Percentage: 80%  
 Notes:

Location ID: IT789  
 Collection Date/Time: 12/8/12 2 0817  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-20		90	10	0-340cm - POORLY GRADED SAND with SILT (SP-SM), gray, loose, wet, fine to medium grained, multi-colored grains, occasional mica flecks, non-plastic fines	0-20	IT789A	
20-40				@10cm - gray worm	20-40	0-36cm IT789B	
40-60				@0-20cm - abundant gravel up to 1/2"	40-60	60cm IT789C	
60-80				@32-35cm - decomposing wood lens	60-80	84cm IT789D	
80-100				@51cm - pocket of black silt	80-100	108cm IT789E	
100-120				@61cm - stick and wood frags.	100-120	132cm IT789F	
120-140				@63-67cm - decomposing wood frags.	120-140	156cm IT789G	
140-160				@77-89cm - 5" x 2.5" red brick fragment	140-160	180cm	
160-180				@90cm - 2" black angular vesiculated glass like material	160-180		
180-200				@89-92cm - olive gray with black streaking silt lens	180-200		
				@130cm - pocket of 1/2" gray silt clasts			
				@134-141cm - 2" gray silt clasts			
				@155cm - coarser sand below, decreased fine grains			
				@161cm - 1/2" gray silt clast			
				@170-190cm - yellow staining			
				@182cm - brown clay clast 1"			

# Sediment Core Processing Log



Job: LDWAOC4UR Phase 3

Location ID: IT789

Job No. 180007.02.04

Collection Date/Time: 12/8/20 0817

No. of Sections: 3

Core Logged By: J. Light

Penetration Depth: 14.00 (ft)

Attempt #:     

Processing Recovery Depth: 11.2 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 90%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200					200	IT789H	
						204cm	
220					220	IT789I (FD)	
						228cm	
240					240	IT789J	
				@249-264cm - frequent rounded gravel up to 1/2"		252cm	
260					260	IT789K	
				@268cm - fine grained sand below		276cm	
280					280	IT789L	
300					300	300cm	
				@310-318cm - medium-coarse grained sand lens		IT789M	
320					320	324cm	
				@320-340cm - fine grained sand with silt		IT789N	
340					340	340cm	
				@338-340cm - light gray med.-coarse sand lens			
360					360		
				End of Core @340cm			
380					380		
400					400		

# Sediment Core Processing Log



Job: LOW Accy UR Phase 3  
 Job No: 1800707.02.04  
 No. of Sections: 4  
 Penetration Depth: 14.00 (ft)  
 Processing Recovery Depth: 13.91 (ft)  
 Adjusted Recovery Percentage: 99.4%  
 Notes:

Location ID: IT790  
 Collection Date/Time: 12/12/22 09:20  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-88			100	0-88cm - SILT (ML), black, soft, wet, non plastic @1cm - 2" red brick @2cm - gray worm @34-50cm - black/gray mottling @59cm - 1" diameter branch @74cm - 3" black decomposing wood fragment @59-84cm - wood fragments, sticks, roots	0-88	IT790A	
88-424			90 10	88-424cm - POORLY GRADED SAND with SILT (SP-SM), gray, med. dense, wet, fine to medium, multi-colored grains, occasional mica flecks, nonplastic fines @119-122cm - 2" decomposing black wood, silt lens @134cm - 1/4" dark gray silt clast @135cm - 1" gray silt clast @169cm - 1/4" gray silt clast @175cm - pocket of 3/4" subrounded gravel @230cm - silt absent below	88-424	IT790B IT790C IT790D IT790E IT790F IT790G IT790H IT790I	



# Sediment Core Processing Log



Job: LOW AOCY UR Phase 3

Location ID: IT790

Job No. 180007.02.04

Collection Date/Time: 12/8/22 0920

No. of Sections: 4

Core Logged By: J. Light

Penetration Depth: 14.00 (ft)

Attempt #: 1

Processing Recovery Depth: 13.91 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 99.4%

Diameter of Core (inches) 4.1

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
300					300	IT790J	
330			@332cm - medium-coarse grained with silt below	330	336.4cm		
360			@360cm - olive gray silt clasts	360	IT790K		
390			@371cm - wood frag.	390	356.2cm		
			@369-390cm - fine grained sand with silt	390	IT790L		
			@390-424cm - olive gray sandy silt layer		356.0cm		
420			@419-422cm - decomposing woody debris lens	420	IT790M		
450			End of Core @ 424cm	450	424.0cm		

# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3

Location ID: IT791

Job No. 1801067.02.04

Collection Date/Time: 12/13/22 0950

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 2

Processing Recovery Depth: 7.15 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 79.4%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-218	95	5		<p>0-218cm - POORLY GRADED SAND (SP), gray, loose, wet fine to medium grained.</p> <p>@0-10cm - yellow brown</p> <p>@10-38cm - gravelly silty sand, yellow brown, up to 3/4" subrounded to subangular gravel</p> <p>@38-81cm - red brown</p> <p>@117-119cm - pocket of gray sandy silt</p> <p>@125-131cm - 6cm void in 75% of the core barrel, material was lost during collection, material is missing at the top of core section 2</p> <p>@155-210cm - olive gray silt with sand layer, nonplastic</p> <p>End of Core @ 218cm</p>	0-35.7	IT791A	
					35.7-59.5	IT791B	
					59.5-83.3	IT791C	
					83.3-107.1	IT791D	
					107.1-130.9	IT791E	
					130.9-154.7	IT791F	
					154.7-178.5	IT791G	
					178.5-202.3	IT791H	
					202.3-218.0	IT791I	

# Sediment Core Processing Log



Job: Anchor Wk Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 1  
 Penetration Depth: 2.3 ft (ft)  
 Processing Recovery Depth: 2.0 ft (ft)  
 Adjusted Recovery Percentage: 87.0%  
 Notes:

Location ID: IT792  
 Collection Date/Time: 12/5/2022 11:00  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-20	30	60	10	GRAVELLY SAND with SILT (SP-SM), orange brown, loose, wet, fine to coarse, up to 1/2" subangular gravel, non-plastic fines	0-20		
20-61			100	SILT (ML), olive gray, soft, wet, non plastic @30-33cm - grass roots @40cm - leaf lens @47cm - few roots	20-61	IT792	
61-91				End of Core @ 61cm	61-91	39.2cm	

# Sediment Core Processing Log



Job: LOW AOCY UR Phase 3  
 Job No. 18 0067.02.04.  
 No. of Sections: 1  
 Penetration Depth: 6.00 (ft)  
 Processing Recovery Depth: 6.13 (ft)  
 Adjusted Recovery Percentage: 100%  
 Notes:

Location ID: IT793  
 Collection Date/Time: 12/12/22 0826  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-22	30	60	10	0-22cm - GRAVELLY SAND with SILT (SP-SM), orange brown, loose, wet, fine to coarse grained, subrounded gravel up to 1 1/2", nonplastic fines	0-22	<del>IT793A</del> AV IT793A	
22-186.8	10	90		22-186.8cm - SILT with SAND (ML), olive gray, soft, wet, nonplastic @49cm - 2" subrounded gravel	22-186.8	IT793B	
					75cm	IT793C	
					105cm	IT793D	
					135cm	IT793E	
				100 @150cm - gray, med. stiff, and sand absent below @158-165, 171-177cm - gray silty sand lenses	165cm	IT793F	
				End of Core @ 186.8cm	186.8cm		



# Sediment Core Processing Log



Job: LDW ADCY UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 1  
 Penetration Depth: 7.00 (ft)  
 Processing Recovery Depth: 6.3% (ft)  
 Adjusted Recovery Percentage: 91.1%  
 Notes:

Location ID: IT795  
 Collection Date/Time: 12/12/12 0835  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-23	25	65	10	0-23cm - GRAVELLY SAND with SILT(SP-SM), yellow-gray loose, wet, fine to coarse grained, non plastic fines, up to 1 1/2" subangular gravel @16cm - 3 1/2" subangular cobble @24cm - branch	0-23	IT795A	
23-194.5	5	95		23-194.5cm - SILT(ML), olive gray, soft, wet, low plasticity  @144cm - gray and med. stiff below  @163-173, 187-194.5cm - gray sand with silt lenses	23-194.5	IT795B IT795C IT795D IT795E IT795F	
194.5				End of Core @ 194.5cm	194.5	IT795G	

# Sediment Core Processing Log



Job: ACY WIL phase 3  
 Job No. 180067.02.01  
 No. of Sections: 1  
 Penetration Depth: 3.0 ft (ft)  
 Processing Recovery Depth: 2.62 ft (ft)  
 Adjusted Recovery Percentage: 87.3%  
 Notes:

Location ID: 1T7916  
 Collection Date/Time: 12/5/2022 11:25  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30	30		70	<p>0-29cm GRAVELLY SILT (ML), black, soft, wet, non plastic, up to 2 1/2" angular gravel, vesicular lightweight aggregate</p> <p>@16-18 cm - 1" chunk of wood</p>	0-30	1T7916	
30-79.9				<p>29-79.9cm - SILT (ML), black, soft, wet, non plastic</p> <p>@32-33cm - sand lens</p> <p>@43, 56, 60, 62cm - 1/4" thick root/twig</p> <p>@38-60cm - dark olive gray</p> <p>@64cm - 1/2" shell fragment</p> <p>@74-79.9cm - low plasticity</p>	30-79.9		
79.9-80				End of Core @ 79.9cm	79.9-80		

# Sediment Core Processing Log

Job: ACY Upper Reach Phase 3

Job No: 180067.02.04

No. of Sections: 1

Penetration Depth: 3.50 ft (ft)

Processing Recovery Depth: 3.09 ft (ft)

Adjusted Recovery Percentage: 88.3%

Notes:

Location ID: IT 798

Collection Date/Time: 12/5/2022 1143

Core Logged By: J. Ugh

Attempt #: 1

Type of Core  Mudmole  Vibracore  Diver Core

Diameter of Core (inches) 4"

Core Quality  Good  Fair  Poor  Disturbed



Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-22	30	40	30	0-22 cm - GRAVELLY SILTY SAND(SM), olive gray, loose, wet, non plastic fines, up to 2" subrounded gravel	0-22		
22-94.2			100	22-94.2 cm - SILT (ML) - olive gray, soft, wet, low plasticity @23-30 cm - occasional roots @38, 45, 77 cm - roots  @86 cm - silty sand lens	22-94.2	IT 798	
				End of Cor @ 94.2 cm	94.2		

# Sediment Core Processing Log



Job: LOWAOC4 UR Phase 3

Location ID: IT799

Job No. 1800107.02.04

Collection Date/Time: 12/13/22 0813

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 2

Processing Recovery Depth: 5.45 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 60.6%

Diameter of Core (inches) 4"

Notes: Abundant gravel from 0-120cm

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-120	35	45	20	<p>0-120cm - GRAVELLY SILTY SAND (SP-SM), orange brown, loose, wet, fine to coarse grained, subangular gravel up to 1 1/2", nonplastic fines</p> <p>0-10cm - lens of subrounded gravel up to 2"</p> <p>@55cm - 1" triangular clear glass fragment</p> <p>@60-70, 92-99cm - pockets of black silty sand up to 1/2" thick</p> <p>@102-120cm - grades to interbedded gray silt and gray sand with silt</p>	0-20	IT799A	
					27.3cm	IT799B	
					45.5cm	IT799C	
					63.7cm	IT799D	
					81.9cm	IT799E	
					100.1cm	IT799F	
	50	50		<p>120-166cm - Interbedded gray SILT (ML), soft, wet, nonplastic with gray SAND with SILT (SP-SM), fine grained, loose, wet, non plastic fines, beds ~ 1-3" thick</p> <p>@126-136cm - lens of subrounded to angular gravel up to 2"</p>	120	IT799G	
					138.2cm	IT799H	
					166.0cm		
				End of Core @ 166cm			



# Sediment Core Processing Log



Job: LOW ANCHOR

Location ID: SC800

Job No. 180007.02.04

Collection Date/Time: 12/12/92 1214

No. of Sections: 2

Core Logged By: J. Light

Penetration Depth: 9.00 (ft)

Attempt #: 1

Processing Recovery Depth: 6.53 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 72.5%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0		10	90	0-199 cm - SILT with SAND (ML), black, soft, wet, non plastic	0		
20				@0-80 cm - frequent black wood fibers and frags, slight H <sub>2</sub> S like odor	20	SC800A	
40					40	43.6 cm	
60				@67 cm - shell fragments up to 1"	60	SC800B	
80					80	65.4 cm	
100				@88 cm - black wood fragments	100	SC800C	
120				@108-199 cm - interbedded gray sand with silt lenses ~ 1"-3" thick	120	87.2 cm	
140				@116 cm - pocket of black wood fibers/fragments	140	SC800D	
160				@133 cm - low plasticity below	160	109.0 cm	
180				@154 cm - med. stiff and dark gray below	180	SC800E	
200				@167 cm - wood frag.	200	130.8 cm	
				@199-199 cm - dark gray/black mottling		SC800F	
						152.6 cm	
						SC800G	
						174.4 cm	
						SC800H	
						199.0 cm	

End of Core @ 199 cm

# Sediment Core Processing Log



Job: LDWA004 Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 1  
 Penetration Depth: 3.00 (ft)  
 Processing Recovery Depth: 2.27 (ft)  
 Adjusted Recovery Percentage: 75.7%  
 Notes:

Location ID: SC801  
 Collection Date/Time: 12/7/22 1217  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	<u>0-69.2cm - SILT(MI), black, soft, wet, non plastic</u>  @17cm - shell fragments up to 1/2"	0	SC801	fr
10					10		
20					20		
30					30		
40					40		
50					45.4cm		
60					50		
70				End of Core @ 69.2cm	60		
80					70		
90					80		
					90		



# Sediment Core Processing Log



Job: LOW AOC4 UR Phase 3

Location ID: SC802

Job No. 180067.02.04

Collection Date/Time: 12/18/22 1039

No. of Sections: 4

Core Logged By: J. Ught

Penetration Depth: 14.00 (ft)

Attempt #: 1

Processing Recovery Depth: 12.90 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 91.4%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
200					200	SC802F	
220				@229-232cm - dark gray silty sand lens	220	222.9cm	
240					240	SC802G	
260				@256-279cm - dark gray silty sand lens	260	250.3cm	
280				@279-292cm - gray silt lens	280	SC802H	
300				@292-365cm - gray fine to medium sand with silt layer, multicolored grains, occasional mica flecks, non plastic fines	300	277.7cm	
320				@292-328cm - frequent gray/black silt clasts up to 1/2"	320	SC802I	
340					340	305.1cm	
360				@345-366cm - medium to coarse sand	360	SC802J	
380				@355cm - 1" gray silt clast	380	332.5cm	
400				@360cm - lens of gray silt	400	SC802K	
				@366-390cm - light gray to gray silt, stiff		359.9cm	
				@370cm - 2" decomposing wood frag.		SC802L	
				End of Core @390cm		390.0cm	



# Sediment Core Processing Log



Job: Low A0CH UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 1  
 Penetration Depth: 3.00 (ft)  
 Processing Recovery Depth: 2.54 (ft)  
 Adjusted Recovery Percentage: 94.7%  
 Notes:

Location ID: SC803  
 Collection Date/Time: 12/7/22 1235  
 Core Logged By: J. Ught  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-10		5	95	<u>0-77.4cm - SILT (ML), black, soft, wet, non plastic</u>  @13cm - twig  @17, 29cm - red worms	0-10	SC803	
10-20					10-20		
20-30					20-30		
30-40					30-40		
40-50				@42-50cm - dark gray silty sand lens	40-50		
50-60				@52cm - dark olive gray below	50-60		
60-70				@57cm - Wade rootlet	60-70		
70-80					70-80		
80-90				End of Core @ 77.4cm	80-90	50.8cm	

# Sediment Core Processing Log

Job: LOW ANCHOR Phase 3

Location ID: SC804



Job No. 180067.02.04

Collection Date/Time: 12/21/22 1118

No. of Sections: 3

Core Logged By: J. Ught

Penetration Depth: 11.70 (ft)

Attempt #: 2

Processing Recovery Depth: 8.92 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 76.2%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30		40	60	0-272cm - Interbedded black, soft wet non plastic SILT (ML) with gray POORLY GRADED SAND (SP), gray, loose, wet, medium to coarse grained, beds ~ 6"-12" thick	0-30	SC804A	
30-45.7					30-45.7	SC804B	
45.7-66.6					45.7-66.6	SC804C	
66.6-91.5					66.6-91.5	SC804D	
91.5-114.4				@120cm - 2" decomposing wood chunk	91.5-114.4	SC804E	
114.4-137.3				@137.3-272cm - brown gray silt, med. stiff, low plasticity, fine grained gray silty sand, beds ~ 3"-5" thick	114.4-137.3	SC804F	
137.3-160.2					137.3-160.2	SC804G	
160.2-183.1				@200cm - dark gray silt below	160.2-183.1	SC804H	
183.1-206.0					183.1-206.0	SC804I	
206.0-228.9					206.0-228.9	SC804J	
228.9-251.8				@242-268cm - gray/olive gray mottling @255cm - pocket of rootlets	228.9-251.8	SC804K	
251.8-272.0				End of Core @ 272cm	251.8-272.0	SC804L	

# Sediment Core Processing Log



Job: LOW ADCYUR Phase 3

Location ID: IT805

Job No. 180067.02.04

Collection Date/Time: 0840 12/7/2022

No. of Sections: 1

Core Logged By: J. Light

Penetration Depth: 3.00 (ft)

Attempt #: 2

Processing Recovery Depth: 2.52 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 84.0

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-10	<del>10</del>	60	30	0-27cm - SILTY SAND with GRAVEL (SM), orange brown to gray, loose, wet, fine to medium, up to 2" subangular gravel, non plastic fines	0-10	IT805	
27-76.8			100	27-76.8cm - SILT (ML), gray with dark gray mottling, soft, wet, non plastic  @ 60cm - black twig	27-76.8		
76.8				End of Core @ 76.8cm	76.8		

# Sediment Core Processing Log



Job: LDWAOCY UR Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 1  
 Penetration Depth: 9.00 (ft)  
 Processing Recovery Depth: 5.54 (ft)  
 Adjusted Recovery Percentage: 62.0%  
 Notes:

Location ID: IT806  
 Collection Date/Time: 12/12/22 0835  
 Core Logged By: J. Light  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-27.9	25	50	25	0-27.9cm - POORLY GRADED SILTY SAND with GRAVEL (SM), orange yellow, fine to medium, subrounded gravel up to 1 1/2", nonplastic fines, loose, wet	0-27.9	IT806A	
27.9-114	20	80	80	27.9-114cm - SANDY SILT (ML), olive gray, soft, wet, nonplastic, fine grained sand @31-38cm - pocket of gray silty sand @43-45cm - medium grained gray sand with silt lens @55-62cm - black silty sand lens @75-79, 80-84, 90-96, 104-114, gray sand with silt lenses	27.9-114	IT806B	
114-170	100			114-170cm - POORLY GRADED SAND (SP), yellow gray, fine to medium grained, loose, wet, occasional coarse grains @116-122cm - decomposing wood chunk filling full core @149-153cm - fine grained lens	114-170	IT806C IT806D IT806E IT806F IT806G IT806H	
170-170				End of Core @ 170cm	170-170	IT806I	



# Sediment Core Processing Log



Job: LOWA004 UR Phase 3

Location ID: IT807

Job No. 180067.02.04

Collection Date/Time: 12/7/22 0910

No. of Sections: 1

Core Logged By: J. Ught

Penetration Depth: 1.00 ft (ft)

Attempt #: 2

Processing Recovery Depth: 0.90 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 90.0%

Diameter of Core (inches) 4"

Notes: bottom 4cm missing from core catcher removal

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-27.4			100	<p>0-27.4cm - SILT(ML), black, soft, wet, non plastic</p> <p>@6cm - 1/2" thick asphalt slab</p> <p>@13cm - black root</p> <p>@17,22cm - dark gray silty sand lens</p> <p>End of Core @ 27.4cm</p>	0-27.4	IT807	
					27.00cm		

# Sediment Core Processing Log



Job: LDWAOCY UR Phase 3

Location ID: IT808

Job No. 180067-02.04

Collection Date/Time: 12/12/22 0946

No. of Sections: 3

Core Logged By: JL'glt

Penetration Depth: 9.00 (ft)

Attempt #: 1

Processing Recovery Depth: 8.86 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 98.4%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-140			100	0-140cm - SILT (ML), black, soft, wet, non plastic @44-46cm - pocket of green gray silt @56-140cm - medium stiff, low plasticity @62, 74cm - pockets of black wood frags.  @110-123cm - black/green gray mottling  @135cm - wood frags.	0-140	IT808A	
44.3					44.3cm	IT808B	
73.8					73.8cm	IT808C	
103.3					103.3cm	IT808D	
140-270			100	140-270cm - POORLY GRADED SAND (SP), gray, loose, wet, fine to medium, multicolored grains, occasional mica flecks @140-145cm - void at contact of silt and sand due to sand falling out of the core during processing, closed in the log above @190-224cm - fine to coarse grained @219cm - branch, wood frags. @262-268cm - 3.5" chunk of decomposing wood	140-270	IT808E	
169.5					169.5cm	IT808F	
199.0					199.0cm	IT808G	
228.5					228.5cm	IT808H	
270				End of Core @ 270cm	270	270.0cm	

# Sediment Core Processing Log



Job: CDW AOCY UR Phase 3  
 Job No. 18007.02.04  
 No. of Sections: 2  
 Penetration Depth: 9.00 (ft)  
 Processing Recovery Depth: 9.83 (ft)  
 Adjusted Recovery Percentage: 98.1%  
 Notes:

Location ID: IT 809  
 Collection Date/Time: 12/9/22 1144  
 Core Logged By: J. Light  
 Attempt #: 2  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-30			100	0-98cm - SILT (ML), black, soft, wet, non plastic. @5-13cm - 3.5" wood frag, wood chunks, slight H <sub>2</sub> S like odor @12-14cm - green gray silt lens @39-46cm - 4" wood fragment @36-79cm - black/olive gray mottling @62cm - wood frag.	0-30	IT809A	
30-60			95	98-269cm - POORLY GRADED SAND with SILT (SP-SM), gray, med. dense, wet, fine grained, multicolored grains, occasional mica flees, non plastic fins	30-60	44.1cm IT809B	
60-90				@107cm - 1" and 1/4" brown with black streaking silt clasts	60-90	73.5cm IT809C	
90-120			100	@174-180cm - olive gray silt lens, frequent rootlets, black wood fibers	90-120	95.0cm IT809D	
120-150				@190-269cm - fine to medium grained sand, silt absent	120-150	127.4cm IT809E	
150-180				@262cm - 1/2" brown silt clast	150-180	156.8cm IT809F	
180-210				@265cm - branch, wood frags.	180-210	190.2cm IT809G	
210-240					210-240	215.6cm IT809H	
240-270					240-270	245.0cm IT809I	
270-300				End of Core @ 269cm	270-300	269.0cm	

# Sediment Core Processing Log



Job: LDW AOCY UR Phase 3

Location ID: IT810

Job No. 180007.02.04

Collection Date/Time: 12/9/22 0840

No. of Sections: 1

Core Logged By: J. L. Whit

Penetration Depth: 7.75 (ft)

Attempt #: 1

Processing Recovery Depth: 7.20 (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 92.9%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	0-219.5cm - SILT (ML) black, soft, wet, non plastic	0		
18				@18cm - 3.5" angular cobble	30	IT810A	
30				@30cm - roots, grass	41.8		
57				@57-60cm - dark gray silty sand lens	60	IT810B	
72				@72cm - 1/4" gray silt pocket	69.7		
109				@109cm - medium stiff below	90	IT810C	
125				@125cm - pocket of wood fibers/fragments	97.6		
156				@156cm - root	120	IT810D	
193-194, 200-202				@193-194, 200-202cm - gray silty sand lens	125.5		
197				@197cm - wood frags	150	IT810E	
219.5				End of Core @ 219.5cm	153.4		
					170	IT810F	
					181.3		
					210	IT810G	
					219.5		



# Sediment Core Processing Log



Job: AOCA UR Phase 3  
 Job No. 180067.02.04  
 No. of Sections: 1  
 Penetration Depth: 3.00 ft (ft)  
 Processing Recovery Depth: 2.52 ft (ft)  
 Adjusted Recovery Percentage: 84.0%  
 Notes:

Location ID: SCB13  
 Collection Date/Time: 12/5/2022 1315  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0			100	0-76.8 cm - SILT(ML), black, soft, wet, non plastic	0		
10					10		
20					20		
30				@ 25-27 cm - 2" white shell fragment, brown worm	30	SCB13	r
40					40		
50					50	50.4 cm	
60					60		
70					70		
80				End of Core @ 76.8 cm	80		
90					90		

# Sediment Core Processing Log



Job: LDWAOC3UR Phase 3  
 Job No. 1800107.02.04  
 No. of Sections: 1  
 Penetration Depth: 4.50 (ft)  
 Processing Recovery Depth: 3.45 (ft)  
 Adjusted Recovery Percentage: 76.7%  
 Notes:

Location ID: IT814  
 Collection Date/Time: 12/19/22 1240  
 Core Logged By: J. Light  
 Attempt #: 7  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-20		5	95	0-46cm - SILT(ML), olive gray with black mottling, soft, wet, non plastic @39cm - packet of rootlets @42cm - 1/4" rounded gravel @44cm - 1 1/2" wood chunk	0-20	IT814A	
20-40					20-40	34.5cm IT814B	
40-60		90	10	46-105.2cm - POORLY GRADED SAND with SILT (SP-SM), red brown, loose, wet, fine to medium grained, nonplastic fines @46-60cm - occasional coarse grained sand	40-60	46.0cm IT814C	
60-80					60-80	69.0cm IT814D	
80-100					80-100		
100-120				@104cm - gray below	100-120		
120-140				End of Core @ 105.2 cm	120-140	105.2cm	
140-160					140-160		
160-180					160-180		
180-200					180-200		

# Sediment Core Processing Log



Job: Accy U2 Phase 3  
 Job No: 130067.02.04  
 No. of Sections: 1  
 Penetration Depth: 3.00 ft (ft)  
 Processing Recovery Depth: 2.55 ft (ft)  
 Adjusted Recovery Percentage: 85.0%  
 Notes:

Location ID: IT015  
 Collection Date/Time: 12/15/2022 1242  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-28		10	90	0-28 cm, SILT with SAND (ML), extremely unconsolidated, saturated, very loose, black, non plastic, occasional wood chunks	0-28	IT015  38.3 cm	[Sketches of sediment layers]
28-41		30	70	28-41 cm - SANDY SILT (ML), gray, soft, wet, fine grained sand, non plastic	28-41		
41-77.7		70	30	41-77.7 cm - SILTY SAND (SM), orange brown, loose, wet, fine to medium grained, non plastic fines @57-60 cm - 1/2" subrounded gravel lens	41-77.7		
				End of Core @ 77.7 cm	77.7		

1. Distinct lithology contact within first sample interval, entire sample interval was composited

# Sediment Core Processing Log



Job: ACY U2 Phase 3  
 Job No. 180067-02.04  
 No. of Sections: 1  
 Penetration Depth: 1.60 ft (ft)  
 Processing Recovery Depth: 1.30 ft (ft)  
 Adjusted Recovery Percentage: 81.3%  
 Notes:

Location ID: IT 816  
 Collection Date/Time: 12/5/2022 1222  
 Core Logged By: J. Light  
 Attempt #: 1  
 Type of Core  Mudmole  Vibracore  Diver Core  
 Diameter of Core (inches) 4"  
 Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-10	10	70	20	<p><u>0-39.6 cm - SILTY SAND with GRAVEL(SM), brown, loose, wet, fine to coarse, up to 1/2" subrounded gravel, non plastic fines</u></p> <p><u>@20cm - root/grass</u></p>	0-10	<p><u>IT 816</u></p>	
10-39.6					10-39.6		
39.6-40				<p><u>End of Core @ 39.6 cm</u></p>	39.6-40	<p><u>36.6 cm</u></p>	



# Sediment Core Processing Log



Job: AOCY UR Phase 3

Location ID: IT 817

Job No. 180067.02.04

Collection Date/Time: 12/5/2022 12:55

No. of Sections: 1

Core Logged By: J. Light

Penetration Depth: 2.00 ft (ft)

Attempt #: 1

Processing Recovery Depth: 1.66 ft (ft)

Type of Core  Mudmole  Vibracore  Diver Core

Adjusted Recovery Percentage: 83.0%

Diameter of Core (inches) 4"

Notes:

Core Quality  Good  Fair  Poor  Disturbed

Recovered Length (cm)	Size % Gravel	Size % Sand	Size % Fines	Classification and Remarks (Density, Moisture, Color, Minor Constituent, MAJOR Constituent, with Additional Constituents, Sheen, Odor)	Recovered Length (cm)	Sample	Summary Sketch
0-50.6	95	5		<p><u>0-50.6cm - Poorly graded SAND with SILT (SP-SM), red, loose, wet, fine to medium, nonplastic fines</u></p> <p><u>@ 14-19cm - gravel lens, up to 1" rounded gravel</u></p>	0-50.6	IT 817	[Sketch]
				<u>End of Core @ 50.6 cm</u>	37.4		

27.720

12.05.22

0615 Arrive at South Pole Marina.  
high 30's, overcast. Prep supplies  
to load up boat.  
0630 Meet up w/ MS/SEE

D. Dickinson, Thompson, D.  
Jackson. Prep coning capt.  
and boat.

0715 Conduct H/S briefing.

0810 Navigation check.

0820 Head to location 775  
Attempt 1 at 775

11.50 A recovery / 18 A. penetration  
03.0% - rejected, set aside.

0937 Attempt 2

16.00 A. recovery / 18 A. pen  
02.2% - accepted

1035 Head to 782  
Attempt 1

15.00 A recovery  
08.8% - accepted.

1050 Transferred core 775 to processing

1140 Giovanni Pagnozzi (GeoSynker) arrives

1205 Transferred core 782 to processing

1215 Head to 784

1220 Attempt 1

TD0

12.05.22

14.50 A. recovery / 17 A. pen.  
05.3% accept.

1300 Transfer core 784 to processing;  
G. Pagnozzi departs.

1305 Head to 785

1308 Attempt 1  
11.90 A recovery / 17 A. pen.  
7.0% - rejected, set aside.

1324 Attempt 2

14.9 A recovery / 17 A. pen.  
07.6% - accepted.

1440 Transferred core 785 to processing.  
Head back to marina. End

of core sampling to let processing  
team catch up.

1445 Navigation check.

1450 At marina

1500 Depart marina. End of on-ice  
day. Head to processing trailer

1510 At trailer. Help processing team.

1730 Depart trailer. End of  
field day

12.05.22



4  
TDD

120622

0615 At spm. High 30's, showers.

0630 Prep supplies / equipment.

0645 Meet up with SEB/MSS

D. Dickinson, T Thompson, D

Jackson, Prep boat and

egpt. local supplies.

0700 H/S briefing

0715 Depart marina.

0725 Nav check.

0727 Head to location 716

10744 Attempt 1

15.00 ft recovery / 17 ft pen.

88.2% - accepted.

0845 Head to location 710

Location target is very close to

measured locats. ~ 2 ft. slope

0904 Attempt 1

14.4 ft recovery / 17 ft pen.

94.7% accepted.

0945 Transfer core to processing.

0950 Head to location 769, ~ 2 ft. slope.

1003 Attempt 1

13.60 ft recovery / 16 ft pen.

85.0% - accepted.

1045 Transfer core to processing.

TDD

120622

1055 Head to location 716

1101 Attempt 1 2 ft. slope

6.0 ft recovery / 7.4 ft. pen (refusal)

81.1% - rejected - set aside.

did not reach target depth of

- 26 ft mud (3 ft slip)

1204 Attempt 2, moved location north

per consult w/ Kristen Kerns

(USPA/DEALBATE oversight) and

Suzanne Replinger.

14.1 ft recovery / 15 ft pen

94% accepted (hit target elev.)

1245 Transfer core to processing.

1258 Head to location 764, ~ 1 ft. slope

1310 Attempt 1

7.30 ft recovery / 12.4 pen.

58.9% - reject.

1406 Attempt 2

15.6 ft recovery / 15.6 ft pen

100% - accept.

1423 Nav check.

1430 At marina.

1500 Transfer core to processing.

1515 Depart marina. End of

on water sampling day

*Revised*

TTD

12/07/22

1515 (cont'd) - Head to processing  
trailer to help process

1520 At trailer - start processing  
cores

1830 End of processing. Depart.  
End of field day.

~~TTD  
12/07/22~~

TTD

12/07/22

0815 Arrive at SPIN AC, proceed

0830 Prep paperwork  
Meet w/ USS/SEE

0830 D. Dickinson & D. Jackson.  
Prep heat and eqpt/supplies

0910 T. Thompson arrives  
0920 H/S briefing

0933 Depart marina.  
0937 Mid. check.

0945 Head to location 703  
0957 Attempt 1

1000ft recovery / 9.0 ft pen.  
10.7% - rejected

0838 Attempt 2  
4.20ft recovery / 7.3 ft pen.  
57.5% - rejected.

0855 Abandon location for now, consulting  
PNS for add'l direction

0904 Head to location 755, 14 slope  
0920 Attempt 1

12.9 ft recovery / 15 ft drive pen.  
86.0% accept

0955 Transfer core to processing.

0959 Head to location 753 1 ft slope  
1008 Attempt 1



8 TD0 2.07.22

1000 12.9 ft recovery / 15.0 ft drive.  
0% - accepted.

1035 Transfer core to processing.  
1047 Head to location 751, 1 ft slope.

1056 Attempt 1

1133 13.0 ft recovery / 15.0 ft pen.  
0% - ~~0%~~ accepted

1135 Transfer core to processing.  
Head back to location 703  
for 3rd attempt. Will try  
for ~20 ft offset target (growth?)  
downriver, per AD suggestion  
(per conversation w/ Susie).

1145 Attempt 3  
~~10.1 ft~~ 6.90 ft recovery / 10.1 pen  
68.3% - reject (set aside)  
Will try one more time ~20 ft south

1215 Attempt 4  
9.3 ft recovery / 10 ft dr.  
93.0% - accept (per Susie,  
even though we did not reach  
-30 ft new - only got to  
-25 ft. new.)

1400 Transfer core to processing.  
1405 Head to location 702

TD0 2.07.22

1414 Attempt 1  
12.50 ft recovery / 14 ft pen.  
0% - 3% accepted.

1435 Transfer core to processing.  
1445 Head back to main.

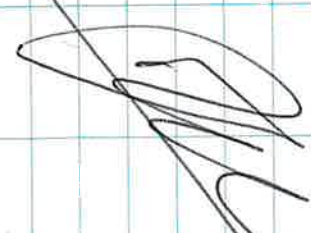
1455 Nav. check.

1500 At marina. Offroad.

1515 Depart marina. End of on  
water sampling day. Head to  
processing trailer.

1520 At trailer, help processing  
team.

1730 Complete processing. Depart.  
End of field day.

~~TD0 2.07.22~~  
  
2.07.22

10  
1700

12.08.12

0600

Arrive at SPN. AD's, showers.

Rep paperwork, clean caps and core cutters

0605

Meet up w/MS/SEB

Dale Dickinson, Dan Jackson.

0630

Tim Thompson arrives. Continue boat and eqpt prep.

0710

H/S briefing

0730

Depart marina

0735

Nav check.

0740

Head to location 789, 1 ft slope

0817

Attempt 1

11.9 ft recovery / 14 ft pen

85.0% - accepted

0855

Transfer core to processing.

~~0907~~

Head to location 790, 1 ft slope

0920

Attempt 1

14.7 ft recovery / 14.0 drive pen.

105.0% - accepted.

1010

Transfer core to processing.

1030

Head to location 802

1034

Attempt 1

13.40 ft recovery / 14.0 ft drive

95.7% accepted.

1115

Transfer core to processing.

1700

12.08.12

1120

Head to location 787

1127

Attempt 1

10.1 ft recovery / 14 ft pen.

72.1% rejected.

1207

Attempt 2

9.9 ft recovery / 14 ft pen

70.7% rejected.

1225

Susie okayed keeping 1<sup>st</sup> attempt b/c we hit target depth.

Slightly low recovery due to soft unconsolidated mud in upper

45 ft of drive.

Transfer cores to processing, and

1235

lunch break.

1255

Head to location 761

1304

Attempt 1

10.30 ft recovery / 14 ft drive

97.6% - reject - sit aside

1347

Attempt 2

12.50 ft recovery / 14 ft drive

91.4% - accept

1415

Transfer cores to processing.

1420

Head to location 758

1429

Attempt 1

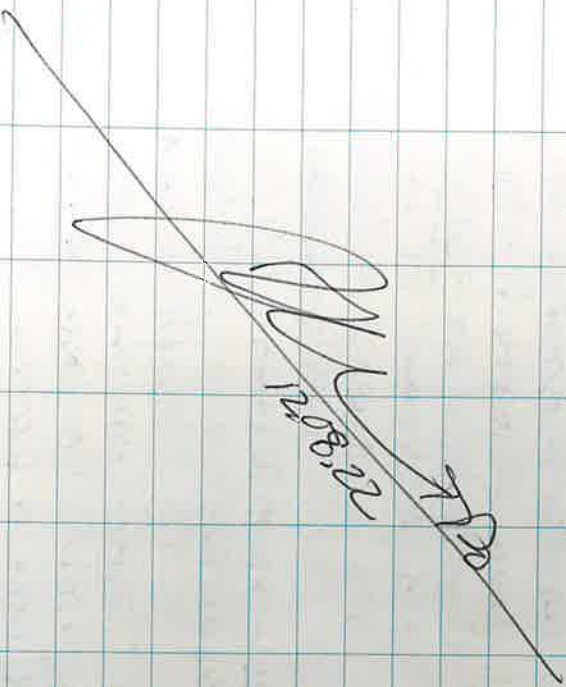
13.40 ft recovery / 14.0 ft drive



T.DD

12.08.22

- 1429 95.7% - accepted.
- 1445 Head to marina.
- 1447 Nav check.
- 1450 Back at marina, ~~PT~~
- 1505 Transfer core to processing
- 1515 Depart marina. End of an - week day. Head to Aei to pick up supplies and to processing site to help.
- 1530 At processing site, help process and core.
- 1630 Depart site. End of field day.



12.08.22

T.DD

12.04.22  
~~12.08.22~~

- 0615 Arrive at spin, hi 30's overcast.
- Prep prep work / decon caps and cutters. Meet w/ NSSL/SEE.
- D. Dickson, D. Jackson.
- 0630 T. Thompson arrives. Cont. met prep/eqpt.
- 0730 H/S briefg.
- 0740 Depart marina
- 0745 Nav. check.
- 0750 Head to location ~~339~~ 339
- 0809 Attempt 1
- 1310 ft recovery / 14 ft pen
- 03.6% - accepted
- 0915 Head to location ~~333~~ 333
- Attempt 1
- 1080 ft recovery, 14 ft pen
- 33.1% - accepted.
- 0935 Transfer cores to processing.
- 0949 Head to location ~~359~~ 359
- Attempt 1
- 800 ft recovery / 9.0 ft pen
- 88.9% - accepted.
- 1025 Transfer to processing crew
- 1030 Head to location 809
- Attempt 1 - location is up

14 ~~1700~~ 12.08.22

1030 On a steel retaining wall. Lots of rip rap and armoring beneath. Must move out 10-20 ft.

1105 Attempt 1  
5.70 ft recovery, 9 ft drive.  
103.3% - rejected

1144 Attempt 2  
9.30 ft recovery, 9 ft drive.  
103.3% - accepted

1220 Transfer core to processing. Move to location 767  
1245 Attempt 1  
6.70 ft recovery / 6.50 pen  
103.1% accept need 8 ft.

1345 Attempt 2  
5.10 ft recovery / 3.75 ft pen -  
136.0% - reject need 8 ft.

1441 Attempt 3  
7.30 ft recovery / 4.00 ft pen  
182.5% reject - questionable.

1500 NAV check.  
1510 At marina, press core  
1530 Depart dock. End of on water.  
1545 Depart marina for field processing  
1550 At processing.

~~1700~~ 12.08.22

1645 Depart processing. End of field day.

~~1700~~ 12.08.22



12.12.22

0600 Arrive at SPR, AD's, rain.  
Supplies and paperwork prep  
0615 Meet up w/ MS/SE. Equipment  
and boat set-up; load core  
boxes

0715 H/S briefing.  
0730 Depart marina.

0740 Head to location 806  
0754 Attempt 1  
3.40 ft recovery/9.0 ft dive  
37.8% rejected

0835 Attempt 2  
6.00 ft recovery/9.0 ft dive  
66.7% - reject - OK for Susie

0908 Attempt 3  
4.00 ft recovery/9.0 ft dive  
44.0% - reject

0930 Susie OK'ed to keep attempt 2  
0938 Head to location 808  
0946 Attempt 1  
9.30 ft recovery/9.00 ft dive  
103.3% accept.

1027 Head to location 804  
1036 Attempt 1

12.12.22

1036 7.40 ft recovery/9.0 ft dive  
82.2% - rejected (need 8 ft.)  
1118 Attempt 2  
9.40 ft recovery/11.70 ft dive  
80.3% accepted

1111 Transfer cores to processing.  
1150 Transfer core to processing.  
1212 Head to location 800  
1214 Attempt 1  
7.00 ft recovery/9.00 ft dive  
77.8% accepted.

1245 Head to location 783, 1 A. slope  
1259 Attempt 1  
8.40 ft recovery/9.0 ft dive.  
93.3% accepted.

1330 Transfer cores to processing.  
1340 New check, head to marine.  
1345 At marine. End of on-water  
day.

1350 Head to trailer to help press.  
1355 At trailer, Processing.  
1630 End processing. Depart. End  
of field day TR

  
12.12.22

0600 Arrive SPN, in 30's, pty cables  
 REP paperwork  
 0615 Get up w/ USS/SEE  
 D. Dickinson, T Thompson, D Jackson.  
 Prep boat, coming eqpt, supplies.  
 Decom core cutters and caps.  
 0710 H/S briefing.  
 0715 Depart marina.  
 0720 Nav check.  
 0725 Head to location 799, 2' slope  
 0730 Attempt 1  
 2.90 ft recovery / 9.0 ft drive  
 32.2% - rejected.  
 10813 Attempt 2  
 6.40 ft recovery / 9.0 ft drive  
 71.1% - accepted - bstop3, <sup>OK</sup> <sub>staircase</sub>  
 0840 Attempt 3  
 3.90 ft recovery / 8.5 ft drive.  
 45.9% - rejected  
 0900 Head to location 791, 2' slope  
 0910 Attempt 1  
 4.80 ft recovery / 9.0 ft drive.  
 53.3% - rejected  
 0920 Kayla Patten (USACE) arrives for oversight. H/S brief.

~~10950~~  
~~09410~~

Attempt 2  
 7.50 ft recovery / 9.0 ft drive.  
 83.3% - accept.  
 1015 Transfer cores to processing  
 1017 Head to location 788, 1 ft slope  
 1020 Attempt 1  
 7.20 ft recovery / 9.0 ft drive.  
 80.0% - accept  
 1050 Transfer core to processing.  
 1055 Head to location 781, 1 ft slope  
 1100 Attempt 1  
 8.20 ft recovery / 9.0 ft drive  
 91.1% - accepted  
 1127 Head to location 765, 0 ft slope  
 1138 Attempt 1  
 5.00 ft recovery / 9 ft drive.  
 62.2% - rejected.  
 1214 Attempt 2  
 8.70 ft recovery / 9 ft drive  
 96.7% accept.  
 1240 Head to location 757, 1 ft slope  
 1250 Attempt 1  
 6.40 ft recovery / 9.0 ft drive  
 71.1% - reject.  
 1330 Attempt 2 Transfer cores to processing



13310 TD

12.13.22

Attempt 2

6.40 ft recovery / 9.0 ft drive,

71.1% - accept (ok for Suzanne)  
best of 3, closest to target

1408 Attempt 3

5.50 ft recovery / 9.0 ft drive,

61.1% - reject

1430 Transfer cones to processing.

1440 head to location ~~75ft~~, 1 ft slip~~1450~~  
~~1460~~ Attempt 1

6.20 ft recovery / 9.0 ft drive

68.9% - rejected

1515 ~~Attempt 2~~ Kayla Raden departs

1528 Attempt 2, in one 10 ft qt target.

7.10 ft recovery / 9 ft pen.

~~1540~~ 78.9% accepted.

1550 Transfer to processing.

1555 head back to mainna.

1604 PMU check.

1610 At mainna. Official supplies.

1615 Depart mainna. End of on-water

activities. Head to processing.

1620 At processing, help process

1710 Depart processing. End of

field day.

12.13.22

# DEFYING MOTHER NATURE®

SINCE 1916



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S Replinger

12.6.2022

5

0630 Meet at SP1 and begin prep for sampling.

Weather: Cloudy, light rain, Bais

Crew: S Replinger  
C. Christensen

Winters.

E. Stuen

M. Diffey } Grassy

0715 Conduct HES benching.

0730 Depart dock & prep sampling equipment.

0745 Head upstream to collect samples upstream

of bridge near turning basin.

0800 Discor problem with air compressor.

Head to collect new one at boat camp.

0830 Knien born arrives. Meet her at First Ave S

boat camp & wait for compressor. Conduct HES

0900 Head upstream to resume sampling

0930 Head under bridge upstream of holding basin

~18 ft clearance, hde of +7.3 ft.

0941 First attempt at SS828. Target coordinates upon

rip rap bank. Collected sample as close as possible.

Abit 6 ft from target. Accepted.

1010 First attempt at SS822. Accepted.

1023 First attempt at SS821. Accepted.

1034 First attempt at SS820. Rejected (rock jaw)

1036 Second attempt at SS820. Rejected - carp. in

1038 Third attempt at SS820. Rejected -

insufficient penetration.

Rite in the Rain



6 S. Replinger

12.6.2022

- 1041 Fourth attempt at SS820. Rejected  
Insufficient penetration
- 1044 Fifth attempt at SS820. Rejected.  
Insufficient penetration.
- 1047 Sixth attempt at SS820. Rejected. Rock in jaw.
- 1049 Seventh attempt at SS820. Accepted.
- 1107 Head back downstream under bridge.  
(hole = +7.7 ft)
- 1111 First attempt at SS819. Accepted.
- 1124 First attempt at SS818. Accepted.
- 1135 Chuck wader depth to access 824 +825.  
Too shallow at current tide (+8.14 ft)
- 1150 First attempt at SS812. (Slip 4). Rejected  
Rock in jaw.
- 1151 Second attempt at SS812. Rejected. Grab  
hopped over. No sediment.
- 1155 Third attempt at SS812. Rejected. Rock in  
jaw. Skip bank & rocks. Will return  
at low tide tomorrow to attempt to collect  
by hand.
- 1205 First attempt at SS811. Accepted.
- 1223 First attempt at SS786. Rejected. Rock in jaw
- 1224 Second attempt at SS786. Rejected.  
Insufficient penetration.

S. Replinger

12.6.2022

- 1226 Third attempt at SS786. Accepted.
- 1309 First attempt at SS766. Rejected. Rock in jaw.
- 1311 Second attempt at SS766. Rejected.
- 1313 Third attempt at SS766. Rejected.  
Better recovery, but rock in jaw.
- 1316 Fourth attempt at SS766. Accepted.
- 1335 First attempt at SS771. Accepted.  
Also collect Field Dip (LDW22-SS771-FD).
- 1355 First attempt at SS772. Rejected. Over-penetrated.
- 1357 Second attempt at SS772. Accepted.
- 1425 First attempt at SS825. Rejected. Rock in jaw
- 1428 Second attempt at SS825. Accepted.
- 1442 First attempt at SS824. Rejected  
Lots of plant material in jaws.
- 1443 Second attempt at SS824. Rejected. Vegetation.
- 1445 Third attempt at SS824. Accepted.
- 1510 Kuskon learns departs. Via support vessel.
- 1312 First attempt at SS797. Rejected  
Survey area for SS797 and 794. Determine  
that hand-collection will be easier.
- 1313 Second attempt at SS797. Rejected.
- 1424 Return to SPN. Offload supplies.
- 1445 End of field day. Depart Nanna.

S. Replinger

12.6.2022

Return to Nanna

S. Replinger

12.7.2022

0630 Meet as 5PM. Prep for sampling.

Weather cloudy, AcsCrew: S. Replinger

Mike Duffield

Chad Furlie } Gravity

0700 Conduct HES briefing.

0720 Prep vibracore and plan for day's sampling.

0820 First attempt at 17805. Rejected.

Insufficient recovery (&lt; 75%).

0840 Second attempt at 17805. Accepted.

0900 First attempt at 17807. Rejected.

Could not penetrate past ~0.6 ft. (retros)

0910 Second attempt at 17807. Rejected.

Hit rebar at ~1 ft. penetration.

0923 Third attempt at 17807. Rejected.

Nothing in core.

Discuss w/ Susie McGrady &amp; Kristen Kerns;

agree to process and archive best core

(attempt #2).

0937 Kristen Kerns arrives and joins crew.

Conduct HES briefing.

0945 Head to sample area (9/120 high density

samples (794 and 797).

1000 Collect SS 797 from exposed beach

area.

S. Replinger

12.7.2022

1010 Collect 1797 from beach area.

Both 1797 and SS797 collected between

fence and logs (see photos).

1025 Head to Slip 6 to attempt collection

at SS812

1040 Collect SS812 at water line.

Approx 9 ft from target (collected

as close to target as possible).

1105 Collect surface grab SS794

1110 Collect ~~surface grab~~ <sup>SS</sup> subsurface

0-45cm sample at 17794.

Both samples collected between logs

and fence. (See photos).

1130 Chat with Rebecca Gardner re: Slip 4.

Have access to Slip 4 starting tomorrow.

Thursday is our best opportunity for sampling;

arrange schedule to target that sampling.

1217 First attempt at SC801. Accepted.

1235 First attempt at SC803. Accepted.

1245 Finished remaining surface grabs &amp;

start cores in the upper reach. Check

in w/ processing crew and shift to

forgetting vertical cores. Begin

prepping equipment.

1330 First attempt at SCT60 (vertical). Target 8ft.

Accepted.

*Rebecca Gardner*



- 1345 Kristen Kern departs via support boat
- 1400 Scope out SCTB & discuss pace w/ processing crew. Decide to have Cranny crew stand down for day.
- 1410 Head to Slip 4 to check at barge positions and prep for Thursday's sampling.
- 1430 Prep for Thursday grab sampling.
- 1515 Arrive at SPM. Offload supplies
- 1530 Depart SPM. End of field day.

S. Replinger  
 22.07.2022

- 0645 Arrive SPM, prep for sampling  
Weather: Cloudy, 40s  
Crew: K. McPeak  
M. DeRold  
P. Jenkins } Cranny  
T. Langdon
- 0715 Conduct HOS meeting
- 0730 Depart SPM to begin coring
- 0756 First attempt at SCT78, accepted
- 0840 First attempt of 17810, accepted
- 0927 First attempt of 17814, rejected -  
hit refusal @ 2.2ft
- 0953 Second attempt at 17814, rejected -  
hit refusal at 4.5ft
- 1022 Third attempt at 17814, rejected -  
hit refusal at 3ft. Woody debris  
w/ ft down in all 3 attempts  
w/in 10ft of target. Talked to  
T. Do. Will attempt 10-20ft from  
target.
- 1051 Fourth attempt at 17814 w/in 20ft  
of target, rejected - similar to other  
attempts (hit woody debris - 1ft down)
- 1110 Head downriver to sample @ 17795
- 1130 Talked to S. Replinger - will return to  
17814 to attempt further ~~sample~~ target

12/9/22

- 1200 Attempt 5 at 1T814 (~25 FT from target), rejected - hid refusal at 6 FT and poor recovery
- 1221 Attempt 6 at 1T814 (~25 FT from target), rejected - hit refusal at 5 FT and poor recovery
- 1240 Attempt 7 at 1T814 (~28 FT from target), accepted although recovery depth is less than target (36 FT recovered vs 6 FT target). Discussed with S. Replinger - will process and archive attempt 7.
- 1300 Head back to SPM
- 1315 Arrive SPM, coordinate with other crew, unload supplies
- 1350 K. McPeak departs SPM for processing facility

~~Leave~~  
12/9/22

12/12/22

- 0745 K. McPeak arrives SPM
- 0760 meet Granty crew:  
M. Duffield  
T. Langdon  
L. Nelson
- weather was, rain
- 0720 conduct HRS briefing
- 0735 Depart SPM to begin coring
- 0747 Attempt 1 at 1T795, accepted
- 0826 Attempt 1 at 1T793, accepted
- 0845 Head to SPM for supplies
- 0900 Depart SPM to continue coring
- 0926 Attempt 1 at SC750, accepted
- 1012 Attempt 1 at SC752; hit refusal at 9 FT, recovered 9 FT. Target core length for this location is 8 FT. Will try again.
- 1101 Attempt 2 at SC752; hit refusal at 8.7 FT, recovered 7 FT. Will attempt again for 8 FT recovery
- 1127 Attempt 3 at SC752, hit refusal at 8.0 FT, recovered 6.8 FT. Contacted S. Replinger and S. McGrady. Will process attempt 2.
- 1205 Return to SPM for bathroom break.
- 1255 K. McPeak departs SPM for processing tent



2/15/2022

~ 35°F  
partly cloudy

07:30 Field crew arrive on site

Brandi Quintisk

Amara Vandervoort

Andy Zaack

Tarek Avari

Linda Kate Brathshorn

Nik Becker

Take Light

Nina Moss

James Brown - arrived at 09:00

Jordan Cooper - arrived at 09:00

Susie McEndley - arrived at 08:35

07:45 H's tailgate breithug conducted by Thomas

07:52 Regina setup for processing

08:35 Susie M. arrive & breithug on H's

09:00 James Brown and Jordan Cooper arrive - H's breithug

11:35 Green Lathren arrive - service Port Petty.

16:45 Corner arrives to pickup samples and deliver to lab.

18:10 All site crew leave processing site.

Brandi Quintisk

12/6/2022

~ 35°F  
cloudy & rainy

07:45 Field crew arrive on site

Brandi Quintisk

Amara Vandervoort

Andy Zaack

Tarek Avari

Linda Kate Brathshorn

Nik Becker

Take Light

Nina Moss

Jordan Cooper

08:20

H's breithug conducted by Amara Vandervoort

08:20 Begin setup for processing

10:20 Samples to corner

18:45 all processing crew leave site

~~12/6/22~~

12/17/22

~ 40%+ partly cloudy

0750 Field crew arrives @ site.

- Nik Becker
- Brandi Quinist
- A. Vandenberg
- T. Alkan
- L. Vate Battstrom
- J. Light
- A. Zacek
- N. Maas
- J. Cooper

0830 Hit Spray Briefing.

0850 Setup for processing

1040 Samples to corner

1740 all processing crew leave site.

~~12/17/22~~

upper 30's cloudy + framing

0755 Field crew arrives

- A. Vandenberg
- N. Maas
- T. Alkan
- J. Cooper
- A. Zacek
- L. Vate Battstrom
- B. Quinist
- J. Light
- 0825 Health Safety

Setup for processing

1230 Claire Christensen arrives @ site.

1615 C. Christensen leaves site.

1640 Samples to corner

1700 all processing crew leave site

~~12/18/22~~

12/18/22

5



12/19/22

mild 30s  
partly cloudy

0750 Processing crew arrives.

- A. Vandervoort
- T. Cooper
- N. Maas
- T. Arkan
- R. Crowley
- D. Light
- C. Christensen
- B. Dumlisk

0815 Health + Safety Tailgate.

Setup for processing

1400 Kate McPeck arrives & processing

Site

1630 Cover arrives to pick up samples

1645 J. Cooper, N. Maas, T. Arkan, R. O'Leary, J. Light and Christensen leave site

1705 B. Dumlisk + A. Vandervoort leave site

~~12/19/22~~

40s  
raining

12/18/22

0730 Processing crew arrives

- A. Vandervoort
- N. Maas
- T. Arkan
- C. Christensen
- D. Light
- J. Cooper
- A. Zack
- B. Dumlisk

Prep for decon

0805 Health + Safety Tailgate

Setup for processing

1230 B. Dumlisk leaves the site.

1300 Kate McPeck arrives

1600 J. Cooper departs

1815 Cover arrives to pick up samples

1835 all depart site

~~12/18/22~~



12/13/92

mid 30s clear

755 processing crew arrives

A. Vanderhoft

N. Maas

L. Vate Brallstrom

T. Akkari

C. Omgensen

J. Lignat

E. By Jones

J. Cooper

0810 Kayla Patta - Army Corp arrives

0820 Heather Sather bone fragment  
Begin setup for processing

0830 Kayla Patta departs

1635 Samples to counter

1650 Andrew + Clearway processing  
crew depart site.

1710 alt A. Vanderhoft and T. Do depart

~~AS 12/13/92~~





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCA UP Phase 3 Weather: partly cloudy, 40°  
 Date: 12-7-2022 Tide Source: RTK  
 Sampling Method: hand-collected Crew: SR

GRAB DATA		Location ID: <u>1T794</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>194718.95</u>			Longitude/Easting (X): <u>1275727.03</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1110</u>	<u>—</u>	<u>45 cm</u>	<u>Y</u>	<u>+7.66</u>	<u>—</u>	
SAMPLE DATA		Sample ID: <u>LDW22-1T794</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>layer of cobble/gravel at about 35cm (down to at least 45cm).</u>		
<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S			
<u>gravel</u>	drab olive	slight	petroleum			
sand (F <u>M</u> <u>C</u> )	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 - UR Phase 3      Weather: partly cloudy, 40s  
 Date: 12-7-2022      Tide Source: RTR  
 Sampling Method: hand-collected      Crew: SR

<b>GRAB DATA</b>		Location ID: <u>1T797</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
		On armored slope (Y/N)? <u>N</u>					
Latitude/Northing (Y): <u>194684.62</u>				Longitude/Easting (X): <u>1275732.288</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments	
<u>1010</u>	<u>NA</u>	<u>45 cm</u>	<u>Y</u>	<u>+7.51</u>	<u>—</u>		
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-1T797</u>					
Pre-homogenization analyses (circle):    VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:							
Sediment type	Sediment color	Sediment odor		Comments:			
<input checked="" type="radio"/> cobble <input checked="" type="radio"/> gravel <input checked="" type="radio"/> sand (F/M/C) <input type="radio"/> silt <input type="radio"/> clay	brown surface  drab olive  <input checked="" type="radio"/> brown  gray  black	<input checked="" type="radio"/> none <input type="radio"/> slight <input type="radio"/> moderate <input type="radio"/> strong	H <sub>2</sub> S  petroleum  other:	<u>layer of larger gravel / cobble from about 15-30cm below surface.</u>			



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCA - UP Phase 3 Weather: Cloudy, AOs  
 Date: 12.6.2022 Tide Source: RTK  
 Sampling Method: power grab Crew: SR, CC

GRAB DATA		Location ID: <u>SS766</u>			Depth of overlying sediment, if known (cm): <u>—</u>	
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>196656.22</u>				Longitude/Easting (X): <u>1274271.90</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1309</u>	<u>—</u>	<u>—</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>rock in jaw</u>
<u>1311</u>	<u>—</u>	<u>45cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>rock in jaw</u>
<u>1313</u>	<u>—</u>	<u>9cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>Winnowing - rock in jaw</u>
<u>1316</u>	<u>-10.4 ft</u>	<u>12 cm</u>	<u>Y</u>	<u>+9.95</u>	<u>-0.5 ft</u>	

SAMPLE DATA Sample ID: LDW22-SS766

Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:

Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

more sand than silt



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 -UR Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: cloudy, 40s  
 Tide Source: R-Tie  
 Crew: SP, CC

GRAB DATA		Location ID: <u>SS771</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>195850.19</u>			Longitude/Easting (X): <u>1275128.26</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1335</u>	<u>-13.5</u>	<u>28cm</u>	<u>Y</u>	<u>+10.18ft</u>	<u>-3.3ft</u>	
SAMPLE DATA		Sample ID: <u>LDW22-SS771 and LDW22-SS771-FD</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	<u>brown surface</u>	none	H <sub>2</sub> S			
gravel	drab olive	<u>slight</u>	<u>petroleum</u>			
sand (F M C) <sup>trace</sup>	brown	moderate	other:			
<u>silt</u>	<u>gray dark</u>	strong				
clay	<u>black</u>					





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLA VR Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: cloudy, 40s  
 Tide Source: RTK  
 Crew: SR, CC

<b>GRAB DATA</b>		Location ID: <u>SS772</u>		On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>195825.55</u>				Longitude/Easting (X): <u>1275138.29</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments		
<u>1355</u>	<u>—</u>	<u>&gt;29 cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>over-penetrated.</u>		
<u>1357</u>	<u>-15.3</u>	<u>24 cm</u>	<u>Y</u>	<u>+10.62</u>	<u>-4.7 ft</u>			
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-SS772</u>						
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:								
Sediment type	Sediment color	Sediment odor		Comments:				
cobble	<u>brown surface</u>	none	H <sub>2</sub> S					
gravel <u>trace</u>	drab olive	<u>slight</u>	<u>petroleum</u>					
sand <u>(F) M C)</u>	brown	moderate	other:					
<u>(silt)</u>	<u>gray dark</u>	strong						
clay	black							



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOCA U2 Phase 3  
 Date: December 2, 2022  
 Sampling Method: hand-collect

Weather: snow, 30s  
 Tide Source: RTK  
 Crew: SR, TD

GRAB DATA	Location ID: <u>SS773</u>					
	On armored slope (Y/N)? <u>y</u>			Depth of overlying sediment, if known (cm): <u>-</u>		
Latitude/Northing (Y): <u>195812.1</u>				Longitude/Easting (X): <u>1275103</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0710</u>	<u>-</u>	<u>10cm</u>	<u>y</u>	<u>+3.85ft</u>	<u>NA</u>	
SAMPLE DATA						
Sample ID: <u>LDW22-SS773</u>						
Pre-homogenization analyses (circle): VOC   Sulfides   Ammonia   AVS/SEM   TPH-P   Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>algal material at surface</u>		
<u>gravel</u> <u>trace</u>	drab olive	slight	petroleum			
sand (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOCA UR Phase III Weather: Snow, 30s  
 Date: Dec. 2, 2022 Tide Source: RTK  
 Sampling Method: hand-collect Crew: SR, TD

GRAB DATA		Location ID: <u>SS774</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>-</u>		
Latitude/Northing (Y): <u>195787.3</u>					Longitude/Easting (X): <u>1275127</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0720</u>	<u>-</u>	<u>10cm</u>	<u>Y</u>	<u>+3.85 ft</u>	<u>NA</u>	
SAMPLE DATA		Sample ID: <u>LDW22-SS774</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Almost all med. Sand.</u>		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S			
<u>gravel</u> <u>trace</u>	drab olive	slight	petroleum			
<u>sand</u> <u>(F/M/C)</u> <u>trace</u>	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UR Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: cloudy, 40s  
 Tide Source: R-TK  
 Crew: SP, CC

GRAB DATA	Location ID: <u>SS786</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>195039.47</u>			Longitude/Easting (X): <u>1275720.530</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1223</u>	<u>-</u>	<u>0cm</u>	<u>N</u>	<u>-</u>	<u>-</u>	<u>rock in jaw</u>
<u>1224</u>	<u>-</u>	<u>5cm</u>	<u>N</u>	<u>-</u>	<u>-</u>	<u>insufficient pen.</u>
<u>1226</u>	<u>-11.2 ft</u>	<u>14cm</u>	<u>Y</u>	<u>+9.15ft</u>	<u>-2.1 ft</u>	
SAMPLE DATA		Sample ID: <u>LDW22-SS786</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>lots of gravel of varying sizes.</u>		
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F M C)</u>	<u>brown light</u>	moderate	other:			
silt	gray	strong				
clay	black					





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UR Phase 3      Weather: partly cloudy, 40s  
 Date: 12-7-2022      Tide Source: RTH  
 Sampling Method: hand-collected      Crew: SR

<b>GRAB DATA</b>		Location ID: <u>SS794</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>194718.95</u>			Longitude/Easting (X): <u>1275727.03</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1105</u>	<u>—</u>	<u>10cm</u>	<u>Y</u>	<u>+7.66</u>	<u>—</u>	
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-SS794</u>				
Pre-homogenization analyses (circle):    VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>none</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UR Phase 3 Weather: partly cloudy, 40s  
 Date: 12.7.2022 Tide Source: RTH  
 Sampling Method: hand collected Crew: SR

GRAB DATA		Location ID: <u>SS797</u>				Depth of overlying sediment, if known (cm): <u>—</u>
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>194684.62</u>				Longitude/Easting (X): <u>1275732.29</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1000</u>	<u>—</u>	<u>10cm</u>	<u>Y</u>	<u>+7.5 ft</u>	<u>—</u>	
SAMPLE DATA		Sample ID: <u>LDW22-SS797</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F) (M) (C)	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC4-UR Phase 3 Weather: cloudy, 40s  
 Date: 12.6.2022 Tide Source: RTK  
 Sampling Method: power grab Crew: SP, CC

GRAB DATA		Location ID: <u>SS797</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
		On armored slope (Y/N)? <u>N</u>					
Latitude/Northing (Y): <u>NA</u>				Longitude/Easting (X): <u>NA</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments	
<u>1312</u>	<u>—</u>	<u>&lt; 5cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>rocks in jaw</u>	
<u>1313</u>	<u>—</u>	<u>0cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>large rocks</u>	
SAMPLE DATA		Sample ID: <u>NA</u>					
Pre-homogenization analyses (circle): VOC   Sulfides   Ammonia   AVS/SEM   TPH-P   Other:							
Sediment type	Sediment color	Sediment odor		Comments:			
cobble	brown surface	none	H <sub>2</sub> S	<u>no sample collected</u>			
gravel	drab olive	slight	petroleum				
sand (F M C)	brown	moderate	other:				
silt	gray	strong					
clay	black						



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDN A004

Weather: cloudy, 40s

Date: 12.6.2022

Tide Source: BTK

Sampling Method: power grab

Crew: SR, CC

GRAB DATA	Location ID: <u>SS811</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>193750.99</u>				Longitude/Easting (X): <u>1276276.30</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1205</u>	<u>-16.5 ft</u>	<u>27 cm</u>	<u>Y</u>	<u>+8.66 ft</u>	<u>-7.8 ft</u>	
SAMPLE DATA						
Sample ID: <u>LDW21-SS811</u>						
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>very soft sediment</u>		
gravel	drab olive	slight	petroleum			
sand (F) M C	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <sup>dark</sup>	strong				
clay	black					





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UP Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: Cloudy, 30s  
 Tide Source: RTK  
 Crew: SP, CC

GRAB DATA		Location ID: <u>SS812</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>NR</u>				Longitude/Easting (X): <u>NR</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1150</u>	<u>-</u>	<u>0cm</u>	<u>N</u>	<u>-</u>	<u>-</u>	<u>rock in jaw</u>
<u>1151</u>	<u>-</u>	<u>0cm</u>	<u>N</u>	<u>-</u>	<u>-</u>	<u>no penetration</u>
<u>1155</u>	<u>-</u>	<u>0cm</u>	<u>N</u>	<u>-</u>	<u>-</u>	<u>rock in jaw</u>
SAMPLE DATA		Sample ID: <u>NA</u>				
Pre-homogenization analyses (circle): VOC   Sulfides   Ammonia   AVS/SEM   TPH-P   Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	none	H <sub>2</sub> S	<u>no sample collected - return 12/7 to attempt to collect by hand.</u>		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCU UP Phase 3  
 Date: 12.7.2022  
 Sampling Method: hand collected

Weather: partly cloudy, 40s  
 Tide Source: RTH  
 Crew: SR

<b>GRAB DATA</b>		Location ID: <u>SS812</u>		Depth of overlying sediment, if known (cm): <u>unknown</u>		
		On armored slope (Y/N)? <u>Y</u>				
Latitude/Northing (Y): <u>192958.42</u>			Longitude/Easting (X): <u>1277187.47</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1040</u>	<u>—</u>	<u>10cm</u>	<u>Y</u>	<u>+7.5ft</u>	<u>+7.5 ft</u>	
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-SS812</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>none</u>		
<u>gravel</u> <u>small</u>	drab olive	slight	petroleum			
<u>sand</u> <u>(F)</u> <u>(M)</u> <u>(C)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 U/R Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: cloudy, 30s  
 Tide Source: RTK  
 Crew: SR, CC

GRAB DATA	Location ID: <u>SS818</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>190514.29</u>				Longitude/Easting (X): <u>1277666.16</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1124</u>	<u>-9.3ft</u>	<u>20 cm</u>	<u>Y</u>	<u>+7.94</u>	<u>-1.4 ft</u>	
SAMPLE DATA						
Sample ID: <u>LDW22-SS818</u>						
Pre-homogenization analyses (circle): VOC   Sulfides   Ammonia   AVS/SEM   TPH-P   Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>none</u>		
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray dark</u>	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UR Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: cloudy, 30s  
 Tide Source: RTK  
 Crew: SR, CC

GRAB DATA	Location ID: <u>SS819</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>190431.97</u>				Longitude/Easting (X): <u>1277887.31</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1111</u>	<u>-16.2ft</u>	<u>23cm</u>	<u>Y</u>	<u>+7.94</u>	<u>-8.3ft</u>	
SAMPLE DATA						
Sample ID: <u>LDW22-SS819</u>						
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>Some leaves on surface.</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW Acc4 UR Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: cloudy, 30s  
 Tide Source: RTR  
 Crew: JR, CC

<b>GRAB DATA</b>		Location ID: <u>SS820</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>190251.29</u>				Longitude/Easting (X): <u>1278411.07</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1034</u>	<u>-12.5</u>	<u>—</u>	<u>N</u>	<u>+7.38</u>	<u>-5.1 ft</u>	<u>rocks in jaw</u>
<u>1036</u>	<u>NR</u>	<u>—</u>	<u>N</u>	<u>NR</u>	<u>—</u>	<u>Carpet in jaw</u>
<u>1038</u>	<u>NR</u>	<u>7cm</u>	<u>N</u>	<u>NR</u>	<u>—</u>	<u>insufficient penetration.</u>
<u>1041</u>	<u>NR</u>	<u>7cm</u>	<u>N</u>	<u>NR</u>	<u>—</u>	<u>insufficient pen.</u>
<u>1044</u>	<u>NR</u>	<u>&lt;5 cm</u>	<u>N</u>	<u>NRX</u>	<u>—</u>	<u>insufficient pen.</u>
<u>1047</u>	<u>NR</u>	<u>—</u>	<u>N</u>	<u>NR</u>	<u>—</u>	<u>rock in jaw</u>
<u>1049</u>	<u>-12.9 ft</u>	<u>20cm</u>	<u>Y</u>	<u>+7.53</u>	<u>-5.4 ft</u>	
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-SS820</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>leaves at surface (+sticks)</u> <u>black pockets of sediment</u>		
gravel	drab olive	slight	petroleum			
sand (F) M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UP Phase 3 Weather: Cloudy, 30S  
 Date: 12.6.2022 Tide Source: RTK  
 Sampling Method: power grab Crew: SR, CC

GRAB DATA		Location ID: <u>SS821</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>190196.40</u>				Longitude/Easting (X): <u>1278439.33</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1023</u>	<u>-11.6</u>	<u>20cm</u>	<u>Y</u>	<u>+7.26</u>	<u>-4.3 ft</u>	
SAMPLE DATA		Sample ID: <u>LDW22-SS821</u>				
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>none</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UR Phase 3  
 Date: 12-6-2022  
 Sampling Method: power grab

Weather: cloudy, 30s  
 Tide Source: RTK  
 Crew: SR, CC

GRAB DATA	Location ID: <u>SS822</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>190175.19</u>				Longitude/Easting (X): <u>1278470.57</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1010</u>	<u>-11.9</u>	<u>22cm</u>	<u>Y</u>	<u>+7.21</u>	<u>-4.7ft.</u>	
SAMPLE DATA						
Sample ID: <u>LDW22-SS822</u>						
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>none</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F/M C)</u>	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW A004 - Phase 3 (UP) Weather: cloudy, 30s  
 Date: 12.6.2022 Tide Source: RTK  
 Sampling Method: power grab Crew: SR, CC

<b>GRAB DATA</b>		Location ID: <u>SS823</u>		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>190116.64</u>				Longitude/Easting (X): <u>1278638.15</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments	
<u>0941</u>	<u>-4.3 ft</u>	<u>21 cm</u>	<u>Y</u>	<u>+7.2</u>	<u>+2.9 ft</u>		
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-SS823</u>					
Pre-homogenization analyses (circle): VOC   Sulfides   Ammonia   AVS/SEM   TPH-P   Other:							
Sediment type	Sediment color	Sediment odor		Comments:			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<p>pockets of black and orange-ish sediment.</p> <p>trace organic debris at surface.</p>			
gravel	drab olive	slight	petroleum				
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:				
<u>silt</u>	gray	strong					
clay	black						





# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC4 UP Phase 3  
 Date: 12.6.2022  
 Sampling Method: power grab

Weather: Cloudy, 40s  
 Tide Source: RTR  
 Crew: SP, CC

<b>GRAB DATA</b>		Location ID: <u>SS824</u>		On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>189845.07</u>					Longitude/Easting (X): <u>1277242.07</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments			
<u>1442</u>	<u>—</u>	<u>0cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>Significant amount of vegetation in jaws</u>			
<u>1443</u>	<u>—</u>	<u>0cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>vegetation/rocks in jaws</u>			
<u>1445</u>	<u>-3.5 ft</u>	<u>16 cm</u>	<u>Y</u>	<u>+10.92 ft</u>	<u>+7.4 ft</u>				
<b>SAMPLE DATA</b>		Sample ID: <u>LDW22-SS824</u>							
Pre-homogenization analyses (circle): VOC    Sulfides    Ammonia    AVS/SEM    TPH-P    Other:									
Sediment type	Sediment color	Sediment odor		Comments:					
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>lots of aquatic vegetation in sampler.</u>					
gravel	drab olive	slight	petroleum						
sand (F M C)	brown	moderate	other:						
<u>silt</u>	<u>gray dark</u>	strong							
clay	<u>black</u>								



# SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOCA UR Phase 3  
 Date: 12-6-2022  
 Sampling Method: power grab

Weather: cloudy, 40s  
 Tide Source: RTR  
 Crew: SR, CC

<b>GRAB DATA</b>		Location ID: <u>SS825</u>		On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>189869.32</u>					Longitude/Easting (X): <u>1277243.13</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments			
<u>1425</u>	<u>—</u>	<u>45cm</u>	<u>N</u>	<u>—</u>	<u>—</u>				
<u>1428</u>	<u>-4.9 ft</u>	<u>23 cm</u>	<u>Y</u>	<u>+0.85 ft</u>	<u>+6.0 ft</u>				
<b>SAMPLE DATA</b>		Sample ID: <u>LOW22-SS825</u>							
Pre-homogenization analyses (circle): VOC   Sulfides   Ammonia   AVS/SEM   TPH-P   Other:									
Sediment type	Sediment color	Sediment odor		Comments:					
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>trace organic/leaf debris</u>					
gravel	drab olive	slight	petroleum						
sand (F M C)	brown	moderate	other:						
<u>silt</u>	<u>gray clark</u>	strong							
clay	<u>black</u>								