

Sediment Core Collection Form

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Project: LDW AOC5 MR Phase II

Date: 6.4.2024Weather: overcast, 50sLogged By: SRLocation ID: IT1317Attempt No.: 1Core Type: (Intertidal) Subtidal ShoalingField Staff: SR, DS, LVB

Field Collection Coordinates:

Lat/Northing: 202866.44Long/Easting: 1269452.23

A. Water Depth

DTM Depth Sounder: — ftDTM Lead Line: — ft

B. Tide Level Measurement

Time: 1155Height: RTH + 1.15 ftSource: RTH

C. Mudline Elevation

— (ft MLLW)

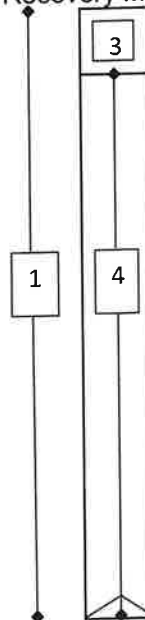
Core Collection Recovery Details:

1. Core Tube Length: 5.00 ft2. Penetration Depth: 2.00 ft3. Headspace Measurement: 4.00 ft4. Field Recovery Depth: 1.00 ft5. Field Recovery Percentage: 50%6. Core Accepted: Yes / (No)7. Processing Recovery Depth: — ft8. Adjusted Recovery Percentage: —

Drive Notes:

free drive to resistance
(rip rap)

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: —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:

target: 7.5 fthand-collect 0-45cm (A) interval



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: overcast, Showers, 50s.

Date: 6.4.2024

Tide Source: R-TL

Sampling Method: hand collect

Crew: GR, DS, LVB

GRAB DATA	Location ID: <u>IT1317</u>					
	On armored slope (Y/N)? <u>Y</u>			Depth of overlying sediment, if known (cm): <u>~60cm</u>		
Latitude/Northing (Y): <u>202866.44</u>			Longitude/Easting (X): <u>1269452.23</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1213</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>+1.48</u>	<u>—</u>	<u>collected on slope amid rip rap.</u>
						<u>refused at ~60cm</u>
SAMPLE DATA						
Sample ID: <u>LDW24-IT1317</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 ₂ S	<u>Some rocks</u> <u>top 9": brown sand</u> <u>below 9": gray silty</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					

Sediment Core Collection Form

Project: LDW AOC5 MR Phase II
Date: 6.7.2024
Weather: sun, 60s
Logged By: SR

Location ID: 1T1370
Attempt No.: 1
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: SR, LVB

Field Collection Coordinates:

Lat/Northing: 201861.23

Long/Easting: 1269511.01

A. Water Depth

DTM Depth Sounder: — ft
DTM Lead Line: 0 ft

B. Tide Level Measurement

Time: 1100
Height: — ft
Source: RTK

C. Mudline Elevation

— (ft MLLW)

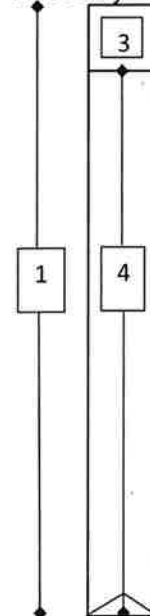
Core Collection Recovery Details:

1. Core Tube Length: 5.00 ft
2. Penetration Depth: 1.20 ft
3. Headspace Measurement: 4.40 ft
4. Field Recovery Depth: 0.60 ft
5. Field Recovery Percentage: 30.0%
6. Core Accepted: Yes / (No)
7. Processing Recovery Depth: — ft
8. Adjusted Recovery Percentage: —

Drive Notes:

resistance to refusal

Recovery Measurements (prior to cuts)



Core Sections To Process:

A: —
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:



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
 Date: 6.7.2024
 Sampling Method: hand collect

Weather: Sun, 60s
 Tide Source: RTR
 Crew: SR, LVB

GRAB DATA	Location ID: <u>1T1370</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201857.64</u>				Longitude/Easting (X): <u>1269515.14</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1126</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>-3.08</u>	<u>—</u>	<u>collected at base of slag/debris pile.</u>
SAMPLE DATA						
Sample ID: <u>LDW24-1T1370</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>layers of dark/black sand throughout.</u> <u>mostly brown sand</u> <u>intermittent large rocks</u> <u>worms</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	<u>slight</u>	<u>petroleum</u>			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: 80s, sunny

Date: 07/19/24

Tide Source: RTR

Sampling Method: hand collect

Crew: DStolms, LVB

GRAB DATA	Location ID: 1T1377					
	On armored slope (Y/N)? N			Depth of overlying sediment, if known (cm): —		
Latitude/Northing (Y): 201818.08				Longitude/Easting (X): 1269606.95		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1018	0	0-45	Y	-1.29	—	
<div style="text-align: right;">LOW23-</div>						
SAMPLE DATA	Sample ID: 1T1377					
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	none	H ₂ S	tip 20 cm medium grain, brown sand, then fine sand, silt to 45cm - gray		
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
 Date: 5-23-2024
 Sampling Method: hand collect

Weather: overcast, 60s
 Tide Source: RTK
 Crew: SR, CC, DS, LVB, EG

GRAB DATA		Location ID: <u>IT1389</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201625.03</u>				Longitude/Easting (X): <u>1269845.68</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1203</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>-2.21</u>	<u>—</u>	
SAMPLE DATA		Sample ID: <u>LDW24-IT1389</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Slight + sheen</u> <u>piece of rope</u> <u>bottom (~40cm) layer of black silty mud.</u> <u>sand w/ gravel above 40cm.</u> <u>Some larger cobbles.</u>		
cobble	brown surface	none	H ₂ S			
<u>gravel</u>	drab olive	<u>slight</u>	<u>petroleum</u>			
<u>sand (F)(M)(C)</u>	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					

Sediment Core Collection Form

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Project: LDW AOC5 MR Phase II
Date: 6-4-2024
Weather: overcast, 50s
Logged By: SR

Location ID: IT1427
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: SR, DS, LVB

Field Collection Coordinates:

Lat/Northing: _____

Long/Easting: _____

A. Water Depth

DTM Depth Sounder: _____ ft

DTM Lead Line: _____ ft

B. Tide Level Measurement

Time: 1055

Height: _____ ft

Source: RTH

C. Mudline Elevation

_____ (ft MLLW)

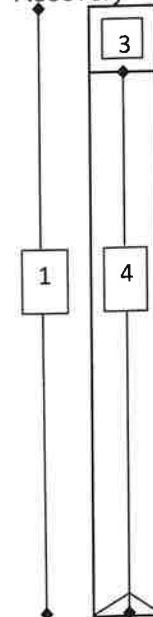
Core Collection Recovery Details:

1. Core Tube Length: 5.00 ft
2. Penetration Depth: 1.90 (SR) ft
3. Headspace Measurement: 4.50 3.50 ft
4. Field Recovery Depth: 1.50 ft
5. Field Recovery Percentage: 78.9%
6. Core Accepted: Yes / (No)
7. Processing Recovery Depth: _____ ft
8. Adjusted Recovery Percentage: _____

Drive Notes:

Sandy material - lots of resistance

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: _____
- 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: hand-vibracoring
core target = 7.5 ft

elected to hand collect 0-45cm interval; no vertical collected.



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: overcast, 50s

Date: 6.4.2024

Tide Source: RTH

Sampling Method: hand collect

Crew: SR, OS, LVB

GRAB DATA	Location ID: IT1427					
	On armored slope (Y/N)? y			Depth of overlying sediment, if known (cm): unknown		
Latitude/Northing (Y): 200380.79			Longitude/Easting (X): 1270252.01			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1115	0	45cm	X	-0.21	—	collected at top of rip rap slope
SAMPLE DATA						
Sample ID: LDW24-IT1427						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	none	H ₂ S	brown surface w/ vegetation rusty color at bottom		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
 Date: 6.26.24
 Sampling Method: hand collect

Weather: 60s
 Tide Source: RTK
 Crew: CC KM

GRAB DATA		Location ID: <u>1T1447</u>				
		On armored slope (Y/N)? <u>Y</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>200129.99</u>				Longitude/Easting (X): <u>1270556.87</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1338</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>-0.46</u>	<u>—</u>	
SAMPLE DATA		Sample ID: <u>LDW24-1T1447A</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Mostly medium-coarse with trace silt and fine sand. Bricks throughout depth but more at surface. Multicolor grains of sand.</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
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 AOC5 MR Phase II
 Date: 6.25.24
 Sampling Method: hand collect

Weather: 70s sunny
 Tide Source: R/Tk
 Crew: SRCC

GRAB DATA		Location ID: <u>IT1449</u>				
		On armored slope (Y/N)? <u>Y</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>260083.45</u>				Longitude/Easting (X): <u>1270590.47</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1525</u>	<u>0</u>	<u>45.0 cm</u>	<u>Y</u>	<u>-0.23</u>	<u>—</u>	
SAMPLE DATA		Sample ID: <u>LDW24-IT1449</u> <u>SS1449</u> <u>LDW24-IT1449A</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: Mostly sand, some silt. Lots of debris: bark, glass, Algae on surface. Chunks of asphalt (?) / rip up beneath surface, large gravel (cobble) in full depth of sample.		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	petroleum			
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
<u>clay</u>	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
 Date: 6.25.24
 Sampling Method: hand

Weather: 70s sunny
 Tide Source: RTK
 Crew: CCSR

GRAB DATA		Location ID: <u>1T14S4A</u>				
		On armored slope (Y/N)? <u>Y*</u>			Depth of overlying sediment, if known (cm): <u>NA</u>	
Latitude/Northing (Y): <u>200010.83</u>				Longitude/Easting (X): <u>1270648.03</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1422</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>-1.90</u>	<u>—</u>	
SAMPLE DATA		Sample ID: <u>LDW24-1T14S4A</u> & <u>LDW24-1T14S4A-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Mostly silt. Sand on top ^{cc} 2cm</u> <u>Then stiff silt with some</u> <u>chunks of brick and glass.</u> <u>Crumbly dry silty sand.</u> <u>Sandy silt.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	<u>slight</u>	petroleum			
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
clay	<u>black</u>					

* some rip rap but collected in a soft spot slightly away from rip rap -



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
Date: 6.25.24
Sampling Method: hand collect

Weather: 70s sunny
Tide Source: RTK
Crew: SRCC

GRAB DATA	Location ID: <u>SS1456 IT1456</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>199950.61</u>				Longitude/Easting (X): <u>1270672.44</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1125</u>	<u>0</u>	<u>10cm</u> <u>45cm</u>	<u>X</u>	<u>+2.45</u>	<u>—</u>	<u>collected in sandy inlet among riprap.</u>
<u>LDW24-IT1456A</u>						
SAMPLE DATA	Sample ID: <u>LDW24-IT1456</u> <u>LDW24-SS1456</u>					
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>dark grey for first 10cm then brown.</u> <u>glass fragments,</u> <u>some gravel, some silt.</u> <u>Mostly sand; mostly fine, with some medium and coarse.</u> <u>aquatic vegetation at surface.</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
gravel	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
sand <u>(F M C)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
Date: 6.25.24
Sampling Method: hand collect

Weather: 70s sunny
Tide Source: RTK
Crew: CC SR

GRAB DATA	Location ID: <u>1T1485</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>199410.41</u>				Longitude/Easting (X): <u>1271165.55</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1008</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>+5.68</u>	<u>—</u>	
SAMPLE DATA						
Sample ID: SS1485 <u>LDW24-1T1485A</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 ₂ S	<u>Sand mostly for first 15cm, then silt mostly after 15cm. Homogenized, mostly brown silt, some organic debris.</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: overcast, 50s, showers

Date: 6.4.2024

Tide Source: RTH

Sampling Method: hand collect

Crew: SR, DS, LVB

GRAB DATA	Location ID: IT1499					
	On armored slope (Y/N)? N			Depth of overlying sediment, if known (cm): —		
Latitude/Northing (Y): 199465.88			Longitude/Easting (X): 1271799.18			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
0945	0	45cm	Y	-1.56ft MLLW	—	
SAMPLE DATA						
Sample ID: LDW24-IT1499						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	none	H ₂ S	mixed pockets of dark gray rust-colored sand.		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt trace	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
Date: 6-24-2024
Sampling Method: hand collect

Weather: partly cloudy, 60s
Tide Source: RTK
Crew: SR, DS

GRAB DATA		Location ID: IT1561		Depth of overlying sediment, if known (cm):		
		On armored slope (Y/N)? N				
Latitude/Northing (Y): 198378.85				Longitude/Easting (X): 1272267.13		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1415	0	45cm	Y	-1.70	—	unsuccessful vibracoring. Hand collect 0-15 (A) with shovel.
SAMPLE DATA		Sample ID: LDW24-IT1561A IT1561A				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	none	H ₂ S	brown surface w/ rusty patches at top (5-10 cm); then very dark		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray dark	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II
 Date: 6-24-2024
 Sampling Method: hand collect

Weather: partly cloudy, 60s
 Tide Source: RTK
 Crew: SR, DS

GRAB DATA		Location ID: <u>IT1564</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198324.99</u>					Longitude/Easting (X): <u>1272340.90</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1350</u>	<u>0</u>	<u>45cm</u>	<u>Y</u>	<u>-2.35</u>	<u>—</u>	<u>attempted to collect via hand-vibracore - unsuccessful.</u>
SAMPLE DATA		Sample ID: <u>LDW24-IT1564A</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>dark black layer near surface (~5cm), then gray throughout.</u> <u>Stiff clay-like layer at ~40cm.</u> <u>glass fragments, woody debris.</u> <u>larger wood/cobble in hole.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u> ^{trace - pebbles sized}	<u>drab olive</u>	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray medium</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: 70s sun

Date: 7/10/24

Tide Source: RTK

Sampling Method: hand collect

Crew: CC DS

GRAB DATA	Location ID: <u>SS+^c IT1568A</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>198234.00</u>			Longitude/Easting (X): <u>1272482.06</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>45</u>	<u>Y</u>	<u>10.66</u>	<u>—</u>	
SAMPLE DATA						
Sample ID: <u>LDW24-IT1568A</u> & <u>LDW24-IT1568A-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>	<u>none</u>	H ₂ S	<u>gravel, shell frag. on surface. Silty sand, organic debris.</u>		
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: rain, 50s

Date: 5.24.2024

Tide Source: R-Th

Sampling Method: hand collect

Crew: SR, CC, DS, LVB

GRAB DATA		Location ID: IT1828 (under structure)				
		On armored slope (Y/N)? N	Depth of overlying sediment, if known (cm): —			
Latitude/Northing (Y): 198452.64*				Longitude/Easting (X): 1272216.89*		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1237	0	40 cm ^{SP}	X	-2.22	—	
		45 cm				
SAMPLE DATA		Sample ID: LDW24-IT1828				
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 ₂ S	0-20 cm - sandy, brown below 20 cm - gray silt shell fragments shell/warty debris slight sheen		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					

* 160 ft downstream from edge of structure; 8 ft back towards bulkhead.

* Coordinates 8 ft further upstream from structure. (see diagram)



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase II

Weather: overcast, showers, 50s

Date: 5-24-2024

Tide Source: RTR

Sampling Method: hand collect

Crew: SP, CC, DS, LVB

GRAB DATA	Location ID: IT1829 (under-structure)					
	On armored slope (Y/N)? N			Depth of overlying sediment, if known (cm): —		
Latitude/Northing (Y): 198452.64 *			Longitude/Easting (X): 1272216.89 *			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1159	0	10cm 45cm	Y	-2.47	—	
SAMPLE DATA						
Sample ID: LDW24-IT1829						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	brown surface	none	H ₂ S	dark gray under surface some sheen		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray dark	strong				
clay	black					

* 44 ft downstream from edge of structure.
* coordinates 8 ft further upstream from structure.