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MOTHER NATURE®

SINCE 1916



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this product are recyclable

— *Rite in the Rain* —

A patented, environmentally
responsible, all-weather writing paper
that sheds water and enables you to
write anywhere, in any weather.

Using a pencil or all-weather pen,
Rite in the Rain ensures that your
notes survive the rigors of the field,
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Made in the USA
US Pat No. 6,863,940



LDW AGCS MR
Phase II



Rite in the Rain

ALL-WEATHER

LEVEL

No 311FX

coring vessel
5/13/24 - 6/26/24
Book 1/3

2 5/13/24

K. McPeck

- 0635 Arrive Harbor Island Marina, meet
Crew, ready supplies
Weather: Ss, overcast
Crew: Kate McPeck } Windward
 Suzanne Replinger }
 Ed Sloan }
 Pete Jenkins } Gravity
 Kyle Sanders }
0700 H&S meeting, conduct verbal covid screen
0725 Prep for sampling
0745 Depart marina, head to PacPile
0812 Arrive 1509
0836 Attempt 1 @ SC1509
 11.5 ft recovery / 11.5 ft drive
 100%, accepted
0858 Head to 1511, wait for ship traffic,
 anchor
0956 Attempt 1 @ SC1511
 10.1 ft recovery / 12.0 ft drive
 84.2%, accepted
 Shoal = 0 ft (@ -20.0 ft MLLW)
1020 Head to processing area
1030 Arrive boat ramp
1050 Depart boat ramp, head to 1515,
 anchor

K. McPeck

5/13/24

K. McPeck

- 1121 Attempt 1 @ SC1515
 7.20 ft recovery / 14.0 ft drive
 51.4%, rejected
1202 Attempt 2 @ SC1515
 11.3 ft recovery / 14.0 ft drive
 80.7%, accepted
 Shoal: -17.9 ft to -20.0 ft = 2.1 ft
1240 Head to 1524, anchor
1300 Attempt 1 @ IT1524
 rejected due to hydraulic problem
 with boat
1330 Stand down during boat repair
1455 Depart for 1390
1500 Arrive 1390
1501 Attempt 1 @ SC1390
 11.5 ft recovery / 11.5 ft drive
 100%, accepted
1535 Head to boat ramp
1550 Depart boat ramp for Marina
1600 Arrive marina, off-water

Rite in the Rain

4 5/14/24

K. McPeak

- 0700 Arrive Harbor Island Marina, meet crew, prepare equipment
- 0715 H+S meeting, verbal covid screen
- 0735 Depart marina, head to Pacific
- 0758 Arrive 1524
- 0808 Attempt 2 @ 1T1524 (1st attempt 5/13/24)
10.5 ft recovery / 10.8 ft drive
97.2%; accepted
- 0857 Scope 1527 - tricky access due to pilings + pipes. Can only get within 50 ft from target. Notified S. Replinger; SC will hold off on sampling
- 0901 Attempt 1 @ 1T1525
5.1 ft recovery / 4.6 ft drive
110.7%; accepted (soft sediment)
- 0933 Head to 1529, anchor
- 0952 Attempt 1 @ SC1529
11.5 ft recovery / 11.5 ft drive
100.0%; accepted
- 1040 Head to 1534, anchor
- 1117 Attempt 1 @ SC1534
13.5 ft recovery / 14.0 ft drive
96.4%; accepted
Shoal: -18.5 ft to -20.0 ft = 1.5 ft
- 1205 Head to 1510, lunch break, anchor

5/14/24

K. McPeak

- Weather: 50s, sunny
- Crew: Kate McPeak - Woodward
Ed Sloan
Kyle Sanders
Pete Jenkins
- Granity
- 1316 Attempt 1 @ SC1510
17.4 ft recovery / 17.0 ft drive
102.4%; accepted
Shoal: -16.7 ft to -20.0 ft = 3.3 ft
- 1350 Head to processing area to deliver + extract core
- 1445 Depart boat ramp, head to 1530;
1530 blocked by barge and can only get up in 25 ft of target. Notified S. Replinger; will not sample for now.
- 1505 Head to 1533
- 1516 Attempt 1 @ 1533
3.9 ft recovery / 3.8 ft drive
102.6%; accepted
- 1535 Head back to marina
- 1610 Arrive marina, off-water

Rite in the Rain

6 5/15/24

K. McPeck

0650 Arrive Harbor Island Marina, meet crew

Weather: 50s, partly sunny

Crew: Kate McPeck } Windward
Claire Christensen }

Ed Sloan

Kyle Sanders

Pete Jenkins

Gravity

0715 H+S meeting, verbal covid screen

0740 Depart marina for Pacific

0807 Arrive 1516, scope for vibroconing -
armored IT location; will attempt
w/ 8 ft core tube.0819 Attempt 1 @ IT 1516 rejected due to length
3.4 ft recovery / drive to 3.5 ft (refusal)
discussed w/ S. Replinger. Will attempt
again 26 ft from target to try for
longer core.0846 Attempt 2 @ IT 1516 ^{rejected} 26 ft from target
3.1 ft recovery / drive to refusal @ 3 ft.
Per S. Replinger will attempt 36 ft
from target.

0850 K. Kerns (USACE) arrives for oversight

0906 Attempt 3 @ IT 1516 ~ 36 ft from target
6.3 ft recovery / 7.0 ft drive (to refusal)
accepted; best of 3 attempts @ 90%.

recovery - confirmed accepted w/ S. Replinger

5/15/24

K. McPeck 7

0935 Head to 1535, anchor

1001 Attempt 1 SC 1535

10.5 ft recovery / 13.0 ft drive
80.8% recovery; accepted
Shoal: -19.5 ft to -20.0 ft = 0.5 ft1040 Scope 1531 - blocked by barge;
withdrew S. Replinger

1051 Scope 1541 - can just access next to barge

1105 Attempt 1 @ SC 1541

14.6 ft recovery / 14.0 ft drive

104.6%; accepted

Shoal: -19.0 ft to -20.0 ft = 1.0 ft

1120 Head to 1542, anchor

1148 Attempt 1 @ SC 1542

12.2 ft recovery / 13.0 ft drive

93.8%; accepted

Shoal: -19.4 ft to -20.0 ft = 0.6 ft

1235 Lunch break

1300 Head to 1520, anchor

1322 Attempt 1 @ SC 1520

~~6.5~~ 6.7 ft recovery / 6.5 ft drive

103.1%; accepted

Shoal: -19.0 ft to -20.0 ft = 1.0 ft

1345 Head to 1521, anchor

1407 Attempt 1 @ SC 1521

3.2 ft recovery / 3.5 ft drive

91.7%; accepted

Rite in the Rain

8

K. McPeak

5/15/24

- 1425 Head to processing area to deliver core
- 1435 Arrive boat ramp, K. Kerns departs
- 1445 Depart boat ramp for marina
- 1515 Arrive marina, off-water

5/16/24

K. McPeak⁹

- 0650 Arrive Harbor Island Marina; meet crew, prepare equipment
- Weather: SUs, overcast, rainy
- Crew:
 - Kate McPeak } Windward
 - Delaney Stokes }
 - Ed Slean } Gravity
 - Pete Jenkins }
 - Kyle Sanders }
- 0715 H+S meeting, verbal raid screen
- 0740 Depart marina for PacPile
- 0810 Scope 1530 + 1531; still blocked by barges
- 0811 Check mudline at 1528: -5.9 ft MLLW - notified S. Replinger
- 0815 Head to 1544, anchor; too much boat traffic to safely anchor in/near channel; head to intertidal
- 0840 Head to 1513, anchor
- 0851 Attempt 1 @ 171513
 - 5.1 ft recovery / 8.9 ft drive
 - 57.3%; rejected
- 0900 K. Kerns (USACE) arrives
- 0922 Attempt 2 @ 171513
 - 5.8 ft recovery / 8.9 ft drive
 - 65.2%; rejected
- 0954 Attempt 3 @ 171513
 - 9.4 recovery / 9.5 drive
 - 98.9%; accepted

Rite in the Rain

10 5/16/24

K. McPeak

- 1015 Head to 1544, anchor
 1038 Attempt 1 @ SC1544
 7.0 ft recovery / 11.0 ft drive
 63.6%; rejected
 1100 Attempt 2 @ SC1544 ^{-12 ft from target due to anchoring issues}
 10.3 ft recovery / 11.0 ft drive
 93.6%; accepted
 1130 Head to 1563, anchor
 1146 Attempt 1 @ SC1563
 10.1 ft recovery / 11.0 ft drive
 91.8%; accepted
 1212 Head to 1532 to check mudline
 elevation: -6.9 ft MLLW - notified
 S. Replinger
 1215 lunch break
 1235 Head to 1539, anchor
 1247 Attempt 1 @ IT1539
 8.9 ft recovery / 9.0 ft drive
 98.9%; accepted
 1320 Head to 1545, anchor
 1322 Attempt 1 @ IT1545
 8.7 ft recovery / 9.0 ft drive
 96.7%; accepted
 1348 Head to 1567
 1355 Attempt 1 @ IT1567
 2.2 ft recovery / 2.5 ft drive; 88%; accepted

5/16/24

K. McPeak 11

- 1410 Head to boat ramp
 1420 Arrive boat ramp, deliver core to
 processing crew
 1440 Depart boat ramp for marina
 1500 Arrive marina, off water

Rite in the Rain

12 5/17/24

C. Christensen

0640 Arrive at Harbor Island Marina, meet crew, prepare equipment.

Weather: low 50's, sunny

Crew: Claire Christensen } Windward

Suzanne Repinger

Rob Jenkins

Jake Langdon } Gravity

Kyle Sanders

0715 Conduct H's meeting; verbal wind screen.

0720 Depart Harbor Island Marina for location 1549.

0809 Attempt 1 SC1549
8.70 ft recovery, 11.30 ft drive
77.0% recovery, accepted.

0840 Head to "SC1550" anchor.

0905 Attempt 1 IT1550 L. Kerbs arrives.
4.05 ft recovery, 3.00 ft drive
135.0%, rejected

0913 Attempt 2 IT1550
3.90 ft recovery, 7.90 ft drive
49.3%, rejected

0940 Attempt 3 IT1550
6.30 ft recovery, 7.8 ft drive
80.7%, accepted.

5/17/24

C. Christensen 13

0952 Head to SC1538, anchor

1014 Attempt 1 @ SC1538
10.70 ft recovery, 12.00 ft drive,
89.2% recovery; accepted.

1041 Head to SC1536, anchor

1112 Attempt 1 @ SC1536
10.30 ft recovery, 11.0 ft drive,
93.6% recovery; accepted.

1146 Head to IT1543, anchor.

1155 Attempt 1 Break for lunch.

1214 Attempt 1 IT1543
7.65 ft recovery, 7.90 ft drive,
96.8% recovery, accepted.

1235 Head to IT1562, anchor.

1241 Attempt 1 IT1562
3.60 ft recovery, 3.50 ft drive,
102.9% recovery, rejected
due to insufficient penetration
depth.

1255 Attempt 2 IT1562
4.40 ft recovery, 6.00 ft drive,
73.3% recovery; < target penetr-
Attempt 3 ation but best of
3 attempts

Rite in the Rain

14 5/18/24

C. Christensen

- 1328 Attempt 3 IT1562 4.0
2.2 ft recovery, 6.0 ft drive,
55% recovery; rejected.
- 1338 Head to IT1505, anchor.
- 1351 Attempt 1 IT1505
2.50 ft recovery, 5.50 ft drive,
45.5% recovery; rejected
- 1426 Attempt 2 IT1505
1.80 ft recovery, 2.0 ft drive,
90.0% recovery; rejected
due to insufficient drive.
- 1442 Attempt 3 IT1505, hit hard
refusal at surface. No sample.
- 1442 Head to ~~IT1505~~ SC1500, anchor.
Head to SC1399, anchor,
discuss sampling location options.
- 1521 Attempt 1 SC1399
3.30 ft recovery, 3.00 ft drive,
110.0% recovery; accepted.
- 1532 K. Kerns departs on support boat,
head back to Harbor Island Marina.
- 1557 Arrive at marina, off water.

5/20/24

15 K. McPeak

- 0640 Arrive Harbor Island Marina, meet
crew
prepare for sampling
Weather: 40s, partly sunny
Crew: Kate McPeak - Windward
Pete Jenkins
Jeff Schut
Jake Langdon } Gravity
- 0700 H+S meeting, verbal card screen
- 0720 Depart marina for 1491
- 0745 Arrive SC1491, anchor. Location is near
sunken
wrecked barge
- 0811 Attempt 1 @ SC1491
17.0 ft recovery / 12.0 ft drive (over-
penetrated; rejected)
- 0843 Attempt 2 @ SC1491
9.10 ft recovery / 11.0 ft drive
82.7%; accepted
- 0900 Head to IS01, anchor. Location is
near sunken barge. Will return to
location when water level is high
enough to accommodate 20 ft barrel.
(Current water depth: 9.2 ft;
-8.6 ft MLLW)
- 0920 Moved to other side of target @ SC1501
to safely sample in deeper water

Rite in the Rain.

16 5/20/24

K. McPeck

- 0923 Attempt 1 @ SC1501
11.6 ft recovery / 11.0 ft drive
105.5%; accepted
Shoal: -15.6 ft to -20 ft = 4.4 ft
- 0950 Head to 1438. Location blocked by barge (56 ft away) ^{from target}
- 1000 Anchor @ SC1439
- 1020 Attempt 1 @ SC1439
14.3 ft recovery / 14.7 ft drive
97.3%; accepted
Shoal: -16.8 ft to -20.0 ft = 3.2 ft
- 1100 Head to 1469; accessible by boat but need higher tide. Will return later. Same for 1470 - accessible but better access with higher water.
- 1115 Head to 1459, anchor
- 1119 Attempt 1 @ SC1459
16.3 ft recovery / 11.0 ft drive
93.6%; accepted
- 1155 Lunch break
- 1215 Head to 1565; too shallow to sample
- 1230 Head to 1465; not accessible due to tug activity
- 1240 Head to 1430, anchor, prep barrels
- 1314 Attempt 1 @ SC1430
11.0 ft recovery / 16.8 ft drive, 45.5%; rejected

5/20/24

K. McPeck 17

- 1345 Attempt 2 @ SC1430
16.0 ft recovery / 16.8 ft drive
95.2%; accepted
- 1410 Head to 1429 after waiting for barge traffic, anchor
- 1432 Attempt 1 @ SC1429
10.1 ft recovery / 11.0 ft drive
91.8%; accepted
- 1505 Head back to mooring
- 1520 Arrive marina, off-water

Rite in the Rain

18 5/21/24

K. McPeak

- 0615 Arrive Harbor Island Marina, meet crew, prepare for Sampling
Weather: 50, rainy
Crew: Kate McPeak - Windward
Pete Jenkins
Jeff Schut
Tulce Langdon } Gravity
- 0630 H+S meeting, verbal covid screen
- 0645 Depart marina for 1469
- 0710 Arrive 1469, anchor
- 0728 Attempt 1 @ IT1469
4.3 ft recovery / 5.2 ft drive, 82.7%
hit hard refusal @ 5.2 ft; will attempt again for longer core (rejected)
- 0749 Attempt 2 @ IT1469
5.3 ft recovery / 7.7 ft drive, 68.8%
will attempt again (accepted)
- 0803 Attempt 3 @ IT1469
1.4 ft recovery / 1.5 ft drive, 93.3%
hit hard refusal @ 1.5 ft; rejected
- 0815 Discussed w/ S. Replinger which attempt to keep. Will process attempt 2.
- 0823 Head to 1470, anchor
- 0826 Attempt 1 @ IT1470
3.0 ft recovery / 3.0 ft drive, 100%
hard refusal @ 3 ft; will attempt again

5/21/24

K. McPeak 19

- 0850 Discussed Sampling Logistics @ 1470 with S. Replinger. Will try again attempting to stay w/in RCI and intertidal; challenged by floating barrier blocking access to target.
- 0913 Attempt 2 @ IT1470
8.0 ft recovery / 7.8 ft drive
102.0%; rejected - over-punctured
- 0923 Attempt 3 @ IT1470
7.9 ft recovery / 7.7 ft drive
102.6%; accepted
- 0940 Head to 1414; blocked by barge
- 0950 Head to 1386, prepare for live-boating
- 1000 Attempt 1 @ SC1386
10.6 ft recovery / 11.5 ft drive
92.2%; accepted
- 1025 Head to 1385, prepare for live-boating
Attempt 1 @ SC1385
8.3 ft recovery / 9.2 ft drive
90.2%; accepted
- 1100 Lunch break, prep supplies, discuss plan with processing crew.
- 1145 Head to 1338, anchor
Per S. Replinger, will target 79 ft core with 20 ft barrel at SC1338 (actual target ~~per~~ 20 ft)

Rite in the Rain.

20 5/21/24

K. McPeak

- 1217 Attempt 1 @ SC1338
18.4 ft recovery / 19.5 ft drive
94.4%; accepted
- 1250 Head to boat ramp
- 1300 Arrive boat ramp, help processing crew
with core extraction
- 1500 Depart boat ramp for marina
- 1530 Arrive marina, off-water

5/22/24

C. Christensen²¹

- 0615 Arrive at Harbor Island Marina,
meet processing crew.
Weather: 50's, partly cloudy.
Crew: Claire Christensen - Windward
Peter Jenkins
Jeff Schut
"J Kyle Sanders" } Gravity
- 0635 H:S meeting, verbal cond screen.
- 0650 Depart marina for 1413
- 0716 1413 not accessible due to surge.
Scope 1418, anchor.
- 0728 Attempt 1 IT1418
7.90 ft recovery / 7.90 ft drive
100%; accepted.
- 0741 Head to IT1428, anchor
- 0753 Attempt 1 IT1428
7.15 ft recovery / 7.80 ft drive
91.6%; accepted.
- 0805 Head to IT1426, anchor
- 0822 Attempt 1 IT1426
7.85 ft recovery, 7.90 ft drive,
99.4% recovery; accepted.
- 0834 Head to SC1419, anchor.
- 0844 Attempt 1 SC1419
9.80 ft recovery, 10.0 ft drive,
98.0%; accepted. *Rite in the Rain*

22 5/22/24

C. Christensen 5/22/24

- 0908 Head to SC1420, anchor.
0926 Attempt 1 SC1420
10.26 ft recovery, 11.50 ft drive,
89.2% recovery; insufficient
drive depth for 15 ft core,
moving towards channel and
trying attempt 2. Rejected.
0959 Attempt 2 SC1420
18.06 ft recovery, 17.30 ft drive,
104.4% recovery; accepted.
1025 Call A. Vandervort to discuss
processing needs.
1035 Head to SC1465, anchor.
1057 Attempt 1 SC1465
11.71 ft recovery, 11.60 ft drive,
100.9% recovery; accepted.
Tug arrived and moved a few
minutes before taking the
sample, just south of our location.
1115 Head to processing site to help
extrude rejected core.
1200 Return to boat, prepare sampling
equipment and plan next location(s).
1226 Head to location SC1507.
1235 Arrive at SC1507, anchor.

C. Christensen 5/22/24

- 1246 Attempt 1 at SC1507
7.03 ft recovery, 11.0 ft drive,
63.4% recovery; rejected.
Core went in to sediment at
an angle (suspected).
1306 Attempt 2 at SC1507
4.10 ft recovery, 11.0 ft drive,
37.3%, rejected. Same issue
where core tube was angled.
Going to anchor instead of
using spuds for attempt 3.
~~Attempt 3 at SC1507~~
1320 Anchor at SC1507.
1334 Attempt 3 at SC1507.
9.72 ft recovery, 11.50 ft drive,
84.5% recovery; accepted.
1356 Scope locations 1530, 1531 to see
if still blocked. They are still
blocked.
1400 Head back to Harbor Island
Manna.
1435 Arrive at Harbor Island Manna,
Off Water.

Return to the Rain

24 5/23/24

K. McPeak

- 0630 Arrive Harbor Island Marina, meet crew, prepare for sampling
Weather: 50°, overcast
Crew: Kate McPeak - Windward
Pete Jenkins
Jeff Schut
Kyle Sanders } Gravity
- 0650 H+S meeting, verbal covid screen
- 0715 Depart marina for 1402
- 0804 Attempt 1 @ 1T1402
3.8 ft recovery / 4.1 ft drive
95.0%, hit refusal @ 4 ft, rejected
Will attempt again for longer core
- 0821 Attempt 2 @ 1T1402
4.8 ft recovery / 6.3 ft drive
76.2%, hit refusal @ 6.3 ft,
Will attempt again for longer core
- 0835 Attempt 3 @ 1T1402
2.5 ft recovery / 2.5 ft drive
100%, hit refusal @ 2.5 ft, rejected
Will process attempt 2 (best of 3),
per discussion w/ S. Replinger
- 0845 Head to 1561
Note: SC1401 is blocked by a barge
- 0900 Arrive 1561, cannot access - need high water; head to 1565
- 0905 Will return to 1565 during higher water

5/23/24

K. McPeak 25

- 0910 Called Z. Jenkins to access Sup 4
(locations near mouth of Sup)
- 0912 Head to 1560
- 0920 Attempt 1 @ 1T1560
4.5 ft recovery / 5.4 ft drive
83.3%, hit refusal @ 5.4 ft, ^{km} rejected
Will attempt again for longer core
- 0942 Attempt 2 @ 1T1560
5.8 ft recovery / 7.5 ft drive
77.3%, ^{km} accepted rejected - lost bottom of core
- 1016 Attempt 3 @ 1T1560
3.7 ft recovery / 7.5 ft drive
49.3%, rejected
Will process attempt 1 per discussion w/ S. Replinger
- 1025 Head to 1559, anchor
- ~~km 1034~~ 1037 Attempt 1 @ SC1559
10.3 ft recovery / 11.6 ft drive
88.8%, accepted
- 1052 Notified Z. Jenkins - done for today @ Crowley / WM
- 1100 Head to 1421, ^{km} ~~anchor~~ prepare for live-boating

Return to the Rain.

5/23/24

K. McPeck

- 1122 Attempt 1 @ SC1421
14.7 ft recovery / 14.6 ft drive
100.7%; accepted
Shoal: -18.1 ft to -20.0 ft = 1.9 ft
- 1145 Lunch break, boat maintenance
- 1225 Head to 1408, blocked by barge
- 1232 Head to 1405, anchor
- 1247 Attempt 1 @ SC1405
12.1 ft recovery / 12.0 ft drive
100.8%; rejected - bit refusal @ 12 ft
- 1311 Attempt 2 @ SC1405
19.7 ft recovery / 18.2 ft drive
108.2%; accepted
- 1330 Head to 1406, prepare for live boating
- 1342 Attempt 1 @ SC1406
3.8 ft recovery / 13.0 ft drive
29.2%; rejected shoal: 0.8 ft
- 1353 Wait for barge traffic
- 1417 Attempt 2 @ SC1406
11.4 ft recovery / 12.0 ft drive
95.0%; accepted no shoal
- 1425 Head to boat ramp to help processing
crew extract cores
- 1545 Depart boat ramp for marina
- 1615 Arrive marina, off-water

5/24/24

K. McPeck²⁷

- 0645 Arrive Harbor Island Marina, meet
crew, prep for sampling
Weather: 50s, light rain
Crew: Kate McPeck - Windward
Pete Jenkins
Jeff Schut
Kyle Sanders } Gravity
- 0700 H&S meeting, verbal coriol screen
- 0715 Depart Marina for ~~1335~~^{km} 1350
- 0735 Arrive 1350. very tricky access
next to moored boats in marina.
Will return when water is shallower.
- 0745 Head to 1354, tie up to dock
- 0757 Attempt 1 @ SC1354
Rejected; core tube liner got stuck
in sediment + core was lost
- 0901 Attempt 2 @ SC1354
17.8 ft recovery / 16.0 ft drive
111.3%; accepted
- 0930 Head to 1357, tie up to dock,
cannot sample; need deeper water
- 0937 Head to ~~1335~~ km Wait for barge traffic
- 1000 Head to 1335, anchor, cannot sample
due to strong current
- 1030 Head to Slip 2 / 1320
- 1040 Arrive 1320, anchor

Rite in the Rain

5/24/24

K. McPeak

- 1049 Attempt 1 @ SC1320
7.8 ft recovery / 11.0 ft drive
70.9%; ^{KM} rejected accepted
- 1113 Attempt 2 @ SC1320
6.0 ft recovery / 6.8 ft drive
88.2%; rejected - hit refusal @
6.8 ft and need longer drive
- 1129 Attempt 3 @ SC1320
10.0 ft recovered / 11.0 ft drive
83.3%; rejected - tube liner slipped
down inside of tube
- 1150 Por S. Replinger will process attempt 1
(best of 3 attempts)
- 1200 Lunch break
- 1220 Head to 1309, anchor
- 1248 Attempt 1 @ SC1309
2.7 ft recovery / 3.0 ft drive
rejected; hit refusal @ 3 ft
- 1304 Attempt 2 @ SC1309
10.7 ft recovery / 11.0 ft drive
97.3%; accepted
- 1325 Head to 1321, anchor
- 1342 Attempt 1 @ SC1321
11.3 ft recovery / 11.4 ft drive
99.1%; accepted

5/24/24

K. McPeak 29

- 1415 Head back to marina
- 1445 Arrive marina, unload, off-water

30 5/28/24

K. McPack

- 0645 Arrive Harbor Island Marina, meet crew, prep for sampling
- 0705 H+S meeting, verbal Covid screen
Weather: 50, overcast
Crew: Katz McPeck, Windward
Kyle Sanders
Jeff Schot
Jake Langdon } Gravity
- 0720 Depart Marina for PacPile
- 0750 Arrive 1566, located on riprap slope - anchor just offshore of target (-15 ft away)
- 0804 Attempt 1 @ IT1566
2.1 ft recovery / 3.6 ft drive (refusal)
58.3%; rejected
- 0822 Attempt 2 @ IT1566
7.6 ft recovery / 7.6 ft drive
~~km too short~~; rejected - bottom of core fell through fingers
- 0845 Attempt 3 @ IT1566
4.5 ft recovery / 4.0 ft drive
112.5%; accepted despite shorter than targetted core (best of 3 attempts - confirmed with S. Replinger)
- 0900 Head to 1565, anchor

5/28/24

K. McPack 31

- 0909 Attempt 1 @ IT1565
3.2 ft recovery / 8^{km} 4.0 ft drive
80.0%; will attempt again for longer core
- 0923 Attempt 2 @ IT1565
7.7 ft recovery / 7.8 ft drive
98.7%; accepted
- 0940 Head to 1564, located on riprap slope - anchor just offshore of target (~20 ft away)
- 0953 Attempt 1 @ IT1564
rejected - too rocky to drive past fingers, no recovery
- 1002 Attempt 2 @ IT1564
over-driven / over-penetrated; rejected
- 1025 Attempt 3 @ IT1564
0.70 ft recovery / 1.0 ft drive
70.0%; rejected. Water too shallow to attempt again. Will return @ later date
- 1040 Head to 1357, tie to dock as close to target as possible to allow clearance for sampling next to dock. Water too shallow for 20 ft barrel.
- 1110 Head to 1335, anchor
- 1139 Attempt 1 @ SC1335
18.5 ft recovery, 19.0 ft drive
97.4%; accepted, shall: 5.6 ft

32 5/28/24

K. McPeak

- 1200 Head to 1310; not possible to sample due to barge adjacent to target that hinders anchoring
- 1220 Head to 1579, anchor
- 1304 Attempt 1 @ SC1579
9.4 ft recovery / 10.0 ft drive
94.0%; accepted
- 1335 lunch break
- 1400 Head to 1581, anchor
- 1412 Attempt 1 @ SC1581
11.5 ft recovery / 11.4 ft drive
100.9%; accepted
- 1430 Head to 1582, anchor
- 1448 Attempt 1 @ SC1582
9.9 ft recovery / 9.6 ft drive
103.1%; accepted
- 1510 Head to marina
- 1545 Arrive marina, unload, off-water

5/29/24

K. McPeak 33

- 0645 Arrive Harbor Island Marina, meet crew, prepare for sampling
Weather: SUs, overcast, light rain
Crew: Kate McPeak - windward
Jeff Schut
Kylie Sanders } Gravity
Jake Langdon
- 0710 H+S meeting, verbal conid screen
- 0725 Depart Marina for 1357
- 0740 Arrive 1357, tie to dock
- 0750 Attempt 1 @ SC1357
8.4 ft recovery / 12.0 ft drive (to refusal)
70.0%; rejected
- 0820 Troubleshoot power issue on boat. Will need to return to 1357 another day.
- 1015 Back running after switching out vibrocorer. Head to 1356.
- 1025 Arrive 1356, tie to dock
- 1034 Attempt 1 @ SC1356
14.6 ft recovery / 15.8 ft drive (to refusal)
92.4%; will try for longer core
- 1108 Attempt 2 @ SC1356
12.0 ft recovery / 15.2 ft drive (to refusal)
78.9%; attempt again for longer core

Rite in the Rain

5/29/24

K. McPeck

- 1131 Attempt 3 @ SC1356
17.3 ft recovery / 17.4 ft drive
89.2%; accepted
- 1200 Deliver cores to boat ramp
- 1210 Head to ~~1310~~¹⁵⁸⁴
- 1230 Arrive 1584, anchor
- 1254 Attempt 1 @ SC1584
8.0 ft recovery / 7.8 ft drive (to refusal)
102.6%; attempt again for longer core
- 1316 Attempt 2 @ SC1584
7.1 ft recovery / 8.0 ft drive (to refusal), 88.8%; attempt again to reach 10 ft target depth
- 1336 Attempt 3 @ SC1584
1.8 ft recovery / 3.8 ft drive (to refusal), 47.4%; rejected
- 1340 Will process attempt 1; confirmed w/ S. Roplinger
- 1355 Head to 1586, anchor
- 1414 Attempt 1 @ SC1586
~~5.9 ft recovery~~ / 9.0 ft drive; 49.2%;
~~recovery~~ rejected
- 1435 Attempt 2 @ SC1586
5.7 ft recovery, 9.0 ft drive
63.3%; rejected
Will return to location when current is less strong - tube is pulling over

5/29/24

K. McPeck 35

1505 Head to mooring

1545 Arrive mooring, unload, off-water

5/30/24

K. McPeck

- 0630 Arrive Harbor Island Marina, meet crew, prepare for Sampling
Weather: 40s, overcast
Crew: Kate McPeck - Windward
Kyla Sanders
Jeff Schut Gravity
Jake Langdon
- 0655 H+S meeting, verbal corid screen
- 0710 Depart marina for 1334
- 0725 Arrive 1334, anchor
- 0744 Attempt 1 @ SC1334
8.6 ft recovery / 16.7 ft drive to refusal
51.5%; rejected
- 0830 Attempt 2 @ SC1334
9.5 ft recovery / 14.6 ft drive to refusal
65.1%; ~~rejected~~ ^{only} accepted
- 0901 Attempt 3 @ SC1334
9.4 ft recovery / 15.6 ft drive to refusal, 60.3%; rejected
- 0915 Will process attempt 2 per discussion with S. Replinger (best of 3 attempts)
- 0930 Deliver cores to boat ramp, assemble core tubes
- 0955 Head to 1344, anchor

5/30/24

K. McPeck 37

- 1028 Attempt 1 @ SC1344
16.8 ft recovery / 19.0 ft drive
88.4%; accepted
- 1115 Head to ~~1340~~ ^{km} 1339, anchor
- 1144 Attempt 1 @ SC1339
12.9 ft recovery / 14.6 ft ~~drive~~ ^{km} ~~drive~~ to refusal
88.4%; accepted per discussion of S. Replinger. Drive depth less than targeted but depth of refusal consistent with other locations in this area so additional attempts not made.
- 1220 Head to 1336, anchor
- 1247 Attempt 1 @ SC1336
7.0 ft recovery / 12.5 ft drive to refusal
56.0%; rejected
- 1310 Attempt 2 @ SC1336
7.4 ft recovery / 11.0 ft drive to refusal
67.3%; ~~rejected~~ ^{km} accepted
- 1331 Attempt 3 @ SC1336
6.9 ft recovery / 10.9 ft drive to refusal
63.3%; rejected
Per S. Replinger, will process attempt 2 (best of 3 attempts)
- 1409 Head to 1333, anchor

Rite in the Rain

38 5/30/24

K. McPeck

- 1429 Attempt 1 @ SC1333
3.2 ft recovery / 3.5 ft drive
91.4%; accepted
- 1440 Head to boat ramp to deliver core
- 1505 Depart boat ramp for marina
- 1530 Arrive marina, unload, off-water

5/31/24

sunny; 50s-60s
C. Christensen 39

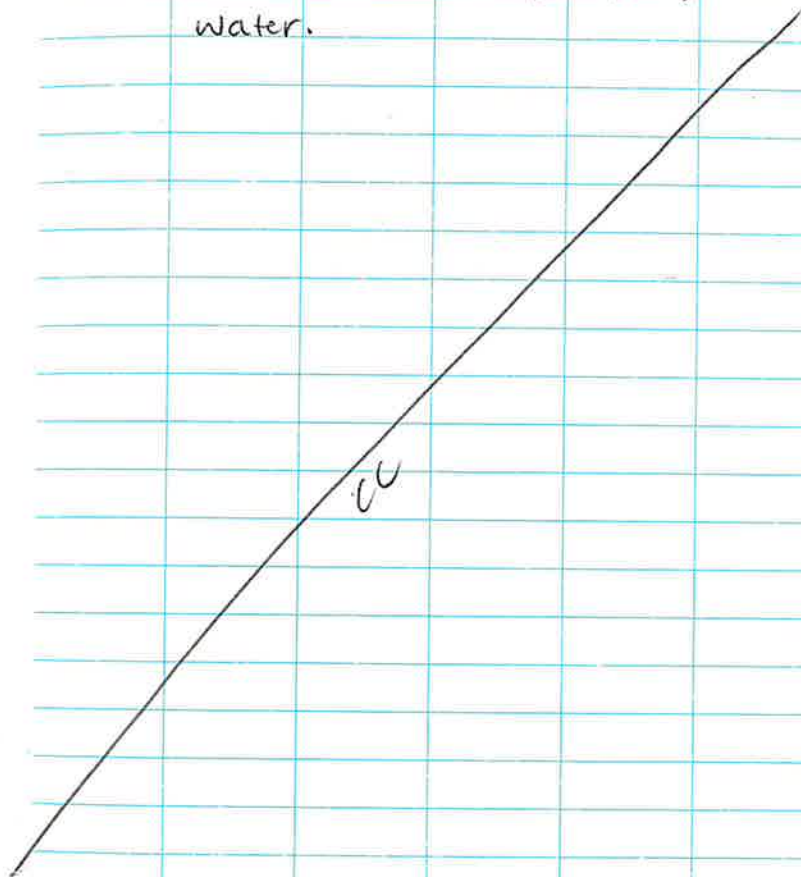
- 0630 Arrive at Harbor Island Mariny, meet
crew, prepare for sampling.
Crew: Claire Christensen - Wineward
Jake Longdon
Jeff Schuit } granty
Kyle Sanders
- 0650 H3S meeting, verbal round screen.
- 0710 Head to location 1357.
- 0730 Tide too low to sample. Head to
1414 & 1415.
- 0740 1414 & 1415 blocked, head to 1416,
anchor.
- 0822 Attempt 1 @ SC1416.
14.08 ft recovery / 14.50 ft drive,
97.10% recovery; accepted.
- 0841 Kristen Kerns arrives.
- 0845 Head to locations 1546 & 1547
- ~~0935~~ Attempt 1 @ IT1546.
- 0915 7.15 ft recovery / 7.50 ft drive
95.3% recovery; accepted.
- 0924 Head to IT1547, position.
- 0935 Attempt 1 @ IT1547.
5.53 ft recovery / 5.60 ft drive,
98.8% recovery; rejected.
- 0950 Attempt 2 @ IT1547. 7.65 ft
recovery / 7.90 ft drive, 96.8% ~~in the rain~~
accepted.

5/31/24

C. Christensen

- 1005 Head to 1357.
- 1022 Attempt 2 @ SC1357.
7.26 ft recovery / 10.20 ft drive,
71.2% recovery, rejected.
- 1049 Attempt 3 @ SC1357.
8.85 ft recovery, 9.30 ft drive,
95.2% recovery; accepted.
- 1109 Head to 1353, position.
- 1128 Attempt 1 @ SC1353
16.45 ft recovery / 19.40 ft drive,
84.8% recovery; accepted.
- 1150 Check in with processing crew,
head to 1438, blocked by barge,
- 1215 head to 1540, anchor.
- 1229 Attempt 1 @ IT1540
4.54 ft recovery / 4.40 ft drive,
103.2% recovery; ~~rejected due~~
accepted: best of 3 attempts → ~~to insufficient penetration~~ cc
- 1244 Attempt 2 @ IT1540
1.10 ft recovery, 2.00 ft drive,
55% recovery; rejected due to
insufficient penetration.
- 1254 Attempt 3 @ IT1540
1.45 ft recovery / 1.80 ft drive,
80.5% recovery; rejected due
to insufficient penetration.

1305 K. Kerns departs.

~~1310 Head to boat ramp to help
dist ← extract rejected cores. cc~~1310 Head back to Harbor Island
Marina1335 Arrive at marina, unload, off
water.

42 6/3/24

C. Christensen

0710 Arrive at Harbor Island Marina,
meet crew, prepare for sampling.

Crew: C. Christensen - Windward

Jake Langdon

John Schaefer

Mike Duffield

Gravity

0730 "Text
Patti S. Replinger to discuss weather
conditions and hazards. Wind
predicted at 20mph all day with
gusts to 25mph. Decide to stand
down due to weather.

0735 End of sampling day.

cl

6/4/24

K. McPeck 43

0800 Arrive Harbor Island Marina,
meet crew, prepare for sampling

Weather: 50s, overcast, light rain

Crew: Kate McPeck - Windward

Jake Langdon

John Schaefer

Mike Duffield

Gravity

0845 H+S meeting, verbal covid screen

0900 Depart marina for 1382

0920 Arrive SE1382, anchor, wait for tide
to recede (current very strong)

1000 Attempt 1 ^{km} SE1382 Hydraulic line
failure - call off core collection to
repair. Pull anchors, head back to
marina.

1115 Arrive marina, unload, end of field
day

Rite in the Rain

44 6/5/24

K. McPeck

- 0845 Arrive Harbor Island Marina, meet crew, prepare for sampling
 Weather: 50s, partly sunny
 Crew: K. McPeck - Winward
 M. Oufield
 J. Schaefer } Gravity
 J. Langdon
 0915 H+S meeting, verbal round screen
 0935 Depart marina for AML
 0955 Arrive SC1414, anchor
 1008 Attempt 1 @ SC1414
 2.4 ft recovery / 4.2 ft drive to refusal, 57.1%; rejected
 1030 Attempt 2 @ SC1414
 9.4 ft recovery / 9.0 ft drive to refusal, 104.4%; will attempt again for 10 ft core
 1104 Attempt 3 @ SC1414
 11.5 ft recovery / 11.0 ft drive
 104.5%; accepted
 1120 Head to 1515, anchor
 1139 Attempt 1 @ SC1515
 14.6 ft recovery / 16.0 ft drive
 91.3%; accepted
 1215 Head to 1408, anchor

6/5/24

K. McPeck 45

- 1220 Attempt 1 @ SC1408
 11.9 ft recovery / 16.0 ft drive
 74.4%; rejected
 1311 Attempt 2 @ SC1408
 15.5 ft recovery / 16.0 ft drive
 96.9%; accepted
 1345 Head to 1382, anchor
 1437 Attempt 1 @ SC1382
 6.2 ft recovery / 7.0 ft drive
 ~~60.0%; rejected~~ 88.6%; accepted
 1515 Head to 1387, anchor
 1553 Attempt 1 @ SC1387
 7.6 ft recovery / 7.0 ft drive
 108.6%; accepted
 1620 Pull anchors, head to marina
 1645 Arrive marina, unload, end of field day

Rite in the Rain

46

6/6/24

K. McPeck

- 0900 Arrive Harbor Island Marina, meet
Crew, prepare for sampling
Weather: 60s, Sunny
Crew: K. McPeck - Woodward
M. Duffrid
J. Schaefer
J. Langdon } Gravity
- 0915 HTS meeting, verbal and screen
- 0925 Depart marina to scope coring locations
at Containment: 1301 + 1302 are
currently accessible. 1303 is accessible
within 20-25 ft.
- 0945 Head to 1438; still blocked by a barge
- 1000 Head to 1530 + 1531 - both still blocked
by barges
- 1007 Head to 1586; current too strong to sample
- 1015 Head to 1573, anchor
- 1030 Attempt 1 @ SC1573
3.8 ft recovery / 3.3 ft drive
115.2%; accepted
- 1050 Head to 1577
- 1103 Attempt 1 @ SC1577
2.4 ft recovery / 3.0 ft drive
80.0%; accepted
- 1122 Head to 1586

6/6/24

K. McPeck 47

- 1143 Attempt 3 @ SC1586 (previous 2 attempts
on 5/29/24)
6.0 ft recovery / 9.0 ft drive
66.6%; ~~rejected~~ accepted
- 1207 Attempt 4 @ SC1586
5.1 ft recovery / 6.0 ft drive to refusal
85.0%; rejected
- 1233 discussed SC1586 attempt with S. Rappinger
Will process attempt 3 because drive
went to target depth (despite lower recovery)
- 1245 Lunch break
- 1310 Head to 1466
- 1320 Arrive 1466, anchor
- 1340 Attempt 1 @ SC1466
1.8 ft recovery / 2.0 ft drive to refusal
90.0%; attempt again for deeper drive
- 1359 Attempt 2 @ SC1466
5.5 ft recovery / 13.0 ft drive
42.3%; rejected
- 1433 Attempt 3 @ SC1466
7.3 ft recovery / 13.5 ft drive
54.1%; accepted per S. Rappinger
(best of 3 attempts)
Shoal: -18.7 ft to -20 ft = 1.3 ft
- 1530 pull anchors, head to processing area to
help dispose of rejected cores *Return to the Rain*

48 6/6/24

K. McPeck

1635

Depart processing area for marina

1700

Arrive marina, unload, off-water

Wet



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— SINCE 1916 —

Rite in the Rain
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- ALL PENCILS
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WON'T WORK

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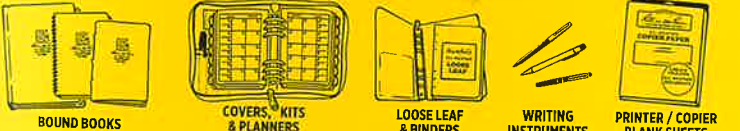
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SINCE 1916



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LDW AOLS MR
Phase II



Rite in the Rain

ALL-WEATHER
LEVEL

Nº 311FX

coring vessel
6/07/24 - 7/11/24
Book 2/3

2 6/7/24

K. McPeak

- 0850 Arrive Harbor Island Marina, meet crew,
prepare for sampling
Weather: 60s, sunny
Crew: K. McPeak - Windward
M. Dufield } Gravity
J. Schuster }
J. Longdon }
- 0920 H/S meeting, verbal covid screen
- 0935 Depart marina for Hopkins. 1423, 1424,
1425, 1432, 1433 all blocked by barge
- 1000 Head to 1441, anchor
- 1019 Attempt 1 @ SC1441
12.9 ft recovery / 11.5 ft drive
112.2%; accepted
- 1050 Head to 1442, anchor
- 1104 Attempt 1 @ SC1442
7.3 ft recovery / 7.0 ft drive to refusal
104.3%; attempt again for longer drive
- 1122 Attempt 2 @ SC1442
8.5 ft recovery / 8.5 ft drive to refusal
100.0%; attempt again for longer drive
- 1143 Attempt 3 @ SC1442 (-25 ft toward
channel from target)
7.5 ft recovery / 7.0 ft drive to refusal
107.1%; rejected
Process attempt 2 (best of 3) - confirmed w/
S. Replinger

6/7/24

K. McPeak

- 1215 lunch break
- 1240 Head to 1451, blocked by barge
- 1245 Head to 1460, anchor
- 1254 Attempt 1 @ SC1460
15.5 ft recovery / 14.5 ft drive
106.9%; accepted
Sheal: -17.8 ft to -20.0 ft MLWS =
2.2 ft
- 1335 Head to 1440, anchor
- 1357 Attempt 1 @ SC1440
10.7 ft recovery / 10.0 ft drive
107.0%; accepted
- 1420 pull anchors, head to processing area to
help
- 1455 depart processing area
- 1520 arrive marina, unload, off-water

Rite in the Rain

⁴ S. Replinger

6.10.2024

0450 Arrive at Harbor Island Manna.

Crew: S. Replinger - Winward

Ed Sloan

Mike Duffield

Pete Jenkins

Granny

Weather: overcast, 50s

0500 Load/prep vessel for sampling.

0515 Conduct H&S briefing. Verbal and screen.

0530 Depart manna. Head to DMC to begin sampling.

0554 Attempt 1 @ SC1350. Rejected.

5.50 ft drive / 6.50 ft recovery. 118.1%.

0620 Attempt 2 @ SC1350. Accepted.

9.40 ft recovery / 9.0 ft drive. 109.4%.

0701 Attempt 1 @ IT1458. Accepted (best of 3).

2.25 ft recovery / 2.2 ft drive. 102.2%.

0713 Attempt 2 @ IT1458. Rejected.

1.6 ft recovery / 2.0 ft drive. 80%.

0734 Attempt 3 @ IT1458. Rejected.

1.8 ft recovery / 1.8 ft drive. 100%.

Accepted attempt 1 (best of 3); less than target of 7.5 ft.

0753 Attempt 1 @ IT1462. Accepted.

1.3 ft recovery / 1.5 ft drive. 86.7%.

0816 Attempt 1 @ SC1435. Rejected.

3.3 ft recovery / 8.0 ft drive. 41.3%.

S. Replinger

6.10.2024 ⁵

0844 Attempt 2 @ SC1435. Accepted.

6.50 ft recovery / 10.30 ft drive. 63.1%.

0907 Attempt 3 @ SC1435. Rejected.

5.7 ft recovery / 6.0 ft drive. 95%.

Accepted attempt 2 (best of 3).

0937 Attempt 1 @ IT1434. Rejected.

1.0 ft recovery / 2.2 ft drive. 45.5%.

0952 Attempt 2 @ IT1434. Rejected.

0 ft recovery / 1.5 ft drive.

1005 Attempt 3 @ IT1434. Accepted.

1.75 ft recovery / 2.2 ft drive. 79.5%.

Accepted attempt 3. Best of 3 attempts.

1055 Attempt 1 @ SC1433. Accepted.

11.65 ft recovery / 10.7 ft drive. 108.9%.

1131 Attempt 1 @ SC1425. Accepted.

Shifted towards channel b/c rip rap extends further into subdelta in this area.

10.9 ft recovery / 11.0 ft drive. 99.1%.

1203 Attempt 1 @ SC1423.

6.5 ft recovery / 10 ft drive. 65%.

1223 Attempt 2 @ SC1423.

8.0 ft recovery / 8.0 ft drive. 100%.

Refusal before target depth.

1249 Attempt 3 @ SC1423.

6.7 ft recovery / 7.0 ft drive. 95.7%.

Return to the Rain.

6

S. Replinger

6-10-2024

Accepted attempt 2 for SC1423. 1st attempt likely tipped over, so drive depth uncertain. Best of 3 attempts

1303 Head to boat ramp to deliver cores.

1325 Depart boat ramp and head to marina.

1345 Arrive marina. Offload supplies.

End of field day.

S. Replinger
6-10-2024

C. Christensen

6.11.24⁷

0515 Arrive at Harbour Island Manha.
Crew

C. Christensen - Windward

Ed Sloan

Mike Oshfield } Gravity

Pete Jenkins

Weather: high 50s, cloudy

0525 Load equipment; prep vessel for sampling.

0540 H3S briefing, verbal Cond screen

0550 Depart marina for 1365

0610 Arrive at DMC, position at 1365

0631 Attempt 1 at SC1365

11.90 ft recovery, 13.0 ft drive,
91.5% recovery; rejected.

0703 Attempt 2 at SC1365. Accepted

12.40 ft recovery; 13.0 ft drive. 95.4%.

Accepted despite low drive due to similar hard refusal at same depth for both attempts at this location.

0726 Head to SC1348

~~Using 15 ft barrel to accommodate " "~~
~~For high machine - 20 ft barrel,~~
~~even at high tide, is too tall for~~
~~this location.~~

0735 Experiment with locations to find a spot without debris.

Rite in the Rain.

8 C. Christensen

6.11.24

- 0748 Attempt 1 at SC1348. Accepted.
12.15 ft recovery, 11.6 ft drive. 104.7%.
- 0821 Attempt 2 at SC1348. Rejected.
11.90 ft ^{recovery} drive, 11.90 drive. 100.0%
- 0840 Head to boat ramp to deliver cores.
- 0855 Head to IT1330.
- 0906 Attempt 1 @ IT1330. ^{cc} Rejected Accepted.
2435^{cc} 2.65 ft recovery, 3.5 ft drive. 75.7%.
- 0935 Attempt 2 @ IT1330. Rejected.
1.25 ft recovery, 2.0 ft drive. 62.5%.
- 0959 Attempt 3 @ IT1330. Rejected.
0.82 ft recovery, 2.00 ft drive. 41.0%.
- 1010 Head to IT1437, anchor. Jing Liu arrives.
- 1028 Attempt 1 @ IT1437 Rejected.
3.30 ft recovery, 4.50 ft drive. 73.3%.
- 1043 Attempt 2 @ IT1437. Accepted.
3.00 ft recovery, 3.80 ft drive. 78.9%.
- 1103 Attempt 3 @ IT1437. Rejected.
Accepted attempt 2 because it had best recovery %.
- 1109 Head to 1443, anchor.
- 1145 Attempt 1 @ IT1443. Accepted.
7^{cc} 6.95 ft recovery, 7.0 drive. 99.3%.
- Limited options to move to a better location; accepted.

C. Christensen

6.11.24⁹

- 1200 Head to boat ramp for ^{cc} to deliver core and take break.
Jing Liu departs.
- 1220 Head to 1452. blocked. scope other locations.
- 1250 Head to 1301. Difficult to do intertidal and main channel locations due to low tide & current.
- 1300 Arrive at 1301, anchor. Wind and current causing safety hazard. Moving to next location.
- 1320 Wind picking up with gusts > 20 mph. M. Duffield decides it is unsafe to continue sampling. Head back to marina.
- 1330 Arrive at marina, demob. End of sampling day.

C. Christensen
6.11.24

10 C. Christensen

6.12.24

0545 Arrive at Harbor Island Marina.

Crew

Claire Christensen - Windward

Mike Duffield

Pete Jenkins

Gravity

Ed Sloan

Weather: partly cloudy, 50's.

0555 Load equipment, prep vessel for sampling

0615 H's briefing, verbal coord screen.

0620 Depart marina for 1371

0635 Arrive at 1371, position.

0706 Attempt 1 @ SC1371. Accepted.

17.95 ft recovery, 19.0 ft drive. 94.5%

Positioned downstream of target to avoid utility hold area and due to boat anchoring capabilities.

0745 Head to 1388, anchor.

0806 Attempt 1 @ SC1388. Accepted.

5.60 ft recovery, 8.0 ft drive, 107.5%

0835 Head to 1383, anchor. Low GPS

accuracy due to bridge.

0849 Attempt 1 @ SC1383. Accepted.

6.0 ft drive, 6.0 ft recovery. 100.0%

0900 Head to 1T1498, position.

0922 Attempt 1 @ 1T1498. Rejected.

1.30 ft recovery, 2.0 ft drive. 65.0%

C. Christensen

6.12.24

0938 Attempt 2 @ 1T1498. Accepted.

1.65 ft recovery, 2.00 ft drive, 82.5%

0950 Head to 1561. Too difficult to

access from vessel. Suggest coming back to hand-vibracore.

0955 Head to SC1407, anchor.

1024 Attempt 1 @ SC1407. Accepted.

2.70 ft recovery, 3.00 ft drive. 90.0%

1035 Head to tie up for break.

1120 Head to 1424, anchor.

1135 Attempt 1 @ SC1424. Rejected.

4.95 ft recovery, 6.50 ft drive. 76.2%

1153 Attempt 2 @ SC1424. Rejected.

6.70 ft recovery, 9.0 ft drive. 74.4%

1218 Attempt 3 @ SC1424. Accepted.

5.40 ~~6.60~~ ft recovery, 6.0 ft drive. 90.0%

1225 Head to 1432, anchor. " Head

to scope mudline / target depth for 1468. mudline = -5.3, target length = ~21.7 ft.

1235 Head to boat ramp for bathroom.

1255 Head to 1301, anchor.

1303 Attempt 1 @ SC1301. Rejected

10.40 ft recovery, 13.20 ft drive. 78.8%

1406 Attempt 2 @ SC1301. Accepted.

10.65 ft recovery, 12.50 ft drive. 85.2%

12 C. Christensen

6.12.24

- ~~1416 Head back to marina.~~
~~Arrive at marina, demob. End~~
~~of sampling day.~~
1416 Head to SC1303, anchor.
Attempt 1 @ SC1303 Accepted.
2.75 ft recovery, 3.0 ft drive - 91.6%.
1445 Head to boat ramp to deliver core.
1450 Head to marina.
1315 Arrive at marina, demob. End of
sampling day.

C. Christensen
6.12.24

K. McPeck

6/13/24

13

- 0630 Arrive Herbie Island Marina, meet crew,
prepare for Sampling
Weather: Sss, partly sunny
Crew: K. McPeck - Windward
Ed Sloan
Jake Langdon } Gravity
Mike Duffield }
0645 H+S meeting, verbal canal screen
0705 Depart marina for 1432
0720 Arrive 1432, anchor
0748 Attempt 1 @ SC1432
10.0 ft recovery / 10.0 ft drive
100.0%; accepted
0815 Head to 1508
0825 Arrive 1508, anchor
0852 Attempt 1 @ IT1508
1.0 ft recovered / 1.0 ft drive to refusal,
rejected (100%)
0900 Attempt 2 @ IT1508
1.9 ft recovered / 4.0 ft drive to refusal,
47.5%; rejected
Attempt 3 @ IT1508
1.2 ft re. / 1.5 ft drive to refusal
80.0%; accepted (best of 3 attempts;
confirmed w/ S. Replinger)

Rite in the Rain.

14 6/13/24

K. McPeak

- 0930 Head to 1519
- 0935 Attempt 1 @ IT1519
3.2 ft recovery / 4.0 ft drive to refusal
80.0%; accepted (best of 3)
- 0950 Attempt 2 @ IT1519
0.8 ft recovery / 1.0 ft drive to refusal
80.0%; rejected
- 0959 Attempt 3 @ IT1519
2.4 ft recovery / 2.0 ft drive to refusal
120.0%; rejected
- 1020 Head to 1522
- 1027 Attempt 1 @ IT1522
0.9 ft recovery / 1.7 ft drive to refusal
52.9%; rejected
- 1041 Attempt 2 @ IT1522
3.2 ft recovery / 7.8 ft drive
41.0%; rejected bottom ~ 0.5 ft of
pipe empty
- 1059 Attempt 3 @ IT1522
0.7 ft recovery / 2.0 ft drive to
refusal, 35.0%; rejected
- 1116 Attempt 4 @ IT1522
0.8 ft recovery / 1.0 ft drive to
refusal, 80.0% w/ gap in core;
rejected. Will return to location
at later date.

6/13/24

K. McPeak 15

- 11130 Lunch break
- 1150 Head to 1452, anchor
- 1212 Attempt 1 @ SC1452
11.5 ft recovery / 11.0 ft drive
104.5%; accepted
- 1235 Head to SC1453, ~~anchor~~ ⁱⁿ troubleshooting
anchor issue
- 1320 Anchor at 1453
- 1327 Attempt 1 @ SC1453
3.0 ft recovery / 2.0 ft drive to refusal
150.0%; rejected
- 1342 Attempt 2 @ SC1453
8.7 ft recovery / 9.5 ft drive to refusal
91.6%; rejected
- 1358 Attempt 3 @ SC1453
9.5 ft recovery / 10.5 ft drive
90.5%; accepted
- 1430 Head to 1431, anchor
- 1450 Attempt 1 @ SC1431
13.70 ft recovery / 14.0 ft drive
97.9%; accepted
Shoal: -18.2 ft to -20.0 ft MLWD =
1.8 ft
- 1520 Pull anchors, head to morning
- 1600 Arrive Marina, unload, off-water

Rite in the Rain

16 6/14/24

K. McPeck

- 0645 Arrive Harbor Island Marina, meet crew,
prepare for sampling
Weather: 50s, overcast, breezy
Crew: Ed Sloan
Jake Langdon
Milke Dufield
- 0705 H/S meeting, verbal card screen
- 0720 Depart marina for 1302
- 0740 Arrive 1302, tie to pilings
- 0754 Attempt 1 @ SC1302
11.4 ft recovery / 16.0 ft drive to refusal
71.3%; accepted
- 0828 Attempt 2 @ SC1302
9.9 ft recovery / 15.0 ft drive to refusal
66.0%; rejected
- 0845 Attempt 3 @ SC1302 K. Kerns (USACE)
arrives
- 0857 Attempt 3 @ SC1302
9.0 ft recovery / 13.6 ft drive to
refusal, 66.2%; rejected
Process attempt 1 (best of 3) per S.
Replinger
- 0930 Head to 1323, anchor
- 0958 Attempt 1 @ SC1323
11.6' recovery / 13.0 ft drive
89.2%; accepted, shear: -29.2 ft to
-30.0 ft = 0.8 ft

6/14/24

K. McPeck 17

- 1040 Head to 132^W87, anchor
- 1113 Attempt 1 @ SC1327
15.9 ft recovery / 16.0 ft drive
99.4%; accepted
- 1200 lunch break
- 1230 Head to ~~1328~~ km 1343, anchor
- 1307 Attempt 1 @ SC1343
10.4 ft recovery / 12.0 ft drive to refusal
86.7%; rejected
- 1343 Attempt 2 @ SC1343
12.2 ft recovery / 12.0 ft drive to refusal
101.7%; accepted
Per discussion, accepted attempt 2 (best of 2)
with S. Replinger and K. Kerns -
based on refusal consistent with other
nearby locations (3rd attempt not made)
- 1425 Head to ~~1384~~ km 1448, not accessible due to
tide km, anchor
- 1448 Attempt 1 @ IT1448
3.5 ft recovery / 6.5 ft drive to refusal
53.8%; rejected
- 1505 Attempt 2 @ IT1448
3.3 ft recovery / 7.5 ft drive
44.0%; rejected
- 1523 Attempt 3 @ IT1448
3.9 ft recovery / 7.5 ft drive *Ref in the Rain*
52.0%; rejected

18 6/14/24

K. McPeck

1535 Discussed 1448 w/ S. Replinger. Will return to hand collect at later date. All 3 attempts have poor recoveries and voids in the bottom of core.

1545 K. Kerns departs

1550 Head to 1464, anchor

1601 Attempt 1 @ SC1464 ^{3.0}
2.3 ft recovery / ^{4.0} ft drive
76.7%; accepted

1620 Depart for Marina

1645 Arrive Marina, unload, off-water

Kerns

6/17/24

K. McPeck 19

0650 Arrive Harbor Island Marina, meet crew, prepare for sampling

Weather: 50s, overcast, light rain

Crew: Kate McPeck, Woodward

Take Longdon

Mike Duffield

Kyle Sanders

Granitey

0730 H+S meeting; verbal corid screen

0820 Depart Marina for 1384

0840 Arrive 1384, anchor

0905 Attempt 1 @ SC1384
7.2 ft recovery / 9.0 ft drive
80.0%; accepted

0930 Head to 1337; blocked by barge

0935 Head to 1340; check mudline ("~20.5") - cannot collect w/ current vessel

0940 Head to 1342, anchor

0953 Attempt 1 @ SC1342
13.4 ft recovery / 18.0 ft drive to refusal
74.4%; rejected

1026 Attempt 2 @ SC1342
14.7 ft recovery / 17.5 ft drive to refusal, 84.0%; accepted

Per S. Replinger, accepted based on depth of refusal consistent with other cores in this area

Rite in the Rain

20

6/17/24

K. McPeak

- 1110 Head to 1329, blocked by barge
- 1115 Head to 1328, anchor
- ~~1113~~ 1130 Attempt 1 @ SC1328
14.2 ft recovery / 18.0 ft drive
78.9%; accepted
Shoal: -29.5 ft to -30.0 ft MLW :
5.5 ft
- 1215 lunch break
- 1245 Head to 1455, anchor
- 1302 Attempt 1 @ IT1455
1.8 ft recovery / 2.0 ft drive to refusal
90.0%; accepted
- 1310 Attempt 2 @ IT1455
1.0 ft recovery / 1.8 ft drive to refusal
55.6%; rejected
- 1320 Attempt 3 @ IT1455
2nd 0.7 ft recovery / 2.0 ft drive to refusal; 35.0%; rejected
Process attempt 1 (best of 3) - confirmed w/ S. Replinger
- 1340 Head to 1457, anchor
Attempt 1 @ IT1457 ^{km} leave area due to overhead crane activity. Also, location is on riprap slope and did not find silt sediment to sample when probing.

6/17/24

K. McPeak

- 1350 Head to 146^{km}3, probe for soft sediment; attempt offshore of target where probing indicates less riprap
- 1406 Attempt 1 @ IT146^{km}3
1.0 ft recovery / 1.0 ft drive to refusal
100.0%; rejected
- 1420 Attempt 2 @ IT1463 - positioned offshore of target + away from riprap (collected w/in RCL; OK per S. Replinger)
0.5 ft recovery / 1.0 ft drive to refusal
51.0%; rejected
- 1431 Attempt 3 @ IT1463
0.3 ft recovery / 1.0 ft drive to refusal
30.0%; rejected
3 rejected attempts; will return to land collect another day
- 1450 Head to 1482, anchor
- 1514 Attempt 1 @ SC1482
13.1 ft recovery / 13.6 ft drive
100.8%; accepted
Shoal: -18.9 ft to -20.0 ft : 1.1 ft
- 1540 Head to 1490, anchor
- 1552 Attempt 1 @ SC1490
4.8 ft recovery / 11.0 ft drive
43.6%; rejected

Rite in the Rain

22 6/17/24

K. McPeck

- 1611 Attempt 2 @ SC1490
5.5 ft recovery / 9.0 ft drive to refusal
61.1%, rejected then accepted
- 1631 Attempt 3 @ SC1490
5.0 recovery / 5.0 ft drive to refusal
100.0%, rejected
Per S. Replinger will process attempt 2
(best of 3 based on drive depth)
- 1655 Head to marina
- 1720 Arrive marina, unload, off-water

6/18/24

K. McPeck

- 0650 Arrive Harbor Island Marina, meet
crew, prepare for sampling
Weather: 50s, overcast
Crew: K. McPeck - Windward
M. Duffield
J. Langdon
K. Sanders } Gravity
- 0720 H+S meeting, verbal covid screen
- 0740 Depart marina to scope 1318
- 0755 Arrive 1318; target is on a rap
slope, very rocky offshore of target -
can try later in higher water from
boat but does not look very feasible
(for boat collection)
- 0805 Head to 1326, anchor
- 0824 Attempt 1 @ SC1326
6.3 ft recovery / 5.0 ft drive to refusal
126.0%, rejected
- 0840 Attempt 2 @ SC1326
7.0 ft recovery / 13.0 ft drive to refusal
53.8%, rejected
- 0845 K. Varns (USACE) arrives
- 0918 Attempt 3 @ SC1326
17.8 ft recovery / 19.0 ft drive
93.7%, accepted
- 0955 Head to Seattle Iron + Metals
- 1005 Arrive 1495, anchor

Rite in the Rain

24 6/18/24

K. McPeck

- 1023 Attempt 1 @ SC1495 (bioassay location)
5.1 ft recovery / 5.0 ft drive to refusal
102.0%; accepted for supplemental
0-60 cm sediment for bioassay
- 1041 Attempt 2 @ SC1495
5.2 ft recovery / 5.0 ft drive to refusal
104.0%; accepted for top 0-60 cm
for bioassay
- 1054 Attempt 3 @ SC1495
5.6 ft recovery / 5.5 ft drive to refusal
101.8%; accepted for vertical core
Per S. Replinger and K. Kerns - process
attempt 3 (deepest drive)
- 1115 Head to 1494; check water depth.
Will return when tide is higher.
- 1120 lunch break
- 1150 Head to 1488, anchor
- 1203 Attempt 1 @ SC1488
~~10.7~~ 10.7 ft recovery / 10.0 ft drive to
refusal, 107.0%.
- 1224 Attempt 2 @ SC1488
16.7 ft recovery / 18.3 ft drive
91.3%; accepted
Sheal: -14.1 ft to -20.0 ft MLLW: 5.9 ft
- 1300 Head to 1494, anchor

6/18/24

K. McPeck²⁵

- 1308 Attempt 1 @ SC1494 (bioassay location)
3.9 ft recovery / 4.6 ft drive to
refusal, 84.8%; accepted for f-p
0-60 cm for bioassay
- 1317 Attempt 2 @ SC1494
9.1 ft recovery / 14.0 ft drive to
refusal, 65.0%; accepted as best
of attempts (deepest drive)
- 1358 Attempt 3 @ SC1494
0.0 ft recovery / 0.0 ft drive (immediate
refusal) 0%; recovery, rejected
- 1421 Attempt 4 @ SC1494
3.1 ft recovery / 3.5 ft drive to refusal
88.6%; accepted for top 0-60 cm
for bioassay
Per S. Replinger and K. Kerns, process
attempt 2 as vertical (deepest drive)
- 1445 K. Kerns departs
- 1450 Head to 1500, anchor
- 1453 Attempt 1 @ SC1500
3.7 ft recovery / 3.5 ft drive
105.7%; accepted
- 1515 Head to marina
- 1540 Arrive marina, unload, off-water

Rit in the Rain

26 6/19/24

K. McPeak

0650 Arrive Harbor Island Marina, meet crew,
prepare for sampling

Weather: SWS, Sunny

Crew: K. McPeak - Windward

M. Duffield

J. Langdon

K. Sanders

Gravity

0715 H+S meeting, verbal Covid screen

0730 Depart marina for 1325

0750 Arrive 1325, anchor

0812 Attempt 1 @ SC1325

16.1 ft recovery / 16.5 ft drive

97.6%; accepted

Shoal: -26.0 ft to -30.0 ft MLWL:
4.0 ft

0845 Head to 1324, anchor

0856 Attempt 1 @ SC1324

9.8 ft recovery / 13.0 ft drive

75.4%; accepted

Shoal: -29.3 ft to -30.0 ft MLWL:
0.7 ft

0935 Head to 1422, anchor

0951 Attempt 1 @ SC1422

9.0 ft recovery / 9.0 ft drive

100.0%; accepted

6/19/24

K. McPeak 27

1015 Head to 1489, wait for barge traffic
to clear, change course to avoid
traffic

1035 Head to 1502, anchor

1041 Attempt 1 @ SC1502

6.7 ft recovery / 8.0 ft drive

83.8%; accepted

Shoal: -16.8 ft to -20.0 ft MLWL:
3.2 ft

1055 Head to 1503, anchor

1107 Attempt 1 @ SC1503

11.5 ft recovery / 11.5 ft drive to refusal
100.0%; rejected

1121 Attempt 2 @ SC1503

11.3 ft recovery / 13.2 ft drive to
refusal, 85.6%; accepted MLWL

Shoal: -17.9 ft to -20.0 ft: 2.1 ft

1150 Head to 1477, anchor

1207 Attempt 1 @ SC1477

3.0 ft recovery / 3.0 ft drive

100.0%; accepted

1225 lunch break

1250 Head to 1467

1300 Arrive 1467, anchor

1314 Attempt 1 @ IT1467

2.1 ft ^{1 min} recovery / 2.5 ft drive, 84.0%
accepted *Refuse the Rain*

28 6/19/24

K. McPeak

- 1330 Head to 1444, anchor
 1343 Attempt 1 @ IT1444
 1.1 ft recovery / 2.5 ft drive
 44.0%; rejected
 1351 Attempt 2 @ IT1444
 1.7 ft recovery / 2.1 ft drive
 81.0%; accepted
 1405 Head to 1485; 1485 and 1486 not
 accessible due to tug activity
 1415 Head to 1557
 1423 Arrive 1557, anchor
 1428 Attempt 1 @ IT1557
 1.3 ft recovery / 2.5 ft drive
 52.0%; rejected
 1436 Attempt 2 @ IT1557
 1.5 ft recovery / 2.0 ft drive
 75.0%; accepted
 1455 Head to 1504, anchor
 1505 Attempt 1 @ IT1504
 1.9 ft recovery / 2.0 ft drive to refusal
 95.0%; accepted
 1520 Head to marina
 1550 Arrive marina, unload, off-water

6/20/24

K. McPeak 29

- 0650 Arrive Harbor Island Marina, meet
 crew, prepare for sampling
 Weather: 60s, sunny
 Crew: K. McPeak - Windward
 M. Duffield
 J. Langdon } Gravity
 K. Sanders
 0715 H+S meeting, verbal Covid screen
 0730 Depart marina for 1401
 0745 Arrive Slip 3, wait for barge to move
 0810 Arrive 1401, anchor
 0815 Attempt 1 @ SC1401
 2.6 ft recovery / 3.0 ft drive
 86.7%; accepted
 0830 Head to 1476
 0840 Arrive 1476, anchor
 0847 Attempt 1 @ SC1476
 Current too strong to sample - tube
 tipped over. Will return later.
 0915 Check access @ IT1486 - potentially
 accessible at higher water
 Continue scoping other previously blocked
 locations while current is too strong to
 sample:
 1450, 1451: still blocked
 1438: still blocked

Return to the Rain

30 6/20/24

K. McPeck

- 0925 1411, ~~1443~~¹⁴⁴³ still blocked
- 0930 Head to 1413, anchor, not sampleable in current conditions and all rip rap
- 0945 1530, 1531 still blocked
- 0950 Head to 1585, anchor
- 0955 Priscilla Tomlinson and Julia Schwartz arrive for Ecology oversight
- 1010 Attempt 1 @ IT1585
~~4.3 ft drive~~, 3.5 ft recovery / 4.3 ft drive
81.4%; accepted
- 1020 Head to 1476, anchor
- 1040 Attempt 2 @ SC1476
11.5 ft recovery / 11.5 ft drive
100.0%; accepted
- 1110 Head to 1489, anchor
- 1117 Attempt 1 @ SC1489
12.9 ft recovery / 13.0 ft drive
99.2%; accepted
Sheal: -18.8 ft to -20.0 ft MLEW:
1-2 ft
- 1135 P. Tomlinson and J. Schwartz depart for processing area
- 1145 Head to 1483, anchor
- 1154 Attempt 1 @ SC1483
8.4 ft recovery / 9.0 ft drive to refusal
93.3%; accepted

6/20/24

K. McPeck 31

- 1212 Attempt 2 @ SC1483
8.6 ft recovery / 8.0 ft drive to refusal
100.0%; rejected
- 1226 Attempt 3 @ SC1483
7.9 ft recovery / 9.0 ft drive to refusal
87.8%; rejected
Process attempt 1 (best of 3)
- 1250 Head to 1480, anchor
- 1256 Attempt 1 @ SC1480
2.9 ft recovery / 3.0 ft drive
96.7%; accepted
- 1320 Head toward marina
- 1330 Scope 1311 + 1312 - still blocked by barge
- 1350 Arrive marina, unload, off-water

Rite on the Rain

0850 Arrive at Harbor Island Marina, meet crew, prepare for sampling.

Crew:

Claire Christensen - Windward

Jake Langdon

Mike Difford

Kyle Sanders

Gravty

Weather: 60s-70s, sunny.

0915 Health & safety, verbal covid screen.

0920 Head to 1310.

0945 Arrive at SC1310, anchor.

0950 Attempt 1 @ SC1310. Accepted. Rejected.
Attempt 7.30 ft recovery, 7.0 ft drive. 104.3%

1004 Attempt 2 @ SC1310. Accepted.

10.0 ft drive, 9.60 ft recovery, 96.0%

1020 Head to SC1479, anchor.

1042 Attempt 1 @ SC1479. Accepted.

7.76 ft recovery, 9.50 ft drive. 81.7%

1102 Attempt 1 @ SC1478. Accepted.

2.40 ft recovery, 3.0 ft drive. 86.6%

1126 Attempt 2 @ SC1479. Accepted*

7.90 ft recovery, 9.00 ft drive. 87.8%

*Process attempt 1 for vertical,
Process attempt 2 for extra volume
for 0-10 cm sample.

1154

Attempt 2 @ SC1478. Accepted*

3.0 ft recovery, 3.0 ft drive, 100%

*Process attempt 2 as 0-60 cm
pencil 0-10 cm, Process attempt 1
as extra volume for 0-10 cm
if needed.

1215 Break for lunch.

1230 Head to SC1492, anchor

1302 Attempt 1 @ SC1492. Rejected.

7.0 ft recovery, 9.0 ft drive. 77.8%

1317 Attempt 2 @ SC1492. Rejected.

7.50 ft recovery; 12.00 ft drive. 62.5%
Drive sufficient but recovery poor.

1340 Attempt 3 @ SC1492. Accepted.

9.37 ft recovery, 12.00 ft drive. 78.1%

~~1405 Return barge locations to see~~

1400 what is blocked Anchor is
stuck, attempting to free it.

1457 Head back to marina. Abandoned
anchor.

1516 Arrive at marina, demob, end
of sampling day.

cc 6.21.24

S. Replinger

6-24-2024

0820 Arrive at Harbor Island Marina.
Meet crew & prep for sampling.

Crew: S. Replinger } Winnow
D. Stokes

Pete Jenkins

Lejon Nelson } Gravity

Jake Langdon

Weather: 50s, overcast.

0845 Conduct H&S briefing. Verbal read screen.

0900 Depart marina. Head to scope blocked locations and begin sampling.

Barges still in place at Samson.

Tugs/barges blocking locations at Buyer.

1530/1531 at PPM accessible.

0940 Prep anchors for 1531. 10 ft. target.

1004 Attempt 1 @ SC1531. Accepted.

7.60 ft recovery. 7.6 ft drive. 100%.

1035 Attempt 2 @ 1531. Rejected.

4.8 ft recovery. 6 ft drive. 80.0%.

1100 Attempt 3 @ 1531. 6.5 ft drive. ~~100.0%~~ 103.8%
Rejected.

Attempt 1 accepted (best of 3 attempts).

1108 Set anchors for SC1530. 2 ft. target.

1117 Attempt 1 @ SC1530. Rejected.

3.0 ft drive / 1.0 ft recovery. 33.3%.

S. Replinger

6-24-2024

1137 Attempt 2 @ 1530. Accepted.

1.6 ft recovery / 2.0 ft drive. 80%

1145 Head to 1561/1564

Prep for hand vibrating.

1210 Begin hand vibrating at 1T1561.

Attempted / probed in area - hard refusal at 6-8"

Attempt 1 - 1.7 ft drive / < 0.5 ft recovery.

Attempt 2 - 1.2 ft drive / ~ 0.5 ft recovery.

Attempt 3 - 1.5 ft drive / 1.05 ft recovery.

1230 Send attempt 3 to processing for possible 0-45cm sample (A interval).
Will probe w/ shovel later.

1240 Begin hand vibrating at 1T1564.

Refusal at 0-4 inches throughout area using probe / hand vibrator unit.

1315 lunch break

1350 Hand collect sample 1T1564A.

Process sample.

1415 Hand collect sample 1T1561A.

Process sample.

1425 Head to loc. 1522. 1493

1452 Attempt 1 @ 1493.

5.7 ft recovery / 11 ft drive. 51.8%.

Stop sampling at 1493 due to current; will attempt again later in the week.

36

S. Replinger

6-24-2024

1320 Hold because of many barges blocking river. (Boyer North).

Barges vacating area at 1438.

1600 First attempt at SC1438. Accepted.

11.50 ft recovery / 11 ft drive. 104.5%

1615 Scope 1450. Still ~90 ft under riverboat.

Head back to manna.

1630 Arrive at Harbor Island Manna.

Demob for the day.

1645 Depart manna. End of field day.

S. Replinger
6-24-2024

C. Christensen

6-25-24³⁷

0815 Arrive at harbor island manna,
meet crew, prepare for sampling.
Crew:

Claire Christensen } windward
Suzanne Replinger }

Pete Jenkins

Jake Longden } Gravity

Logan Nelson

0835 Depart to meet S. Replinger at
off^{er} boat ramp.

0850 Pick up S. Replinger.

0900 Health & safety briefing, verbal cold
screen.

0905 Depart for 1589.

0915 See 1486 is accessible, position.

0930 Attempt 1 @ IT1486 Rejected.*

~~0936~~ 2.30 ft recovery, 2.50 ft drive. 92.0%

0936 Attempt 2 @ IT1486. Accepted.
3.80 recovery, 4.80 drive. 79.2%.
Best of 3 attempts.

0950 Attempt 3 @ IT1486. Rejected.

3.10 recovery, 3.00 ft drive. 103.3%.

1008 Collect ~~SS15~~ SS1485 and IT1485.

1040 Head to IT1589. Blocked by rope.

1055 Head to Boyer locations.

* 1486 collected with vessel in vacore

Return in the Rain.

6.25.24

- 1125 Collect SS1456 and IT1456.
 1220 Attempt 4 @ 1456. Rejected due to poor penetration, move to another spot. (Hand vibracore).
 1228 Attempt 5 @ IT1463. Accepted.
 2.15 ft recovery, 3.0 ft drive. 71.7%.
 Attempted probing in area around target. Soft for first foot to foot and a half, then hitting obstructions.
 Accepted attempt 2; best recovery and drive within the area.
 1247 Collect SS1463. Rejected.
 1331 Attempt 2 @ SC1493 (vessel vibracore).
 1.50 ft recovery, 2.0 ft drive. 75.0%.
 1347 Attempt 3 @ SC1493 (vessel vibracore).
 10.5" 11.6 ft recovery, 11.5 ft drive. 100.9%.
 Accepted attempt 3. Best of 3.
 1422. Collect SS1454 and IT1454.
 1525 Collect SS1449 and IT1449
 1559 Drop samples at boat ramp.
 1620 Depart for boat ramp marina.
 1645 Arrive at marina, demob, end of sampling day.

11 6.25.24

6.26.24 39

- 0750 Arrive at Harbor Island Marina, meet crew, prepare equipment for sampling.
 Crew:
 Claire Christensen > Windward
 Kate McPeck
 Peter Jenkins
 Jake Longdon > Gravity
~~Johan Nelson~~ ^{SC} ~~Atkinson~~ Kyle Sanders
 0830 Health & Safety briefing, verbal consent screen.
 0835 Depart marina for 1448.
 0910 Arrive at IT1448. position.
 0914 Attempt 1 @ IT1448. Accepted
 2.90 ft recovery, 3.20 ft drive. 90.6%.
 0933 Attempt 2 @ IT1448. Rejected.
 1.60 ft recovery, 2.30 ft drive. 57.1%.
 0954 Attempt 3 @ IT1448. Rejected.
 Attempt 1.90 ft recovery, 2.0 ft drive. 95.0%.
 1017 Attempt 1 @ IT1457. Rejected
 2.0 ft recovery, 4.50 ft drive. 44.5%.
 1039 Attempt 2 @ IT1457. Rejected.
 0.90 ft recovery, 2.40 ft drive. 37.5%.
 1056 Attempt 3 @ IT1457. Accepted.
 2.90 ft recovery, 5.10 ft drive. 72.5%.
 1116 Head to 1318 to scope, probe.
 1152 Attempt 1 @ IT1318. Rejected
 1.90 ft recovery, 2.20 ft drive. 86.4% ~~no rain~~

- 1209 Attempt 2 @ IT1318. Rejected.
3.70 ft recovery, 4.90 ft drive. 75.5%.
- 1230 Attempt 3 @ IT1318. Accepted.
4.30 ft recovery, 5.50 ft drive. 78.2%
Best of 3 attempts.
- 1250 Head to 1447.
- 1338 Collect ~~SS1338~~ "SS1447" @ IT1447.
0-45 only due to deterioration not
to vibracore. Lots of rocks, bricks,
debris in area, and sand is too
coarse to penetrate > 45 cm with
shovel as probe.
- 1417 Collect SS1444.
- 1420 Collect SS1446.
- 1304 Attempt ~~16~~ @ IT1522 (hand core).
Fingers snapped on extraction
from sediment (hand core). Rejected.
Attempting next from vessel.
- 1512 Attempt ~~7~~ 6 @ IT1522. Accepted.
Best of 6 attempts at this location.
- 1530 Head back to marina, deliver
~~7537~~ samples to owner.
- 1540 Head back to marina, demob.
- 1605 Arrive at marina, demob, end of
sampling day

cc 6.26.24

0730 Arrive at Harbor Is Mariner. Meet crew:

Weather: Sun, 70s (forecast to 90)Crew: S. Replinger - Winchman

Ed Sloan

Mike Duffield

Kyle Sanders

Grumpy

0745 Conduct H&S briefing. Verbal card screen.

0800 Depart mariner. Head to Samsen
main berth to sample (1311 + 1312).0830 Attempt 1 @ SC1311. Rejected. Core lost.
1.5 ft recovery / 1.9 ft drive. 78.9%.0846 Attempt 2 @ SC1311. Rejected.
1.3 ft recovery / 3.0 ft drive. 43.3%.0923 Attempt 3 @ SC1311. Rejected.
1.95 ft recovery / 1.7 ft drive. 55.9%.0933 Attempt 4 @ SC1311. Accepted.
1.7 ft recovery / 2.1 ft drive. 80.9%.0948 Call Clint Harris (DMC) regarding plan
for boat relays.0956 Leave vm for Justin Wetherbee (PPM)
to discuss logistics.1010 Attempt 1 @ SC1312. Rejected.
0.6 ft recovery / 1.0 ft drive. (Refused) 60%.1025 Attempt 2 @ SC1312. Rejected.
5.5 ft recovery / 5.5 ft drive. 100%.

Rite in the Rain

1053 Attempt 3 @ SC1312. Accepted.
7.0 ft drive / 7.0 ft recovery. 100%
Accepted best of 3 attempts (attempt 3)

1105 Head to boat ramp to drop core.

1120 Depart boat ramp. Head to PPM to recon area.

1135 meet up with Justin Wetherbee and discuss plans for sampling at PPM.

GT25 - accessible

1532 - will be sampleable Tues AM

GT24 - sample Friday AM (open all day Friday)

1527/1528/1525 - Wednesday (tentative)

Send labeled map to help confirm plans.

1200 Head to AML to sample.

Note - Silver Bay location still blocked by line from barge.

1215 Prep for sample collection at 1409.

1225 Attempt 1 @ SC1409. Rejected.
5.05 ft recovery / 5.2 ft drive. 97.1%

1255 Attempt 2 @ SC1409. Accepted.
14.8 ft recovery / 17 ft drive. 87.1%

1315 Head to boat ramp to deliver core.

1330 Depart boat ramp. Head to DMC to discuss logistics with Clint Harris.

1335 Meet Clint & discuss plan.

Tentatively plan on 1372 on Thurs. AM.

1350 Shade/hydration break.

1405 Head to AML (1411/1413)

1424 Attempt 1 @ IT1411. Accepted.

8.15 ft recovery / 9 ft drive. 90.6%.

1441 Attempt 1 @ 1413. Accepted.

9.85 ft recovery / 10 ft drive. 98.5%

1455 Bring cores to boat ramp.

1505 Depart boat ramp.

Head to IT1591 (0-45 only) - Inlet at 2.2 W

1517 Attempt 1 @ IT1591. Accepted.

2.9 ft recovery / 3 ft drive. 96.7%.

1530 Drop core at boat ramp. Head back to manna.

1600 Arrive at Harbor Island Manna.

Plan / prep for Tuesday sampling.

1625 Depart manna.

End of field day.

S. Replinger

7.8.2024

44 7/9/24

K. McPeak

0735 Arrive Harbor Island Marina, meet
crew, prepare for sampling
Weather: 60s, sun, high into 90s
Crew: K. McPeak - Winward
E. Sloan
M. Duffield } Gravity (Tieton)
K. Sanders

0800 H+S meeting, verbal corvid screen
Global barge crew: (Pudhoe Bay)
Ryan Dimmock
Ernie Cheeka

0825 Depart marina for Papiile

0850 Arrive SC1532, scope target, barge
moves into position, set up sampling
equipment

0940 Attempt 1 @ SC1532, rejected -
8.3 ft recovery / 15.2 ft drive, 54.6%
barrel sheared off in sediment
but retrieved with core undisturbed

1153 Attempt 2 @ SC1532, accepted
14.7 ft recovery / 17.0 ft drive, 86.5%
barrel sheared off but core retrieved
undisturbed

1245 Attempt 3 @ SC1532, rejected
1.6 ft recovery / 1.3 ft drive to refusal
123.1% (accepted best 3 attempts)
attempt 2

7/9/24

K. McPeak 45

1335 Global departs

1345 Head to 1340, anchor

1409 Attempt 1 @ SC1340

15.4 ft recovery / 19.0 ft drive

81.1%, accepted

Shear: -2.5 ft to -30.0 ft MLW: 9.5 ft

Confirmed acceptable w/ S. Replinger.

(Target was -41 ft MLW; got to -39.5 ft
w/ 20 ft barrel.)

1500 Head to 1337, 1329 - confirmed blocked
by barge

1505 Head to boat ramp to help w/ processing
of core extraction

1620 Depart boat ramp for marina

1640 Arrive marina, unload, off-water

Rite in the Rain

46 7/10/24

K. McPeak

- 0645 Arrive Harbor Island Marina, meet crew,
prepare for sampling
Weather: 60s, sunny, highs in 80s
Crew: K. McPeak, Windward
M. Duffield
K. Sanders
J. Langdon
- 0705 HHS meeting, verbal rapid screen
- 0720 Depart marina for PacPile
- 0750 Arrive IT1527
- 0759 Attempt 1 @ IT1527
6.6 ft recovery / 7.5 ft drive
88.0%; accepted
- 0800 Global barge arrives
- 0820 Anchor next to Global barge @ SC1528,
prep for sampling from barge
- 0857 Attempt 1 @ ^{IT}SC1528 - collected as close
to target as possible (up against PacPile
barge) - mudline is intertidal
12.0 ft recovery / 13.0 ft drive to refusal
92.3%; accepted - best of 3 attempts
- 0946 Attempt 2 @ ^{IT}SC1528; rejected
12.4 ft recovery / 12.0 ft drive to refusal
103.3%
- 1028 Attempt 3 @ IT1528; rejected
11.7 ft recovery / 12.0 ft drive to refusal
97.5%

7/10/24

K. McPeak 47

- 1055 Head to 1468, prep for sampling from
barge, anchor
- 1209 Attempt 1 @ SC1468
6.2 ft recovery / 5.9 ft drive to refusal
105.1%; rejected
- 1239 Attempt 2 @ SC1468
22.7 ft recovery / 24.0 ft drive
94.6%; accepted
- 1320 Head to 1341
- 1330 Arrive 1341, S. Replinger contacts
DMC about dock access to tie off,
if needed, anchor, prepare for
sampling from barge
- 1408 Attempt 1 @ SC1341; accepted
18.4 ft recovery / 23.0 ft drive to refusal
80.0%, Shovel: -16.4 ft to -30.0 ft MLLW:
13.6 ft
- 1458 Attempt 2 @ SC1341; rejected
11.9 ft recovery / 12.0 ft drive to refusal
99.2%, per S. Replinger will
process attempt 1 (very close to core
target of -41 ft MLLW)
- 1530 Global barge departs
- 1540 Head to marina
- 1610 Arrive marina, unload, off-water

Rite in the Rain

48 7/11/24

K. McPeck

- 0640 Arrive Harbor Island Marine, meet crew,
prepare for sampling
Weather: 60s, sun, highs in 80s
Crew: K. McPeck - Windward!
M. DeHoff
K. Sanders } Gravity
T. Langdon }
- 0705 HOS meeting, verbal covid screen
- 0725 Depart marina for DMC
- 0745 Arrive 1372
- 0806 Attempt 1 @ SC1372; rejected
1.1 ft recovery / 1.5 ft drive, 73.3%.
- 0817 Attempt 2 @ SC1372
4.8 ft recovery / 5.0 ft drive to refusal
96.0%, rejected
- 0834 Attempt 3 @ SC1372
11.8 ft recovery / 15.0 ft drive to refusal
78.7%; accepted (best of 3)
- 0905 Head to 1374, located on concrete shelf,
moved 20 ft from target to area with
sediment.
- 0915 Attempt 1 @ IT1374
2.5 recovery / 3.1 ft drive to refusal
83.3%; rejected
- 0946 Attempt 2 @ IT1374
1.9 ft recovery / 3.0 ft drive to refusal
63.3%; rejected



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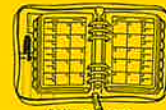
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MR Phase II



Rite in the Rain®

ALL-WEATHER

LEVEL

Nº 311FX

Coring Vessel

7/11/24 - 8/02/24

Book 3/3

2 7/11/24 (continued from previous logbook) K. McPeck

- 0956 Attempt 3 @ IT1374
3.1 ft recovery / 4.5 ft drive
68.9%; accepted
Discussed 3 attempts w/ S. Replinger.
Keeping attempt 3 - best drive of 3.
- 1015 Head to 1373
- 1037 Attempt 1 @ IT1373
0.7 ft recovery / 2.0 ft drive to refusal
35.0%; rejected
- 1044 Attempt 2 @ IT1373
0.0 ft recovery / 2.3 ft drive to refusal
0.0% - no recovery; rejected
- 1056 Attempt 3 @ IT1373
4.8 ft recovery / 6.0 ft drive to refusal
80.0%; accepted (best of 3)
- 1115 Head to 1376
- 1119 Attempt 1 @ IT1376
0.9 ft recovery / 2.0 ft drive to refusal
45.0%; rejected
- 1129 Attempt 2 @ IT1376
1.8 ft recovery / 2.0 ft drive to refusal
90.0%; accepted (best of 3)
- 1142 Attempt 3 @ IT1376
1.8 ft recovery / 3.0 ft drive to refusal
60.0%; rejected
- 1205 lunch break

7/11/24

K. McPeck 3

- 1225 Head to 1347, tie up to bridge pilings.
Sampling at this location without Global
barge due to safety concerns with being
under the bridge. Will drive as deep as possible
with 20 ft barrel.
- 1242 Attempt 1 @ SC1347 ^{with 20 ft barrel.} _{shores - 19.9 ft to -30.0 ft: 10.1 ft}
12.8 ft recovery / 16.5 ft drive to
refusal, 77.6%; accepted - best of 3
- 1314 Attempt 2 @ SC1347
10.4 ft recovery / 17.0 ft drive to refusal,
61.2%; rejected
- 1342 Attempt 3 @ SC1347
12.4 ft recovery / 16.0 ft drive to
refusal, 77.5%; rejected
- 1412 Head to 1346, check mudline: ~ 26.2 ft
- 1425 Head to Marina
- 1445 Arrive Marina, unload, off-water

Return

Rite in the Rain

4 7/12/24

K. McPeak

- 0700 Arrive Harbor Island Marina, meet crew,
prepare for sampling
Weather: 60s, sun, highs in 80s
Crew: K. McPeak - Windward
M. Dufield
K. Sanders } Crumby
J. Langdon }
- 0720 H&S meeting, verbal sound screen
- 0735 Depart marina for DMC
- 0800 Arrive 1377, position as close to target
as possible while avoiding riprap -
~25 ft from target
- 0812 Attempt 1 @ IT1377
1 ft drive to refusal w/ no recovery
- 0824 Attempt 2 @ IT1377
1.5 ft drive to refusal w/ no recovery
- 0836 Attempt 3 @ IT1377
1.5 ft drive to refusal w/ no recovery.
Will return to hand collect @ low tide
- 0830 Head to 1378 as K. Kerns arrives
- 0847 Head to 1378, probe off riprap / target
to locate soft area to sample -
~10.5 ft toward FNC from target
- 0854 Attempt 1 @ IT1378
2.1 ft recovery / 3.0 ft drive to refusal
70.0% ; accepted (best of 3 attempts)

7/12/24

K. McPeak⁵

- 0914 Attempt 2 @ IT1378
1.4 ft recovery / 2.5 ft drive to refusal
56.0% ; rejected
- 0926 Attempt 3 @ IT1378
0.5 ft drive to refusal, no recovery
- 0943 Head to 1590, probe for sediment away
from riprap where target is located
- 1017 Attempt 1 @ IT1590 (~20 ft from
target; away from riprap)
3.6 ft recovery / 5.0 ft drive to refusal
72.0% ; accepted
- 1038 Attempt 2 @ IT1590
3.1 ft recovery / 4.5 ft drive to refusal
68.9% ; rejected
- 1055 Attempt 3 @ IT1590
4.3 ft recovery / 4.5 ft drive to refusal
95.6% ; rejected - bottom ~0.4 ft
missing.
Discussed w/ K. Kerns + S. Roplinger -
will process attempt 1.
- 1115 Head to 1592, target is on top of
concrete wall; moved away from
wall & riprap - ~10 ft from target
- 1123 Attempt 1 @ IT1592
0.1 ft recovery / 1.0 ft drive to refusal
10.0% ; rejected - hit woody debris *hit in the rain*

6 7/12/24

K. McPeak

- 1141 Attempt 2 @ 1T1572, ~25 ft from target; 1.6 ft recovery / 2.0 ft drive to refusal, 80.0%; rejected
- 1153 Attempt 3 @ 1T1592, ~25 ft from target; 1.9 ft recovery / 2.5 ft drive + refusal, 76.0%; accepted (best of 3)
- 1215 Head to boat ramp for shade and lunch break
- 1245 Depart to scope locations near bridge, anchor at 1346 (revised).
- 1303 Attempt 1 @ SC1346
8.6 ft ^{recovery} drive / 10.0 ft drive to refusal
86.0%; accepted (best of 3)
- 1322 Attempt 2 @ SC1346
7.7 ft recovery / 11.0 ft drive + refusal
70.0%; rejected
- 1338 Attempt 3 @ SC1346
6.7 ft recovery / 6.5 ft drive to refusal
103.1%; rejected
- 1400 Head to boat ramp to deliver cores, K. Kerns departs
- 1412 Head to 1558, anchor
- 1436 Attempt 1 @ SC1558 (revised coordinates)
4.7 ft recovery / 7.0 ft drive
67.1%; rejected

7/12/24

K. McPeak

- 1448 Attempt 2 @ SC1558
5.9 ft recovery / 7.0 ft drive
84.3%; accepted
Shoal: -18.1 ft to -20.0 ft MLLW: 1.9 ft
- 1505 Head to boat ramp
- 1515 Arrive boat ramp, deliver paperwork
- 1520 Depart for marina
- 1545 Arrive marina, unload, off-water

Kinda wet

Rite in the Rain.

7115124

H. Sharkey

830

Arrive at harbor island marina

Weather: 60s, cloudy. Afternoon 75

Crew: H. Sharkey

M. D. Field

K. Sanders

J. Langdon

Gravity

845

mobbing to boat ramp

850

pick up S. Replinger (WW) + N. Grdehly (CRA)

900

Health + Safety meeting

930

Arrive @ SC 1345 anchoring

955

Attempt 1 @ SC 1345

15.40' recovery, 81.1% **ACCEPTED**

1045

mobbing to IT 1594 → target - 6 ft MLW

1116

Attempt 1 @ IT 1594

2.6 recovery, 78.8%

1122

Attempt 2 @ IT 1594

9.9 recovery, 70.9%

1143

Attempt 3 @ IT 1594

3.9 recovery, 67.2% **ACCEPTED**

1200

mobbing to IT 1595

1213

Attempt 1 @ IT 1595

5.2 recovery, 80%

1234

Attempt 2 @ IT 1595

3.8 recovery, 92.7%

1254

Attempt 3 @ IT 1595

5.5 recovery, 88.7%

Best of 3 Attempts accepted

1300

lunch

1235

mob to IT 1596

Attempt 1

1345

6 recovery,

1355

Attempt 2

5 recovery

1407

Attempt 3

3.1, 81.6%, best of 3 **ACCEPTED**

1420

mob to IT 1597

Attempt 1

0 recovery

1439

ATTEMPT 2

0.40' recovery

1444

Attempt 3

0' recovery

1450

probing w/ boat hook to find soft spot

1500

Mike calling stop work on this location due to rocks

1510

Scouting inlet 1599

will need to move

1520

Attempting ~~1600~~ 1601

Rite in the Rain.

1527

Attempt 1

ACCEPT

rec. 7.9' 75.2'.

1540

boat to ramp to drop off cores

1540

mobilization back to marina

1615

back @ marina, unload & offload

fly

- 6.4
8.86

7/16/24

H. Sharkey¹¹

1200

Arrive @ harbor Island boat marina

Weather: Sunny low 80s

Crew: H. Sharkey

M. Duffield

K. Sanders

J. Langdon

1210

mobbing to boat ramp
to pick up K. Kerns

1230

@ boat ramp, Health & Safety meeting

1240

mobbing to IT 1593

1258

Attempt 1

rec 0.40' ; 40'.

1315

Attempt 2

rec 2.90 ; 58'.

ACCEPTED

1324

rec Attempt 3

best of 3

rec 1.2 ; 20'.

1341

checking distance to target
@ 1599

1351

tried vibing hit refusal
and moved

1359

Attempt 1

rec 1.40' ; 50'.

1411

Attempt 2

rec 5.9' ; 78.6'.

ACCEPTED

best

1430

mob to IT 1598

Rite in the Rain.

1445

Attempt 1

rec 1.7', 89.5'.

ACCEPTED
best of 3

1501

Attempt 2

rec 1.2', 80.0'.

1616

Attempt 3

rec 1.5', 78.9'.

1530

probing for Soft Spot
@ IT 1600

Attempt 1

Ø; Ø

1600

Attempt 2

rec: 4.9', 98'.

1614

Attempt 3

rec 5.1', 98'.

ACCEPTED
best of 3

1635

mobbing to IT 1602

1644

Attempt 1

rec Ø, Ø

1656

Attempt 2

rec Ø, Ø

1705

Attempt 3

rec Ø, Ø

1710

moving to 1610

1730

Attempt 1

rec 1 ft, 100'.

1748

Attempt 2

rec 1.4ft, 92.8'.

ACCEPTED

1801

Attempt 3

rec Ø, Ø

1627

moving to 1607

trying since w/ less fingers

1840

Attempt 1 IT 1607

rec 6.70 94.3'.

1900

mob to boat ramp to

drop cores + drop k. kerns

1915

mob to marina

1935

back @ marina, unload + off water

fly

7/17/24

H. Sharky

1300 Arrive @ harbor Island Marina

Weather: Sunny mid-80s

Crew: H. Sharky

Ed Sloan

Kyle + Kevin

1315 Health + Safety meeting

1320 mobilization to boat ramp

1335 @ boat ramp

1340 mobilizing to 1603

1356 Attempt 1

rec 2.20 62.8'.

ACCEPTED

1412 Attempt 2

rec 1.9 95%

1425 Attempt 3

rec 1.8 54%

1445 mobilization to 1604

Attempt 1

rec 0.80 80%

1500 probing to find Softer Spot

1517 Attempt 2

rec 0.5 100%

1530 Attempt 3

rec \emptyset \emptyset

1540 mobbing to 1608 + probing

Attempt 1

1548 rec \emptyset \emptyset

Attempt 2

rec \emptyset

Attempt 3

 \emptyset

1610 Call w/ Su

1620 probed 5ft west of

target hard

Continuing west

10ft west hard

1626 moving to IT 1606

1635 Attempt 1

rec 3

1650 Attempt 2

rec 3.2

1712 Attempt 3

rec 4.6 ft 92%

ACCEPTED

best of 3

1730 mob to IT 1605

Attempt 1

rec 4.5' 90%

1748 Attempt 2

rec 5' 71.4%

1814 Attempt 3

rec 7' 100% 93.3%

ACCEPTED

1845 mobbing to boat ramp

dropped off 1605

Rite in the Rain

1400 mobbing to marina
 1415 back @ marina unload + off water

1602 + 1604 → gik
 to leave
 South side pole around

7/18/24

H. Sharkey¹⁷

1305 Arrive @ harbor Island Marina
 weather: Sunny 80s
 crew: H. Sharkey

E. Sloan

K. Sanders

K. Kuntz

1305 Health + Safety meeting + plan
 for the day

1315 mobilization to boat ramp

1330 at boat ramp

1350 mobilization to 1597 to
 probe

1400 found one soft spot + trying
 8 ft tube due to water depth

1417 Attempt 4

rec 2.5 100%

ACCEPTED

1430 probing south shore to
 see if we can find anything
 soft closer to shore

1440 marked soft spots

1455 mobilizing to 1609
 waiting for water

1521 moving further towards
 outfall; looking for soft spot

1525 probing → hitting rock throughout
 area

Rite in the Rain.

~ 10 ft west of target found
Softer spot (about .5')
then hitting rock w/ probe
attempting a core

1534 Attempt 1 1609

rec .5' ; 100%

1548 Attempt 2 1609

rec \emptyset ; \emptyset

1553 Attempt 3 1609

rec 1.75 87.5% ACCEPTED

1610 mob to boat ramp
dropping cores

1640 mobbing to JT 1602

1654 Attempt 4

rec \emptyset

1705 Attempt 5

rec 1.5 75% ACCEPTED

1730 probing area to find
good spot all "soft"
areas are within 10 ft
of an already accepted
core; moving on to relocated

1604

1740 probing around relocated
1604

1748 Attempt 1 (4) ACCEPT

rec. \emptyset . 80, 90%

1801 Attempt 2 (5)

rec 1, 100%

1816 Attempt 3 (6)

rec 5, 50%

1830 mobilizing to new
location 1611

1904 Attempt 1

rec 5.6' 93% ACCEPTED

1924 mobilizing to new
location 1612

1926 Attempt 1 ACCEPTED

rec 6.5 81.5%

1945 mobilizing to boat ramp

2000 mobilizing to harbor Marina

2030 back @ Marina unload +
off water

20 7/25/24

K. McPeck

0610 Arrive Harbor Island Marina, meet

crew, prepare for sampling

Weather: 60s, overcast

Crew: K. McPeck - Woodward

P. Jenkins

E. Sloan

J. Schater

Gravity

0625 H&S meeting, verbal rapid screen

0640 Depart marina for Silver Bay

0705 Arrive 1589

0717 Attempt 1 @ 171589

4.4 ft recovery / 4.5 ft drive to refusal, 97.8%, rejected

0737 Attempt 2 @ 171589

2.7 ft recovery / 3.0 ft drive to refusal 90.0%, rejected

0759 Attempt 3 @ 171589

6.6 ft recovery / 8.0 ft drive 82.5%, accepted

0827 Head to 1552, position to avoid wing dam/structure and utility corridor buffer

0850 Attempt 1 @ 171552

no recovery / 0.4 ft drive to refusal

0858 Attempt 2 @ 171552

1.0 ft recovery / 1.0 ft drive to refusal 100.0%, rejected

7/25/24

K. McPeck²¹

0913 Attempt 3 @ 171552

4.3 ft recovery / 6.5 ft drive to refusal 66.2%, lost bottom ~2 ft of core to wash out (sandy material); accepted

0937 Attempt 4 @ 171552 (making 4th attempt after discussing w/ S. Replinger)

1.4 ft recovery / 2.2 ft drive to refusal 63.6%, rejected

0953 Discussed w/ S. Replinger. Accepting attempt 3 as best of 4 despite wash out

1000 Head to 1551, anchor

1007 Attempt 1 @ 171551

4.1 ft recovery / 4.3 ft drive to refusal 95.3%, accepted (best of 3)

1026 Attempt 2 @ 171551

2.5 ft recovery / 3.5 ft drive to refusal 72.4%, rejected

1042 Attempt 3 @ 171551

4.1 ft recovery / 4.0 ft drive to refusal 102.5%, rejected

1105 Head to 1556 (revised coordinates), probe for sediment, position in potentially sample-able area (target is on riprap)

1129 Attempt 1 @ 171556

2.8 ft recovery / 5.0 ft drive 56.0%, rejected

Rite in the Rain

22 7/25/24

K. McPeak

- 1151 Attempt 2 @ IT1556
2.2 ft recovery / 2.5 ft drive to refusal
88.0%; rejected
- 1206 Attempt 3 @ IT1556
4.0 ft recovery, 4.5 ft drive to refusal
88.9%; accepted (best of 3 attempts)
- 1225 lunch break
- 1250 Head to 1554, anchor
- 1311 Attempt 1 @ SC1554
3.6 ft recovery / 11.0 ft drive
32.7%; rejected - tube tipped over.
Will return when there is less current
- 1330 Head to 1451, tie up to riverboat as
close to target as possible (~15 ft from
target)
- 1358 Attempt 1 @ SC1451
19.8 ft recovery / 17.0 ft drive
116.5%; accepted
Shoal: -15.6 - -20.0 ft MLLW: 4.4 ft
- 1435 Deliver core to boat ramp
- 1450 Head to 1487 (grab location); location
is blocked
- 1505 Head back to ~~1451~~ 1554
- 1518 Attempt 2 @ SC1554
5.5 ft recovery / 5.7 ft drive to
refusal, 96.5%; accepted (best of 4)

7/25/24

K. McPeak

- 1544 Attempt 3 @ SC1554
2.5^{pm} ft recovery / 5.0 ft drive to refusal
50.0^{pm}%; rejected
- 1606 Attempt 4 @ SC1554
no recovery / 1.0 ft drive to refusal
- 1620 Head to marina
- 1650 Arrive marina, unload, off-water

Wreck

Return to the River

24 7/26/24

K. McPeck

- 0645 Arrive Harbor Island Marina, meet crew,
prepare for sampling
Weather: 60s, sunny
Crew: K. McPeck - Windward
P. Jenkins
E. Sloan
J. Schaffer } Gravity
- 0710 H+S meetings, verbal covid screen
- 0720 Depart marina 1553
- 0745 Arrive 1553 (revised coordinates), anchor
- 0757 Attempt 1 @ 1T1553
0.9 ft recovery / 1.6 ft drive
56.3%, rejected
- 0812 Attempt 2 @ 1T1553
1.2 ft recovery, 2.2 ft drive to refusal
54.5%, rejected, void in bottom of core
- 0825 Probe at 1553 for sediment - very rocky;
attempt again ~30 ft from target
- 0845 Attempt 3 @ 1T1553
0.4 ft recovery / 1.1 ft drive to refusal
36.4%, rejected - bottom of core washed
out
- 0900 Notified S. Replinger - no recovery @ 1553
- 0905 Head to 1555 (revised coordinates), anchor
- 0916 Attempt 1 @ 1T1555
2.5 ft recovery / 2.9 ft drive to refusal
86.2%, accepted

7/26/24

K. McPeck 25

- 0937 Attempt 2 @ 1T1555
2.6 ft recovery / 3.0 ft drive to refusal
86.7%, rejected - void in bottom
- 1001 Attempt 3 @ 1T1555
4.5 ft recovery / 7.9 ft drive
57.0%, rejected
- 1020 Head to new location ^{km} 1404 Text w/ S.
Replinger RE 1555 attempts. Will
send attempts 1+3 to processing &
remeasurement after settling.
- 1035 Head to new location 1404 (new for
coring)
- 1042 Arrive 1404, anchor
- 1049 Attempt 1 @ 1T1404
5.0 ft recovery / 4.6 ft drive to refusal
108.9%, accepted (best of 3)
- 1103 Attempt 2 @ 1T1404
2.9 ft recovery / 4.0 ft drive to refusal
72.5%, rejected
- 1122 Attempt 3 @ 1T1404
0.8 ft recovery / 3.0 ft drive to refusal
26.7%, rejected
- 1137 Head to 1553, probe for sediment ^{to} and ^{km}
make another attempt
- 1206 Attempt 4 @ 1T1553
4.6 ft recovery / 4.9 ft drive ^{Rate in the Run}
93.9%, accepted (best of 4 attempts)

26 7/26/24

K. McPeck

- 1230 Head downriver to check Sumson
barge movement, lunch break
- 1245 Head to processing to unload supplies
- 1320 Depart for marina
- 1345 Arrive marina, unload, off-water

8/1/24

K. McPeck 27

- 1230 Arrive Harbor Island Marina, meet
crew, prepare for sampling
Crew: K. McPeck - Windward
E. Sloan } Granty
J. Schaefer }
- Weather: 80s, sun
- 1245 H&S meeting, verbal covid screen
- 1255 Depart marina for SS1487
- 1315 Arrive 1487, scope access - still blocked
by barge
- 1317 Head to 1450, Scope area behind
riverboat, get as close to target as
possible - ~35 ft (target is under
riverboat)
- 1332 Attempt 1 @ 1T1450
6.6 ^{km} 6.9 ft recovery / 9.9 ft drive
6.67 / 6.4 ^{km} 6.1; ~~rejected~~ accepted
- 1354 Attempt 2 @ 1T1450
6.7 ft recovery / 9.9 ft drive
6.7.7%; ~~accepted~~ rejected
- 1421 Attempt 3 @ 1T1450
6.3 ft recovery / 10.0 ft drive
63.0%; rejected
- 1510 Accepted attempt 1 @ 1T1450 -
attempt 2 lost (not extractable due
to sand between barrel & liner)
note in the rain.

28

8/1/24

K. McPeck

- 1524 Attempt 4 @ IT1450 - short core to
use for surface sample (SS1450)
0.9 ft recovery / 1.1 ft drive
81.8%; accepted
- 1533 Attempt 5 @ IT1450 - short core to
use for surface sample (SS1450)
0.6 ft recovery / 1.6 ft drive
37.5%; rejected
- 1546 Attempt 6 @ IT1450 - short core for
SS1450
4.0 ft recovery / 4.9 ft drive
81.6%; accepted
- 1600 Head to processing to store cores in
cooler overnight
- 1605 Arrive boat ramp, unload cores
- 1639 Depart boat ramp for marina
- 1700 Arrive marina, unload, off-water

8/2/24

K. McPeck 29

- 0550 Arrive Harbor Island Marina, meet
crew, prepare for sampling
Weather: 60s, clear, high upper 80s
Crew: K. McPeck - Windward
E. Sloan
J. Schuster } Gravity
- 0615 H&S meeting, verbal cold screen
- 0625 Depart marina for Samson
- 0640 Arrive Samson, wait for barges to move
- 0750 Barge moves, head to 1329, anchor
- 0804 Attempt 1 @ SC1329
8.3 ft recovery / 8.1 ft drive + refusal
101.9%; rejected
- 0829 Attempt 2 @ SC1329
7.9 ft recovery / 7.6 ft drive to refusal
103.9%; rejected
- 0850 Attempt 3 @ SC1329
10.1 ft recovery / 10.4 ft drive to refusal
97.1%; accepted (best of 3)
- 0910 Head to SS1331 to collect short cores
for 0-10 cm processing
- 0915 Attempt 1 @ SS1331
1.8 ft recovery / 2.2 ft drive
81.8%; accepted
- 0926 Attempt 2 @ SS1331
1.5 ft recovery / 2.0 ft drive, *Rate in the Rain*
75.0%; accepted

8/2/24

K. McPeak

- 0940 Head to 1337, anchor
 0946 Attempt 1 @ SS1337
 19.9 ft recovery / 20.0 ft drive
 99.5%, accepted
 1020 Return to SS1331 to collect one additional
 short core for surface sediment
 1025 Attempt 3 @ SS1331
 2.0 ft recovery / 2.4 ft drive
 83.3%, accepted
 1037 Head to boat ramp to deliver cores
 1042 Arrive boat ramp, deliver cores to
 processing
 1107 Depart boat ramp to scope SS1487
 1120 SS1487 is still blocked, not accessible
 w/in 150 ft of target
 1123 Head back to boat ramp to unload
 equipment
 1142 Depart boat ramp for marina
 1210 Arrive marina, unload, off-water

~~leave~~

**—DEFYING—
MOTHER NATURE®**

SINCE 1916



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Item No. 311FX

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US Pat No. 6,863,940



LDW MK Phase II



Rite in the Rain

ALL-WEATHER

LEVEL

No 311FX

processing site

5/13/24 — 8/02/24 cc

Book 7/1 — 8/15/24



BOOK 1/1

5/13/24

Cloudy mid 50s

-0815 Arrive @ site

Amara Vandervoort

Claire Christensen

Andy Zacek Delaney Stokes

Alaina Bush

Linda Vate Brattstrom

Nik Bacher

Claudia Woodward

Jordan Cooper

830 set up processing list at site.

0853 Health & Safety Briefing

0900 Prep for processing

1640 Process cores 1620 samples to counter

1640 J. Cooper leaves

1730 all leave processing site

~~AV~~
5/13/24

5/14/24

Sunny and low 60s

0820 Arrive @ site

Claire Christensen

Delaney Stokes

Andy Zacek

Amara Vandervoort

Audrey White

Claudia Woodward

Linda Vate Brattstrom

Nik Bacher

Alaina Bush

0840 Jordan Cooper

08 Set up processing site

0905 Health & safety briefing

0920 Begin processing cores

1624 Counter picks up samples

1641 J. Cooper departs

Clean up processing site

1710 all depart site

~~AV~~
5/14/24

5/15/24

0820 Arrive @ site

Amara Vandervort

A. White

A. Zacek

Elizabeth Grant

Jordan Cooper

Nik Bacher

Sunny + high 50's

Linda Vale Brattstrom

Alanna Bush

Delaney Stokes

Claudia Woodward

- Setup for processing

0900 Heatht Safety briefing

0 Began processing cores

1205 Rod B ^{O. Bartunek} arrives

1210 Rod B departs

1600 Nik Bacher departs.

1620 Courier arrives for samples

1724 J. Cooper departs 1650 ^{Grant} departs

Close down processing site

1740 all leave site

JV

5/15/24

cloudy low 50's

5/16/24

0822 Arrive @ site

A. Vandervort

A. White

A. Zacek

J. Cooper

C. Christensen

L. Vale Brattstrom

A. Bush

~~D. Stokes~~

C. Woodward

N. Bacher

Setup processing site.

0905 Heatht Safety briefing

0945 S. McGroddy arrives ^{begin} processing1035 S. McGroddy departs ^{cores}

1618 Courier arrives for samples.

1710 J. Cooper departs

1730 all leave site

JV
5/16/24

6 5/17/24

Low 50's Partly cloudy

0750 Arrive @ site

Amara Vandervoort Andy Zacek
Nik Bacher Linda Kate Bralston
Elizabeth Groat Delaney Stokes
Audrey Bush Jordan Casper
Claudia Woodward Alaina Bash

0800 Setup for processing

0820 Health & Safety talk

0845 Begin processing

0900 John Toll arrives

0945 John toll departs

1000 Elizabeth G. departs

1015 Jordan C. Departs

1017 Casper arrives for samples

1030 all depart

~~AV
5/17/24~~

partly sunny low 50's

5/18/24 7

0805 Arrive @ site

Linda Kate Bralston Claire Christensen
Nik Bacher Andy Zacek
Amara Vandervoort James Melton
Alaina Bush Claudia Woodward
Elizabeth Groat

Setup for processing

0835 Health & Safety meeting

0905 begin processing cores

1218 Waste mgt. dumpster emptied

1616 Canned arms for samples

1635 Elizabeth Groat departs

Finish processing & demob
site

1730 depart site

~~AV
5/18/24~~

5/22/24

Fanny upper 40's

0810 Arrive @ site

- Amara Vandervort Alaina Bush
 - James Melton Delaney Stokes
 Linda Vate Battistoni Andy Zacek
 Claudia Woodward Elizabeth Groat

0815 Green Latrine on site to
~~process~~ ^{freshen} porta potties

0835 Green Latrine departs

0905 Health Safety Briefing
Begin processing cores1300 Jake + Jeff Granity +
Kate McPeck arrive to work
on aluminum cores1457 USS Service arrives for water
fillup

1500 Granity + Kate McPeck depart

1513 USS Service departs

1622 Courier arrives for samples

break down/cleanup site

1650 E Groat departs

1655 all depart site

5/22/24

cloudy mid 50's

5/22/24

0815 Arrive @ site

- Linda Vate Battistoni Alaina Bush
 - Claudia Woodward Delaney Stokes
 - Amara Vandervort Andy Zacek
 - James Melton Elizabeth Groat

prep site for processing

0840 Health safety briefing

0855 Begin processing

1108 Pete + Jeff (Granity) + Claire C
arrive to extrude aluminum
core reject

1155 Granity departs

1557 Elizabeth G. departs

1623 Courier arrives to pickup
samplesfinish processing + cleanup site.
1733 all depart site.

5/22/24

Rite in the Rain

10

5/23/24

cloudy mid 50s

0815 Arrive @ site

A. Vandervort

Shannon Katka

Jeff Tarshis

Claudia Woodward

Andy Zacek

Ry Pearson

Alana Bush

0845 Kristen Kearns (overnight) arrives

0855 Health & safety mtg

0900 Continue to set up site & begin

processing

0945 James M

arrives

1154 Kristin Kearns departs

1430 Grady, Kyle & Jeff arrive
to dump cores1520 Claire C Delray S + Suzanne R
arrive to process

1545 Grady departs

1618 courier arrives for samples

1630 Suzanne R departs

1700 - Shannon K & James M depart

1805 Elizabeth Gross departs

1815 all depart

5/23/24

cloudy low 50s

5/24/24 11

0815 arrive @ site

C. Christensen

Claudia Woodward

J. Parker

Ry Pearson

Jeff Tarshis

James Melton

Andy Zacek

Alana Bush

A. Vandervort

c prep for processing

0900 Health & Safety mtg

0955 Claire C departs

1048 Katy Gross arrives

1120 Katy Gross departs

1502 Claire C returns w/ surface
samples.

1604 all but Woodward depart.

1630 UW departs

AV

5/24/24

5/28/24

Cloudy low 50's

0820 arrive @ site

Amara Vandervort Andy Zacek

Linda Vate Brattstrom Alaina Bush

Elizabeth Groat Delaney Stokes

Ry Pearson Kim Tran

prep site for processing

0855 Health and safety tailgate

0905 Begin processing

1408 Clean Latrine arrives to service
porta potty

1416 Clean latrine departs

1522 USS Service arrives for pump out
Hyd tank full.

1544 USS Service departs

1618 Courier arrives for samples

1732 E Groat departs

1750 Denob site

~~1850 all depart safely~~

5/28/24

5/29/24

Cloudy low 50's

0820 Arrive at site

Claire Christensen

Andy Zacek

Amara Vandervort

Ry Pearson

Linda Vate Brattstrom

Alaina Bush

Elizabeth Groat

Kim Tran

prep site for processing

0855 Health and safety meeting

0920 C. Christensen and L. Vate Brattstrom

depart for storage unit to load gear.

0955 C. Christensen and L. Vate Brattstrom return
to processing site.1030 Begin processing. A. Vandervort
departs for office to scan forms
and get supplies.

1150 A. Vandervort returns to site.

1530 E. Groat leaves

1618 Courier arrives, transfer samples.

1630 All depart safely.

CC
5/29/24

14

5/30/24

cloudy, low 50's

0815 Arrive at site

Claire Chinterton

Alana Bush

Delaney Stokes

Kim Tran

Linda Vate Brattstrom

Ry Pearson

Andy Zacek

Elizabeth Grant

prepare site for processing.

0845 Health and safety briefing.

0930 Begin processing.

1050 E. Grant departs due to illness.

1400 A. Vanderhoff Arrives.

1629 Hand off samples to courier.

1635 Demob site.

1655 All depart safely.

5/31/24

~~5/30/24~~

sunny high 80's

cloudy, low 50's

0815 Arrive @ site

Kim Tran

Amara Vanderhoff

Delaney Stokes

Linda Vate Brattstrom

Ry Pearson

Rachel Crowley

prepare site for processing

0855 Health & Safety briefing.

0910 Begin processing.

1225 Andy Zacek arrives

1351 Claire C arrives

1605 Claire C departs

1619 Courier arrives for samples

1710 Demob site

1740 All depart

AV
5/31/24

Rite in the Rain

6/14/24

50s cloudy

0930 arrive @ site

Claire Christensen Audrey White

Alana Bush Luke Maddux

Jeff Tarshis Hunter Kurta

Anna Vandervoort Kim Tran.

prep for processing

1000 Health & Safety Briefing

1009 informed coring boat crew
a hydraulic line.

Demob processing site

1025 all but C. Christensen & A. Vandervoort
depart ^{stay to} support IT crew.1315 C. Christensen & A. Vandervoort
depart~~AV
6/14/24~~

low 60's sunny

6/15/24

0930 D. Stokes & A. Vandervoort @ site

Unload Supplies

0955 Alana Bush Luke Maddux

Audrey White Kim Tran

Jeff Tarshis Rachel Criley

prep for processing

1015 Health & Safety Briefing

1025 Begin processing corals.

1445 El. Elizabeth Groat arrives

1500 S. Replinger, C. Christensen,

L. Vate Brattstrom arrive,

1600. S. Replinger departs

1618 Courier arrives to pick up samples

1730 C. Christensen & L. Vate Brattstrom

depart
1825 E. Groat departs

1830 Demob site

1855 All depart

~~AV
6/15/24~~

6/6/24

Sunny low 60s

0950 Arrive site

Amara Vandenberg Kim Tran

Luke Maddux Alana Bush

Andy Zacek Rachel Crowley

Shaman Katka

1010 Health & Safety briefing

1015 prep for and begin processing

1045 Seattle Barrel Co. delivers

1100 E Hale ^{arrives} waste barrels 1100 Ely Hale ^{arrives}1300 S. Replinger arrives ^{E. Groat}

1530 D. Stokes + C. Christensen arrive.

1605 S. Replinger departs 1623 courier ^{arrives for samples}

1645 S. Katka departs

1750 E. Groat departs

1800 Demob site

1815 All depart

cl 6/6/24

C. Christensen

6/7/24 19

1015 Arrive at site

Claire Christensen Alaina Busin

Delaney Stokes Elizabeth Grant

Luke Macdoux

Jeff Tarshis

Andy Zacek

Sunny, 60's

1045 Health & safety brief, verbal covid screen.

1050 Begin processing

1605 S. Replinger, K. McPeck, L. Vate

Brattstrom arrive and help process samples.

1636 Courier arrives and takes samples.

1620 D. Stokes departs.

1645 All depart

cl 6/7/24

6/10/24

cloudy 60s

0745 Arrive at site

Claire Christensen Elizabeth Groat

Delaney Stokes Alaina Bush

Linda Vale Brattstrom

Samson Zeremariam

Hunter Kunta

James Melton

0755 Prepare site for processing

0830 Health & Safety meeting

0840 Begin core processing.

1040 Kate McPeck arrives.

1500 Kate McPeck departs

1521 Courier arrives; transfer samples

1517 All except C. Christensen and
D. Stokes depart.1530 C. Christensen and D. Stokes depart.
End of field day.~~6/10/24~~

cloudy high 50s

6/11/24 21

0758 Arrive @ site

Linda Vale Brattstrom James Melton

Amara Vandervort Samson Zeremariam

Andy Zuck Alaina Bush

Elizabeth Groat Delaney Stokes

Prepare for processing

0820 Health & Safety meeting

0845 Begin processing

0900 W. Manvesto empty dumpster

0915 Jing Liu from Ecdy arrives

1020 Jing Liu goes to boat

1212 Jing Liu returns

1230 Jing Liu departs

1240 Green Laine Service

1350 E. Groat departs

Demob site.

1405 All except A. Vandervort
& D. Stokes depart

1429 Carver arrives for samples

1440 D. Stokes & A. Vandervort depart

~~6/11/24~~

Rite in the Rain

6/12/24

partly cloudy 60

0750 arrive @ site

Linda Vale Bratstrom Amara
Vanderwolf

James Milton Jeff Tarshis

Samson Zeremariam Delaney Stokes

Elizabeth Groat

Prep for processing

0835 Health + Safety mtg.

0845 Begin processing

0930 A. Zacek arrives

1455 E. Groat departs

1600 demob site

1632 courier arrives for samples

1640 all depart site

~~6/12/24~~
AV

Sunny low 60s

6/13/24

0820 Arrive @ site

James Milton Amara Vanderwolf

Linda Vale Bratstrom Elizabeth Groat

Samson Zeremariam Delaney Stokes

Andy Zacek Alaina Bush.

prep for processing

0855 Health + Safety mtg

0905 Begin processing

1450S Seadrumar delivers

recycling dumpster

1620 courier arrives to pick up
samples

1630 E. Groat departs

Demob site

1700 all depart site

~~6/13/24~~
AV

6/14/24

partly sunny 60s-50s

0820 Arrive @ site

James Melton Claire Christensen
 Linda Vate Bratistram Amara Vanderhoff
 Samson Zeremariam Andy Zacek
 Alaina Bush

Setup for processing

0852 Health & Safety meeting

0940 Begin Processing

1624 Courier arrives for samples
 demarsite

1700 all depart

~~6/14/24~~

6/17/24

cloudy 50s

0830 Arrive @ site

James Melton Claire Christensen
 Linda Vate Bratistram Alaina Bush
 Samson Zeremariam Amara Vanderhoff
 Hunter Kunta

Setup for processing

0905 Health & Safety Briefing

0925 WM arrives to empty dumpster

1055 Courier arrives w/ jars
 + departs1620 Courier arrives to
 transport samples1745 C. Christensen departs
 Demob

1805 all depart

~~6/17/24~~

6/18/24

low 60s partly cloudy

0835 Arrive @ site

Amara Vandervoort James Melton
Samson Zeremariam Alan Bush
Hunter Kunta Andy Zacek
Delaney Stokes0905 ~~an~~ Setup for processing0905 Health + Safety briefing
begin processing

1055 Green Laine Service pickup

~~1545 USS fill water tanks~~1629 Connor arrives to pick
up samples

Finish processing + demob

1740 All depart

~~6/18/24~~

low 60s sunny

6/19/24

0835 Arrive @ site

Amara Vandervoort James Melton
Jeff Tarshis Samson Zeremariam
Andy Zacek Elizabeth Groat
Alaina Bush

- Set up for processing

~~0845~~
0850 Health + Safety briefing
begin processing

0945 Delaney Stokes arrives

1624 Connor arrives for samples
demob site

1635 depart.

~~6/19/24~~

6/20/24

Sunny mid 60s

0835 Arrive @ site

Delaney Stokes Anara Vandervort

James Meltan Alana Bush

Andy Zacek Hunter Kenta

Elizabeth Groat

- prep for processing

0900 walk Ecology visitors to
Support boat

0915 Health + Safety briefing

0930 Begin processing

1145 Ecology arrives Julia Schwartz
Jing Lee Priscilla Timmonson

1225 Ecology departs

1545 E. Groat departs
Sdenob1555 All but A. Vandervort + D. Stokes
depart

1622 Courier arrives for sample

1635 all depart

~~6/20/24~~

6/21/24

Sunny mid 10s

1015 Arrive @ site

Delaney Stokes James Meltan

Andy Zacek Linda Vate Brattstrom

Samsah Zeamanun Anara Vandervort

Elizabeth Groat

- prep for processing

1050 Health + Safety briefing

1100 Begin processing

1425 E. Groat departs

1635 Courier arrives for samples

1545 All depart

~~6/21/24~~

6/24/24

60s Partly
cloudy

0945 Arrive @ site

Amara Vandervoort Claudia Woodward

Hunter Kunta Linda van Borsdon

Andy Zacek Audrey White

Elizabeth Groat

prep site for processing

1040 Health + safety meeting

1433 Linda VB departs

1537 E. Groat departs

1621 courier arrives for samples

1730 demo site

1745 all depart

~~AV 6/24/24~~

70s sunny

6/25/24³¹

1155 Arrive @ site

Hunter Kunta Alanna Bush

Audrey White Andy Zacek

Amara Vandervoort

prep for processing

1230 Health + safety meeting
begin processing

1330 Green Lake Service

1627 courier arrives for samples
demo site

1700 all depart

~~AV 6/25/24~~

6/26/24

sunny 70°

1115 Arrive @ site

Delaney Stokes Amara Vandersant

Andrew White Andy Zacek

Jeff Tardis Alanna Bush

Elizabeth Groat

Unpack from storage unit
prep for processing

1145 Health + Safety mtg

Begin processing

1610 E Groat departs

Begin denob of site

1621 courier arrives for samples

1640 all depart site

~~6/26/24~~

7/8/24

sunny high 70°

0850 arrive @ site

Andrew Barrett Amara Vandersant

Kim Tran Hunter Kunta

Rachel Carley Alanna Bush

Elizabeth Groat

Setup for processing

0920 Health + Safety meeting

1100 Begin processing samples

1622 courier picks up samples

1715 E Groat departs

1745 all depart site

~~7/8/24~~

7/9/24

80's sunny

0950 Arrive @ site

Kim Tran Jennifer Parker
 Amara Vanderhoff Alaina Bush
 Glong Lin Andrew Barrett
 Elizabeth Groat

Setup for processing

1020 Health & Safety Briefing

1625 counter arrives to transport
Samples1755 E. Groat departs
demo site

1840 all depart safely

~~AV 7/9/24~~

80's sunny

7/10/24

1020 Amara Vanderhoff Nick Eckhardt
 Alaina Bush Glong Lin
 Andrew Barrett Kim Tran
 Elizabeth Groat

Setup for processing

1055 Health & safety

Process cores

1355 C. Christensen and D. Stokes arrive

1621 counter arrives for samples

1815 D. Stokes departs

1830 E. Groat departs
demo site

1900 all depart site

~~AV 7/10/24~~

80s sunny

7/11/24

- 0830 A. Vandenberg & C. Christensen arrive at site
- 0845 Ecology oversight arrive.
- 0850 Waste Management arrives and picks up waste barrels & empty trash.
- 0910 0910 ~ Ecology oversight depart on coning boat
- 1000 Waste Management depart.
- 1000 Rest of crew arrive.
Kim Tran Elizabeth Groat
Samson Hunter Kunta Andrew Barnett
Alaina Bush Rachel Crowley
- 1010 H₂S briefing.
- 1015 Begin processing. 1130 Ecology Oversight depart.
- 1322 1322 ~ USS (water) arrives.
- 1610 Corner arrives; hand off samples.
- 1600 Demob E. Groat departs.
- 1640 Demob, all depart.

cl 7/11/24

80s sunny

7/12/24

- 0950 Arrive at site
Weather: 80s sunny
Crew:
C Christensen Alaina Bush
S Ropinger Andrew Barnett
Kim Tran Rachel Crowley
Huntarkatka
- 1000 Setup site.
- 1010 H₂S briefing.
- 1020 Begin processing.
- 1626 Corner arrives, hand off samples.
- 1600 E. Groat departs.
- 1650 All depart, demob.

cl 7/11/24

Rite in the Rain

38 C. Christensen

7/15/24

- 0945 Arrive at site, ^{meet} ~~set~~ crew
C. Christensen R. Pearson
D. Stokes K. Tran
K. McPeck A. Zacek
S. Zeremarian C. Woodward
1000 Set up site.
1010 Health & safety briefing
1020 Begin processing.
1200 EPA oversight N. Erdegin arrives.
1300 EPA oversight departs.
1620 Conner arrives, hand off samples.
1650 A. Zacek departs.
1745 All depart.

cc 7/15/24

C Christensen

7/16/24 39

- 1350 Arrive at site, meet crew, prepare
for processing.
C. Christensen K. Tran
D. Stokes C. Woodward
S. Zeremarian R. Pearson
1410 H&S briefing.
1420 Green Latrine arrives to service.
1430 Begin Processing.
1355 R. Pearson & S. Zeremarian depart
to repair monitoring instrument.
1615 Conner arrives, hand off
samples
2015 Demob. & all depart

cc 7/17/24

D. Stokes 80s, sunny 7/17

1400 arrive onsite

D. Stokes K. Tran

S. Zenemanian C. Woodward

R. Pearson

1430 Health & Safety briefing

1500 R. Pearson & S. Zenemanian

depart to swap out monitor

1540 Pearson & Zenemanian return

2115 All depart

DS 7/17

K. McPeck

80s, sunny 7/18/24 41

1330 Arrive onsite

K. McPeck

S. Replinger

L. Vate Brastrom

S. Zenemanian

C. Woodward

K. Tran

R. Pearson

1430 H&S meeting

1450 begin processing

1637 Courier arrives, transfer samples

2100 All depart

K. McPeck 7/18/24

K. McPeak

SDS, Sunny

7/19/24

0845 Arrive on site

K. McPeak

D. Stokes

L. Kate Bratton

S. Benemann

C. Woodward

K. Tran

R. Pearson

0915 H&S meeting

0930 begin processing

1230 all depart

K. McPeak
7/19/24AVandora cloudy hazy 7/25/24⁴³

0850 Arrive @ site

A. Vandora L. Kate Bratton

D. Stokes H. Katka

R. Pearson S. Benemann

A. Bush E. Groats

Setup for processing

0955 Health & Safety briefing
begin processing

1625 Cowie arrives for samples

1735 all depart.

AV 7/25/24

⁴C. Christensen

7/26/24

0850 Arrive @ site, set up.

C. Christensen	E. Groat
D. Stokes	L. Vate-Brattstrom
S. Zeremariam	A. Zacek
H. Katka	

0910 H/S briefing.

0915 Begin processing.

1330 E. Groat departs.

1350 ~~CC, DS~~ All depart except CC, DS, LUB.

1416 ~~CC, DS~~ Courier arrives, hand off samples.

1430 CC, DS, LUB depart. end of sampling day.

CC 7/26/24

A. Vandervort

8/2/24

45

0820 Arrive @ site to prep for lab prep
C. Christensen D. Stokes
A. Vandervort

0855 Arrive @ site to setup for processing
C. Woodward L. Vate Brattstrom
E. Groat L. Maddux

0920 H/S briefing
Begin processing

1030 Lab carrier arrives to pickup supplies.

1230 K. McPeck arrives to help w/ processing

1605 E. Groat departs
1635 C. Woodward + K. McPeck depart.

1735 all depart

~~AV 8/2/24~~

Write in the Rain.

C. Christensen

8/15/24

0750 Arrive at site, meet crew. Weather:

C. Christensen } Windward
D. Stokes }60s
cloudy.

R. Pearson } Anchor QEA

A. Wu

Esteban M.

M. Calvert }

Holt

R. Vega

0810 Conduct Health and Safety meeting.

0945 Begin boring and processing.

1315 Finish processing, demob.

1345 All depart.

1610 C. Christensen arrives at lab and
delivers samples.

1615 End of sampling day.

cc 8/15/24

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this product are recyclable

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notes survive the rigors of the field,
regardless of the conditions.

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LDW MR Phase II



Rite in the Rain®

ALL-WEATHER
LEVEL

No 311FX

LDW - Middle Reach

Phase II Sampling

**Surface & hand
collection**

5/23/24 - 7/24/24

BOOK 1/1

S. Replinger

5-23-2024

0830 Arrive at Harbor Island Marina.

Weather: overcast, SOSCrew: S. Replinger

C. Christensen

D. Stokes

} Windward

Linda Kate Brattstrom - Cleanways

John Schaefer - Grants

Elizabeth Greer - Still.

0855 Meet crew

Load supplies and prep for sampling.

0915 Conduct H&S meeting. Verbal CADD screen.

0930 Depart marina. Head to Slip 2.

1001 Collect SS1317, and FD(T2)

1016 Collect SS1314.

1031 Collect SS1313.

1044 Collect SS1332.

1101 Collect SS1821 (under structure). - Tier 2

1116 Collect SS1316

1129 Collect SS1315.

1203 Collect IT1389. Location shifted towards waterline to avoid cobble + rip rap.

1205 Collect SS1389. Co-located with IT1389

1240 Take samples up to processing area.

1255 Depart boat ramp. Head to Slip A to do Under-Structure samples. Call Zach Jenkins to provide notice.

S. Replinger

5-23-2024

1309 Collect SS1834.

1332 Collect SS1833

1345 Collect SS1832.

1408 Collect SS1831.

1425 Collect SS1830.

1435 Head back to boat ramp to deliver samples. Call Zach Jenkins to inform him that we are done with sample collection for the day.

1445 Arrive at boat ramp. Drop samples.

1500 Depart boat ramp and head to Harbor Is. Marina.

1520 Arrive at Marina. Offload supplies.

1530 End of field day.

~~S. Replinger 5-23-2024~~

4

S. Replinger

5-24-2024

0915 Arrive at Harbor Island Marina.

Meet crew.

Weather: overcast, showers, 50s.

Crew: S. Replinger
 D. Stokes } ww
 C. Christensen }

Linda Kate Brattstrom - Cleanways

John Schaefer - Grants

Elizabeth Grotz - Stell

Kristen Kerns - USACE

0935 Conduct H&S Meeting. Verbal COVID Screen.

0945 Depart Harbor Island Marina.

1005 Pick Claire C. up at boat ramp.

1010 Head across river to area under 1st

Ar S. bridge to begin sampling.

1034 Collect SS1403.

1041 Collect SS1404.

1055 Head upstream towards PPM to continue sampling.

1115 Collect SS1561

1122 Collect SS1564.

1155 Collect SS1829 (under structure @ PPM)

1159 Collect IT1829 (under structure @ PPM)

Return to vessel to process

1234 Collect SS1828.

S. Replinger

5-24-2024 5

1237 Collect IT1828.

Return to vessel to process samples.

1315 Lunch break

1342 Collect SS1568

1347 Collect SS1566

Process samples.

1418 Collect SS1417

1441 Collect SS1412.

1500 Drop samples at boat ramp.

Head back to Harbor Island Marina.

1520 Arrive at Harbor Is. Marina.

1530 Depart marina.

End of field day

S. Replinger
 5-24-2024

6

S. Replinger

6.4.2024

0730 Arrive at Harbor Island Manna.

Weather: overcast, showers, SSS.Crew: S. Replinger }
D. Stokes } unassigned

L. Vate Brattstrom - Cleanways

E. Groat - Skell

Ed Sloan }
Grace Hinz } Grassy

0740 Load + prep supplies for intertidal sampling.

0800 Conduct H&S briefing. Verbal cand screen.

0810 Depart manna. Head to sampling area.

0846 Collect SS1537

0850 Collect SS1523 + SS1523-FD

0922 Collect SS1514

0930 Contact Recology. Head to 1499.

0945 Collect IT1499 and split sample
for Recology. Pass split samples
to Ame LeCocq (Recology).

1005 Collect SS1506 (Tier 2).

1010 Collect SS1512

1035 Collect SS1427

1055 Attempt hand vibracoring at IT1427.
Core rejected. Penetration of 1.9 ft less
than target of 7.5 ft. Hand collect.

1115 Collect IT1427A. (no vertical)

7

S. Replinger

6.4.2024

1130 Head to Sip 2 to attempt hand.

vibracoring at 1317.

1155 Attempt hand vibracoring at IT1317.

Core rejected. Penetration of 2.0 ft
to refusal (rip rap). Hand-collect 0-45.

1213 Collect IT1317A. No vertical.

1235 Drop samples with processing crew
at boat ramp.

1245 Depart boat ramp.

1300 Arrive at Harbor Island Manna.

1315 Depart manna. End of sampling.

day

~~S. Replinger 6.4.2024~~

8 S. Replinger

6.5.2024

0745 Arrive at manna

0800 meet crew: & prep supplies:

Crew: S. Replinger > Winward
C. Christensen

Linda Vate Brattstrom - Cleaning

Ed Sloan > Gravity

Grace Hinz

Elizabeth Groat - Steel

Weather: partly cloudy, sea

0825 Conduct H&S briefing. Verbal and screen.

0835 Depart manna.

0906 Collect SS1402 and FD.

Process and head to DMC.

0920 Arrive at DMC. Prep for sampling. K. Kerns arriving (0930)

1010 First attempt at IT1367.

Accepted. Less than target, but accepted

1027 Collect SS1367.

1043 Collect SS1369

1057 Collect SS1363

1110 Collect SS1360

1120 Collect SS1358

1132 Collect SS1355

1135 Collect SS1352

1158 Collect SS1370.

1221 Collect SS1359

given limitations of
hand vibracoring.
Pen: 5.3 ft (forecast)
64% recovery.

S. Replinger

6.5.2024

9

1227 Collect SS1362

Note: hand vibracoring unit stopped functioning when preparing for attempt 1 at IT1369 (around 1040). Will resume attempts tomorrow.

1307 Collect SS1377

1312 Collect SS1374.

1335 Offload supplies/samples at

boat ramp. K. Kerns departs

1355 Depart boat ramp. Head back to Harbor Island Marina.

1420 Arrive at Harbor Is. Manna.

1440 Depart manna.

End of field day.

~~S. Replinger~~
~~6.5.2024~~

C. Christensen

6-6-24

- 0745 Arrive at marina
- 0800 Meet crew and prep supplies.
 Claire Christensen } windward
 Delaney Stokes }
 Linda Vate Brattstrom - claimways
 Elizabeth Great - Stell
 Ed Sican
 Emma Rigby } Granty
 Weather: 50s, sunny.
- 0815 Conduct H3S briefing, verbal code screen
- 0820 Head to boat ramp.
- 0840 Pick up C. Replinger at boat ramp. Head to duwamish marine center.
- 0845 Arrive at ~~marina~~ DMC and prep for core collection.
- 0915 Attempt 1 @ IT1355
 4.60 ft recovery / 5.40 ft drive,
 85.2% recovery, accepted despite short drive due to hand vibrating limitations
- 0940 Attempt 1 @ IT1352
 4.80 ft recovery / 6.6 ft drive,
 72.3% recovery; accepted despite low drive and recovery due to limitations of hand vibrating.

C. Christensen

6-6-24¹¹

- 1003 Attempt 1 @ ~~IT1351~~ Experiment with different locations for IT1351
- 1013 Collect SS1351
- 1035 Attempt 1 @ IT1351 ^{experimented with different locations for IT1351}
 2.16 ft recovery / 6.40 drive
 33.8% recovery; rejected
- 1059 Attempt 2 @ IT1351
 5.60 ft recovery / 6.70 ft drive, ^{deep bed} accepted
- 1044 Collect SS1364
- 1051 Collect SS1368
- 1110 Provided project flyer to interested individual on dock at DMC.
- 1141 Attempt 1 @ ~~IT1361~~ IT1361
 0.67 ft recovery, 1.25 ft drive,
 53.6% recovery; rejected
- 1155 Attempt 2 @ IT1361
 1.91 ft recovery, 2.80 ft drive,
 68.2% recovery, accepted due to limitations of location. Hand probing reached refusal at ~28 ft around the location. Core was taken at deepest probe point.
- 1206 Attempt 1 IT1359 — 1.76 recovery,
 3.10 pen, 56.8% accepted
- 1217 Attempt 2 IT1359
 0.5 ft recovery, 1 ft drive ^{left in the rain} rejected.

Accepted attempt 1 IT1359 despite low drive and recovery. Hand probing in area yielded best in location of core. 1

1300 Prepare for sampling along dock.

1304 Attempt 1 IT1363

3.91 ~~3.75~~ ft recovery / 5.90 ft drive

66.3 ~~63.6~~ % recovery, ~~accepted~~ accepted.

1319 Attempt 2 @ IT1363

2.10 ft recovery, 5.50 ft drive,

38.2% recovery, rejected.

1335 Attempt 3 @ IT1363

1.80 ft recovery, 5.00 ft drive,

36.0% recovery, rejected.

1133 Collect SS1373. Elly Hale (EPA) arrives at DMC.

1143 Collect SS1376.

1250 Elly Hale departs

1255 Collect SS1411 (and FO).

1445 cc Attempt 1 @ IT1360 rejected.

1345 ~~1445~~ 0.50 ft recovery / 4.50 ft drive = 11.1%.

1400 Attempt 2 @ IT1360

2.40 ft recovery / 5.60 ft drive,

42.9% recovery, rejected.

1422 Attempt 3 @ IT1360 accepted.

4.20 ft drive, 5.40 ft drive, 77.4% recovery.

1427

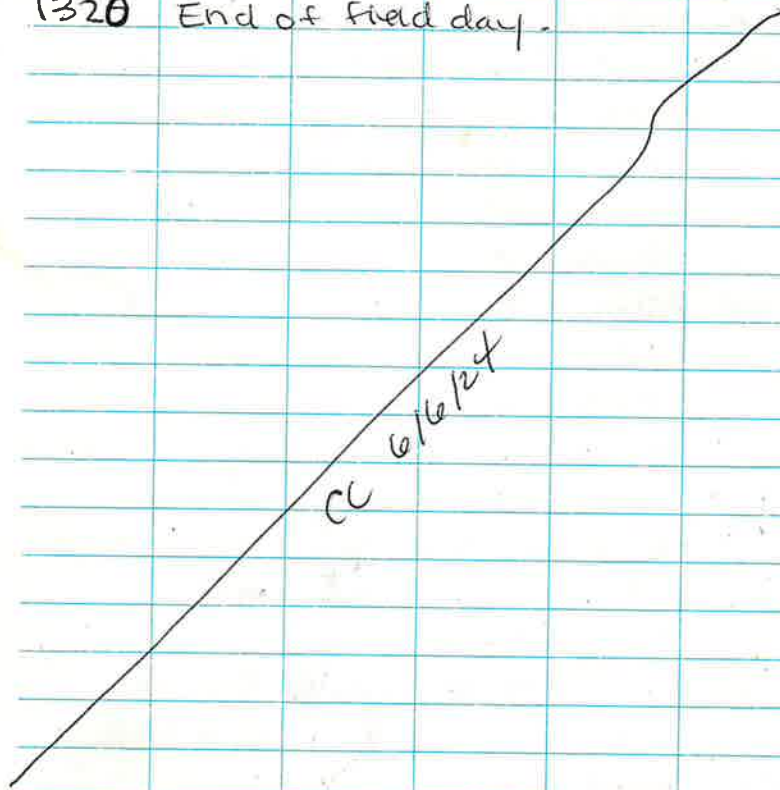
1435 demob equipment.

1447 depart for harbor island manna.

1447 S. Repunger departs for boat ramp on support boat.

1315 Arrive at harbor Island manna, demob.

1320 End of field day.



14 S. Replinger

6.7.2024

0820 Arrive at Harbor Island Marina.

0830 Meet crew & prep for sampling.

Crew: S. Replinger - Windsor

Linda Vette Brettscham - Clearwings

Ed Siegm

Emma Rigby } Granby

Debra Williston - Long County

Weather: Sun, 60s

0845 Conduct H&S briefing. Verbal and screen.

0850 Depart marina. Head to Duwamish

Marine Center to continue sampling.

0910 Arrive at DMC. Prep for sampling.

0950 Attempt 1 at IT1358. Rejected.

Penetration: ~1 ft

1000 Attempt 2 at IT1358. Accepted.

Penetration: 5.80 ft to refusal.

82.8% Recovery.

1027 Attempt 1 at IT1369. Accepted (best of 3).

Location shifted slightly downstream
based on refusal when probing sediment.

3.30 ft drive, 2.40 ft recovery

72.7% recovery

1035 Attempt 2 at IT1369. Rejected.

3.0 ft drive to refusal, <1 ft recovery.

1050 Attempt 3 at IT1369.

Refusal at ~1.00 ft. Rejected.

S. Replinger

6.7.2024

15

1100 Attempt 1 @ IT1370. Rejected.

1.2 ft drive / 0.6 ft recovery. 50%.

1111 Attempt 2 @ IT1370. Rejected.

3.2 ft drive / <1 ft recovery.

1115 Attempt 3 @ IT1370. Rejected.

0.8 ft drive, minimal recovery.

Will hand collect 0-45 cm sample
instead of vertical.

1126 Hand collect IT1370 (0-45 cm only).

1150 ~~Begin~~ Attempts @ IT1364.

Note: probing in this area indicates
hard layers of material 2-3 ft below
surface (and sometimes shallower based
on significant amount of debris in area).
Made numerous attempts in this vicinity
with minimal success (<1 ft drive
before refusal).

1158 Attempt 1 @ IT1364. Accepted.

2.0 ft drive / 1.3 ft recovery (65%)

1205 Attempts begin at IT1368.

#1 2.0 ft drive / <1 ft recovery.

#2 2.5 ft drive / <1 ft recovery.

#3 2.5 ft drive / 1.75 ft recovery (70%)

1215 Attempt 3 accepted. (1215)

best of 3 attempts at IT1368

Rite in the Rain.

16

S. Replinger

6.7.2024

- 1235 Begin attempts at T1362.
 #1 3.4 ft drive / 2.0 ft recovery (58.8%)
 Based on probing and similar nearby attempts, accepted core.
- 1300 Lunch break.
- 1330 Attempt 1 @ SC1366. Accepted.
 Drive: 6.20' ft to refusal.
 4.8 ft recovery (70.7%).
 Less than target, but accepted b/c of attempts for other cores in this area.
- 1405 Depart DML. Head to boat ramp, to deliver 1st core.
- 1425 Depart boat ramp.
- 1448 Collect SS1526. Process sample.
- 1505 Head back to marina.
- 1535 Arrive at marina. Demob/offload supplies.
- 1600 Depart marina. End of field day.

S. Replinger
 6.7.2024

C. Christensen

6.18.24th

- 0750 Arrive at Harbor Island Manna,
 meet crew. Crew:
 Claire Christensen } windward
 Suzanne Replinger }
 Linda Vate Brattstrom - Cleanways
 Eric Parker } RSS
 River Brown }
 Weather: 50s, cloudy
- 0800 Prepare gear for sampling.
- 0820 H3S briefing, verbal cond screen.
- 0835 Depart for T458.
- 0908 Collect SS1458.
- 0930 Collect SS1462.
- 0948 Collect SS1469.
- 1006 Collect SS1494. bioassay.
- 1048 Collect SS1496 SS1548
- 1102 Collect SS1518. bioassay.
- 1130 Collect SS1497. bioassay.
- 1158 Collect SS1498. Attempt 1. Subtidal mudline.
- 1208 SS1498 Attempt 2 cc
- 1155 SS1498 Attempt 1. Rock in jaw.
- 1156 SS1498 Attempt 2. Rock in jaw
- 1158 SS1498 Attempt 3. Rock in jaw ^{cc} subtidal not intertidal
- 1211 SS1498 Attempt 4. Accepted.
- 1227 SS1496 collected slightly out of intertidal due to riprap access ^{not in the basin}

18 C. Christensen

6.18.24

- 1250 SS1392 collected bioassay.
1316 Collect SS1393. bioassay.
1339 Head to processing for bathroom.
1410 Collect SS1396. bioassay.
1434 Collect SS1398. bioassay.
1501 Collect SS1410. bioassay.
1527 Collect SS1349. bioassay.
1544 Head to marina boat ramp to deliver samples to courier.
1635 Head back to Harbor Island Manna.
1650 Arrive at manna, demob, end of sampling day.

CC 6.18.24

C. Christensen

6.19.24

- 0750 Arrive at Harbor Island manna, meet crew, prepare for sampling.
Crew:
Claire Christensen - Windward
Linda Vate Brattstrom - Cleanway
Eric Parker } RS
River Brown }
Weather: 60s, sunny.
0820 Health & safety, verbal con'd screen.
0825 Head to boat ramp to pick up D. Stokes.
0840 Pick up D. Stokes, head to 1305.
0855 Collect SS1305. bioassay.
0919 Collect SS1306. bioassay.
0935 Head to boat ramp to drop off D. Stokes.
0945 Drop off D. Stokes.
0951 Collect SS1395.
1005 Collect SS1397.
1027 Collect SS1399. Attempt 1 rejected.
1033 Collect SS1399. Attempt 2. Accepted.
1102 Collect SS1371.
1120 Collect SS1365.
1137. Collect SS1356.
1157 Collect SS1357 Attempt 1. rejected, penetration < 1 cm. *Rite in the Rain.*

20 C. Christensen

6.19.24 C. Christensen

- 1200 Collect ~~SS1157~~ SS1357. Attempt 2 accepted.
- 1227 Collect SS1353.
- 1250 Break at boat ramp.
- 1310 Head to 1551.
- 1332 Collect SS1551. Brick in jaw but ~~enough of sample~~ sample mostly undisturbed. Collect ^{sample} from fuller side of grab. Collected slightly off target due to wind/current/anchoring issue.
- 1357 Collect SS1546.
- 1416 Collect SS1517. bioassay.
- 1448 Collect SS1572. bioassay.
- 1545 Head to boat ramp to deliver samples.
- 1600 Deliver samples at boat ramp
- 1630 Head to manha.
- 1650 Arrive at manha, demob, end of sampling day.

CC 6.19.24

6.20.24

- 0700 Arrive at Harbor Island Manna, meet crew, prepare for sampling.
- Crew:

Claire Christensen - Windward
Linda Vate Brattstrom - Clearways
Eric Parker } RSS
River Brown

Weather: 60s, sunny.

- 0725 Health & safety, verbal covid screen.
- 0735 Head to ~~1394~~ 1400
- 0804 Collect ^{SS1400} SS1394 bioassay.
- 0832 Collect SS1401. Slightly over-penetrated on one side but most of sample undisturbed (fines not lost). Collecting sample from better side.
- 0850 with Collect SS1394. bioassay.
- 0915 Collect Scope 1445, 1450, 1533, 1525 to see if accessible.
- 0947 Collect SS1584. bioassay.
- 0955 Ecology oversight arrives. Jing Liu
- 1020 Collect SS1580. bioassay.
- 1048 Collect ~~SS1572~~ SS1574. bioassay.
- 1115 Head to boat ramp for restroom.
- 1158 Collect SS1525. Relocated < 30 ft due to barge. (~15 ft).
- 1220 Collect SS1533.

Rite in the Rain

22 C. Christensen

6.20.24

C. Christensen

6.24.2423

- 1254 Collect SS1375.
 1315 Collect SS1354.
 1339 Collect SS1434
 1400 Collect SS1436
 1424 Collect SS1444 Attempt 2 Rejected
 due to penetration of 7cm, < 11cm
 target. Rejected.
 1431 Collect SS1444. Attempt 3. Rejected.
 1420 Collect SS1444. Attempt 1. Rejected
 rock in jaw.
 All three attempts for SS1444
 were rejected. First had rock
 in jaw, others had < 11cm pen.
 (7cm and 8cm respectively).
 Come back to hand collect at
 a later date. Suggest hand collecting
 1447, 1449, 1454, 1456, 1444.
 1455 Tie up to barge to QC.
 1510 Head to boat ramp, deliver
 samples.
 1540 Head back to manna.
 1600 Arrive at manna, demob, end of
 sampling day.

CC 6.20.24

- 0820 Arrive at Harbor Island Manna,
 meet crew, prepare for sampling.
 Crew: Claire Christensen > Windward
 Kate McPeck
 Eric Parker > RSS
 River Brown
 Kasmira O'Brady Cody Keith
 Weather: 60s sunny.
 0905 Health & Safety briefing, verbal
 Covid screen
 0915 Depart manna for boat ramp.
 0930 Pick up supplies at boat ramp.
 0950 Arrive at SS1827, anchor and
 set up for diving.
 1025 Diver enters water @ 1827
 1035 Collect grab @ SS1827 (bioassay location)
 collected 4 "cookie cutters" to
 homogenize and fill jars and bioassay
 bag
 1110 Scope location 1826. Lots of debris in
 area along pier face - unsafe for
 diving. Move downstream to clear
 area ~ 30 ft from target.
 1120 Anchor, prepare for diving
 1130 Diver enters water @ SS1826

Rite in the Rain

24 6/24/24

K. McPeck

- 1155 Collect grab @ SS1826
- 1230 Depart 1826 to investigate stuck anchor
- 1315 Head to 1825, anchor. Move downstream of target area due to woody debris.
- 1340 Diver enters water @ SS1825
- 1353 Collect grab @ SS1825
- 1415 Depart for boat ramp
Arrive boat ramp/processing area,
- 1425 transfer samples
- 1450 Depart boat ramp for marina
- 1520 Arrive marina, unload, off water

6/25/24

K. McPeck 25

- 0730 Arrive Herbi Island marina, meet crew, prepare for sampling
Weather: 60s, Sun
- Crew: K. McPeck } Windward
D. Stokes }
E. Parker }
R. Brown }
K. O'Brady } RSS
C. Keith }
- 0745 H&S meeting, verbal corid screen
- 0815 Depart marina for 1823
- 0835 Arrive 1823, anchor
- 0900 Diver enters water @ 1823
- 0930 Collect grab @ SS1823
- 0940 Collect core @ SC1823
1.6 ft recovery / 2.0 ft drive
80.0% ; accepted
- 1022 Head to 1824, anchor
- 1100 Diver enters water @ 1824
- 1105 Collect grab @ SS1824
- 1113 Collect core @ SC1824 (attempt 1)
1.55 ft recovery / 1.92 ft drive + refusal
80.7% ; accepted
- 1130 Diver probes for deeper sediment; spot located 7 ft offshore of target

Rite in the Rain

26 6/25/24

K. McPike

- 1135 Attempt 2 @ SC1824
1.6 fl recovery / 2.0 fl drive
8.07; rejected - void in bottom
Per S. Replinger accepting attempt 1
(very close to target zone and good recovery)
- 1205 Head to boat ramp/processing to deliver cores
- 1225 Depart boat ramp for 1822
- 1230 Arrive 1822, anchor
- 1245 Diver enters water @ 1822
- 1252 Collect grab @ SC1822
- 1315 Head to boat ramp to unload samples and supplies
- 1345 Depart boat ramp for marina
- 1430 Arrive Marina, unload boat, off-water

7.8.24

C. Christensen 27

- 0750 Arrive at harbor island marina, meet crew, prepare for sampling.
Weather:
70s-80s, sun.
Crew:
C. Christensen
Eric Parker
River Brown
- 0810 H's meeting, verbal coord screen.
- 0815 Depart marina for boat ramp.
- 0840 Head to location ¹³²² from boat ramp after picking up D. Stokes.
- 0857 Arrive^c Collect SS1322. bioassay.
- 0933 Collect SS1474. bioassay.
- 1000 Scope locations 1567, 1570, 1569. Cannot access due to current. come back at slack tide.
- 1040 Collect SS1308. bioassay.
- 1107 Collect SS1319.
- 1130 Collect SS1307.
- 1155 Collect SS1366.
- 1215 Head to boat ramp for break.
- 1249 Collect SS1391.
- 1318 Collect SS1304.
- 1337 Collect SS1300.

Rite in the Rain

28 7.8.24

C. Christensen

- 1417 Collect SS1575.
- 1433 Collect SS1576.
- 1457 Collect SS1571.
- 1525 Collect ~~SS1576~~ " SS1567. hand collect.
- 1550 Head to boat ramp.
- 1610 Deliver samples at boat ramp. ^{drop off} D. Stokes.
- 1640 Head back to manha.
- 1700 Arrive at manha, demob, end of sampling day.

cc 7/8/24

7.9.24

C. Christensen 29

- 0720 Arrive harbor island marina. Meet crew, prepare for sampling. Weather: 70s-90s, sun
- Crew: Claire Christensen - Windward
- Eric Parker > RSS
- River Brown
- Delaney Stokes - Windward
- 0800 H3S meeting, verbal cond screen.
- 0740 Depart manha for boat ramp.
- 0755 Pick up D. Stokes at boat ramp, head to location 135^{sc} 1379.
- 0839 Collect SS1379. bioassay
- 0911 Collect SS1380. bioassay.
- 0936 Collect SS1381.
- 0955 Collect SS1591.
- 1014 Collect SS1590. Both attempts rejected. Come back at higher tide or ^{at low} ~~in afternoon~~ to hand collect.
- 1032 Collect SS1464. slightly off target due to surge.
- 1055 Break at boat ramp.
- Scope 1487 and 1587. come back at high tide for 1487 and hc 1587 at low.
- 1137 Collect SS1487. bioassay.

Return to Rain.

30 7.9.24

C. Christensen

- 1206 Collect SS1481. bioassay.
 1229 Collect SS1482. slightly off target due to barge.
 1300 Attempt to collect 1578 and 1588 by hand. sediment too soft to walk in. Gave up, collect later by vessel.
 1311 Collect SS1591 (by hand)
 1347 Collect SS1565 by hand
 1406 Collect SS1569.
 1427 Collect SS1570.
 1445 Scope 1583 for access.
 1451^{cc} Collect SS1583. @ 1454
 1451^{cc} Tie up and QC samples
 1545 Head to boat ramp, deliver samples.
 1630 Head to manna.
 1655 Arrive at manna, demob, end of sampling day.

drop off
D. Stokes
✓

cc 7/19/24

7.10.24

C. Christensen

31

- 0720 Arrive Harbor Island manna, meet crew, prepare for sampling. Weather: 70s
 Crew: Claire Christensen
 Delaney Stokes → Wilhelmina
 Eric Parker → QSS
 River Brown
 0740 Depart manna for boat ramp.
 0800 H's meeting, verbal covid screen, after picking up D. Stokes at boat ramp.
 0805 Head to 1487. blocked
 0820 Attempt 1 SS1587. rejected
 0825^{cc} debris in jaw.
 0825 Attempt 2 SS1587. accepted.
 0840 Scope access for 1525
 0855 Collect SS1588. slightly off target due to bridge blocking access. 31.9 ft away from target. Attempt 1 @ 0850 rejected (debris in jaw). Attempt 2 @ 0855 accepted.
 0919 Collect SS1557. Attempt 1, rejected.
 0927 Attempt 2 SS1557. accepted.
 0945 Attempt 1 SS1560. Accepted.
 1008 Collect ~~SS1455~~ SS1461

Rite on the Rain

7.10.24

C. Christensen

- 1027 Collect SS1455.
 1050 Break at boat ramp.
 1058 Head to 1525.
 1115 Collect SS1525.
 1141 Collect SS1471. bioassay.
 1208 Scope access to 1445 and 1450
 1224 Collect SS1475. Off target due
 to barge blocking target. (≈ 30 ft).
 1323 Collect SS1516. by hand.
 1339 Collect SS1578. bioassay.
 1442 Collect ~~SS1~~ "IT1568 by hand.
 1516 Scope access for 1487. Cannot
 get within 100ft of target.
 1355 Collect SS1558.
 1540 Head back to boat ramp.
 1555 Deliver samples to corner at
 boat ramp
 1630 Head back to Manka
 1700 Arrive marina, demob, end of
 16⁰⁰ sampling day.

cc 7/10/24

7/24/24

C. Christensen 33

- 1045 Begin sampling day. Ship 4
 grabs were collected in morning.
 Starting middle reach grabs on
 vessel in ship 4.

Crew:

C. Christensen J. Schacter
 D. Stokes S. McGroddy
 E. Sloan Granby J. Liu - DSE

Weather: 70s sun.

H 35 was conducted in morning
 for Ship 4 sampling.

- 1058 Collect SS1445. accepted.
 1110 Scope access to SS1450.
 1121 Collect SS1473. Attempt 1
 rejected due to scrap metal
 in jaws.
 1126 SS1473 attempt 2. accepted.
 1202 Collect SS1472. bioassay.
 1230 Pause sampling for middle
 reach and return to ship 4
 1455 Deliver samples to corner.
 1500 End of sampling day.

cc 7/24/24

Rite in the Rain.