



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 03.02.23
Sampling Method: grab sampler.

Weather: 40s, wind, overcast
Tide Source: PTK tide station
Crew: TD, ES, KS, CC.

GRAB DATA	Location ID: <u>SS1000</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>203322.6</u>			Longitude/Easting (X): <u>1268491.0</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
0927	<u>36.3</u> 40.0	<u>30</u>	<u>N</u>	<u>+7.79</u>	<u>-28.5</u>	<u>overpenetrated</u>
0933	<u>36.3</u>	<u>30.0</u>	<u>Y</u>	<u>+7.87</u>	<u>-28.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1000</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>org. debris (leaf/plants)</u> <u>RPD not visible.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC'S PH1 MR

Weather: 40s, cloudy

Date: 1/3/23

Tide Source: RTR

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1001</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>203352.16</u>				Longitude/Easting (X): <u>1268586.74</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1001</u>	<u>40.8 KM</u>	<u>24.0</u>	<u>Y</u>	<u>+8.78</u>	<u>-32.0</u>	
	<u>41.8 KM</u>					
	<u>40.8</u>					
SAMPLE DATA						
Sample ID: <u>LDW23-SS1001</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 PH1 MR
Date: 1/3/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1002</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>203401.15</u>				Longitude/Easting (X): <u>1268703.03</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0932</u>	<u>-35.8</u>	<u>30.0</u>	<u>Y</u>	<u>+8.59</u>	<u>-27.2</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1002</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLS MR Ph 1
 Date: 1/23/23
 Sampling Method: power grab

Weather: 30s, overcast
 Tide Source: RTK
 Crew: KM AZ

GRAB DATA		Location ID: <u>SS1003</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>203414.35</u>					Longitude/Easting (X): <u>1268777.28</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0903</u>	<u>-33.7</u>	<u>26.0</u>	<u>Y</u>	<u>+10.10</u>	<u>-23.6</u>	<u>collect 16oz split</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1003</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOCs MR Ph1
 Date: 1/23/23
 Sampling Method: power grab

Weather: 30s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1004</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>203437.64</u>				Longitude/Easting (X): <u>126849.67</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0916</u>	<u>-14.9</u> <u>-16.2 km</u>	<u>—</u>	<u>N</u>	<u>+9.65</u>	<u>-5.3</u>	<u>under penetrated, collected at original target location</u>
<u>0942</u>	<u>-20.1</u>	<u>26.0</u>	<u>Y</u>	<u>+9.27</u> <u>+9.50 km</u>	<u>-10.8</u>	<u>used core coordinates as target collect 16 oz split</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1004</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, organic matter</u>		
cobble	<u>brown surface</u>	<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>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AALS MR PH I
Date: 1/23/23
Sampling Method: pinner grab

Weather: 30's, overcast
Tide Source: RJK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1005</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>203127.63</u>				Longitude/Easting (X): <u>1268555.05</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0839</u>	<u>-38.5</u>	<u>24.0</u>	<u>Y</u>	<u>+10.68</u>	<u>-27.8</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1005</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AUCS MR PH1
 Date: 1/23/23
 Sampling Method: power grab

Weather: 30s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1006</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>203166.11</u>				Longitude/Easting (X): <u>1268646.57</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0850</u>	<u>-40.8</u>	<u>28.0</u>	<u>Y</u>	<u>+10.40</u>	<u>-30.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23 - SS1006</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			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph 1

Weather: 40S, Sun

Date: 1/10/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1007</u> ^{KM}					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>203208.59</u>				Longitude/Easting (X): <u>1268769.6</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1248</u>	<u>-36.1</u>	<u>26.0</u>	<u>Y</u>	<u>+8.48</u>	<u>-27.6</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1007</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MP Phase 1
Date: 020523
Sampling Method: PODUP grab

Weather: 40s, sun
Tide Source: RTH tide station
Crew: TD, EP, RB

GRAB DATA	Location ID: <u>SS100B</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>203223.53</u>			Longitude/Easting (X): <u>1268834.04</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>12:45</u>	<u>-30.60</u>	<u>27.5</u>	<u>Y</u>	<u>+4.67</u>	<u>-25.9</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS100B</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. organics, worms,</u> <u>RPD not visible</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	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 / #: LOW AOCs MR Ph I
 Date: 1/23/23
 Sampling Method: power grab

Weather: 30s, overcast
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1010</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>202937.63</u>				Longitude/Easting (X): <u>1268618.04</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0826</u>	<u>-37.8</u>	<u>20.0</u>	<u>Y</u>	<u>+11.06</u>	<u>-26.7</u>	
SAMPLE DATA Sample ID: <u>LOW23-SS1010</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	<u>slight</u>	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR Ph1

Weather: 40S, clear

Date: 1/20/23

Tide Source: RTK

Sampling Method: p2w21 grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1011</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202969.63</u>				Longitude/Easting (X): <u>1268713.38</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1156</u>	<u>-39.6</u>	<u>24.0</u>	<u>Y</u>	<u>+9.36</u>	<u>-30.2</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1011</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>organic matter</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 ADCS MR Ph1

Weather: 40S, clear

Date: 1/20/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, A2

GRAB DATA	Location ID: <u>SS1012</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>203014.25</u>				Longitude/Easting (X): <u>1268833.97</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1143</u>	<u>-37.5</u>	<u>28.0</u>	<u>Y</u>	<u>+9.12</u>	<u>-28.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1012</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>trace organic matter</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR PH1
 Date: 1/23/23
 Sampling Method: power grab

Weather: 30s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1013</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>203034.38</u>					Longitude/Easting (X): <u>1268907.91</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1202</u>	<u>-32.0</u>	<u>—</u>	<u>N</u>	<u>+6.00</u>	<u>-26.0</u>	<u>over-penetrated</u>
<u>1207</u>	<u>-32.2</u>	<u>21.0</u>	<u>Y</u>	<u>+6.00</u>	<u>-26.02</u>	<u>collect 1602 split, grab collected before core</u>
SAMPLE DATA		Sample ID: <u>LOW23-SS1013</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOCs MR Ph I
 Date: 1/23/23
 Sampling Method: power grab

Weather: 40s, partly cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1014</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>203076.738</u>					Longitude/Easting (X): <u>1268997.42</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1226</u>	<u>-13.2</u>	<u>13.0</u>	<u>Y</u>	<u>+5.89</u>	<u>-7.3</u>	<u>Collect 16 oz split, grab collected before core</u>
SAMPLE DATA		Sample ID: <u>LOW23-SS1014</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, slight sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (FMC)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1

Weather: partly cloudy, 40S

Date: Jan 11, 2023

Tide Source: RTK

Sampling Method: power grab

Crew: SP, CC

GRAB DATA	Location ID: <u>SS1015</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202751.55</u>				Longitude/Easting (X): <u>1268684.97</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0837</u>	<u>-39.9</u>	<u>22cm</u>	<u>Y</u>	<u>+12.59</u>	<u>-27.3</u>	
SAMPLE DATA						
Sample ID: <u>LOW 23-SS1015</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOC5 MR PH1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 40S, clear
 Tide Source: RJK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>S51016</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>202785.56</u>				Longitude/Easting (X): <u>1268773.48</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1128</u>	<u>-39.6</u>	<u>25.0</u>	<u>Y</u>	<u>+8.93</u>	<u>-30.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-S51016</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			
gravel	drab olive	slight	petroleum			
<u>sand (M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph1
Date: 1/20/23
Sampling Method: power grab

Weather: 40s, clear
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1017</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202828.53</u>				Longitude/Easting (X): <u>1268897.99</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1116</u>	<u>-37.6</u>	<u>25.0</u>	<u>Y</u>	<u>+8.93</u>	<u>-28.7</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1017</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			
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 AOCs MR Ph I
Date: 1/20/23
Sampling Method: power grab

Weather: 405, clear
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1018</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202843.51</u>				Longitude/Easting (X): <u>1268969.91</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1019</u>	<u>- 35.9</u>	<u>27.0</u>	<u>Y</u>	<u>+ 8.34</u>	<u>- 27.6</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1018</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			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ACCS MR Ph 1
Date: 1/20/23
Sampling Method: power grab

Weather: 30s, clear
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1020</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202897.25</u>				Longitude/Easting (X): <u>1269163.56</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0900</u>	<u>-20.5</u>	<u>13.0</u>	<u>Y</u>	<u>+8.53</u>	<u>-12.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1020</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>(gravel) trace</u>	drab olive	slight	petroleum			
<u>(sand) (F) (M) (C)</u>	brown	moderate	other:			
<u>(silt)</u>	<u>(gray)</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AUC5 MR Phase 1
 Date: 1.11.2023
 Sampling Method: power grab

Weather: Partly cloudy, 40s
 Tide Source: RTK
 Crew: SP, CC

GRAB DATA		Location ID: <u>SS1021</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202559.94</u>				Longitude/Easting (X): <u>1268747.49</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0825</u>	<u>-39.0</u>	<u>21cm</u>	<u>Y</u>	<u>+12.59</u>	<u>-26.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1021</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>clay</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ADCS MR Ph 1

Weather: 30s, clear

Date: 1/20/23

Tide Source: KTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1022</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202597.14</u>				Longitude/Easting (X): <u>1268837.3</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1001</u>	<u>-38.9</u>	<u>23.0</u>	<u>Y</u>	<u>+8.24</u>	<u>-30.7</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1022</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u> </u>						
Sediment type	Sediment color	Sediment odor		Comments:		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW ADCS MR PH 1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 30s, clear
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1023</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202626.09</u>				Longitude/Easting (X): <u>1268942.78</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0948</u>	<u>-37.1</u>	<u>28.0</u>	<u>Y</u>	<u>+8.27</u>	<u>-28.8</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1023</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>Wood debris</u>		
gravel	drab olive	slight	petroleum			
<u>sand (EM C)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR Ph1

Weather: 30s, clear

Date: 1/26/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1024</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202669.65</u>				Longitude/Easting (X): <u>1269046.09</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0935</u>	<u>-32.7</u>	<u>25.0</u>	<u>Y</u>	<u>+8.31</u>	<u>-24.4</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1024</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>organic matter</u>		
gravel	drab olive	slight	petroleum			
<u>sand (FM) C</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR PH1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 30s, clear
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1025</u> ^{KM}				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u> </u>			
Latitude/Northing (Y): <u>202690.43</u>				Longitude/Easting (X): <u>1269131.32</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0924</u>	<u>-25.7</u>	<u>25.0</u>	<u>Y</u>	<u>+8.39</u>	<u>-17.3</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1025</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>woody debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 I
Date: March 30, 2023
Sampling Method: power grab

Weather: overcast, AOS
Tide Source: RTK
Crew: SR, CC

GRAB DATA	Location ID: <u>SS1026</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202713.33</u>				Longitude/Easting (X): <u>1269217.76</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1037</u>	<u>-17.9</u>	<u>18cm</u>	<u>Y</u>	<u>+7.41</u>	<u>-16.5</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1026</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris at surface</u> <u>(e.g. leaves)</u> <u>and woody debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 AUCS MP PH 1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 30s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1029</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>203124.99</u>				Longitude/Easting (X): <u>1269377.45</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0813</u>	<u>-21.5</u>	<u>24.0</u>	<u>Y</u>	<u>+9.48</u>	<u>-12.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1029</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>Shell fragments</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 / #: LOW AOCs MR Ph I
 Date: 1/19/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: 1KM, A7

GRAB DATA	Location ID: <u>SS1032^{km} SS1030</u>					
	On armored slope (Y/N)? <u>N</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>203314.20</u>				Longitude/Easting (X): <u>1269520.68</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1502^{km}4</u>	<u>-19.93^{km}</u>	<u>24.0</u>	<u>Y</u>	<u>+9.96</u>	<u>-9.93^{km}</u>	
SAMPLE DATA						
Sample ID: <u>LDWZ3-SS1030</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shells</u>		
cobble	<u>brown surface</u>	<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>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW MR AOC5 PH1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 30s, cloudy
 Tide Source: KTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1031</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202961.41</u>				Longitude/Easting (X): <u>1269332.54</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0835</u>	<u>-26.4</u>	<u>22.0</u>	<u>Y</u>	<u>+8.96</u>	<u>-17.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23 - SS1031</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>shells</u>		
<u>gravel</u> <u>trace</u>	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 AOCs MR Ph1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 30s, cloudy
 Tide Source: RTK
 Crew: KN, AZ

GRAB DATA		Location ID: <u>SS1032</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>203091.76</u>				Longitude/Easting (X): <u>1269423.24</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0824</u>	<u>-24.2</u>	<u>24.0</u>	<u>Y</u>	<u>+9.19</u>	<u>-15.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1032</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	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 / #: LOW MR AOC5 Ph 1
 Date: 1/20/23
 Sampling Method: pulver grab

Weather: 30s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1033</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>203245.88</u>				Longitude/Easting (X): <u>1269587.58</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0847</u>	<u>-15.8</u>	<u>19.0</u>	<u>Y</u>	<u>+8.71</u>	<u>-7.1</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1033</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AUCS MR PH1
Date: 1/19/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1034</u>					
	On armored slope (Y/N)? <u>Y</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>(No Sample collected)</u>				Longitude/Easting (X): <u>(No Sample collected)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1448</u>	<u>-13.5</u>	<u>—</u>	<u>N</u>	<u>+10.29</u>	<u>-3.2</u>	<u>rocks in jaws</u>
<u>1450</u>	<u>-15.3</u>	<u>—</u>	<u>N</u>	<u>+10.29</u>	<u>-5.0</u>	<u>not intertidal, rocks in jaws</u>
<u>1452</u>	<u>-13.4</u>	<u>—</u>	<u>N</u>	<u>+10.29</u>	<u>-3.1</u>	<u>rocks in jaws</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1034-KM (no sample collected)</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 ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MR Phase 1
Date: 04.11.23
Sampling Method: hand collected

Weather: 40S SUN
Tide Source: PTK tide station
Crew: SR TD

GRAB DATA		Location ID: <u>SS1034</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>HL</u>				Longitude/Easting (X): <u>HL</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1558</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>lots of cobble / rip rap / gravel at surface and below.</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1034</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>APP not visible. brick & glass fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
sand (F/M/D)	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC6 MR Phase 1
Date: 05.08.23
Sampling Method: power grab

Weather: 50s, sunny
Tide Source: RTK tide station
Crew: TD, SR, ES

GRAB DATA		Location ID: <u>SS1035</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>N/A</u>			
Latitude/Northing (Y): <u>203171.01</u>			Longitude/Easting (X): <u>1269527.89</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>10:44</u>	<u>-14.00</u>	<u>27.0</u>	<u>Y</u>	<u>+3.25</u>	<u>-10.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1035</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org. material & leaves, RPD not visible.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC'S NR Phase 1
 Date: 03.02.23
 Sampling Method: grab sampler

Weather: 20s, wind, overcast
 Tide Source: RTK tide station
 Crew: TD ES, KS, CL

GRAB DATA		Location ID: <u>SS1036</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>N/A</u>			
Latitude/Northing (Y): <u>202337.0</u>			Longitude/Easting (X): <u>1268713.5</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>-25.3</u> <u>-26.2</u>	<u>21.0</u>	<u>Y</u>	<u>+7.15</u>	<u>-17.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1036</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>worms</u> <u>PID not visible.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
silt	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: POCK ME Phase 1
Date: 03.12.23
Sampling Method: grab sampler

Weather: 40S, wind, overcast
Tide Source: RTK tide station
Crew: TD, EB, KS, CC

GRAB DATA	Location ID: <u>SS1037</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>2023519.2</u>			Longitude/Easting (X): <u>1268789.4</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0956</u>	<u>-34.2</u>	<u>17.0</u>	<u>Y</u>	<u>+7.91</u>	<u>-26.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1037</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris, tr. worms</u> <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW MR AOCs Ph 1
 Date: 1/19/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>551038</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>202408.33</u>				Longitude/Easting (X): <u>1268903.13</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>-40.3</u>	<u>—</u>	<u>N</u>	<u>+10.77</u>	<u>-29.5</u>	<u>over-penetrated</u>
<u>1427</u>	<u>-40.6</u>	<u>20.0</u>	<u>Y</u>	<u>+10.77</u>	<u>-29.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-551038</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	none	<u>H₂S</u>			
gravel	drab olive	<u>slight</u>	petroleum			
<u>sand (F/M) C</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LPW AOC5 MR Ph 1
Date: 1/10/23
Sampling Method: power grab

Weather: 40s, sun
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1039^{KM}</u> <u>SS1039</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202438.6</u>				Longitude/Easting (X): <u>1269002.12</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1156</u>	<u>-36.5</u>	<u>270</u>	<u>Y</u>	<u>+9.60</u>	<u>-26.9</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1039</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 AOCs MR Ph 1
 Date: 1/19/23
 Sampling Method: pinner grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1041</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>202489.24</u>				Longitude/Easting (X): <u>1269194.39</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1407</u>	<u>-13.8</u>	<u>20.0</u>	<u>Y</u>	<u>+11.00</u>	<u>-2.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1041</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>clam</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	<u>brown</u> <u>red-brown</u>	moderate	other:			
<u>silt?</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOCS NR Phase 1
Date: 041023
Sampling Method: hand collect

Weather: 40S, rain
Tide Source: RTK tide station
Crew: SK, TD

GRAB DATA	Location ID: <u>SS1042</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1650</u>	<u>Ø</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA						
Sample ID: <u>UDW23-SS1042</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>FPD not visible</u> <u>glass fragments</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F M G)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 04.10.23
Sampling Method: hand collect

Weather: 40S, rain
Tide Source: RTR tide station
Crew: GR, TD

GRAB DATA	Location ID: <u>SS1043</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1700</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>glass/metal frag. at surface</u>
SAMPLE DATA						
Sample ID: <u>WDW23-SS1043</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>glass & wood/sticks</u>		
cobble	brown surface	<u>(none)</u> H ₂ S				
<u>(gravel)</u>	drab olive	slight petroleum				
sand <u>(f M C)</u>	<u>(brown)</u>	moderate other:				
<u>(silt)</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MR Phase 1
Date: 03.02.23
Sampling Method: grab sampler

Weather: 40s, wind - overcast
Tide Source: RTK tide station
Crew: TD, ES, KS, LC

GRAB DATA	Location ID: <u>SS 10 44</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>202154.7</u>			Longitude/Easting (X): <u>1268782.0</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1022</u>	<u>-24.2</u>	<u>30.0</u>	<u>Y</u>	<u>+8.05</u>	<u>-16.2</u>	
SAMPLE DATA						
Sample ID: <u>VDW 23-SS 10 44</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org. debris</u> <u>RPD not visible.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AICS MR Ph I
 Date: 1/19/23
 Sampling Method: power grab

Weather: 30s, clear
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1045</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>202183.58</u>				Longitude/Easting (X): <u>1768876.85</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0907</u>	<u>-29.0</u>	<u>27.0</u>	<u>Y</u>	<u>+8.8</u>	<u>-20.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1045</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Woody material</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	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 / #: LOW AOCs MR PH
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>S51047</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202247.59</u>				Longitude/Easting (X): <u>1269060.29</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1514</u>	<u>-33.7</u>	<u>27.0</u>	<u>Y</u>	<u>+9.40</u>	<u>-24.3</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1047</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F/M/C)	brown	moderate	other:			
<u>silt</u>	gray	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOCs NR Phase 1

Weather: 40s wind, overcast

Date: 03.07.23

Tide Source: RTK tide station

Sampling Method: grab sampler

Crew: TD, ES, KS, CC

GRAB DATA	Location ID: <u>SS1048</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>202272.4</u>			Longitude/Easting (X): <u>1269154.8</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1032</u>	<u>-21.2</u>	<u>25.0</u>	<u>Y</u>	<u>+8.13</u>	<u>-13.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1048</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>banville worms,</u> <u>RPD not visible.</u>		
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MR Phasal
Date: 04.10.23
Sampling Method: hand collect.

Weather: ADS, rain
Tide Source: RTE tide station
Crew: SR, TD

GRAB DATA	Location ID: <u>SS1049</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>he</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1633</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1049</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>PPD not visible</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	petroleum			
sand (F M C)	<u>brown</u>	<u>moderate</u>	other:			
silt	<u>gray</u>	<u>strong</u>				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS NR Phase I
Date: 04.11.23
Sampling Method: hand collected

Weather: 40s, sun
Tide Source: ETC tide station
Crew: SE TD

GRAB DATA		Location ID: <u>SS1050</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
		On armored slope (Y/N)? <u>Y</u>		Latitude/Northing (Y): <u>hc</u>		
				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1543</u>	<u>0</u>	<u>10.00</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Sample collected amid debris/rip rap in area of exposed sediment.</u>
SAMPLE DATA		Sample ID: <u>LDW 23-SS1050</u>				
Pre-homogenization analyses (circle): . VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible. borate & glass frag.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR Ph 1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1051</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201968.75</u>				Longitude/Easting (X): <u>1268816.59</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1219^{PM}</u>	<u>-13.5</u>	<u>—</u>	<u>N</u>	<u>+9.78</u>	<u>-3.7</u>	<u>under-penetrated</u>
<u>1221</u>	<u>-13.3</u>	<u>—</u>	<u>N</u>	<u>+9.78</u>	<u>-3.5</u>	<u>over-penetrated</u>
<u>1227</u>	<u>-13.7</u>		<u>Y</u>	<u>+9.78</u>	<u>-3.9</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1051</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	<u>H₂S</u>	<u>Shells, wood debris</u>		
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	<u>moderate</u>	other:			
<u>silt</u>	gray	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 40s, sun
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1052</u>																																																	
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>																																														
Latitude/Northing (Y): <u>201998.91</u>				Longitude/Easting (X): <u>1268945.17</u>																																														
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments																																												
<u>1246</u>	<u>-26.5</u>	<u>26.0</u>	<u>Y</u>	<u>+10.27</u>	<u>-16.2</u>																																													
<table border="1"> <tr> <td>SAMPLE DATA</td> <td colspan="6">Sample ID: <u>LDW23-SS1052</u></td> </tr> <tr> <td colspan="7">Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:</td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> <td colspan="3">Comments:</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H₂S</td> <td colspan="3" rowspan="5"><u>organic debris, worms</u></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td><u>sand</u> (F M C)</td> <td><u>brown</u></td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>							SAMPLE DATA	Sample ID: <u>LDW23-SS1052</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>organic debris, worms</u>			gravel	drab olive	slight	petroleum	<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black		
SAMPLE DATA	Sample ID: <u>LDW23-SS1052</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>organic debris, worms</u>																																														
gravel	drab olive	slight	petroleum																																															
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:																																															
<u>silt</u>	<u>gray</u>	strong																																																
clay	black																																																	



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR PH1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1053</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>202052.98</u>				Longitude/Easting (X): <u>1269129.43</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1458</u>	<u>-36.0</u>	<u>23.0</u>	<u>Y</u>	<u>+9.27</u>	<u>-26.7</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1053</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Woody debris, organic matter</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
gravel	<u>drab olive</u>	slight	<u>petroleum</u>			
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOL5 NR Phase I
 Date: 08.02.23
 Sampling Method: grab sampler

Weather: 40s, wind, overcast
 Tide Source: RTK tide station
 Crew: TD, EB, KS, CC

GRAB DATA		Location ID: <u>SS1054</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u> </u>			
Latitude/Northing (Y): <u>202050.7</u>		Longitude/Easting (X): <u>1269219.0</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1041</u>	<u>-26.0</u>	<u>28.0</u>	<u>Y</u>	<u>+8.13</u>	<u>-17.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1054</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u> <u>RPD not visible.</u>		
cobble	<u>brown surface</u>	<u>gone</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
silt	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 04.11.23
Sampling Method: hand collected.

Weather: 40s, sunny
Tide Source: RTK tide station
Crew: SR TD

GRAB DATA		Location ID: <u>SS1055</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>hc</u>		Longitude/Easting (X): <u>hc</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1530</u>	<u>8</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Surface of area w/ lots of gravel/cobble/bricks.</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1055</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>EPD not vis. brick & metal frag. barnacles.</u>		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	<u>H₂S</u>			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	<u>other:</u>			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
<u>clay</u>	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 03.02.23
Sampling Method: grab sampler

Weather: 40s, wind, overcast
Tide Source: RTK tide station
Crew: TD, ES, KS, CC

GRAB DATA	Location ID: <u>SS1056</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>202052.3</u>			Longitude/Easting (X): <u>1269287.9</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1056</u>	<u>-20.2</u>	<u>21.0</u>	<u>Y</u>	<u>+0.15</u>	<u>-12.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1056</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>worms, tr. org. debris</u> <u>tr. isolated pockets of shell</u> <u>RPD not visible</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ADCS MR PH 1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AB

GRAB DATA	Location ID: <u>SS1059</u>					
	On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>				
Latitude/Northing (Y): <u>201830.18</u>		Longitude/Easting (X): <u>1269210.37</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1443</u>	<u>-35.0</u>	<u>27.0</u>	<u>Y</u>	<u>+9.07</u>	<u>-25.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1059</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>trace organic matter</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLS MR Ph 1

Weather: 40s, rain

Date: 1/9/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1060</u>					
	On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>				
Latitude/Northing (Y): <u>201904.98</u> <u>201906.24 km</u>		Longitude/Easting (X): <u>1269278.7</u> <u>1269283.58 km</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1426</u> ^{km} 1426	<u>-30.7</u>	<u>26.0</u>	<u>Y</u>	<u>+9.01</u>	<u>-21.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1060</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>none</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 1
 Date: 1-11-2023
 Sampling Method: power grab

Weather: partly cloudy, 50s, sun
 Tide Source: R-Tk
 Crew: SR, CC

GRAB DATA		Location ID: <u>SS1061</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201948.87</u>				Longitude/Easting (X): <u>1269366.46</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1303</u>	<u>-17.6</u>	<u>23cm</u>	<u>Y</u>	<u>+7.78</u>	<u>-9.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1061</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris — sticks/leaves</u> <u>several shells on surface</u> <u>woody debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOC5 MR Ph1
 Date: 1/19/23
 Sampling Method: power grab

Weather: 40s, clear
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>551062</u>					
	On armored slope (Y/N)? <u>Y</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>(no sample collected)</u>				Longitude/Easting (X): <u>(no sample collected)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0925</u>	<u>-6.2</u>	<u>—</u>	<u>N</u>	<u>+8.80</u>	<u>+2.6</u>	<u>no recovery</u>
<u>0927</u>	<u>.6.2</u>	<u>—</u>	<u>N</u>	<u>+8.80</u>	<u>+2.6</u>	<u>no recovery</u>
<u>0936</u>	<u>-6.2</u>	<u>—</u>	<u>N</u>	<u>+8.92</u>	<u>+2.7</u>	<u>under penetrated</u>
SAMPLE DATA	Sample ID: <u>(no sample collected)</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 ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS NR Phase 1
Date: 04.10.23
Sampling Method: hand collect

Weather: 40s, showers
Tide Source: RTK tide station
Crew: SR, TP

GRAB DATA	Location ID: <u>SS1062</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1604</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
<u>1609</u>						
SAMPLE DATA						
Sample ID: <u>LDW23-SS1062</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>lots of org. debris</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	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 / #: LDW AOC5 MR PH1 Weather: 40s, Sun
 Date: 1/10/23 Tide Source: RTK
 Sampling Method: power grab Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1063</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>201664.47</u>				Longitude/Easting (X): <u>1269194.28</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1308	-19.6	26.0	Y	+8.32	-11.3	
SAMPLE DATA		Sample ID: <u>LDW23-SS1063</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 Ph1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1064</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201688.45</u>				Longitude/Easting (X): <u>1269336.43</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1409</u>	<u>-35.6</u>	<u>24.0</u>	<u>Y</u>	<u>+8.84</u>	<u>-26.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1064</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, wood debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 ADCS MR Ph I
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy, rain
 Tide Source: RIT
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1065</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201725.86</u>				Longitude/Easting (X): <u>1269426.66</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1354</u>	<u>-30.7</u>	<u>25.0</u>	<u>Y</u>	<u>+8.70</u>	<u>-22.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1065</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase I
 Date: 1-11-2023
 Sampling Method: power grab

Weather: partly cloudy, fog, sun
 Tide Source: R-TK
 Crew: SR, CC

GRAB DATA		Location ID: <u>SS1066</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>201803.40</u>				Longitude/Easting (X): <u>1269501.02</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1240</u>	<u>-15.8</u>	<u>22 cm</u>	<u>Y</u>	<u>+8.04</u>	<u>-7.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1066</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic material (sticks / leaves)</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dark</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase I
Date: 04.11.23
Sampling Method: hand collected

Weather: AB, sun
Tide Source: RTK tide station
Crew: SR, TD

GRAB DATA		Location ID: <u>SS1067</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1438</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Sample collected behind low wall behind marina. Lots of debris (e.g. bottles, plywood) in this area.</u>
SAMPLE DATA		Sample ID: <u>VDW23-SS1067</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>wood fibers (leaves/sticks)</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR PH 1
 Date: 1/19/23
 Sampling Method: power grab

Weather: 40s, clear
 Tide Source: RTK
 Crew: KM1A2

GRAB DATA		Location ID: <u>SS1068</u>		Depth of overlying sediment, if known (cm): <u> </u>		
		On armored slope (Y/N)? <u>Y</u>				
Latitude/Northing (Y): <u>(no sample collected)</u>				Longitude/Easting (X): <u>(no sample collected)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0946</u>	<u>-5.7</u>	<u> </u>	<u>N</u>	<u>+8.99</u>	<u>+3.3</u>	<u>no recovery</u>
SAMPLE DATA		Sample ID: <u>(no sample collected)</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Did not make additional attempts due to armering</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase I
Date: 04-10-23
Sampling Method: hand collect

Weather: 40s, showers
Tide Source: ETK tide station
Crew: SIR TD

GRAB DATA	Location ID: <u>SS1068</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>11:11 AM</u>	<u>2</u>	<u>10.0</u>	<u>X</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA						
Sample ID: <u>UDW23-SS1068</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</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 / #: LDW AOCs MR PH I
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1070</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201554.11</u>				Longitude/Easting (X): <u>1269492.05</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1337</u>	<u>-38.5</u>	<u>24.0</u>	<u>Y</u>	<u>+8.65</u>	<u>-29.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1070</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace woody debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u> <u>trace</u>	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 / #: AOCs MR Phase 1
Date: 04.11.23
Sampling Method: hand collected

Weather: 40s, pthly cloudy
Tide Source: RTK tide station
Crew: SIR TD

GRAB DATA	Location ID: <u>SS1071</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>LC</u>				Longitude/Easting (X): <u>LC</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1400</u>	<u>Ø</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Lots of composite / cobble in this area - not continuously armored.</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1071</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	<u>H₂S</u>			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
<u>sand (F M G)</u>	<u>brown</u>	<u>moderate</u>	<u>other:</u>			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
<u>clay</u>	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MR Phase I
Date: 04.10.23
Sampling Method: hand collect

Weather: 40S, showers
Tide Source: RTK tide station
Crew: SR, TD

GRAB DATA		Location ID: <u>SS1072</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1555</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Cobble at surface; collected right at water line.</u>
SAMPLE DATA		Sample ID: <u>LDW 23-SS1072</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>Fabric</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	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 AOC5 MR PH1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, overcast
 Tide Source: RtK
 Crew: ICM, A2

GRAB DATA		Location ID: <u>SS1073</u>				
		On armored slope (Y/N)? <u>✓</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201336.54</u>					Longitude/Easting (X): <u>1269512.67</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1511</u>	<u>-12.9</u>	<u>23.0</u>	<u>Y</u>	<u>+9.15</u>	<u>-3.8</u>	<u>very challenging location to sample (boat positioning)</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1073</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			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PA1
Date: 1/18/23
Sampling Method: power grab

Weather: 40s, rain
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1074</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201394.46</u>				Longitude/Easting (X): <u>1269615.77</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1448</u>	<u>-37.4</u>	<u>20.0</u>	<u>Y</u>	<u>+9.67</u> <u>+10.56</u> <u>km</u>	<u>-27.7</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1074</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (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 / #: LOW MR AOC5 Ph1
 Date: 1/18/23
 Sampling Method: POWER grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1076</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>20553.68</u>				Longitude/Easting (X): <u>1269757.62</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1354</u>	<u>-21.8</u>	<u>—</u>	<u>N</u>	<u>+11.24</u>	<u>-10.6</u>	<u>rock in jaws</u>
<u>1400</u>	<u>-24.4</u>	<u>16.0</u>	<u>Y</u>	<u>+10.95</u>	<u>-13.5</u>	<u>-20ft from abutment (upstream end)</u>
SAMPLE DATA		Sample ID: <u>LOW23-SS1076</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>brick & shell fragments</u> <u>seen</u>		
<u>cobble</u>	<u>brown surface</u>	<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>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph 1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS 1077</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201583.52</u>				Longitude/Easting (X): <u>1269838.53</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1241</u>	<u>-15.0</u>	<u><10.0</u>	<u>N</u>	<u>+8.89</u>	<u>-6.1</u>	<u>under-penetrated</u>
<u>1301</u>	<u>-17.9</u>	<u>—</u>	<u>N</u>	<u>+8.76</u>	<u>-9.1</u>	<u>rock in jaws</u>
<u>1307</u>	<u>-15.8</u>	<u>19.0</u>	<u>Y</u>	<u>+8.76</u>	<u>-7.0</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1077</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, organic matter</u> <u>location is on a steep slope (hence variation in mudline elevations)</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
<u>gravel</u>	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 / #: LOW AOC5 MR PH1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1078</u>				
		On armored slope (Y/N)? <u>possibly</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>(no sample collected)</u>				Longitude/Easting (X): <u>(no sample collected)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1338	-11.3	—	N	+11.51	+0.2	rock in jaws
1341	-12.2	—	N	+11.51	-0.7	no sediment recovered
1343	-13.4	—	N	+11.51	-1.9	under penetrated and no sediment - cobbles only
SAMPLE DATA		Sample ID: <u>(no sample collected)</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 ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOCs NR Phase 1
Date: 04.11.23
Sampling Method: hand collected

Weather: 40s, pty & wavy
Tide Source: RTK tide station
Crew: SE TD

GRAB DATA	Location ID: <u>SS1078</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1418</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>cobble at surface.</u>
SAMPLE DATA Sample ID: <u>LDW23-SS1078</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible.</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</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 / #: LOW AOCs MR Ph 1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1079</u>				
		On armored slope (Y/N)? <u>Y</u>		Depth of overlying sediment, if known (cm):		
Latitude/Northing (Y): <u>(no sample collected)</u>				Longitude/Easting (X): <u>(no sample collected)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1320</u>	<u>-4.0</u>	<u>—</u>	<u>N</u>	<u>+11.73</u>	<u>+7.7</u>	<u>no sediment - asphalt</u>
<u>1324</u>	<u>-4.0</u>	<u>—</u>	<u>N</u>	<u>+11.73</u>	<u>+7.7</u>	<u>no recovery</u>
<u>1327</u>	<u>-3.6</u>	<u>—</u>	<u>N</u>	<u>+11.73</u>	<u>+8.2</u>	<u>no recovery</u>
SAMPLE DATA		Sample ID: <u>(no sample collected)</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 ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 04.10.23
Sampling Method: hand collect

Weather: 40s. showers
Tide Source: RSL tide station
Crew: SR TD

GRAB DATA	Location ID: <u>SS 1079</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1545</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Sample under bridge - lower coordinate accuracy.</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1079</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
silt	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph 1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: KTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1081</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201141.03</u>				Longitude/Easting (X): <u>1269654.89</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1304</u>	<u>-14.7</u>	<u>26.0</u>	<u>Y</u>	<u>+11.88</u>	<u>-2.8</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1081</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</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 / #: LOW AOC5 MR PH1

Weather: 40s, rain

Date: 1/18/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1082</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201251.29</u>				Longitude/Easting (X): <u>1269768.39</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1247</u>	<u>-37.2</u>	<u>24.0</u>	<u>Y</u>	<u>+12.00</u>	<u>-25.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1082</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shell fragments</u>		
cobble	<u>brown surface</u>	none	<u>H₂S</u>			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR PH1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>551083</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201310.03</u>				Longitude/Easting (X): <u>1269823.77</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1235</u>	<u>-39.2</u>	<u>23.0</u>	<u>Y</u>	<u>+12.03</u>	<u>-27.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-551083</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 AOCs MR Ph 1

Weather: 40s, rain

Date: 1/18/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1084</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>201345.59</u>			Longitude/Easting (X): <u>1269868.21</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1142</u>	<u>-33.7</u>	<u>26.0</u>	<u>Y</u>	<u>+11.89</u>	<u>-21.8</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1084</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 ADCS MR Ph I Weather: 40s, rain
 Date: 1/18/23 Tide Source: RTK
 Sampling Method: power grab Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1085</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u> </u>			
Latitude/Northing (Y): <u>201450.55</u>				Longitude/Easting (X): <u>1269971.76</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1128</u>	<u>-25.9</u>	<u>27.0</u>	<u>Y</u>	<u>+11.76</u>	<u>-14.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1085</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, clams, worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (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 / #: ACCS MR Phase 1
Date: 04.10.23
Sampling Method: hand collect.

Weather: 40S. overcast
Tide Source: RTK tide station
Crew: Sir TD

GRAB DATA	Location ID: <u>SS1086</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1505</u>	<u>Ø</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Sample collected along "creek," approx 1 ft. above water line.</u>
SAMPLE DATA						
Sample ID: <u>LD W23-SS1086</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S	<u>rusty colored pockets throughout.</u>		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AUCKS MR PH1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1088</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200895.24</u>				Longitude/Easting (X): <u>1269659.07</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>-7.2</u>	<u>23.0</u>	<u>Y</u>	<u>+11.63</u>	<u>+4.4</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1088</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AUCS MR Ph1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1089</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>200953.8</u>				Longitude/Easting (X): <u>1269740.02</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1024</u>	<u>-8.5</u>	<u><10.0</u>	<u>N</u>	<u>+11.11</u>	<u>+2.6</u>	<u>under-penetrated</u>
<u>1028</u>	<u>-8.7</u>	<u><10.0</u>	<u>N</u>	<u>+11.11</u>	<u>+2.4</u>	<u>under-penetrated</u>
<u>1043</u>	<u>-8.8</u>	<u>11.0</u>	<u>Y</u>	<u>+11.34</u>	<u>+2.5</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1089</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<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 / #: LOW AOC5 MR PH1
 Date: 11/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1090</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201031.38</u>				Longitude/Easting (X): <u>1269801.22</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>-21.1</u>	<u>28.0</u>	<u>Y</u>	<u>+10.94</u>	<u>-10.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1090</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph 1
Date: 1/6/23
Sampling Method: power grab

Weather: 40s, rain
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1091</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201091.00</u>				Longitude/Easting (X): <u>1269874.61</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1450</u>	<u>-29.4</u>	<u>16.0</u>	<u>Y</u>	<u>+10.60</u>	<u>-18.8</u>	
SAMPLE DATA						
Sample ID: <u>LDWZ3 - SS1091</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>none</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOWAOLCS MR PH 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SSHT 1092</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201228.74</u>				Longitude/Easting (X): <u>1270029.39</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1426	-29.7	17.0	Y	+10.33	-19.4	
SAMPLE DATA		Sample ID: <u>LOW23-SS 1092</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1

Weather: partly cloudy, fbs, sun

Date: 1.11.2023

Tide Source: RTK

Sampling Method: power grab

Crew: SR, CC

GRAB DATA		Location ID: <u>SS1094</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201294.93</u>				Longitude/Easting (X): <u>1270098.69</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1219</u>	<u>-25.0</u>	<u>25cm</u>	<u>Y</u>	<u>+8.73</u>	<u>-16.3</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1094</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u> <u>trace shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOLS MR PH 1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1095</u>				
		On armored slope (Y/N)?	Depth of overlying sediment, if known (cm):			
Latitude/Northing (Y): <u>201632.00</u>				Longitude/Easting (X): <u>1270315.62</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0952</u>	<u>-19.9</u>	<u>25.0</u>	<u>Y</u>	<u>+10.74</u>	<u>-9.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1095</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<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>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ADCS MR Phase I
 Date: 1-11-2023
 Sampling Method: power grab

Weather: partly cloudy, fog, sun
 Tide Source: RTR
 Crew: SIR, CC

GRAB DATA		Location ID: <u>SS1096</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201636.45</u>				Longitude/Easting (X): <u>1270499.90</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1143</u>	<u>20.6</u>	<u>27cm</u>	<u>Y</u>	<u>+9.51</u>	<u>-11.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1096</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u> <u>stick on surface</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F) (M) (C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dark</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR Ph1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40S, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1097</u>				
		On armored slope (Y/N)? <u>Y</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>no sample collected</u>				Longitude/Easting (X): <u>no sample collected</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
0913	-10.8	<10.0	N	+10.16	-0.6	under-penetrated
0919	-12.4	<10.0	N	+10.35	-2.1	under-penetrated
0922	-16.5	<10.0	N	+10.35	-6.2	rocks in jaws & not intertidal
0925	-12.8	<10.0	N	+10.35	-2.5	debris in jaws & under-penetrated
SAMPLE DATA		Sample ID: <u>no sample collected</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Location is on a steep slope, hence variability in mudline elevations</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS NR Phase 1
Date: 04.10.23
Sampling Method: hand collect.

Weather: 40s. overcast
Tide Source: RTK tide station
Crew: SR, TD

GRAB DATA	Location ID: <u>SS1097</u>					
	On armored slope (Y/N)? <u>(Y)</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1427</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1097</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD NOT VISIBLE</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
sand <u>(F/M C)</u>	brown	moderate	other:			
<u>silt</u> <u>✓</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase1

Weather: 90's, pty cloudy

Date: 04.11.23

Tide Source: RTH tide station

Sampling Method: pneumatic grab sampler

Crew: SR ID

GRAB DATA	Location ID: <u>SS1098</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>201578.39</u>			Longitude/Easting (X): <u>1270103.12</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1321</u>	<u>-10.8</u>	<u>29.0</u>	<u>Y</u>	<u>+1.74</u>	<u>-9.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1098</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>leaf litter, sticks, worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	<u>slight</u>	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ARCS NR Phase 1

Weather: 40S, pty cloudy

Date: 04.11.23

Tide Source: RTK tide station

Sampling Method: pneumatic grab sample

Crew: SR TD

GRAB DATA		Location ID: <u>SS1099</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>201559.88</u>			Longitude/Easting (X): <u>1270245.53</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1240</u>	<u>-15.20</u>	<u>29.0</u>	<u>Y</u>	<u>+2.95</u>	<u>-12.3</u>	
SAMPLE DATA		Sample ID: <u>CD023-SS1099</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPS no visible</u> <u>org. debris, worm</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (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 I
 Date: 1.11.2023
 Sampling Method: power grab

Weather: partly cloudy, 45s, sun
 Tide Source: RTK
 Crew: SP, CC

GRAB DATA		Location ID: <u>SS1100</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>201559.10</u>				Longitude/Easting (X): <u>1270496.71</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1128</u>	<u>-238</u>	<u>25cm</u>	<u>Y</u>	<u>+9.86</u>	<u>-13.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1100</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dan</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ACC5 MR Phase 1
Date: 04.11.23
Sampling Method: pneumatic grab sampler

Weather: 40s, pty cloudy
Tide Source: RTK tide station
Crew: SIR TD

GRAB DATA		Location ID: <u>SS1102</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>201474.40</u>			Longitude/Easting (X): <u>1270095.39</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1216</u>	<u>-17.90</u>	<u>30.0</u>	<u>Y</u>	<u>+4.22</u>	<u>-13.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1102</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>tr. org. material & wood debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	<u>H₂S</u>			
gravel	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
sand (F M C)	<u>brown</u>	<u>moderate</u>	<u>other:</u>			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 1.11.2023
 Sampling Method: power grab

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

GRAB DATA		Location ID: <u>SS1103</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>201464.02</u>					Longitude/Easting (X): <u>1270299.24</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1115</u>	<u>-23.4</u>	<u>25cm</u>	<u>Y</u>	<u>+10.25</u>	<u>+10.25</u> ^{SR}	
					<u>-13.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1103</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dorm</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AACS MR Phase 1

Weather: 40s, windy, overcast

Date: 03.03.23

Tide Source: RTK tide station

Sampling Method: grab sampler

Crew: TD, ES, CF

GRAB DATA	Location ID: <u>SS1104</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude (Northing) (Y): <u>201461.9</u>			Longitude (Easting) (X): <u>1270500.7</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1643</u>	<u>-19.9</u>	<u>28.5</u>	<u>Y</u>	<u>16.31</u>	<u>-13.6</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1104</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>tr. org debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1

Weather: 40s, windy, overcast

Date: 03.03.23

Tide Source: RTK tide station

Sampling Method: grab sampler

Crew: TD, ES, CF

GRAB DATA	Location ID: <u>SS1105</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/ <u>Northing</u> (Y): <u>201466.8</u>			Longitude/ <u>East</u> ing (X): <u>1270695.8</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1703</u>	<u>-18.5</u>	<u>21.0</u>	<u>Y</u>	<u>+5.43</u>	<u>-13.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1105</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>Org. debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MR Phase I
 Date: 03.03.23
 Sampling Method: grab sampler

Weather: hi 30s, windy, overcast
 Tide Source: RTK tide station
 Crew: TD, ES, CF

GRAB DATA	Location ID: <u>SS1106</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/ Northing (N): <u>201348.1</u>				Longitude/ Easting (E): <u>1270255.2</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0957</u>	<u>-21.1</u>	<u>>30.0</u>	<u>N</u>	<u>+6.74</u>	<u>-14.5</u>	<u>over-penetrated.</u>
<u>1000</u>	<u>-21.1</u>	<u>15.0</u>	<u>Y</u>	<u>+6.80</u>	<u>-14.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1106</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPP not visible</u> <u>tr. org. debris</u> <u>isolated pocket of slean</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	<u>slight</u>	petroleum			
<u>fr</u> sand (F M C)	<u>brown</u>	<u>moderate</u>	other:			
<u>silt</u> clay	<u>gray</u> <u>black</u>	<u>strong</u>				



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1

Weather: hi 30s, wind, overcast

Date: 03.03.23

Tide Source: RTK tide station

Sampling Method: grab sampler

Crew: TD, ES, CP

GRAB DATA	Location ID: <u>SS1107</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>201331.1</u>			Longitude/Easting (X): <u>1270448.0</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1021</u>	<u>-21.7</u>	<u>290</u>	<u>Y</u>	<u>+6.82</u>	<u>-149</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1107</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible to org. debris worms.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (<u>E M C</u>)	brown	moderate	other:			
silt	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLS MR Ph1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1108</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200873.61</u>				Longitude/Easting (X): <u>1269940.3</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0920</u>	<u>-20.1</u>	<u>30.0</u>	<u>Y</u>	<u>+10.35</u>	<u>-9.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1108</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (EMC)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR Ph 1
Date: 1/6/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1109</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>200946.08</u>			Longitude/Easting (X): <u>1270007.13</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1413</u>	<u>-29.5</u>	<u>19.0</u>	<u>Y</u>	<u>+10.12</u>	<u>-19.4</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1109</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>trace organic matter</u> <u>trace sheen</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR PA1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1110</u>					
	On armored slope (Y/N)? <u>N</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>201012.17</u>				Longitude/Easting (X): <u>1270089.03</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1400</u>	<u>-35.4</u>	<u>17.0</u>	<u>Y</u>	<u>+10.12</u>	<u>-25.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1110</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>organic matter</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 / #: ADCS MR Phase 1
 Date: 03.03.23
 Sampling Method: grab sampler

Weather: hi 30s, windy, overcast
 Tide Source: RTK tide station
 Crew: TD, ES, CF

GRAB DATA		Location ID: <u>SS1111</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>N/A</u>			
Latitude/Northing (Y): <u>201101.6</u>		Longitude/Easting (X): <u>1270183.8</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1036</u>	<u>-22.8</u>	<u>30.0</u>	<u>Y</u>	<u>+6.08</u>	<u>-15.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS11</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>worms, fish, tr. org debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 40s, sun
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1112</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>20153.27</u>				Longitude/Easting (X): <u>1270229.98</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1128</u>	<u>-22.2</u>	<u>30.0</u>	<u>Y</u>	<u>+10.31</u>	<u>-11.9</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1112</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>light sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
 Date: 03.03.23
 Sampling Method: grab sampler

Weather: 40°, windy, overcast
 Tide Source: RTK tide station
 Crew: TD, ES, CP

GRAB DATA	Location ID: <u>SS1113</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>201070.4</u>			Longitude/Easting (X): <u>1270299.7</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1058</u>	<u>-18.7</u>	<u>17.0</u>	<u>Y</u>	<u>+7.00</u>	<u>-11.7</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1113</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>tr. mins, org debris.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR Ph I
 Date: 1/17/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1114</u>				
		On armored slope (Y/N)? <u>Y</u>	Depth of overlying sediment, if known (cm):			
Latitude/Northing (Y): <u>(not collected)</u>				Longitude/Easting (X): <u>(not collected)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1511</u>	<u>-10.0</u>	<u>—</u>	<u>N</u>	<u>+7.28</u>	<u>-2.7</u>	<u>rock in jaws</u>
<u>1515</u>	<u>-9.0</u>	<u>—</u>	<u>N</u>	<u>+6.67</u>	<u>-2.3</u>	<u>rock in jaws</u>
<u>1519</u>	<u>-6.9</u>	<u>—</u>	<u>N</u>	<u>+6.67</u>	<u>-0.2</u>	<u>log in jaws</u>
SAMPLE DATA		Sample ID: <u>no sample collected</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>rip-rap slope - need to return later & collect by hand</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 04.10.23
Sampling Method: hand collect.

Weather: 40s, overcast.
Tide Source: RTK tide station
Crew: SR, TD

GRAB DATA	Location ID: <u>SS1114</u>					
	On armored slope (Y/N)? <u>Y</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1441</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Cobble/gravel at surface. Collected at base of rap slope.</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1114</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>slight sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1116</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200867.37</u>				Longitude/Easting (X): <u>1270223.0</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1344</u>	<u>-34.2</u>	<u>15.0</u>	<u>Y</u>	<u>+9.74</u>	<u>-24.5</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1116</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M) C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1

Weather: partly cloudy, 40S

Date: 1-11-2023

Tide Source: RTK

Sampling Method: power grab

Crew: SR, CC

GRAB DATA	Location ID: <u>SS1117</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200929.77</u>				Longitude/Easting (X): <u>1270299.02</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>-29.3</u>	<u>25cm</u>	<u>Y</u>	<u>+10.93</u>	<u>-18.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1117</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dark</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1 Weather: 40% windy, overcast
Date: 03.03.23 Tide Source: PTK tide station
Sampling Method: grab sampler Crew: TD, ES, CF

GRAB DATA	Location ID: <u>SS1118</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>200996.0</u>			Longitude/Easting (X): <u>1270363.3</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>-19.0</u>	<u>23.0</u>	<u>Y</u>	<u>+7.22</u>	<u>-11.8</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1118</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RAP not visible</u> <u>fr. worm tubes, org debris.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: ADCS MR Phase 1

Weather: 40°, windy, overcast

Date: 03.09.23

Tide Source: PTK tide station

Sampling Method: grab sampler

Crew: ID, ES, CP

GRAB DATA	Location ID: <u>SS1119</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude (Northing) (Y): <u>201055.9</u>			Longitude (Easting) (X): <u>1270318.7</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1107</u>	<u>-18.6</u>	<u>18.0</u>	<u>Y</u>	<u>+7.06</u>	<u>-11.5</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1119</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>org. debris. worms.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR Ph1
Date: 1/17/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1120</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200553.22</u>				Longitude/Easting (X): <u>1270143.77</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0954</u>	<u>-13.1</u>	<u>23.0</u>	<u>Y</u>	<u>+10.70</u>	<u>-2.4</u>	
SAMPLE DATA						
Sample ID: <u>LOW 23-SS1120</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand</u> <u>(F/M)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR PH1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1122</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200584.99</u>				Longitude/Easting (X): <u>1270215.19</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1053</u>	<u>-20.9</u>	<u>25.0</u>	<u>Y</u>	<u>+11.47</u>	<u>-9.4</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1122</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOCs MR Ph I
Date: 1/6/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1123</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200645.32</u>				Longitude/Easting (X): <u>1270284.1</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1329</u>	<u>-28.0</u>	<u>17.0</u>	<u>Y</u>	<u>+9.56</u>	<u>-18.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1123</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PH 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1124</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200715.91</u>				Longitude/Easting (X): <u>1270357.39</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1315</u>	<u>-33.5</u>	<u>13.0</u>	<u>Y</u>	<u>+956</u>	<u>-23.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1124</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shell fragments</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other: <u>SUSAT</u>			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Parcel
 Date: March 30, 2023
 Sampling Method: power grab

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

GRAB DATA		Location ID: <u>SS1125</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>200779.14</u>				Longitude/Easting (X): <u>1270437.59</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>-23.2</u>	<u>26cm</u>	<u>Y</u>	<u>+7.50</u>	<u>-15.7 ft</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1125</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>rocks w/ barnacles</u> <u>shells</u> <u>organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
sand (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray dark</u>	strong				
clay	<u>black</u>			<u>mostly at surface</u>		



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: POCS MR Phase
 Date: 05.08.23
 Sampling Method: hand collect

Weather: 6DS, sunny
 Tide Source: RTK tide station
 Crew: TD, SR, ES

GRAB DATA		Location ID: <u>SS1126</u>		Depth of overlying sediment, if known (cm): <u>10.0</u>		
		On armored slope (Y/N)? <u>Y</u>				
Latitude/Northing (Y): <u>200847.34</u>		Longitude/Easting (X): <u>1270467.46</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1445</u>	<u>Ø</u>	<u>10.0</u>	<u>Y</u>	<u>-1.10</u>	<u>-1.1</u>	<u>at waterline</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1126</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>barnacles</u>		
cobble	brown surface	<u>(none)</u>	H ₂ S			
<u>(gravel)</u>	drab olive	slight	petroleum			
sand (F/M/G)	brown	moderate	other:			
<u>(silt)</u>	<u>(gray)</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ACES MR PH 1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1127</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200701.64</u>					Longitude/Easting (X): <u>1270270.55</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0810</u>	<u>-11.5</u>	<u>16.0</u>	<u>Y</u>	<u>+9.71</u>	<u>-1.8</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1127</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shell</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	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 AOCs MR PA1
 Date: 1/18/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1128</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200435.05</u>				Longitude/Easting (X): <u>1270351.49</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0845</u>	<u>-19.2</u>	<u>25.0</u>	<u>Y</u>	<u>+10.03</u>	<u>-9.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1128</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter in surface</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 AOCs MR PA 1
 Date: 1/6/23
 Sampling Method: pinner grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>551129</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200367.01</u>				Longitude/Easting (X): <u>1270417.75</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1257</u>	<u>-18.1</u>	<u>17.0</u>	<u>Y</u>	<u>+9.22</u>	<u>-8.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-551129</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>trace organic matter</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	<u>slight</u>			
<u>silt</u>	<u>gray</u>	strong	other:			
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph 1
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, drizzle
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1130</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200502.53</u>				Longitude/Easting (X): <u>1270420.03</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1452</u>	<u>-29.5</u>	<u>25.0</u>	<u>Y</u>	<u>+10.96</u>	<u>-18.5</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1130</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>organic matter</u>		
gravel	drab olive	slight	petroleum			
<u>sand</u> (F/M/C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1150^{KM} SS1131</u>				
		On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>200571.24</u>				Longitude/Easting (X): <u>1270494.18</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1243	-32.1	13.0	Y	+9.10	-23.0	
SAMPLE DATA		Sample ID: <u>LDW23-SS1131</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 1
Date: March 30, 2023
Sampling Method: power grab

Weather: partly cloudy, 40s
Tide Source: RTH
Crew: SIR, CC

GRAB DATA	Location ID: <u>SS1132</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200644.26</u>				Longitude/Easting (X): <u>1270568.92</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1130</u>	<u>-21.8</u>	<u>28cm</u>	<u>Y</u>	<u>+7.52</u>	<u>-14.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1132</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>sticks/woody debris</u> <u>shells</u> <u>rocks</u> <u>leaves/organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	<u>slight</u>	petroleum			
sand (F) (M) (C)	<u>brown</u>	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR Ph1
 Date: 1/19/23
 Sampling Method: power grab

Weather: 30s, clear
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1072^{km}</u> <u>SS1133</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>200677.60</u>				Longitude/Easting (X): <u>1270613.2</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1024</u>	<u> </u>	<u> </u>	<u>N</u>	<u>+9.32</u>	<u> </u>	<u>grab not armed</u>
<u>1026</u>	<u>-11.6</u>	<u>26.0</u>	<u>Y</u>	<u>+9.32</u>	<u>-2.3</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1133</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>slight sheen, shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (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 / #: AOC5 MP Phase 1
Date: 05.08.23
Sampling Method: hand collect

Weather: 80s sunny
Tide Source: RTK tide station
Crew: JD, SR, EG

GRAB DATA	Location ID: <u>SS1134</u>					
	On armored slope (Y/N)? <u>Y</u>			Depth of overlying sediment, if known (cm): <u>10.0</u>		
Latitude/Northing (Y): <u>200761.98</u>				Longitude/Easting (X): <u>1270547.72</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1410</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>-2.19</u>	<u>-2.2</u>	<u>at waterline</u>
SAMPLE DATA Sample ID: <u>CDW23-SS1134</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>PPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</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 / #: LOW AOLS MR PH1
 Date: 1/19/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: VM, AZ

GRAB DATA		Location ID: <u>SS1135</u>				
		On armored slope (Y/N)? <u>y</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200291.24</u>				Longitude/Easting (X): <u>1270400.34</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1045</u>	<u>-7.3</u>	<u><10.0</u>	<u>N</u>	<u>+9.64</u>	<u>+2.3</u>	<u>under penetrated</u>
<u>1049</u>	<u>-7.3</u>	<u><10.0</u>	<u>N</u>	<u>+9.64</u>	<u>+2.3</u>	<u>rocks in jaws</u>
<u>1052</u>	<u>-8.3</u>	<u>13.0</u>	<u>y</u>	<u>+9.64</u>	<u>+1.3</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1135</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Shell fragments</u>		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	<u>H₂S</u>			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
<u>sand (F/M/C)</u>	<u>brown</u>	<u>moderate</u>	<u>other:</u>			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
<u>clay</u>	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR Ph I
 Date: 1/19/23
 Sampling Method: pinner grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1136</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200255.71</u>				Longitude/Easting (X): <u>1270479.11</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1104</u>	<u>-11.7</u>	<u>20.0</u>	<u>Y</u>	<u>+9.83</u>	<u>-1.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1136</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, glass shards</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	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 PH1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, partly sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1137</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200349.26</u>				Longitude/Easting (X): <u>1270555.29</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1233</u>	<u>-27.2</u>	<u>24.0</u>	<u>Y</u>	<u>+16.34</u>	<u>-16.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1137</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>organic debris</u>		
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 PH1 MR

Weather: 40s, partly sunny

Date: 1/3/23

Tide Source: RTK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1138</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200421.89</u>				Longitude/Easting (X): <u>1270627.59</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1248</u>	<u>-33.5</u>	<u>14.0</u>	<u>Y</u>	<u>+10.44</u>	<u>-23.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1138</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris (woody)</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 NR Phase I
 Date: 1.11.2023
 Sampling Method: power grab

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

GRAB DATA		Location ID: <u>SS1139</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>200494.15</u>				Longitude/Easting (X): <u>1270698.19</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1020</u>	<u>-24.1</u>	<u>24cm</u>	<u>Y</u>	<u>+11.49</u>	<u>-12.6</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1139</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace shell fragments</u> <u>trace organic debris.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 AOCs MR Ph I
 Date: 1/19/23
 Sampling Method: pusher grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1140</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>200530.35</u>				Longitude/Easting (X): <u>1270758.74</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1120</u>	<u>-11.9</u>	<u>25.0</u>	<u>Y</u>	<u>19.97</u>	<u>-1.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1140</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	<u>H₂S</u>			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
<u>sand (EMC)</u>	<u>brown</u>	<u>moderate</u>	<u>other:</u>			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
<u>clay</u>	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR PH I
Date: 1/17/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1141</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>260597.03</u>				Longitude/Easting (X): <u>1270695.89</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1137</u>	<u>-13.3</u>	<u>27.0</u>	<u>Y</u>	<u>+10.18</u>	<u>-3.1</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1141</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen, shells</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (B M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AUCS MR Ph 1

Weather: 90s, cloudy

Date: 1/19/23

Tide Source: RTK

Sampling Method: power grab

Crew: PH1, KM, AZ

GRAB DATA	Location ID: <u>SS1142</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200125.14</u>				Longitude/Easting (X): <u>1270600.37</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>-11.6</u>	<u>22.0</u>	<u>Y</u>	<u>+10.35</u>	<u>-1.3</u>	<u>coordinates lost due to nav data logger failure; recollected sample</u>
<u>1235</u>	<u>-12.0</u>	<u>24.0</u>	<u>Y</u>	<u>+10.80</u>	<u>-1.2</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1142</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>Shell fragments</u>		
gravel	drab olive	slight	petroleum			
<u>sand (FMC)</u>	<u>brown (red-brown)</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs PhI MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, partly sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1143</u>					
	On armored slope (Y/N)? <u>N</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>200209.92</u>				Longitude/Easting (X): <u>1270692.55</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1153</u>	<u>-28.2</u>	<u>26.0</u>	<u>Y</u>	<u>19.91</u>	<u>-18.3</u>	<u>collected field dup</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1143, LDW23-SS1143-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>shells, worms</u>		
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 PH1 MR
 Date: 1/3/23
 Sampling Method: pinner grab

Weather: 40s, partly sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1144</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>---</u>			
Latitude/Northing (Y): <u>200276.95</u>				Longitude/Easting (X): <u>1270764.34</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1301</u>	<u>-33.5</u>	<u>16.0</u>	<u>Y</u>	<u>+10.51</u>	<u>-23.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1144</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Shells</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
Date: 1-11-2023
Sampling Method: power grab

Weather: partly cloudy, 40s
Tide Source: RTK
Crew: SP, CC

GRAB DATA	Location ID: <u>SS1145</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200345.43</u>				Longitude/Easting (X): <u>1270835.87</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1007</u>	<u>-25.3</u>	<u>22 cm</u>	<u>Y</u>	<u>+11.74</u>	<u>-13.6</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1145</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u> <u>shell fragment (trace)</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: AOC5 MR Phase I
Date: 05.08.23
Sampling Method: hand collect

Weather: 60s, sunny
Tide Source: RTK tide station
Crew: TD, SE, ES

GRAB DATA		Location ID: <u>SS1146</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>200402.02</u>		Longitude/Easting (X): <u>1270904.44</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1419</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>-1.86</u>	<u>-1.9</u>	<u>at waterline</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1146</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
sand (F M C)	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: BOCS NR Phase I
Date: 04.10.23
Sampling Method: hand collected

Weather: ADS, gray
Tide Source: RTK tide station
Crew: SL TD

GRAB DATA	Location ID: <u>SS1147</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1400</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	
SAMPLE DATA						
Sample ID: <u>UPW 23-SS1147</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>glass fragments</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	<u>drab-olive</u>	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 ADCS MR PH 1
 Date: 1/5/23
 Sampling Method: pinner grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS450^{KM} SS1149</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199953.88</u>				Longitude/Easting (X): <u>1270724.49</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1416	-10.6	—	N	+10.82	0.2	under-penetrated
1421	-10.9	10.0	N	+10.82	-0.1	under-penetrated
1433	-10.4	19.0	Y	+10.94	0.5	
SAMPLE DATA		Sample ID: <u>LDW23-SS1149</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>glass</u>		
<u>cobble</u>	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	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 / #: MDCS MR Phase I
 Date: 020823
 Sampling Method: power grab

Weather: 40S, overcast
 Tide Source: RTK tide station
 Crew: TD, EP, RB

GRAB DATA		Location ID: <u>SS1150</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>200061.74</u>				Longitude/Easting (X): <u>1270822.27</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1211</u>	<u>-10.20</u>	<u>25.0</u>	<u>Y</u>	<u>15.22</u>	<u>-13.0</u>	
SAMPLE DATA		Sample ID: <u>LPW23-SS1150</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>mussels, wood debris</u> <u>org. material</u> <u>RPD not visible.</u>		
cobble	brown surface	none	H ₂ S			
gravel	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 / #: LDW AOC5 MR Phase 1
 Date: 1.11.2023
 Sampling Method: power grab

Weather: partly cloudy, 40s
 Tide Source: RTK
 Crew: SP, CC

GRAB DATA		Location ID: <u>SS1151</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200187.92</u>				Longitude/Easting (X): <u>1270973.49</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0450</u>	<u>-26.7</u>	<u>23 cm</u>	<u>Y</u>	<u>+11.99</u>	<u>-14.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1151</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOLS MR Ph 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: ICM, AZ

GRAB DATA		Location ID: <u>SS1152</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200260.21</u>				Longitude/Easting (X): <u>1271048.45</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1229</u>	<u>-17.2</u>	<u>17.0</u>	<u>Y</u>	<u>+8.96</u>	<u>-8.2</u>	
SAMPLE DATA		Sample ID: <u>LPW23-SS1152</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>slight sheen</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand (E/M/C)</u>	brown	moderate	other: <u>slight</u>			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph I
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1154</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>200377.81</u>				Longitude/Easting (X): <u>1271168.7</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1357</u>	<u>-14.6</u>	<u>24.0</u>	<u>Y</u>	<u>+10.51</u>	<u>-4.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1154</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	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 / #: LOW AOC5 MR PH1
Date: 1/17/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: ^{KM} SS1159 SS1155					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199852.81</u>				Longitude/Easting (X): <u>1270887.38</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1419</u>	<u>-20.3</u>	<u>21.0</u>	<u>Y</u>	<u>+8.90</u>	<u>-11.4</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1155</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 Ph1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, mostly cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1156</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>199912.49</u>				Longitude/Easting (X): <u>1270954.7</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1131</u>	<u>-28.8</u>	<u>28.0</u>	<u>Y</u>	<u>+9.73</u>	<u>-19.1</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1156, LDW23-SS1156-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	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 / #: LOW AOC5 PA1 MR
Date: 1/3/23
Sampling Method: power grab

Weather: 40s, mostly cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1157</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199975.61</u>				Longitude/Easting (X): <u>1271038.34</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1320</u>	<u>-33.1</u>	<u>27.0</u>	<u>Y</u>	<u>+10.56</u>	<u>-22.5</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1157</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase1

Weather: partly cloudy, 40s

Date: 1.11.2023

Tide Source: RTL

Sampling Method: power grab

Crew: SP, CC

GRAB DATA	Location ID: <u>SS1158</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200052.21</u>				Longitude/Easting (X): <u>1271111.13</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0935</u>	<u>-21.7</u>	<u>22cm</u>	<u>Y</u>	<u>+12.20</u>	<u>-15.5</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1158</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dark</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOWAOC5 MR Ph1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s. cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1159</u>				
		On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>200112.58</u>				Longitude/Easting (X): <u>1271166.27</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>-19.8</u>	<u>22.0</u>	<u>Y</u>	<u>+10.21</u>	<u>-9.6</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1159</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen, trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 Ph 1
 Date: 1/6/23
 Sampling Method: pilzer grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1160</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>200290.39</u>				Longitude/Easting (X): <u>1271247.89</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1141</u>	<u>-12.5</u>	<u>21.0</u>	<u>Y</u>	<u>+8.60</u>	<u>-3.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1160</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter,</u> <u>slight sheen</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand</u> (E M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR PH 1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: 1CM, AZ

GRAB DATA		Location ID: <u>SS1161</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199696.31</u>				Longitude/Easting (X): <u>1271024.45</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1432</u>	<u>-18.4</u>	<u>23.0</u> <u>21.0 cm</u>	<u>Y</u>	<u>+8.93</u>	<u>-10.0</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1161</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR PH1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: 16M, A7

GRAB DATA		Location ID: <u>SS1162</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199762.56</u>				Longitude/Easting (X): <u>1271089.1</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1452</u>	<u>-25.7</u>	<u>25.0</u>	<u>Y</u>	<u>+7.56</u>	<u>-17.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1162</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (E/M/C)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 PH1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1163</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199830.15</u>				Longitude/Easting (X): <u>1271164.55</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1340</u>	<u>-32.5</u>	<u>22.0</u>	<u>Y</u>	<u>+10.59</u>	<u>-21.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1163</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			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (E/M) C</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1

Weather: partly cloudy, 40s

Date: 1.11.2023

Tide Source: RTA

Sampling Method: power grab

Crew: SP, CC

GRAB DATA	Location ID: <u>SS1164</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199902.91</u>				Longitude/Easting (X): <u>1271247.54</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0918</u>	<u>-29.4</u>	<u>20 cm</u>	<u>Y</u>	<u>+12.37</u>	<u>-17.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1164</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOC5 PH1 MR

Weather: 40s, cloudy

Date: 1/3/23

Tide Source: RJK

Sampling Method: power grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1166</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199963.5</u>				Longitude/Easting (X): <u>1271358.11</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>-16.8</u>	<u>11.0</u>	<u>Y</u>	<u>+10.55</u>	<u>-6.3</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1166</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			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 ME Phase 1
 Date: 05-08-23
 Sampling Method: hand collect

Weather: SDS, sunny
 Tide Source: RTK tide station
 Crew: TD, SR, ES

GRAB DATA		Location ID: <u>SS1167</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>199467.38</u> <u>hand collect</u>		Longitude/Easting (X): <u>1271144.49</u> <u>hand collect</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1200</u>	<u>NA</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA		Sample ID: <u>LDW 23-SS1167</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>PPD not visible</u> <u>tr. org. material, glass</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	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 / #: LOW AOCs MR PH1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1168</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199546.79</u>				Longitude/Easting (X): <u>1271155.89</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1211</u>	<u>-19.8</u>	<u>26.0</u>	<u>Y</u>	<u>+11.49</u>	<u>-8.37^{km}</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1168</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 ME PH1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>551170</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199676.4</u>				Longitude/Easting (X): <u>1271287.57</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1109</u>	<u>-32.3</u>	<u>>33.0</u>	<u>N</u>	<u>+11.43</u>	<u>-20.9</u>	<u>over-penetrated</u>
<u>1117</u>	<u>-31.8</u>	<u>28.0</u>	<u>Y</u>	<u>+11.52</u>	<u>-20.3</u>	
SAMPLE DATA		Sample ID: <u>LDW23-551170</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</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>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 40s, Sun
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1171</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>199759.1</u>				Longitude/Easting (X): <u>1271379.22</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1108</u>	<u>-29.8</u>	<u>27.0</u>	<u>Y</u>	<u>110.70</u>	<u>-19.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1171</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>woody debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 PA1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: KTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1172</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199741.53</u>				Longitude/Easting (X): <u>1271447.96</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1407</u>	<u>-26.2</u>	<u>25.0</u>	<u>Y</u>	<u>+10.49</u>	<u>-15.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1172</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			
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 ACCS MR Ph1
Date: 1/6/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1173</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199816.55</u>				Longitude/Easting (X): <u>1271454.47</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1122</u>	<u>-19.0</u>	<u>16.0</u>	<u>Y</u>	<u>+8.64</u>	<u>-10.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1173</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>slight sheen</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand (F M C)</u>	brown	moderate	other: <u>slight</u>			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5, PA1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, partly sunny
 Tide Source: KTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1174</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199744.23</u>					Longitude/Easting (X): <u>1271508.26</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1420</u>	<u>-22.5</u>	<u>—</u>	<u>N</u>	<u>+10.41</u>	<u>-12.1</u>	<u>debris in jaws</u>
<u>1425</u>	<u>-22.4</u>	<u>29.0</u>	<u>Y</u>	<u>+10.41</u>	<u>-12.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-^{KM}SS1174 SS1174</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Shuen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOCs MR Ph I
Date: 1/5/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1175</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199893.22</u>				Longitude/Easting (X): <u>1271396.66</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>-18.7</u>	<u>16.0</u>	<u>Y</u>	<u>+10.51</u>	<u>-8.2</u>	<u>Collected material from in tact center of grab</u>
SAMPLE DATA						
Sample ID: <u>LOW23-SS1175</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 ₂ S	<u>slight sheen</u>		
<u>gravel</u>	drab olive	slight	<u>petroleum</u>			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ADCS MR PH1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1176</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199413.65</u>				Longitude/Easting (X): <u>1271280.54</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>-17.3</u>	<u>21.0</u>	<u>Y</u>	<u>+11.38</u>	<u>-5.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1176</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<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 / #: LOW AOCs PH1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1177</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199465.5</u>				Longitude/Easting (X): <u>1271367.74</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1108</u>	<u>-23.7</u>	<u>26.0</u>	<u>Y</u>	<u>+9.40</u>	<u>-14.3</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LOW23-SS1177, LOW23-SS1177-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR Ph 1
Date: 1/10/23
Sampling Method: power grab

Weather: 40s, sun
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1178</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199610.03</u>				Longitude/Easting (X): <u>1271509.74</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1056</u>	<u>-28.2</u>	<u>26.0</u>	<u>Y</u>	<u>+11.04</u>	<u>-17.2</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1178</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M) C</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PH 1
Date: 1/6/23
Sampling Method: power grab

Weather: 90s, sunny
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1179</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>---</u>		
Latitude/Northing (Y): <u>199661.73</u>				Longitude/Easting (X): <u>1271571.00</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0952</u>	<u>-19.3</u>	<u>25.0</u>	<u>Y</u>	<u>+9.37</u>	<u>-9.9</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1179</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 ₂ S	<u>organic matter,</u> <u>slight sheen</u>		
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand (F/M/C)</u>	brown	moderate	other: <u>slight</u>			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ACES MR Ph 1

Weather: 40s, Sun

Date: 1/20/23

Tide Source: RTK

Sampling Method: pneum grab

Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1180</u>					
	On armored slope (Y/N)?			Depth of overlying sediment, if known (cm):		
Latitude/Northing (Y): <u>199204.54</u>				Longitude/Easting (X): <u>1271396.4</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1353</u>	<u>-8.4</u>	<u>16.0</u>	<u>Y</u>	<u>+11.08</u>	<u>+2.7</u>	
SAMPLE DATA						
Sample ID: <u>LOW 23 - SS1180</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments:		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	<u>H₂S</u>			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	<u>petroleum</u>			
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	<u>other:</u>			
<u>silt</u>	<u>gray</u>	<u>strong</u>				
<u>clay</u>	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s. cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>KM</u> <u>SS1159</u> <u>SS1181</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199255.25</u>				Longitude/Easting (X): <u>1271431.89</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1314</u>	<u>-13.3</u>	<u>26.0</u>	<u>Y</u>	<u>+10.77</u>	<u>- 2.5</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1181</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace shuen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>(sand) (F) (M) (C)</u>	brown	moderate	other:			
<u>(silt)</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PH 1
Date: 4/5/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: Km, AZ

GRAB DATA	Location ID: <u>SS1182</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199307.03</u>				Longitude/Easting (X): <u>1271478.06</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1306</u>	<u>-20.5</u>	<u>27.0</u>	<u>Y</u>	<u>+10.25</u>	<u>-10.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1182</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			
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 PH1
Date: 1/5/23
Sampling Method: pneum grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1184</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199390.88</u>				Longitude/Easting (X): <u>1271575.26</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1250</u>	<u>-30.6</u>	<u>23.0</u>	<u>Y</u>	<u>+10.13</u>	<u>-20.5</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1184</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>organic matter, shell fragments</u>		
gravel	drab olive	slight	petroleum			
<u>sand (FMC)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ACIS MR Ph 1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>551185</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>199455.02</u>				Longitude/Easting (X): <u>1271643.0</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>-27.4</u>	<u>14.0</u>	<u>Y</u>	<u>+10.39</u>	<u>-17.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1185</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>woody debris, organic matter</u>		
cobble	<u>brown surface</u>	<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 / #: LOW AOC5 MR Ph 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1187</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199471.97</u>				Longitude/Easting (X): <u>1271756.08</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0919</u>	<u>-15.8</u>	<u>27.0</u>	<u>Y</u>	<u>+9.88</u>	<u>-5.9</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1187</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>slight sheen</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 90s, sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1188</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199595.2</u>				Longitude/Easting (X): <u>1271653.31</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0936</u>	<u>-16.3</u>	<u>25.0</u>	<u>Y</u>	<u>+9.61</u>	<u>-6.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1188</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>sheen, organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 1.4.2023
 Sampling Method: power grab

Weather: partly cloudy, 40s
 Tide Source: RTH
 Crew: SR, A2

GRAB DATA		Location ID: <u>SS1189</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199092.74</u>				Longitude/Easting (X): <u>1271562.36</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1157</u>	<u>-7.4</u>	<u>17 cm</u>	<u>Y</u>	<u>+9.5</u>	<u>+2.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1189</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell debris</u> <u>organic debris</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<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 / #: LDW AOC5 PH1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1191</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>194225.49</u>				Longitude/Easting (X): <u>1271705.46</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1050</u>	<u>-28.6</u>	<u>22.0</u>	<u>Y</u>	<u>+9.23</u>	<u>-19.4</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1191, LDW23-SS1191-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR PA1
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1193</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199270.47</u>				Longitude/Easting (X): <u>1271968.39</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1234</u>	<u>-17.2</u>	<u>22.0</u>	<u>Y</u>	<u>+9.90</u>	<u>-7.3</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1193</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>trace organic matter</u>		
<u>gravel</u>	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 / #: LOW AOC5 MR PH1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1195</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199401.49</u>				Longitude/Easting (X): <u>1271827.36</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0901</u>	<u>-12.4</u>	<u>24.0</u>	<u>Y</u>	<u>110.20</u>	<u>-2.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1195</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u> <u>trace</u>	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 Ph I
 Date: 11/6/23
 Sampling Method: power grab

Weather: 40s, sunny
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1196</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199311.5</u>				Longitude/Easting (X): <u>1271901.83</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0845</u>	<u>-8.8</u>	<u>17.0</u>	<u>Y</u>	<u>+10.48</u>	<u>+1.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1196</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 PH1 MR
 Date: 1/3/23
 Sampling Method: power grab

Weather: 40%, cloudy
 Tide Source: RTK
 Crew: KM, AE

GRAB DATA		Location ID: <u>SS1199</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>199084.32</u>				Longitude/Easting (X): <u>19271848.79</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1024</u>	<u>-29.3</u>	<u>23.0</u>	<u>Y</u>	<u>+8.92</u>	<u>-20.4</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1199, LDW23-SS1199-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris, shells</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR PH 1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 40s, SUN
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1200</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u> </u>			
Latitude/Northing (Y): <u>199167.78</u>				Longitude/Easting (X): <u>1271911.67</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>-25.3</u>	<u>22.0</u>	<u>Y</u>	<u>+11.94</u>	<u>-13.4</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1200</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
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 / #: LDN AOC5 MR Phase I Weather: partly cloudy, 40s
 Date: 1.4.2023 Tide Source: RTK
 Sampling Method: power grab Crew: SR, AZ

GRAB DATA		Location ID: <u>SS1202</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>NA (no sample)</u>				Longitude/Easting (X): <u>NA (no sample)</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1139</u>	<u>-7.2</u>	<u>0cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>no penetration</u>
<u>1141</u>	<u>-9.4</u>	<u><5cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>metal debris in grab</u>
<u>1145</u>	<u>-8.5</u>	<u><5cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	<u>rock in jaw</u>
SAMPLE DATA		Sample ID: <u>LDW23 SR no sample collected.</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 ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

 Project Name / #: LOW AOCs MR PH1

 Weather: 40s, cloudy

 Date: 1/19/23

 Tide Source: RTK

 Sampling Method: power grab

 Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1180^{KM} SS1202</u>					
	On armored slope (Y/N)? <u>N</u>				Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>198757.56</u>				Longitude/Easting (X): <u>1271835.54</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>-8.9</u>	<u>—</u>	<u>N</u>	<u>+11.03</u>	<u>+2.1</u>	<u>debris in jaws</u>
<u>1314</u>	<u>-10.1</u>	<u>16.0</u>	<u>Y</u>	<u>+11.03</u>	<u>+0.9</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1202</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments</u>		
cobble	<u>brown surface</u>	<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 NR Phase 1 Weather: partly cloudy, 40S
Date: 1.4.2023 Tide Source: RTH
Sampling Method: power grab Crew: SR, AZ

GRAB DATA	Location ID: <u>SS1203</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198805.73</u>			Longitude/Easting (X): <u>1271853.24</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1120</u>	<u>-15.1</u>	<u>21 cm</u>	<u>Y</u>	<u>+9.08</u>	<u>-6.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1203</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace sheen</u> <u>some woody / organic debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F) (M) (C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u> <u>dark</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR Ph I
Date: 1/23/23
Sampling Method: power grab

Weather: 30s, partly sunny
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1204</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>198883.94</u>			Longitude/Easting (X): <u>1271920.24</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>-20.3</u>	<u>27.0</u>	<u>Y</u>	<u>+6.70</u>	<u>-13.6</u>	<u>collected before core & after sunken barge was floated</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1204</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, woody debris, trash</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 NR Ph 1
Date: 1/6/23
Sampling Method: power grab

Weather: 40s, partly cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1205</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198964.67</u>				Longitude/Easting (X): <u>1271982.65</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0828</u>	<u>-31.2</u>	<u>22.0</u>	<u>Y</u>	<u>+11.07</u>	<u>-20.1</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1205</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shell fragments</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	slight	<u>petroleum</u>			
<u>sand (F/M/C)</u>	brown	moderate	other: <u>slight</u>			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PH1
 Date: 4/5/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1207</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>199054.26</u>				Longitude/Easting (X): <u>1272062.2</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1217</u>	<u>-19.3</u>	<u>—</u>	<u>N</u>	<u>+9.83</u>	<u>-9.5</u>	<u>wood in jaws</u>
<u>1219</u>	<u>-21.3</u>	<u>24.0</u>	<u>Y</u>	<u>+9.83</u>	<u>-11.5</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1207</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>pieces of glasses, shell fragments</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	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 PH1
Date: 1/5/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1208</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199094.08</u>			Longitude/Easting (X): <u>1272009.55</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1202</u>	<u>-21.1</u> <u>-23.2</u> <u>KM</u>	<u>24.0</u>	<u>Y</u>	<u>+9.69</u>	<u>-11.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1208</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>Shell fragments</u>		
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 NOCS MR Ph 1
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1209</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>199094.23</u>				Longitude/Easting (X): <u>1272119.02</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0837</u>	<u>-8.1</u>	<u><11.0</u>	<u>N</u>	<u>19.73</u>	<u>+1.6</u>	<u>winnowed</u>
<u>0843</u>	<u>-8.5</u>	<u>15.0</u>	<u>Y</u>	<u>+9.73</u>	<u>+1.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1209</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel trace</u>	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 I
 Date: 1.4.2023
 Sampling Method: power grab

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

GRAB DATA		Location ID: <u>SS1211</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>148658.31</u>				Longitude/Easting (X): <u>1271918.73</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1052	-6.7	~20	N	—	—	rocks in jaw; washout.
1055	-5.96 ^(SR)	15cm	Y	+8.97	+3.4	
SAMPLE DATA		Sample ID: <u>LDW23-SS1211</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>None (SR)</u> <u>anthropogenic debris on surface.</u>		
cobble	brown surface	none	H ₂ S			
gravel	drab olive	<u>slight</u>	<u>petroleum</u>			
sand (E M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW A005 MR Phase 1 Weather: partly cloudy, 40s
 Date: 1-4-2023 Tide Source: RTH
 Sampling Method: power grab Crew: SPR, AZ

GRAB DATA		Location ID: <u>SS1212</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198668.37</u>				Longitude/Easting (X): <u>1272010.26</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1025</u>	<u>-13.7</u>	<u>29 cm</u>	<u>Y</u>	<u>+8.69</u>	<u>-5.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1212 and LDW23-SS1212-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>woody debris</u> <u>organics (esp. at surface)</u> <u>gravel at surface</u>		
cobble	brown surface	none	H ₂ S			
gravel <u>Surface</u>	drab olive	<u>slight</u>	<u>petroleum</u>			
sand <u>(F) (M) (C) (H)</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOCs MR Ph 1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 40s, sun
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1213</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198744.37</u>				Longitude/Easting (X): <u>1272075.65</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0954</u>	<u>-26.5</u>	<u>28.0</u>	<u>Y</u>	<u>H2.18</u>	<u>-14.3</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1213</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PH1
Date: 1/5/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1214</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198815.59</u>				Longitude/Easting (X): <u>1272134.31</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1146</u>	<u>-29.8</u>	<u>24.0</u>	<u>Y</u>	<u>+9.55</u>	<u>-20.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1214</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>trace organic matter</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 / #: LOW AOC5 MR Ph I
 Date: 1/9/23
 Sampling Method: pinner grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1215</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198900.36</u>				Longitude/Easting (X): <u>1272209.42</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1024</u>	<u>-21.3</u>	<u>16.0</u>	<u>Y</u>	<u>+11.36</u>	<u>-9.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1215</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 ACCS MR Ph1
 Date: 1/19/23
 Sampling Method: power grab

Weather: 30s, clear
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1218</u>				
		On armored slope (Y/N)? <u>partially</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198940.77</u>					Longitude/Easting (X): <u>1272338.42</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0831</u>	<u>-6.1</u>	<u>—</u>	<u>N</u>	<u>+8.91</u>	<u>+2.8</u>	<u>no recovery</u>
<u>0834</u>	<u>-6.5</u>	<u><10.0</u>	<u>N</u>	<u>+8.91</u>	<u>+2.4</u>	<u>under-penetrated</u>
<u>0842</u>	<u>-5.8</u>	<u>11.0</u>	<u>Y</u>	<u>+8.91</u>	<u>+3.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1218</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>gravel</u>	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 / #: LOW AOC5 MR Ph 1
 Date: 1/20/23
 Sampling Method: power grab

Weather: 40s, sun
 Tide Source: RTK
 Crew: ICM, AZ

GRAB DATA		Location ID: <u>SS1219</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u> </u>			
Latitude/Northing (Y): <u>198548.73</u>				Longitude/Easting (X): <u>1272152.22</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1323</u>	<u>-17.9</u>	<u>18.0</u>	<u>Y</u>	<u>+10.67</u>	<u>-7.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1219</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shun, woody debris</u>		
cobble	<u>brown surface</u>	<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 / #: LOW AOC5 MR PH1
Date: 1/5/23
Sampling Method: power grab

Weather: 40S, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1220</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198616.53</u>				Longitude/Easting (X): <u>1272226.12</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1048</u>	<u>-23.8</u>	<u>31.0</u>	<u>Y</u>	<u>high.25</u>	<u>-14.6</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1220</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>trace organic matter</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 PL1
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1221</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198685.78</u>				Longitude/Easting (X): <u>1272285.3</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1030</u>	<u>-28.7</u>	<u>26.0</u>	<u>Y</u>	<u>+9.29</u>	<u>-19.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1221</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, worms, shells</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
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 / #: LOW AOLS MR PH 1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1222</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198766.15</u>				Longitude/Easting (X): <u>1272351.04</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1001</u>	<u>-25.2</u>	<u>15.0</u>	<u>Y</u>	<u>+11.70</u>	<u>-13.5</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1222</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand</u> (FVC)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
Date: 04.10.23
Sampling Method: hand collect

Weather: 40s, rain
Tide Source: RTK tide station
Crew: SR JD

GRAB DATA	Location ID: <u>SS1223</u>					
	On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>N/A</u>				
Latitude/Northing (Y): <u>hc</u>		Longitude/Easting (X): <u>hc</u>				
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1243</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	
SAMPLE DATA		Sample ID: <u>IDW23-SS1223</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S	<u>brick frag.</u> <u>concrete frag.</u> <u>tr. wood debris</u>		
<u>gravel</u>	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
silt	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 1.4.2023
 Sampling Method: power grab

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

GRAB DATA	Location ID: <u>SS122A</u>																										
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>																							
Latitude/Northing (Y): <u>198413.66</u>				Longitude/Easting (X): <u>1272298.76</u>																							
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments																					
<u>1007</u>	<u>-10.7</u>	<u>20 cm</u>	<u>Y</u>	<u>+8.68</u>	<u>-2.0</u>																						
<table border="1"> <tr> <td>SAMPLE DATA</td> <td colspan="6">Sample ID: <u>LDW23-SS1224</u></td> </tr> <tr> <td colspan="7">Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:</td> </tr> <tr> <td> Sediment type <input checked="" type="radio"/> cobble <input type="radio"/> gravel <input type="radio"/> sand (F/M/C) <input type="radio"/> silt <input type="radio"/> clay </td> <td> Sediment color brown surface drab olive <input checked="" type="radio"/> brown <input type="radio"/> gray black </td> <td> Sediment odor <input checked="" type="radio"/> none H₂S slight petroleum moderate other: strong </td> <td colspan="4"> Comments: <u>some gravel & 1 fist-sized cobble</u> <u>organic debris</u> </td> </tr> </table>							SAMPLE DATA	Sample ID: <u>LDW23-SS1224</u>						Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:							Sediment type <input checked="" type="radio"/> cobble <input type="radio"/> gravel <input type="radio"/> sand (F/M/C) <input type="radio"/> silt <input type="radio"/> clay	Sediment color brown surface drab olive <input checked="" type="radio"/> brown <input type="radio"/> gray black	Sediment odor <input checked="" type="radio"/> none H ₂ S slight petroleum moderate other: strong	Comments: <u>some gravel & 1 fist-sized cobble</u> <u>organic debris</u>			
SAMPLE DATA	Sample ID: <u>LDW23-SS1224</u>																										
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:																											
Sediment type <input checked="" type="radio"/> cobble <input type="radio"/> gravel <input type="radio"/> sand (F/M/C) <input type="radio"/> silt <input type="radio"/> clay	Sediment color brown surface drab olive <input checked="" type="radio"/> brown <input type="radio"/> gray black	Sediment odor <input checked="" type="radio"/> none H ₂ S slight petroleum moderate other: strong	Comments: <u>some gravel & 1 fist-sized cobble</u> <u>organic debris</u>																								



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLS MR Ph 1
Date: 1/5/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1225</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198495.48</u>				Longitude/Easting (X): <u>1272351.06</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1007</u>	<u>-23.5</u>	<u>27.0</u>	<u>Y</u>	<u>+9.40</u>	<u>-14.1</u>	<u>collected field dup</u>
SAMPLE DATA						
Sample ID: <u>LDW23-SS1225, LDW23-SS1225-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>organic matter</u>		
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLS MR PH1
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1226</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198538.46</u>					Longitude/Easting (X): <u>1272427.57</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0948</u>	<u>-28.9</u>	<u>—</u>	<u>N</u>	<u>+9.54</u>	<u>-19.4</u>	<u>pebbles didn't trigger</u>
<u>0951</u>	<u>-28.9</u>	<u>26.0</u>	<u>Y</u>	<u>+9.54</u>	<u>-19.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23 - SS1226</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, worms, shells</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 1.4.2023
 Sampling Method: power grab

Weather: overcast, 40s, breezy
 Tide Source: RTK
 Crew: SR, AZ

GRAB DATA		Location ID: <u>SS1228</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198648.78</u>				Longitude/Easting (X): <u>1272475.46</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1507</u>	<u>-23.7</u>	<u>18cm</u>	<u>Y</u>	<u>+16.33</u>	<u>-13.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1228</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>trace organics</u> <u>trace shell fragments.</u>		
gravel	drab olive	slight	petroleum			
sand (F/M/C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 1.4.2023
 Sampling Method: power grab

Weather: overcast, 40s, breezy
 Tide Source: RTH
 Crew: SR, AZ

GRAB DATA		Location ID: <u>SS1229</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>198704.72</u>				Longitude/Easting (X): <u>1272480.54</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1450</u>	<u>-15.6</u>	<u>17cm</u>	<u>Y</u>	<u>+10.4</u>	<u>-5.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23 - SS1229</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>larger cobble rock on surface</u> <u>shell fragments.</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u> <u>smaller</u>	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: SP12 1.4.2023
 Sampling Method: priver grab

Weather: overcast, 40s, breezy
 Tide Source: FTK
 Crew: SR, AZ

GRAB DATA	Location ID: <u>SS1230</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>SP12 198596.49</u>				Longitude/Easting (X): <u>1272465.37</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1430</u>	<u>-30.3</u>	<u>24cm</u>	<u>Y</u>	<u>+10.53</u>	<u>-19.8</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1230</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>trace organics / leaves on surface</u> <u>trace gravel</u>		
<u>gravel</u>	drab olive	slight	petroleum			
sand (F) (M) (C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ACCS HR Phase 1
 Date: 04.10.23
 Sampling Method: hand collect

Weather: PT: 40s, rain
 Tide Source: PTC tide station
 Crew: SR TD

GRAB DATA		Location ID: <u>SS1231</u>		Depth of overlying sediment, if known (cm) <u>N/A</u>		
		On armored slope (Y/N)? <u>N</u>		Longitude/Easting (X): <u>W</u>		
Latitude/Northing (Y): <u>W</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>8</u>	<u>10.0</u>	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>Gravel/briars/cobble at surface (less than at 1233)</u>
SAMPLE DATA		Sample ID: <u>WDJ23-SS1231</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	petroleum			
sand (F/M/C)	<u>brown</u>	<u>moderate</u>	other:			
silt	<u>gray</u>	<u>strong</u>				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ADCS Ph1 MR
Date: 1/3/23
Sampling Method: power grab

Weather: 40s, cloudy
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: ^{KM} SS1219 <u>SS1232</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198645.59</u>				Longitude/Easting (X): <u>1272634.46</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1450</u>	<u>-12.4</u>	<u>24.0</u>	<u>Y</u>	<u>+9.98</u>	<u>-2.42^{KM}</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1232</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			
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 / #: AOC5 NR Phase 1
Date: 04.10.23
Sampling Method: hand collect

Weather: 40s, rain
Tide Source: RTK tide station
Crew: SR, TD

GRAB DATA	Location ID: <u>SS 1233</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>hc</u>				Longitude/Easting (X): <u>hc</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1315</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>N/A</u>	<u>N/A</u>	<u>Lots of bricks at surface.</u>
SAMPLE DATA						
Sample ID: <u>LDW 23 - SS 1233</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S	<u>glass</u> <u>brick frag.</u>		
<u>gravel</u>	drab olive	slight	petroleum			
sand (F, M, C)	<u>brown</u>	moderate	other:			
<u>silt</u> <u>W</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDN AOC.5 MR Phase 1
Date: 1.4.2023
Sampling Method: power grab

Weather: partly cloudy, 46
Tide Source: RTK
Crew: SR, AZ

GRAB DATA	Location ID: <u>SS1235</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198276.75</u>				Longitude/Easting (X): <u>1272447.62</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0950</u>	<u>-7.9</u>	<u>25 cm</u>	<u>Y</u>	<u>+8.66</u>	<u>+0.8</u>	
SAMPLE DATA						
Sample ID: <u>LDN23-SS1235</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>Woody debris</u>		
gravel	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 / #: ADCS MR Phase I
Date: 02.08.23
Sampling Method: power grab

Weather: 40s, overcast
Tide Source: RTK tide station
Crew: TD, EP, RB

GRAB DATA	Location ID: <u>SS1236</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>198354.68</u>			Longitude/Easting (X): <u>1272519.66</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1128</u>	<u>-10.6</u>	<u>27.0</u>	<u>Y</u>	<u>16.14</u>	<u>-12.5</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1236</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>wood debris, worms to shell frag, RPD not visible.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
sand (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: ADCS MR Phase I
Date: 02.08.23
Sampling Method: power grab

Weather: 40S, sun
Tide Source: RTK tide station
Crew: ID, EP, RB

GRAB DATA	Location ID: <u>SS1237</u>					
	On armored slope (Y/N)? <u>(Y)</u>			Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>198262.52</u>			Longitude/Easting (X): <u>1272554.09</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1152</u>	<u>-14.40</u>	<u>26.0</u>	<u>Y</u>	<u>+5.45</u>	<u>-9.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1237</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>worms, tr. org material</u> <u>shell frags.</u> <u>RPD not visible</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR PH1
 Date: 1/23/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1238</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>198939.45</u>				Longitude/Easting (X): <u>1272558.93</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1135</u>	<u>-24.1</u>	<u>24.0</u>	<u>Y</u>	<u>16.09</u>	<u>-18.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1238</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, drk</u> <u>wood debris,</u> <u>shell fragments</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR Ph1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 40S, Sun
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1239</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198497.79</u>				Longitude/Easting (X): <u>1272648.43</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0935</u>	<u>-30.1</u>	<u>26.0</u>	<u>Y</u>	<u>+12.44</u>	<u>-17.7</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1239</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<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 1

Weather: cloudy, 40s, breezy

Date: 1-4-2023

Tide Source: RTK

Sampling Method: power grab

Crew: SR, AZ

GRAB DATA	Location ID: <u>SS1240</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198546.76</u>				Longitude/Easting (X): <u>1272616.58</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1407</u>	<u>-24.8</u>	<u>27cm</u>	<u>Y</u>	<u>+10.46</u>	<u>-14.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1240</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>organic debris (including leaves) on surface</u>		
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ADCS MR Ph 1
 Date: 1/6/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AB

GRAB DATA		Location ID: <u>SS1242</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198542.32</u>				Longitude/Easting (X): <u>1272739.99</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1036</u>	<u>-21.7</u>	<u>>33.0</u>	<u>N</u>	<u>+8.76</u>	<u>-12.9</u>	<u>over-penetrated</u>
<u>1040</u>	<u>-21.9</u>	<u>>33.0</u>	<u>N</u>	<u>18.76</u>	<u>-13.1</u>	<u>over-penetrated</u>
<u>1104</u>	<u>-23.7</u>	<u>26.0</u>	<u>Y</u>	<u>+8.63</u>	<u>-15.1</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1242</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (F/M/C)</u>	<u>brown</u> <u>KM</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MP PH 1
Date: 1/6/23
Sampling Method: power grab

Weather: 40s, sunny
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1243</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198598.65</u> <u>198599.28</u> km			Longitude/Easting (X): <u>1272738.81</u> <u>1272739.34</u> km			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1008</u>	<u>-19.6</u>	<u>733.0</u>	<u>N</u>	<u>+9.14</u>	<u>-10.5</u>	<u>over-penetrated</u>
<u>1024</u>	<u>-19.2</u>	<u>29.0</u>	<u>Y</u>	<u>+8.93</u>	<u>-10.3</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1243</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (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 / #: LOW ACOS MR PH 1
 Date: 12/8/22
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1245</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198603.69</u>				Longitude/Easting (X): <u>1272809.51</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1114</u>	<u>-17.5</u>	<u>29.0</u>	<u>Y</u>	<u>+8.26</u>	<u>-9.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1245</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			
gravel	drab olive	slight	petroleum			
<u>sand</u> (M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph 1
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: KIK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1247</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>198173.45</u>				Longitude/Easting (X): <u>1272667.12</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0915</u>	<u>-21.4</u>	<u>30.0</u>	<u>Y</u>	<u>+9.87</u>	<u>-11.5</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1247, LDW23-SS1247-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shells</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Ph1
Date: 1/10/23
Sampling Method: pinner grab

Weather: 40s, SUN
Tide Source: RTK
Crew: KM, AZ

GRAB DATA	Location ID: <u>SS1248</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198294.89</u>			Longitude/Easting (X): <u>1272747.44</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0920</u>	<u>-30.7</u>	<u>24.0</u>	<u>Y</u>	<u>+12.63</u>	<u>-18.1</u> <u>-19.3</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1248</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>trace organic matter</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 / #: LOW AOC5 MR Ph1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 90s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1279</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198375.25</u>				Longitude/Easting (X): <u>1272805.82</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0935</u>	<u>-26.3</u>	<u><10.0</u>	<u>N</u>	<u>+12.25</u>	<u>-14.1</u>	<u>under-penetrated</u>
<u>0941</u>	<u>-26.4</u>	<u>18.0</u>	<u>Y</u>	<u>+12.25</u>	<u>-14.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1279</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<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>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR PH1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1278^{km} SS1250</u>				
		On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>	
Latitude/Northing (Y): <u>198437.35</u>				Longitude/Easting (X): <u>1272866.23</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0914</u>	<u>-25.6</u>	<u>20.0</u>	<u>Y</u>	<u>+12.78</u>	<u>-12.8</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1250</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand (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 A005 MR Phase I
Date: 1-4-2023
Sampling Method: power grab

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

GRAB DATA	Location ID: <u>SS1251</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198478.24</u>				Longitude/Easting (X): <u>1272779.98</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>-25.5</u>	<u>27 cm</u>	<u>Y</u>	<u>+10.42</u>	<u>-15.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1251</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 ₂ S	<u>trace gravel</u>		
gravel	drab olive	<u>slight</u>	<u>petroleum</u>			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOLS Phase 1 MK

Weather: 40s, rain

Date: 12/8/22

Tide Source: RTK

Sampling Method: power grab

Crew: KM, CC

GRAB DATA		Location ID: <u>SS1253</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198639.81</u>					Longitude/Easting (X): <u>1272981.34</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0803</u>	<u>-23.6</u>	<u>—</u>	<u>N</u>	<u>+11.41</u>	<u>-12.2</u>	<u>over penetrated</u>
<u>0806</u>	<u>-23.6</u>	<u>—</u>	<u>N</u>	<u>+11.41</u>	<u>-12.2</u>	<u>over penetrated</u>
<u>0816</u>	<u>-23.6</u>	<u>19.0</u>	<u>Y</u>	<u>+11.15</u>	<u>-12.95</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1253</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			
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 / #: LOW ACES Phase 1 MR Weather: 40s, drizzle
Date: 12/8/22 Tide Source: ATK
Sampling Method: power grab Crew: KM, CC

GRAB DATA	Location ID: <u>SS1254</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198573.29</u>				Longitude/Easting (X): <u>1272914.64</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0836</u>	<u>-24.4</u>	<u>—</u>	<u>N</u>	<u>+10.91</u>	<u>-13.5</u>	<u>over penetrated</u>
<u>0839</u>	<u>-24.4</u>	<u>23.0</u>	<u>Y</u>	<u>+10.91</u>	<u>-13.5</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1254</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>Small amount of organic matter</u>		
gravel	drab olive	slight	petroleum			
<u>sand</u> (M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 Ph. 1 MR
 Date: 12/8/22
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1255</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>198540.89</u>				Longitude/Easting (X): <u>1272881.38</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0857</u>	<u>-24.4</u>	<u>21.0</u>	<u>Y</u>	<u>+10.59</u>	<u>-13.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1255</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			
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 / #: LOW AOC5 MR Ph.1
 Date: 12/8/22
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1257</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>19 8702.29</u>				Longitude/Easting (X): <u>1273053.59</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0916</u>	<u>-21.8</u>	<u>24.0</u>	<u>Y</u>	<u>+ 9.96</u>	<u>-11.8</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1257</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			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Ph.1
Date: 12/8/22
Sampling Method: pilzer grab

Weather: 40s, rain
Tide Source: RTK
Crew: KM, CC

GRAB DATA	Location ID: <u>SS1258</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198770.15</u>				Longitude/Easting (X): <u>1273120.40</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0935</u>	<u>-21.1</u>	<u>14.0</u>	<u>Y</u>	<u>+9.66</u>	<u>-11.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1258</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			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR Ph I
 Date: 12/8/22
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: KTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1259</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198 696.13</u>				Longitude/Easting (X): <u>1273146.23</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0954</u>	<u>-20.6</u>	<u>26.0</u>	<u>Y</u>	<u>+9.33</u>	<u>-10.7</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1259</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			
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 Ph. 1

Weather: 40s, rain

Date: 12/8/22

Tide Source: RTK

Sampling Method: power grab

Crew: KM, CC

GRAB DATA	Location ID: <u>SS1260</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>19 86 32.23</u>				Longitude/Easting (X): <u>127 3064.22</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1012</u>	<u>-20.4</u>	<u>24.0</u>	<u>Y</u>	<u>+9.02</u>	<u>-11.4</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1260</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			
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 ACES MR Ph. 1
 Date: 12/8/22
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1262</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198829.42</u>				Longitude/Easting (X): <u>127 3229.85</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1032</u>	<u>-18.8</u>	<u>—</u>	<u>N</u>	<u>+8.53</u>	<u>-10.3</u>	<u>under penetrated</u>
<u>1036</u>	<u>-18.8</u>	<u>280</u>	<u>Y</u>	<u>18.53</u>	<u>-10.3</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1262</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			
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 / #: LOW AOC5 MR PH 1
 Date: 12/8/22
 Sampling Method: power grab

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1263</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198869.24</u>				Longitude/Easting (X): <u>1273194.16</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1054</u>	<u>-17.8</u>	<u>270</u>	<u>Y</u>	<u>+8.33</u>	<u>-9.5</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1263</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			
gravel	drab olive	slight	petroleum			
<u>sand (F/M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 1.4.2023
 Sampling Method: power grab

Weather: 40s, clear
 Tide Source: 12TH
 Crew: S12, A2

GRAB DATA		Location ID: <u>SS1264</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>197990.63</u>				Longitude/Easting (X): <u>1272748.98</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0830</u>	<u>-10.9</u>	<u>0cm</u>	<u>N</u>	<u>+9.27</u>	<u>-1.6</u>	
<u>0832</u>	<u>-10.7</u>	<u>45cm</u>	<u>N</u>	<u>+9.27</u>	<u>-1.4</u>	
<u>0840</u>	<u>-11.5</u>	<u>25cm</u>	<u>Y</u>	<u>+9.27</u>	<u>-2.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1264</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Some plant / organic debris</u> <u>log bark in grab.</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	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 / #: LDW AOC S Ph1 MR
 Date: 1/5/23
 Sampling Method: pinner grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1265</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198084.45</u>				Longitude/Easting (X): <u>1272813.85</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0857</u>	<u>-25.7</u>	<u>27.0</u>	<u>Y</u>	<u>+10.36</u>	<u>-15.3</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1265, LDW23-SS1265-FD</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOC5 MR PH1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 90s, sun
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1266</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198149.25</u>				Longitude/Easting (X): <u>1272874.0</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0904</u>	<u>-31.3</u>	<u>25.0</u>	<u>Y</u>	<u>+12.79</u>	<u>-18.5</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1266</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 A005 MR Phase 1
 Date: 1-4-2023
 Sampling Method: power grab

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

GRAB DATA		Location ID: <u>SS1267</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198124.95</u>					Longitude/Easting (X): <u>1272926.11</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1255</u>	<u>-28.0</u>	<u>21 cm</u>	<u>Y</u>	<u>+10.17</u>	<u>-17.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1267 and LDW23-SS1267-FD</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>trace gravels</u> <u>shells/shell fragments</u> <u>live cockel, hermet crab,</u> <u>and snails</u>		
<u>gravel</u> <u>trace</u>	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase I Weather: 40s, clear
 Date: 1.4.2023 Tide Source: RTH
 Sampling Method: power grab Crew: SR, AZ

GRAB DATA		Location ID: <u>SS1269</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>197915.02</u>				Longitude/Easting (X): <u>1272814.49</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0852</u>	<u>-9.6</u>	<u>45cm</u>	<u>N</u>	<u>—</u>	<u>—</u>	
<u>0855</u>	<u>-10.7</u>	<u>20cm</u>	<u>Y</u>	<u>+8.87</u>	<u>-1.8</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1269</u> (<u>1 split for Silver Bay</u>)				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type		Sediment color		Sediment odor		Comments: <u>*Organic debris present</u>
cobble		brown surface		<u>none</u> H ₂ S		
<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 / #: LOWAOC5 PH1 MR
 Date: 1/5/23
 Sampling Method: power grab

Weather: 40s, Cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1270</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>197947.02</u>				Longitude/Easting (X): <u>1272958.6</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>km 2 0835</u>	<u>-25.4</u>	<u>24.0</u>	<u>Y</u>	<u>+10.58</u>	<u>-14.8</u>	<u>collected field dup</u>
SAMPLE DATA		Sample ID: <u>LOW23-SS1270, LOW23-SS1270-F0</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Organic Matter, Woody debris on surface</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW HCCS MR PH 1
 Date: 1/10/23
 Sampling Method: power grab

Weather: 40s, clear
 Tide Source: RTK
 Crew: KM, AE

GRAB DATA		Location ID: <u>SS1271</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198021.68</u>				Longitude/Easting (X): <u>1273027.12</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0843</u>	<u>-30.6</u>	<u>23.0</u>	<u>Y</u>	<u>+13.11</u>	<u>-17.5</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1271</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments</u>		
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1 Weather: partly cloudy, 40s
Date: 1-4-2023 Tide Source: RTK
Sampling Method: power grab Crew: SJR, AZ

GRAB DATA	Location ID: <u>SS1272</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>197739.16</u>				Longitude/Easting (X): <u>1273042.62</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0925</u>	<u>-9.9</u>	<u>20 cm</u>	<u>Y</u>	<u>+8.81</u>	<u>-1.1</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1272</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>large pieces of glass in grab</u> <u>changes to red material at</u> <u>~ 10 cm & deeper</u> <u>other anthropogenic debris</u> <u>in grab as well.</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	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 / #: LDW AOC5 Phase I MR Weather: overcast, 40s
Date: 1.4.2023 Tide Source: RTH
Sampling Method: power grab Crew: SR, AZ

GRAB DATA	Location ID: <u>SS1273</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>197783.74</u>				Longitude/Easting (X): <u>1273060.05</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1333</u>	<u>-15.6</u>	<u>25 cm</u>	<u>Y</u>	<u>+10.34</u>	<u>-5.3</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1273</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	<u>H₂S</u>	<u>trace organics</u> <u>glass fragment</u>		
gravel	drab olive	<u>slight</u>	petroleum			
sand (F) (M) (C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW ACC5 MR Phase I Weather: overcast, 40s
Date: 1.4.2023 Tide Source: P.T.H.
Sampling Method: power grab Crew: SR, A2

GRAB DATA	Location ID: <u>SS1274</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>197709.16</u>			Longitude/Easting (X): <u>1273137.27</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1320</u>	<u>-14.4</u>	<u>21 cm</u>	<u>Y</u>	<u>+10.2</u>	<u>-4.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1274</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organics and waxy debris</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	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 / #: LIDW A005 MR Phase 1 Weather: clear, 40s
 Date: 1.4.202 Tide Source: RTK
 Sampling Method: pump grab Crew: SR, A2

GRAB DATA		Location ID: <u>SS1275</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>197789.96</u>				Longitude/Easting (X): <u>1272957.75</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0910</u>	<u>-8.1</u>	<u>13cm</u>	<u>Y</u>	<u>+8.81</u>	<u>+0.7</u>	
SAMPLE DATA		Sample ID: <u>LIDW-23-SS1275</u> (<u>2 split for Silver Bay</u>)				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris</u> <u>trace gravel (at surface)</u> <u>brown/red and black patches of sediment</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<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 / #: LDW AOC5 PH1 MR
 Date: 1/25/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1276</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>197508.26</u>				Longitude/Easting (X): <u>1273108.17</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0815</u>	<u>-26.3</u>	<u>25.0</u>	<u>Y</u>	<u>+10.90</u>	<u>-15.4</u>	<u>collected field dip.</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1276, LDW23-SS1276-F0</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 AOLS MR Ph I
 Date: 1/10/23
 Sampling Method: plastic grab

Weather: yes, cloudy
 Tide Source: RTK
 Crew: KM, AE

GRAB DATA		Location ID: <u>SS1277</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u> </u>			
Latitude/Northing (Y): <u>197884.82</u> <u>SS1277</u>			Longitude/Easting (X): <u>1273176.94</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0824</u>	<u>-31.6</u>	<u>24.0</u>	<u>Y</u>	<u>+13.21</u>	<u>-18.4</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1277</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Woody debris, trash, organic matter</u> <u>Note: field photos incorrectly show the date as 1/9/23 instead of 1/10/23</u>		
cobble	<u>brown surface</u>	none	<u>H₂S</u>			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	<u>moderate</u>	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Phase I
 Date: 1/17/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1278</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>198604.11</u>				Longitude/Easting (X): <u>1272846.47</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0810</u>	<u>-18.6</u>	<u>28.0</u>	<u>Y</u>	<u>+9.37</u>	<u>-9.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1278</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F/M/C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOLS MR PH I
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1279</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198660.78</u>				Longitude/Easting (X): <u>1272976.21</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0856</u>	<u>-23.5</u>	<u>21.0</u>	<u>Y</u>	<u>+12.95</u>	<u>-10.6</u>	
SAMPLE DATA		Sample ID: <u>LOW23--SS1279</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic matter</u>		
cobble	<u>brown surface</u>	<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>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR PA1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1280</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>198602.72</u>				Longitude/Easting (X): <u>1273023.24</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0837</u>	<u>-25.3</u>	<u>20.0</u>	<u>Y</u>	<u>+13.07</u>	<u>-12.2</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1280</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>none</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOCs MR Ph 1
 Date: 1/9/23
 Sampling Method: power grab

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, AZ

GRAB DATA		Location ID: <u>SS1281</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>198891.0</u>					Longitude/Easting (X): <u>1273260.32</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0814</u>	<u>-23.4</u>	<u>10.0 16.0</u>	<u>N</u>	<u>+13.39</u>	<u>-10.08m</u>	<u>under-penetrated</u>
<u>0819</u>	<u>-23.5</u>	<u>16.0</u>	<u>Y</u>	<u>+13.24</u>	<u>-10.3</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1281</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, shells, slight sheen</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
<u>gravel</u>	drab olive	<u>slight</u>	<u>petroleum</u>			
<u>sand (F M C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase 1
 Date: 04.29.23
 Sampling Method: diver hand collected

Weather: WDS, sunny
 Tide Source: RTK tide station
 Crew: TD, LUB, BP

GRAB DATA		Location ID: <u>SS1800</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>N/A</u>			
Latitude/Northing (Y): <u>diver</u>		Longitude/Easting (X): <u>diver</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>-23</u>	<u>10.0</u>	<u>Y</u>	<u>+5.85</u>	<u>-17.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1800</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>worms, worm tubes, shell</u> <u>frag, org. debris.</u> <u>collected sample at 30 ft</u> <u>along transect.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LPW AOC5 MR Phase 1
Date: 4/12/23
Sampling Method: diver/hand collected

Weather: 40s, partly sunny
Tide Source: RTK
Crew: KM, LVB

GRAB DATA		Location ID: <u>SS1801</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>diver</u>			Longitude/Easting (X): <u>diver</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0956</u>	<u>-23</u>	<u>10.0</u>	<u>Y</u>	<u>+9.48</u>	<u>-13.5</u>	
SAMPLE DATA		Sample ID: <u>LPW23-SS1801</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shells, worms, organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>trace</u> <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 MK Phase 1
Date: 4/12/23
Sampling Method: diver / hand collection

Weather: 90s, sunny
Tide Source: RTK
Crew: KM, LVB

GRAB DATA	Location ID: <u>SS1802</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1503</u>	<u>-12</u>	<u>10</u>	<u>Y</u>	<u>+0.05</u>	<u>-12.0</u>	
SAMPLE DATA						
Sample ID: <u>LDW23-SS1802</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>Worms, organic matter</u>		
gravel	<u>drab-olive</u>	slight	petroleum			
<u>trace</u> sand (F/M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOC5 MR Phase 1

Weather: partly cloudy, 50s

Date: April 5, 2023

Tide Source: RTK

Sampling Method: diver / hand collected

Crew: SR, LVB

GRAB DATA		Location ID: <u>SS1803</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1605</u>	<u>-19</u>	<u>10cm</u>	<u>Y</u>	<u>+6.35</u>	<u>-12.7</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1803</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>abundant worms</u> <u>Shell fragments (less than at 1804)</u> <u>Some organic fibers (trace)</u>		
gravel	<u>drab olive</u>	slight	petroleum			
sand (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 1
 Date: 4.5.2023
 Sampling Method: diver / hand collected

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

GRAB DATA		Location ID: <u>SS1804</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1145</u>	<u>-14</u>	<u>10cm</u>	<u>Y</u>	<u>+1.79</u>	<u>-12.2</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1804</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell hash / barnacles on surface</u> <u>abundant worms</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	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 / #: MOCS MR Phase 1
 Date: 04.28.23
 Sampling Method: diver hand-collect

Weather: 70°, sunny
 Tide Source: RTK tide station
 Crew: TD, LVB, TD

GRAB DATA		Location ID: <u>SS1805</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1615</u>	<u>-16</u>	<u>10.0</u>	<u>Y</u>	<u>+2.83</u>	<u>-13.2</u>	
SAMPLE DATA		Sample ID: <u>LDL23-SS1805</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell frag, worms, RPD not visible.</u> <u>sample collected at 30 ft along transect.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
sand (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: PDOS MR Phase 1
Date: 04.11.23
Sampling Method: hand collected

Weather: 40s, sun
Tide Source: RTK tide station
Crew: SE TD

GRAB DATA		Location ID: <u>SS1806</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>LC</u>				Longitude/Easting (X): <u>LC</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1022</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Under-structure sample (Samsen)</u>
SAMPLE DATA		Sample ID: <u>WDW23-SS1806</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</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 / #: AOC5 FIRE Phase 1
 Date: 04.11.23
 Sampling Method: hand collected

Weather: 40s, sun
 Tide Source: RTK tide station
 Crew: SP, TD

GRAB DATA		Location ID: <u>SS1807</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>W</u>				Longitude/Easting (X): <u>WC</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1505</u>	<u>0</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	<u>Under-structure sample (muckshoot)</u>
SAMPLE DATA		Sample ID: <u>LDW23-SS1807</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible.</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
<u>gravel</u>	drab olive	slight	petroleum			
sand (F M C)	<u>brown</u>	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AUCS MR PH 1

Weather: 40s, cloudy

Date: 3/3/23

Tide Source: RTK

Sampling Method: diver / hand collected

Crew: KM, SR

GRAB DATA	Location ID: <u>SS1808</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>NA</u> <u>diver</u>			Longitude/Easting (X): <u>NA</u> <u>diver</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1325</u>	<u>-16.0</u>	<u>10.0</u>	<u>Y</u>	<u>+7.44</u>	<u>-8.1</u>	<u>collected 15ft from p.e. face along transect 1</u>
SAMPLE DATA						
Sample ID: <u>LOW23-SS1808</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>diver-collected</u> <u>mussels & shells, wood debris,</u> <u>trace leafy debris</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>trace sand (EM C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AOCs MR Phase 1
 Date: 3/30/23
 Sampling Method: diver / hand collected

Weather: SDs, mostly cloudy
 Tide Source: RTK
 Crew: KM, LUB

GRAB DATA		Location ID: <u>SS1809</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>DNW</u>				Longitude/Easting (X): <u>DNW</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1430</u>	<u>-15</u>	<u>10</u>	<u>Y</u>	<u>+6.22</u>	<u>-8.8</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1809</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>Worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (FIM C)</u>	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW ACS IUR Phase 1

Weather: ^{40s} 63s, mostly cloudy

Date: 2/13/23 3/30/23

Tide Source: RTK

Sampling Method: direct / hand collection

Crew: KM, LVB

GRAB DATA	Location ID: <u>1810</u>		Depth of overlying sediment, if known (cm): <u>—</u>			
	On armored slope (Y/N)? <u>N</u>					
Latitude/Northing (M): <u>dner</u>			Longitude/Easting (X): <u>dner</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1036</u>	<u>-16.0</u>	<u>10</u>	<u>Y</u>	<u>+7.41</u>	<u>-8.6</u>	<u>collected @ 10ft along Transect 2</u>
SAMPLE DATA						
Sample ID: <u>LOW23-551810</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>worms, shell fragments</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 / #: ADCS MR Phase I
 Date: 04.28.23
 Sampling Method: diver hand-collect

Weather: SDS, sunny
 Tide Source: RTK tide station
 Crew: TD, LVB, EP

GRAB DATA		Location ID: <u>SS1811</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
Latitude/Northing (Y): <u>diver</u>					Longitude/Easting (X): <u>diver</u>	
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
1038	-12	100	Y	+6.57	+5.43	
SAMPLE DATA		Sample ID: <u>LDW23-SS1811</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shell frag, worm tubes, RPD not visible.</u> <u>collected sample along 15' marker of transect.</u>		
cobble	<u>brown surface</u>	<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 / #: LDN AOLS MR Phase 1
 Date: 4/3/23
 Sampling Method: diver/hand collected

Weather: 40s, cloudy, rain
 Tide Source: RK
 Crew: KM, LVB

GRAB DATA		Location ID: <u>SS1812</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y):				Longitude/Easting (X):		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0925</u>	<u>-8.0</u>	<u>10</u>	<u>Y</u>	<u>+5.50</u>	<u>-2.1 -2.5</u>	
SAMPLE DATA		Sample ID: <u>LDN23-SS1812</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>shells on surface,</u> <u>worms, concrete pieces</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOCs MR Phase 1
 Date: 4/3/23
 Sampling Method: diver / hand collected

Weather: 40s, cloudy
 Tide Source: KTK
 Crew: KM, LVB

GRAB DATA		Location ID: <u>SS1813</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1325</u>	<u>-8.0</u>	<u>10</u>	<u>Y</u>	<u>+6.08</u>	<u>-1.9</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1813</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>slight sheen, rocks, organic matter</u>		
cobble	<u>brown surface</u>	none	H ₂ S			
<u>gravel</u>	drab olive	<u>slight</u>	<u>petroleum</u>			
<u>sand</u> <u>FOC</u>	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOC5 MR Phase I
Date: 05/08/23
Sampling Method: hand collect

Weather: 50s sunny
Tide Source: PTK tide station
Crew: TD, SR, ES

GRAB DATA		Location ID: <u>SS1814</u>		Depth of overlying sediment, if known (cm): <u>NA</u>		
		On armored slope (Y/N)? <u>N</u>				
Latitude/Northing (Y): <u>hand collect</u>				Longitude/Easting (X): <u>hand collect</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1220</u>	<u>NA</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1814</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not usable to any material.</u>		
cobble	brown surface	<u>(none)</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (FIMC)	<u>(brown)</u>	moderate	other:			
silt	gray	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: AOIS MR Phase I
Date: 05.08.23
Sampling Method: hand collect

Weather: 60s, sunny
Tide Source: RTK tide station
Crew: TD, SR, ES

GRAB DATA		Location ID: <u>SS1B15</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>NA</u>			
Latitude/Northing (Y): <u>hand collect</u>			Longitude/Easting (X): <u>hand collect</u>			
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1320</u>	<u>NA</u>	<u>10.0</u>	<u>Y</u>	<u>NA</u>	<u>NA</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1B15</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible shell hash</u>		
cobble	brown surface	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F) M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDN AGCS MR Phase 1
 Date: 3/31/23
 Sampling Method: hand/diver collection

Weather: 40s, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1816</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u> </u>		
Latitude/Northing (Y): <u>dwer</u>				Longitude/Easting (X): <u>dwer</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>0910</u>	<u>-12.0</u>	<u>10</u>	<u>Y</u>	<u>+668</u>	<u>-5.3</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1816</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u> </u>						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic debris, small sticks</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
<u>sand (E/M C)</u>	<u>brown</u> <u>1cm</u>	moderate	other: <u> </u>			
<u>silt</u>	<u>gray</u>	strong				
clay	black					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LDW AOC5 MR Phase 1
 Date: 3/31/23
 Sampling Method: diver / hand collected

Weather: 40S, rain
 Tide Source: RTK
 Crew: KM, CC

GRAB DATA		Location ID: <u>SS1817</u>				
		On armored slope (Y/N)? <u>N</u>	Depth of overlying sediment, if known (cm): <u>—</u>			
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1235</u>	<u>-12</u>	<u>10 cm</u>	<u>N</u>	<u>+7.26</u>	<u>-4.7</u>	<u>grab sampler not fully closed</u>
<u>1335</u>	<u>-12</u>	<u>10 cm</u>	<u>Y</u>	<u>+7.48</u>	<u>-4.5</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1817</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic debris, worms</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	<u>drab olive</u>	slight	petroleum			
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	<u>black</u>					



SURFACE SEDIMENT COLLECTION FORM

Project Name / #: LOW AHS MR Phase 1
 Date: 4/4/23
 Sampling Method: diver / hand collected

Weather: 40s, cloudy
 Tide Source: RTK
 Crew: KM, LJB

GRAB DATA		Location ID: <u>SS1818</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>—</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1002</u>	<u>-9.0</u>	<u>10</u>	<u>Y</u>	<u>+3.86</u>	<u>-5.1</u>	
SAMPLE DATA		Sample ID: <u>LOW23-SS1818</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter (trace), pockets of orange</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: LOW AOLS MR Phase 1
Date: 4/4/23
Sampling Method: diver/hand collected

Weather: 40s, cloudy
Tide Source: KTK
Crew: KM, LVB

GRAB DATA	Location ID: <u>SS1819</u>					
	On armored slope (Y/N)? <u>N</u>			Depth of overlying sediment, if known (cm): <u>-</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1252</u>	<u>-10</u>	<u>10</u>	<u>Y</u>	<u>+3.99</u>	<u>-6.0</u>	
SAMPLE DATA						
Sample ID: <u>LOW23-SS1819</u>						
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
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 / #: ADCS MR Phase 1
 Date: 04.29.23
 Sampling Method: diver hand-collected.

Weather: hi 60s, sunny
 Tide Source: RTK tide station
 Crew: TD, LUB, EP

GRAB DATA		Location ID: <u>SS1020</u>				
		On armored slope (Y/N)? <u>N</u>		Depth of overlying sediment, if known (cm): <u>N/A</u>		
Latitude/Northing (Y): <u>diver</u>				Longitude/Easting (X): <u>diver</u>		
Grab time	Water depth (ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Tide Level (ft)	Mudline elevation (ft MLLW)	Comments
<u>1400</u>	<u>-6</u>	<u>10.0</u>	<u>Y</u>	<u>+7.02</u>	<u>+1.0</u>	
SAMPLE DATA		Sample ID: <u>LDW23-SS1020</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>org. debris, tr. wood/sticks &</u> <u>tr. shell frag.</u>		
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S			
gravel	drab olive	slight	petroleum			
sand (F M C)	brown	moderate	other:			
<u>silt</u>	<u>gray</u>	strong				
clay	black					